# Mapping of the Aligned Indicators for Sustainable Infrastructure (AISI) against Established ESG Systems

Selection No. 1272417

Final Submission DRAFT FOR REVIEW

## submitted to PPIAF

April 30, 2021

Prof. Spiro N. Pollalis Evgenia Chatzistavrou Olga Tzioti

Prof. Dr. S.N Pollalis, Inc., Belmont, MA

## Contents

|  | 3   |
|--|-----|
|  | 3   |
|  | 4   |
| 2.AISI SCOPE   | 5   |
| 3.SCOPE OF THE MAPPING EXERCISE  | 5   |
| 4.OVERVIEW OF METHODOLOGY DEVELOPMENT  | 8   |
| 5. HIGH - LEVEL OVERVIEW OF SUGGESTED SYSTEMS (SYSTEMS MATRIX)                           | 9   |
| 6. ESG SYSTEMS ANALYSIS  | 14  |
| 6.1. Analysis of AISI  | 14  |
| 6.2. Analysis of WEF IBC   | 20  |
| 6.3. Analysis of 5ISS or 'Group of Five' joint effort                                    | 26  |
| 6.3.1. Under-development sustainability-related financial reporting framework & standard | 26  |
| 6.3.2. Analysis of GRI Standards   | 28  |
| 6.3.3. Analysis of SASB Standards  | 40  |
| 6.4.Analysis of TCFD Recommendations   | 54  |
| 6.5. Analysis of the EU ESG Regulations  | 63  |
| 6.5.1. Analysis of the EU Taxonomy Regulation  | 65  |
| 6.5.2. Analysis of the EU Non-Financial Reporting Directive (NFRD)                       | 68  |
| 6.5.3. Analysis of the EU Sustainable Finance Disclosure Regulation (SFDR)               | /2  |
| 6.6. Overview of ISO TC 322 Standards  | 76  |
| 6.7. Overview of IFRS Standards  | 79  |
| 7. HIGH-LEVEL MAPPING EXERCISE AND FINDINGS  | 79  |
| 8. DETAILED MAPPING EXERCISE AND FINDINGS  | 86  |
| 8.1. Rationale for the exclusion of some systems from the detailed mapping               | 86  |
| 8.2. Detailed mapping methodology  | 89  |
| 8.3. AISI-WEF IBC detailed mapping findings  | 95  |
| 8.4. AISI-GRI detailed mapping findings  | 106 |
| 8.5. AISI-SASB detailed mapping findings   | 124 |
| 8.6. ICFD-AISI detailed mapping findings   | 142 |
| 8.7. EU NFRD-AISI detailed mapping lindings  | 152 |
| 8.6. EU SEDR-AISI detailed mapping midings   | 105 |
| 9. SYNTHESIS OF FINDINGS   | 180 |
| 9.1. Synthesis of the findings of high-level mapping                                     | 181 |
| 9.2. Synthesis of findings of the detailed mapping                                       | 182 |
| ABBREVIATIONS  | 194 |
| REFERENCE DOCUMENTS PER SYSTEM   | 195 |
| APPENDIX A   | 197 |
| APPENDIX B   | 202 |
| APPENDIX C   | 209 |
| APPENDIX D   | 226 |
| APPENDIX E   | 228 |
| APPENDIX F   | 229 |
|  | 225 |

## ACKNOWLEDGEMENTS

The authors would like to thank for their contribution: Philippe Neves, PPIAF, World Bank; Vaishnavi Rupavatharam, Research Assistant, PPIAF, World Bank; Merita Salihu, Consultant, Infrastructure PPPs, World Bank Group; and Xiaohan Shao, Consultant, Public-Private Infrastructure Advisory, World Bank Group.

## **EXECUTIVE SUMMARY**

The Aligned Indicators for Sustainable Infrastructure (AISI) is the product of a research project of ISCA, ISI Envision, GBI, and GRESB, under the leadership of GIB, sponsored by the Public-Private Infrastructure Advisory Facility (PPIAF). AISI harmonizes sustainability indicators and thereby "mobilizes greater levels of private capital into emerging markets sustainable infrastructure." AISI intends to operate in a space currently occupied by three overlapping regimes: the SDGs, national laws and regulations, and the ESG (environmental, social, and governance) standards of various IFIs or other financiers.

This research report presents the methodology and the findings of mapping the AISI against established ESG systems. The mapping tracks how AISI "echoes" those ESG initiatives as a starting point at the government/developer early-stage and AISI's compatibility with other and more comprehensive standards downstream when private sector investors start considering a project.

The following ESG systems were used to map AISI:

- The European Union (EU) ESG Regulations.
- The 'group of five' Corporate Reporting System (5ISS).
- The World Economic Forum's (WEF) and the International Business Council (IBC) ESG Reporting Metrics and Disclosure Standards.
- The International Organization for Standardization (ISO's) TC322 Standards.
- The International Financial Reporting Standards Foundation's (IFRS) Standards.
- The Task Force on Climate-related Financial Disclosures (TCFD) Framework.

It should be noted that AISI has been designed to be applicable at the project level, while the ESG systems that we compared to AISI have been designed to be applicable at an enterprise level. As a result, certain assumptions were necessary to converge the two.

The mapping highlights AISI's set of topics and related indicators and their relations with the other systems when information is available. It also identifies important features of the ESG systems, which AISI does not address, as well as unique features of AISI. Some of the above ESG systems like ISO TC322 and IFRS, are still under development and the mapping was not possible.

After analyzing the above ESG systems, the mapping was carried at two levels: first, an overall high-level mapping of all systems. Then, the detailed mapping followed between AISI and each of the selected ESG systems. The high-level mapping investigated the compatibility between AISI and the compared ESG

systems for the tools' scope, compatibility, ease of use, compactness, comprehensiveness, relevance to infrastructure projects, structure, and content. The findings of the high-level mapping led to the selection of ESG systems to be included in the detailed mapping to follow. Those systems are WEF-IBC, SASB, and GRI (both part of the systems that constitute 5ISS), TCFD Recommended Disclosures, EU NFRD, and EU SFDR (both included in the EU ESG Regulations).

The detailed mapping aims to investigate the degree to which the ESG systems address the Environmental, Social Governance aspects (through their indicators and topics), to what degree they address the SDGs, and the level of alignment between the indicators of AISI and the mapped systems' content.

A cross-system reading of the results of mapping follows to present the findings of the high-level mapping. Then, the findings of the detailed mapping are presented as they relate to key sustainability issues: climate risk, GHG emissions, energy, water, solid waste, air quality, biodiversity, and human capital.

All findings are based either on the indicators or metrics identified as omitted by AISI but present in other ESG systems. The findings are also based on the observed similarities or differences in the approach and methodology used by each ESG system regarding the selected sustainability topics.

The cross-reading of the mapping reveals that AISI is a useful tool to its stated primary audience, i.e., governments and public authorities at the beginning of infrastructure planning, prioritization and procurement. Through its selection of indicators which tackle all ESG aspects, AISI provides guidance to decision-makers who are willing to further integrate sustainability in infrastructure projects.

It is also observed that the selection of AISI's sustainability topics is highly compatible with the mapped ESG systems. Considering that the mapped systems mainly refer to investors, it can be concluded that AISI's selection of topics is well-targeted to investors, being AISI's secondary audience. Infrastructure companies that collect and disclose information through the use of AISI's set of indicators can provide these data to investors who, with appropriate further elaboration according to their financial criteria, may draw conclusions in their own areas of interest.

## 1. INTRODUCTION

In recent years, momentum has grown towards a coalescence of the major non-financial reporting standards. Investors have started to join the discussion and reporting businesses have expressed interest in harmonized standards for non-financial reporting.<sup>1</sup> The main trends include work on proving or enhancing reporting systems alignment to the Sustainable Development Goals (SDGs), the Paris Agreement goals, and alignment to the Task Force for Climate-related disclosures (TCFD) recommendations.

<sup>&</sup>lt;sup>1</sup> KPMG IMPACT. (December 2020) "The time has come: The KPMG Survey of Sustainability Reporting 2020." https://home.kpmg/xx/en/home/insights/2020/11/the-time-has-come-survey-of-sustainability-reporting.html

AISI, as its name highlights, Aligned Indicators for Sustainable Infrastructure, was envisioned as a response to the investors demand for SDG and Paris Agreement goals and targets alignment of infrastructure projects. Since the AISI project started, the ESG ecosystem is undergoing a fundamental transformation with the major established ESG systems updating their frameworks and standards to align and create one comprehensive global standard.

## 2. AISI SCOPE

"The AISI is a communication and synthesis effort by the leading sustainability standard-setters and benchmarkers to showcase an agreement on essential indicators that mark the path towards achieving infrastructure sustainability. This set of derived indicators signals characteristics that are deemed necessary but not sufficient to ensure a project's overall sustainability. AISI is compact and easy to use but it is not a new standard. The AISI is a publicly available guidance tool that seeks to raise investor awareness on how to enhance the sustainability of infrastructure assets and services. It is intended to bridge the universe of ESG indicators from different financial institutions, national systems and the SDGs. The AISI helps 'preposition' projects through sustainability design to facilitate the later adoption of standards. Plus, it does not have in principle an assurance system that might be required to validate the accuracy of the reported information on the indicators."<sup>2</sup>

The overall goal of AISI is to mobilize greater private capital levels into the emerging market of sustainable infrastructure. Due to the increasing demand by investors for SDG– and Paris Agreement– alignment, "AISI aims to assist investors to better understand the contribution of their investment to the SDGs." It is a set of indicators built upon existing global corporate indicators "but further includes the specificities of infrastructure assets." "It is not intended to fully cover the comprehensive range of sustainability characteristics which would be required to define sustainability in infrastructure', but rather highlight 'characteristics that deemed as necessary for early consideration by investors when prioritizing projects. Therefore, "the indicator set is not a comprehensive list of reporting requirements, but reporting on them as a minimum is a first step towards mainstreaming evidence-based sustainable infrastructure." AISI also contributes to further ESG disclosure and hence fosters transparency, as demonstrated through the inclusion of process-based indicators that require documenting processes and plans in place.

## 3. SCOPE OF THE MAPPING EXERCISE

"The present assignment aims at AISI addressing other ESG systems' efforts through "mapping." The mapping refers to tracking how AISI "echoes" other established ESG systems and related recent initiatives.<sup>3</sup> The mapping exercise is based on AISI's structure and content and enables to highlight how AISI's set of topics and related indicators are addressed by the other systems. Additionally, the mapping

<sup>&</sup>lt;sup>2</sup> PPIAF. "Promoting Sustainable Infrastructure through an Aligned Set of Sustainability Indicators (AISI)" version March 2021.

<sup>&</sup>lt;sup>3</sup> 'Objective and Scope of Work for the Mapping Exercise' document by PPIAF.

#### PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

identifies important features from other systems that AISI may not address, e.g., sector-specific information.

**The mapping exercise initially involved a list of ESG systems for mapping against AISI, which reflect** the response of established ESG standards and frameworks and regulators –in the case of the EU– to the ongoing discourse and research on the need for a globally relevant set of standards for ESG disclosure of companies. These ESG systems have either been recently developed or are in the process of development.

#### List of suggested ESG Systems:

- <u>The European Union (EU) ESG Regulations:</u><sup>4</sup>
  - EU Taxonomy Regulation
  - EU SFDR Disclosure Regulation
  - EU NFRD Non-financial Reporting Directive
- The 'group of five' Corporate Reporting System, a joint effort by:
  - CDP (former Carbon Disclosure Project's)
  - Climate Disclosure Standards Board's (CDSB)
  - Global Reporting Initiative's (GRI)
  - International Integrated Reporting Council's (IIRC)
  - Sustainability Accounting Standards Board's (SASB)
- The World Economic Forum's (WEF) and the International Business Council (IBC) ESG Reporting Metrics and Disclosure Standards
- The International Organization for Standardization (ISO's) TC322 Standards
- The International Financial Reporting Standards Foundation's (IFRS) Standards
- The Task Force on Climate-related Financial Disclosures' (TCFD) Framework

The on-going efforts by each ESG system for disclosure of companies are summarized below:

In March 2018, the EU Commission issued its Action plan on Financing Sustainable Growth, also known as the 'Action Plan'. The plan includes ten action points, three regulations in the areas of taxonomy, disclosure and low carbon benchmark. As part of one of the 10 actions of the Plan EU commits to review the EU Non-financial Reporting Directive (NFRD). In June 2019 Supplemental Guidelines were published on reporting climate-related information and in 2020 the EU launched two public consultations on the revision of NFRD. Based on the results of the consultations, in April 2021 the European Commission presented a proposal for a Corporate Sustainability Reporting Directive as a revision of the NFRD reporting rules.

<sup>&</sup>lt;sup>4</sup> The under revision EU Regulations are part of a broader plan, the EU Action Plan for sustainable finance, that includes three regulations: the EU Taxonomy regulation, the EU Disclosure regulation, and the Climate Benchmark regulation. The latter will not be part of the mapping exercise, given that benchmarking is out of ASSI's scope. The EU Non-financial Reporting Directive is included in the mapping exercise as along with the EU Taxonomy sits at the center of the EU ESG Regime "with the NFRD providing the raw ESG data (at least from large EU corporates) and the taxonomy providing the official ESG classifications and associated technical criteria." (source: EU ESG Regulations guide, 2020).

Final Report

- Five major non-financial reporting organizations (GRI, SASB, IIRC, CDSB and CDP) have published in September 2020 a Statement of Intent, committing to work together towards comprehensive corporate reporting.
- The World Economic Forum and International Business Council (IBC) launched a project to develop a common set of baseline ESG metrics for consistent reporting for sustainable value creation and released its paper defining 21 core metrics in September 2020.
- ISO formed in 2018 the ISO/TC 322, a technical committee on Sustainable Finance to establish a framework under which new standards may be developed to define and guide certain sustainable finance activities.<sup>5</sup> A Supporting statement to ISO/TC 322 scope was released in September 2019 and the ISO/TC 322 Strategic Business Plan v1 became publicly available in April 2020. The under development work is estimated to be completed in a 4 to 8 years period.
- The IFRS Foundation issued a consultation in September 2020 to end of December 2020 to calibrate market views on a global standard for sustainability reporting. Though the consultation results are not yet published, it has received strong support from other organizations, like IOSCO (International Organization of Securities Commissions).
- The Task Force for Climate- related Disclosures (TCFD) published its Recommendations on Climate-related disclosures in June 2017 along with an Implementation guide for companies, including example metrics. Since then TCFD has been growingly adopted by major organizations, who seeked to align with the TCFD framework. In October 2020 TCFD published Guidance on Scenario Analysis for Non-Financial Companies and realized a consultation during October 2020- January 2021 to determine whether further TCFD financial sector guidance on forward-looking metrics is needed. <sup>6</sup>

A more detailed presentation of the evolution of the systems under review is presented in a timeline in Appendix A.

The 13 listed ESG systems are categorized in three main types:

- ESG regulations and related guidelines.
- Conceptual reporting frameworks.
- ESG reporting standards.

AISI is an ESG guidance tool, however none of the other under review systems is identified as such therefore no relevant category was added. Though AISI does not belong in the category of reporting

<sup>&</sup>lt;sup>5</sup> ISO/TC 322 will seek contributions from other ISO/TCs (several of which already have directly applicable standards; for example, supporting management and reporting) and from external stakeholders and organizations. More specifically, TC 322 has close cooperation with TC 68 in the field of financial services, TC 207 in the field of environmental management, TC 251 in the field of asset management and TC 309 in the field of governance of organizations. (https://www.iso.org/committee/7203746.html)

<sup>&</sup>lt;sup>6</sup> On December 4, 2015, the Financial Stability Board (FSB) established the industry-led Task Force on Climaterelated Financial Disclosures (TCFD) with mission to develop voluntary, consistent, climate-related financial disclosures for use by companies in providing information to lenders, insurers, investors and other stakeholders, which were published in the TCFD Recommendations Report on June 29, 2017.

standards, it relates more to this category. Therefore for the purposes of the present mapping exercise AISI is considered to be sufficiently represented by the category 'standards'.

The mapping exercise could not be performed in equal terms for the three types of ESG systems. It is important to define what the 'mapping exercise' aims to demonstrate. The terms 'consistency,' 'compatibility,' and 'alignment' were explored to determine if applicable:

- **alignment** is the process of reaching compatibility, and
- **consistency** suggests a higher level of precision, that would be a high bar to reach or even assess.' Therefore, consistency is not a term to use for AISI mapping.

The choice of the right term depends on the type of the ESG system that is mapped. Each of the three main identified types of systems are mapped to serve a different purpose, expressed by the appropriate term:

| Identified<br>system types | Purpose of mapping   |
|----------------------------|--|
| ESG<br>Regulations         | explore AISI's alignment with mandatory requirements.  |
| Frameworks                 | explore if and how AISI seeks to implement the framework; moreover, because the framework may have a broader scope, compatibility should be explored along their common ground, of relevant scope.   |
| Standards                  | explore <b>overlaps</b> , <b>omissions</b> , <b>and additions</b> ; there is no need for proving compatibility<br>or not in similar to AISI of ESG guidance, but rather highlight if there is a duplication of<br>effort or a significant degree of covering the same issues through similar indicators.<br>This is basically where the added value of AISI can be proven. |

## 4. OVERVIEW OF METHODOLOGY DEVELOPMENT

The exact methodology for the AISI mapping exercise included the following tasks:

#### Task 1: Analysis of AISI (latest version March 19, 2021)

The AISI tool manual of March 19, 2021 is used as the basis for the mapping exercise. The tool has been studied in terms of scope, boundary of assessment, structure and content to determine what the mapping exercise should entail. Given that mapping will refer to AISI, i.e., the other systems will be mapped against AISI, its analysis determines the mapping exercise 'areas of comparison.'

#### Task 2: Analysis of the suggested ESG systems

The latest up-to-date information on the suggested systems has been used as the basis for the mapping. It is essential to provide a full description of each system and select those features that are considered essential to enable comparison or determine the appropriate or possible level of comparison. The systems documentation review is focused on the objectives of the mapping exercise.

#### Task 3: Development of a methodology for the high-level mapping of AISI against the suggested systems

The high-level mapping aims to provide a broad overview of the systems to help track compatible features in terms of scope, ESG focus, methodological and analytical tools used, infrastructure project relevance, etc. This task includes developing a matrix for the ESG systems to be studied, consisting of selected features. This matrix is used as the primary tool for high-level identification of each system's alignment. The methodology is presented in Section 7 of this report.

#### Task 4: Interpretation of the systems matrix

After the methodology of the high-level mapping was established, an initial high-level exercise started. This exercise aimed to determine the final selection of systems to be included in the detailed mapping exercise to draw meaningful conclusions according to the mapping objectives. As a result of the completed review of systems and after completing the high-level mapping, the level of relevance in terms of scope, structure, and content compatibility to AISI is revealed for each ESG system.

#### Task 5: Development of methodology for detailed mapping

After performing a high-level mapping, the mapping exercise moves on to a higher level of detail. This task focuses on assessing the alignment between the examined systems indicators and units. It aims to investigate:

- the mapped systems structural alignment and their level of relevance with the ESG aspects,
- how and in what degree they address the SDGs, and
- the level of alignment between the indicators of AISI and the indicators of the mapped system.

To complete the above objectives, two different methodologies were applied for mapping, depending on the type of systems mapped against AISI, as presented in Section 8.2.

## 5. HIGH - LEVEL OVERVIEW OF SUGGESTED SYSTEMS (SYSTEMS MATRIX)

A main objective of the high-level mapping is to select the systems to be used for mapping. As part of this task, a spreadsheet was developed, a matrix of all ESG systems, containing four broad categories of data:

- General system data;
- System scope data;
- System structure data; and
- System content data

The following fields of data in the systems matrix are grouped under the four broad categories of data as follows:

#### General system data

- name of the ESG system,
- system developer,
- development status, and
- released versions (if more than one).

#### System scope data

- type of ESG guidance (reporting frameworks, standards, combined frameworks & standards, reporting guidelines or regulations),
- mandatory or voluntary,
- target audience,
- global or regional,
- ESG focus (Environmental, Social, or Governance),
- climate-specific (Y/N),
- project level or corporate,
- infrastructure-specific (Y/N), and
- infrastructure relevant (Y/N).

#### System structure data

- number of guidance documents,
- main structural components,
- economy sector-specific (Y/N),
- target economy sectors/industries (list of sectors/industries considered),
- sustainability topics, and
- number of indicators.

#### System content data

- inclusion of benchmarks,
- infrastructure- relevant indicators,
- prescription of metrics,
- number of quantitative indicators,
- number of qualitative indicators,
- connection to project phases (Y/N),
- connection/reference to other ESG systems (Y/N and list of referenced ESG systems),
- connection to Sustainable Development Goals (SDGs) (direct or indirect), and
- connection to the TCFD framework.

The proposed fields of systems matrix are based on AISI, however, they draw from other systems those features that will enable a full system description without omitting key features of the other systems that AISI does not address (e.g. sector-specific information).

The individual frameworks and standards of the 5ISS system (CDP, CDSB, GRI, IR and SASB) have been analyzed in addition to the 5ISS. Therefore, the systems matrix contains data of **13 systems**.

The following tables are part of the entire matrix and present two of the four categories of data: the "system scope" and "systems content." The respective tables of the remaining categories (i.e. "systems general data" and "systems structure") are in the Appendix B.

#### Table 1: System Matrix Table (systems scope-related data)

| SYSTEMS SCOPE               |   |                                   |   |   |                |   |                         |                                      |  |
|-----------------------------|---|-----------------------------------|---|---|----------------|---|-------------------------|--------------------------------------|--|
| SYSTEM                      | TYPE OF ESG<br>GUIDANCE   | MANDAT<br>ORY OR<br>VOLUNT<br>ARY | TARGET AUDIENCE   | GLOBAL<br>OR<br>REGIONAL  | ESG<br>FOCUS   | CLIMATE-<br>SPECIFIC  | PROJECT or<br>CORPORATE | INFRAST<br>RUCTUR<br>E -<br>SPECIFIC | INFRAST<br>RUCTUR<br>E -<br>RELEVA<br>NT |
| AISI                        | ESG Guidance<br>tool  | Voluntary                         | public authorities in<br>EMDEs, Investors and<br>private financiers,<br>International Financial<br>Institutions (IFIs)  | Global  | E,S,G          | NO  | Project                 | YES                                  | YES                                      |
| EU<br>TAXONOMY<br>(PHASE 1) | ESG Regulation<br>(classification of<br>environmentally<br>sustainable<br>activities)                                       | Mandator<br>Y                     | Financial market<br>participants, Large<br>companies required to<br>provide non-financial<br>statement under NFRD,<br>EU and member states<br>when setting standards<br>or labels for green<br>financial products or<br>green bonds | Regional<br>(however<br>certain<br>criteria are<br>of<br>internationa<br>I relevance <sup>7</sup> | E <sup>8</sup> | YES (Phase<br>1 focuses<br>on criteria<br>for<br>substantial<br>contributio<br>n to climate<br>change<br>mitigation<br>and<br>adaptation) | Business<br>activities  | NO                                   | YES                                      |
| EU SFDR                     | ESG Regulation<br>(sustainability<br>disclosure<br>obligations)   | Mandator<br>y                     | Investors   | Regional  | E,S            | NO  | Corporate               | NO                                   | YES                                      |
| EU NFRD                     | Guidelines on<br>non-financial<br>reporting &<br>Supplement<br>guidelines on<br>reporting<br>climate-related<br>information | Mandator $\gamma^9$               | Investors   | Regional  | E,S            | YES <sup>10</sup>   | Corporate               | NO                                   | YES                                      |

A taxonomy reflecting only a single jurisdiction and its associated activities will not allow issues and investors to cover all of their international activities or investments. To resolve this issue, the Technical Expert Group on Sustainable FInance (TEG) –set by the European Commission to develop the Taxonomy– has identified certain criteria in the EU taxonomy as being of "international relevance", meaning that users of the taxonomy could use them for economic activities located outside the EU. The EC also launched an International Platform on Sustainable Finance (IPSF) in September 2019 as a way to facilitate the exchange of views on best practices, promote international cooperation and, when appropriate, coordination in the area of environmentally sustainable finance.

<sup>&</sup>lt;sup>8</sup> The EU defines "Sustainable Finance" as the process of considering the environmental and social impact in investment decision-making, leading to a growth of long-term investments and sustainable activities. While the plan recognizes the key role of governance, there's a clear focus on environmental and social considerations.

<sup>&</sup>lt;sup>9</sup> EU NFRD requires public-interest entities (PIEs) with more than 500 employees (and that have either a balance sheet total of more than EUR 20 million or a net turnover of more than EUR 40 million) to include a non-financial statement in their annual report

<sup>&</sup>lt;sup>10</sup> EU. (2019 )Supplement on reporting climate-related information

**Final Report** 

|  | -   |           |   |               |       |                              |                                 |     |     |
|--|---|-----------|---|---------------|-------|------------------------------|---------------------------------|-----|-----|
| 5155   | Corporate<br>Reporting<br>System on<br><b>Climate Change</b><br>(Combination of<br>Frameworks &<br>Standards) | Voluntary | Investors   | Global        | E, G  | YES                          | Firm- &<br>Product level        | NO  | YES |
| CDP<br>Questionnaire<br>s  | Initiative <sup>11</sup><br>not Standard  | Voluntary | Investors   | Global        | E,G   | YES                          | Both but<br>mainly<br>corporate | NO  | YES |
| CDSB<br>Framework  | Framework for<br>reporting<br>environmental<br>& climate change<br>information                                | Voluntary | Investors   | Global        | E     | YES<br>(additional<br>focus) | Corporate                       | NO  | YES |
| GRI<br>Standards   | Reporting<br>principles and<br>standards <sup>12</sup>  | Voluntary | All stakeholders,<br>including customers,<br>employees, civil<br>society, governments,<br>and investors | Global        | E,S,G | NO                           | Both                            | NO  | YES |
| INTERNATION<br>AL <ir><br/>FRAMEWORK</ir>                          | Integrated<br>Reporting<br>Framework  | Voluntary | Investors   | Global        |       | NO                           | Corporate                       | NO  | YES |
| SASB<br>Standards  | Reporting system<br>(Conceptual<br>Framework &<br>Standards)  | Voluntary | Providers of financial<br>capital, such as<br>investors, lenders, and<br>underwriters                   | Regional (US) | E,S,G | NO                           | Both but<br>mainly<br>corporate | NO  | YES |
| WEF-IBC ESG<br>Reporting<br>Metrics and<br>Disclosure<br>Standards | <del>Tool/</del> ESG<br>Reporting<br>Metrics and<br>Disclosure<br>Standards                                   | Voluntary | Investors   | Global        | E,S,G | NO                           | Both but<br>mainly<br>corporate | NO  | YES |
| ISO / TC 322   | Standards   | Voluntary |   | Global        | E,S,G | NO                           | -                               | NO  | YES |
| IFRS<br>Consultation   | Financial<br>reporting<br>standards<br>integrating<br>sustainability and<br>climate change                    | Voluntary | Investors, lenders and other creditors  | Global        | -     | -                            | Corporate                       | YES | -   |
| TCFD<br>Framework  | Framework/<br>Recommendatio<br>ns for climate-<br>related<br>disclosures                                      | Voluntary | Lenders, insurers,<br>investors and other<br>stakeholders   | Global        | E,G   | YES                          | Both but<br>mainly<br>corporate | NO  | YES |

<sup>&</sup>lt;sup>11</sup> CDP is not a standard but rather considered a precursor to standards or de-facto standards. Platform = the repository for sustainability information (Source: 5ISS Statement of Intent)

<sup>&</sup>lt;sup>12</sup> GRI Reporting standards are aimed to be used to prepare a sustainability report which is based on the Reporting Principles and focuses on material topics

#### Table 2: System Matrix Table (systems content-related data)

| SYSTEMS CONTENT             |   |  |  |                                    |   |   |                                    |  |  |
|-----------------------------|---|--|--|------------------------------------|---|---|------------------------------------|--|--|
| SYSTEM                      | INCLUSION OF<br>BENCHMARKS  | QUANTITATIVE<br>INDICATORS   | QUALITATIV<br>E<br>INDICATORS  | CONNECTION<br>TO PROJECT<br>PHASES | CONNECTION/REFERENCE<br>TO OTHER ESG SYSTEMS  | CONNECTION TO<br>SDGs (DIRECT<br>OR INDIRECT) | CONNECTION TO<br>TCFD<br>FRAMEWORK |  |  |
| AISI                        | NO  | 10   | 17   | YES                                | GRESB, ISCA, CEEQUAL, GIB,<br>ISI ENVISION, TCFD  | YES (DIRECT)                                  | YES                                |  |  |
| EU<br>TAXONOMY<br>(PHASE 1) | YES<br>technical<br>screening<br>criteria (per<br>sector and<br>activity) |  |  | NO                                 | NO  | YES<br>(INDIRECT) <sup>13</sup>               | NO                                 |  |  |
| EU SFDR                     | NO  | YES  | YES  | NO                                 | EU TAXONOMY   | YES (INDIRECT)                                | NO                                 |  |  |
| EU NFRD                     | NO  | YES  | YES  | NO                                 | TCFD, GRI, CDP, CDSB, SASB,<br>IIRC and EU EMAS (Eco-<br>Management and Audit<br>Scheme)<br>EU TAXONOMY | YES (INDIRECT)                                | YES                                |  |  |
| 5155                        | NO  |  |  | -                                  | CDP, CDSB, GRI, IR, SASB  |   | YES                                |  |  |
| CDP                         | NO  | YES  | YES  | NO                                 |   | YES (DIRECT)                                  | YES                                |  |  |
| CDSB                        | NO  | NO   | NO   | NO                                 |   | YES (DIRECT)                                  | YES                                |  |  |
| GRI                         | NO  | YES<br>(quantitative<br>reporting<br>requirements)                         | YES  |                                    |   | YES (DIRECT)                                  | NO                                 |  |  |
| <ir></ir>                   | NO  | NO   | NO   |                                    |   | YES (DIRECT)                                  | NO                                 |  |  |
| SASB                        | NO  | YES<br>(quantitative<br>accounting<br>metrics<br>specific per<br>industry) | YES<br>(accounting<br>metrics<br>specific per<br>industry;<br>called<br>'Discussion<br>and Analysis' |                                    |   | YES (DIRECT) <sup>14</sup>                    | NO                                 |  |  |

<sup>&</sup>lt;sup>13</sup> Translates the Paris Agreement and SDGs considered where necessary in the 'do no significant harm' evaluation

<sup>&</sup>lt;sup>14</sup> SDG Mapping performed and SASB disclosure topics linked to SDG goals and targets, however the Materiality map, the main interactive SASB tool or the various industry standards does not include this information.

**Final Report** 

| WEF-IBC   | NO  | YES | YES | NO | Indicators sources:<br>the CDP, CDSB, GRI, IIRC<br>and SASB. | YES (directly<br>linked with<br>each pillar) | YES (DIRECT) |
|-----------|-----|-----|-----|----|--|--|--------------|
| ISO TC322 | N/A | -   | -   | NO | -  | YES  |              |
| IFRS      | -   | -   | -   | -  | reference to TCFD, SASB,<br>GRI,CDSB, CDP                    | -  | YES          |
| TCFD      | NO  | YES | YES | NO | EU, CDP, CDSB, GRI, IIRC,<br>SASB                            | YES (SDG 13)                                 |              |

## 6. ESG SYSTEMS ANALYSIS

As part of the analysis, the information on AISI and the under review systems is summarized and presented through the same format 'tables:' "System Overview Tables" and "Structure Tables," as a more consistent and comparable way of presenting the ESG systems. They build upon the 'Systems matrix' and expand and illustrate the information further.

## 6.1. Analysis of AISI

**Reference document:** PPIAF. Promoting Sustainable Infrastructure through an aligned set of sustainability indicators (AISI). Version March 19, 2021.

## Table 3: AISI Overview Table

| AISI OVERVIEW TABLE                  |  |  |  |  |  |
|--------------------------------------|--|--|--|--|--|
|                                      | GENERAL SYSTEM DATA  |  |  |  |  |
| NAME OF ESG SYSTEM                   | Aligned Indicators for Sustainable Infrastructure(AISI)  |  |  |  |  |
| SYSTEM DEVELOPER                     | World Bank's Public-Private Infrastructure Advisory Facility (PPIAF) with support from the Global Infrastructure Facility (GIF)  |  |  |  |  |
| DEVELOPMENT STATUS                   | Under review to incorporate feedback from consultations  |  |  |  |  |
| AMENDMENT OF PRIOR<br>VERSION OR NOT | NO   |  |  |  |  |
| BRIEF DESCRIPTION                    | AISI is a new ESG guidance tool for investors that assists to more informed decisions during infrastructure projects' prioritization for funding and understanding the contribution of an investment to the SDGs. It is a set of indicators built upon existing global corporate indicators "but further includes the specificities of infrastructure assets." "It is not intended to fully cover the comprehensive range of sustainability characteristics which would be required to define sustainability in infrastructure', but rather highlight 'characteristics that are deemed as necessary for early consideration by investors when prioritizing projects. |  |  |  |  |

#### **Final Report**

|                                      | Therefore, "the indicator set is not a comprehensive list of reporting requirements.  |
|--------------------------------------|---|
|                                      | SYSTEM SCOPE  |
| TYPE OF ESG GUIDANCE                 | ESG Guidance tool   |
| MANDATORY OR<br>VOLUNTARY            | Voluntary   |
| TARGET AUDIENCE                      | Government clients in emerging economies, development finance institutions, and private investors among other <sup>15</sup>   |
| GLOBAL OR REGIONAL                   | Global (for developed and developing countries)   |
| ESG FOCUS                            | E, S and G (Environmental, Social and Governance)   |
| CLIMATE-SPECIFIC                     | NO  |
| PROJECT OR<br>CORPORATE              | Project   |
| INFRASTRUCTURE-<br>SPECIFIC          | YES   |
| INFRASTRUCTURE-<br>RELEVANT          | YES   |
|                                      | SYSTEM STRUCTURE  |
| NO. OF GUIDANCE<br>DOCUMENTS         | 1   |
| MAIN STRUCTURE<br>COMPONENTS         | 28 indicators organized in 15 sustainability topics   |
| ECONOMY SECTORS-<br>SPECIFIC         | NO  |
| TARGET ECONOMY<br>SECTORS/INDUSTRIES | -   |
| SUSTAINABILITY TOPICS                | <ol> <li>Option Assessment</li> <li>Project Sustainability Management</li> <li>Gender</li> <li>Resilience</li> <li>Stakeholder Engagement</li> <li>Water</li> </ol> |

<sup>15</sup> Source: Inter-American Development Bank (IDB's) Climate Change Division. (September 2020) MDB Infrastructure Cooperation Platform: A Common Set of Aligned Sustainable Infrastructure Indicators (SII)

#### Final Report

|   | <ol> <li>Energy/GHG</li> <li>Materials Lifecycle approa</li> <li>Air Quality</li> <li>Biodiversity</li> <li>Sustainable Supply Chain</li> <li>Anti-corruption</li> <li>Project Procurement</li> <li>Working Conditions</li> <li>10.Service Affordability</li> </ol> | ch  |  |  |  |  |
|---|---|---|--|--|--|--|
| CATEGORIZATION OF<br>TOPICS AS E, S, or/and G       | ENVIRONMENTAL<br>Water<br>Energy/GHG<br>Materials Lifecycle approach<br>Air quality<br>Biodiversity   | <b>SOCIAL</b><br>Gender<br>Stakeholder<br>Engagement<br>Working Conditions<br>Service affordability | GOVERNANCE<br>Option Assessment<br>Project Sustainability Management<br>Resilience<br>Sustainable Supply Chain<br>Anti-corruption<br>Project Procurement |  |  |  |
| NUMBER OF<br>INDICATORS                             | 28  | 28  |  |  |  |  |
| NUMBER OF<br>INDICATORS PER ESG<br>ASPECT           | E:9, S:12, G:7  |   |  |  |  |  |
| NUMBER OF<br>INDICATORS PER<br>SECTOR               | Not Applicable  | Not Applicable  |  |  |  |  |
| NUMBER OF<br>INFRASTRUCTURE-<br>RELEVANT INDICATORS | 28  |   |  |  |  |  |
|   | SYSTEM  | CONTENT   |  |  |  |  |
| INCLUSION OF<br>BENCHMARKS                          | NO  |   |  |  |  |  |
| QUANTITATIVE VS.<br>QUALITATIVE METRICS             | 13 quantitative indicators 15 qualitative indicators  |   |  |  |  |  |
| REPORTABLE VALUE PER<br>PROJECT PHASE               | YES   |   |  |  |  |  |
| CONNECTION/<br>REFERENCE TO OTHER<br>ESG SYSTEMS    | YES   |   |  |  |  |  |

| CONNECTION TO SDGs<br>(DIRECT OR INDIRECT) | YES DIRECT (connection of indicators to specific SDGs & targets)          |
|--|---|
| CONNECTION TO TCFD<br>FRAMEWORK            | YES (Reference of TCFD as part of the 'Climate risk resilience' indicator |

AISI's analysis includes the classification of indicators according to their relevance to ESG aspects and according to their type (quantitative or qualitative). This analysis is presented in the following table:

#### Table 4: AISI's structure and content highlighting ESG aspects and types of indicators

| SUSTAINABILITY<br>TOPICS                | INDICATORS                                       | METRICS   | E, S, G | TYPE OF<br>INDICATOR |
|---|--|---|---------|----------------------|
| Option Assessment                       | 1 Strategic options assessment                   | Existence of a strategic options assessment   | G       | process-based        |
| Project<br>Sustainability<br>Management | 2 Sustainability management system               | Implementation of a sustainable management system and reporting   | G       | process-based        |
| Gender                                  | 3 Gender equality, inclusiveness and empowerment | Existence and Implementation of a comprehensive gender action plan (GAP).                                 | S       | process-based        |
| Resilience                              | 4 Climate Risk Resilience                        | Implementation of a climate risk<br>adaptation plan   | G       | process-based        |
|   | 5 Cybersecurity resilience                       | Number of system vulnerabilities<br>identified affecting infrastructure's<br>critical assets or processes | G       | quantitative         |
| Stakeholder<br>Engagement               | 6 Stakeholder engagement plan                    | Existence of a meaningful and<br>inclusive stakeholder engagement<br>process and plan.                    | S       | process-based        |
|   | 7 Free, Prior and Informed Consent<br>(FPIC)     | Obtainment of Free, Prior and<br>Informed Consent (FPIC)  | S       | process-based        |
|   | 8 Involuntary Resettlement                       | People physically or economically impacted by the project   | S       | quantitative         |
|   | 9 Heritage assessment                            | Implementation of adequate cultural<br>heritage protection measures                                       | S       | process-based        |
|   | 10 Public health and safety management plan      | Implementation of a public health<br>and safety management plan   | S       | process-based        |
| Water                                   | 11 Freshwater withdrawal                         | Annual volume of fresh water used   | E       | quantitative         |

#### Final Report

#### DRAFT, April 30, 2021

|                             |   | by the infrastructure project  |   |               |
|-----------------------------|---|--|---|---------------|
|                             | 12 GHG emissions  | Volume of Greenhouse gas emissions emitted by the project  | E | quantitative  |
| Energy / GHG                | 13 Efficient use of energy                                      | Amount of energy consumed by the project   | E | quantitative  |
| Materials lifecycle         | 14 Materials lifecycle thinking                                 | Consideration of materials lifecycle impacts   | E | process-based |
| approach                    | 15 Reduction of Waste   | Percentage of total waste diverted from incineration and landfills   | E | quantitative  |
| Air Quality                 | 16 Fine particulate matter emission                             | Mean PM <sub>25</sub> and PM <sub>10</sub> emissions   | E | quantitative  |
|                             | 17 Threatened species   | Number of Aquatic and Terrestrial<br>Species Impacted (Fauna and Flora)  | E | quantitative  |
| Biodiversity                | 18 Watershed Management   | Existence of an Integrated<br>Watershed Assessment and<br>Management Program                                       | E | process-based |
|                             | 19 Previously Disturbed Land                                    | Percentage of land used by the<br>project that has been previously<br>disturbed or maintained as non-<br>disturbed | E | quantitative  |
| Sustainable Supply<br>chain | 20 Project supply chain sustainability management               | Existence of a sustainable<br>procurement plan and compliance<br>monitoring  | G | process-based |
| Anti-corruption             | 21 Anticorruption program                                       | Implementation of an anti-<br>corruption program   | G | process-based |
| Project<br>Procurement      | 22 Sustainability in project award                              | Integration of the AISI in project tender process  | G | process-based |
| Working<br>Conditions       | 23 Labor rights   | Integration of International Labour<br>Organisation's (ILO) fundamental<br>conventions                             | S | process-based |
|                             | 24 Occupational Health & Safety (OH&S)<br>Management Systems    | Implementation of a Comprehensive<br>OH&S Management System  | S | process-based |
|                             | 25 Frequency rates of fatal and non-fatal occupational injuries | Number of fatal and non-fatal occupational injuries  | S | quantitative  |
|                             | 26 Fair Wages   | Percentage of employees who are paid a fair wage   | s | quantitative  |
|                             | 27 Local jobs created   | Number of local jobs created   | S | quantitative  |

**Final Report** 

| Service<br>Affordability | 28 User affordability | Ability to pay (ATP) of project<br>beneficiaries | S | quantitative |
|--------------------------|-----------------------|--|---|--------------|
| •                        |                       |  |   |              |

AISI's set of indicators are aligned with the SDGs and collectively contribute to all SDGs. This contribution is highlighted within the manual in each indicator's description under a dedicated section that connects to SDG goals and targets.

## Table 5: AISI alignment to SDGs

| AISI         |        |             |           |           |        |           |           | R        | elated       | SDGs       |            |         |        |        |          |        |        |
|--------------|--------|-------------|-----------|-----------|--------|-----------|-----------|----------|--------------|------------|------------|---------|--------|--------|----------|--------|--------|
| indicator    |        |             |           |           | I      | 0000      |           | 1        |              |            |            |         |        |        | <u> </u> |        | 1      |
|              |        |             |           |           |        | SDG 6     |           |          | SDG 9        |            |            |         |        |        |          |        |        |
| indicator 2  | None d | irectly. Cı | ross-cutt | ing effec | ct     |           |           |          |              |            |            |         |        |        |          |        |        |
| indicator 3  |        |             |           |           | SDG 5  | cross-c   | utting ir | ndicator | contribu     | ites to 12 | 2 of the 1 | 7 SDGs  | T      |        | -        |        | -      |
| indicator 4  |        |             |           |           |        |           |           |          | SDG 9        |            | SDG 11     |         | SDG 13 |        |          |        |        |
| indicator 5  |        |             |           |           |        |           |           |          | SDG 9        |            |            |         |        |        |          |        |        |
| indicator 6  |        |             |           |           |        |           |           |          |              |            |            |         |        |        |          | SDG 16 | SDG 17 |
| indicator 7  | SDG 1  |             |           |           |        |           |           |          |              | SDG 10     |            |         |        |        |          | SDG 16 |        |
| indicator 8  | SDG 1  |             |           |           |        |           |           |          |              |            |            |         |        |        |          |        |        |
| indicator 9  |        |             |           |           |        |           |           |          |              |            | SDG 11     |         |        |        |          |        |        |
| indicator 10 |        |             | SDG 3     |           |        |           |           |          |              |            |            |         |        |        |          |        |        |
| indicator 11 |        |             |           |           |        | SDG 6     |           |          |              |            |            |         |        |        |          |        |        |
| indicator 12 |        |             |           |           |        |           |           |          | SDG 9        |            |            |         | SDG 13 |        |          |        |        |
| Indicator 13 |        |             |           |           |        |           | SDG 7     |          |              |            |            |         |        |        |          |        |        |
| Indicator 14 |        |             |           |           |        |           |           |          |              |            | SDG 11     | SDG 12  | SDG 13 |        |          |        |        |
| Indicator 15 |        |             |           |           |        |           |           |          |              |            | SDG 11     | SDG 12  |        | SDG 14 |          |        |        |
| Indicator 16 |        |             | SDG 3     |           |        |           | SDG 7     |          |              |            | SDG 11     |         |        |        |          |        |        |
| Indicator 17 |        |             |           |           |        |           |           |          |              |            |            |         |        | SDG 14 | SDG 15   |        |        |
| Indicator 18 |        |             | SDG 3     | SDG 4     |        | SDG 6     |           |          |              |            |            |         |        | SDG 14 | SDG 15   |        |        |
| Indicator 19 |        |             |           |           |        |           |           |          |              |            | SDG 11     |         |        |        | SDG 15   |        |        |
| Indicator 20 |        |             |           |           |        |           |           | SDG 8    |              |            |            | SDG 12  |        |        |          |        | SDG 17 |
| Indicator 21 |        |             |           |           |        |           |           |          |              | SDG 10     |            |         |        |        |          | SDG 16 |        |
| Indicator 22 |        |             |           |           |        |           |           |          | SDG 9        |            | SDG 11     | SDG 12  |        |        |          |        |        |
| Indicator 23 | SDGs v | vere dev    | veloped   | using t   | he UDH | IR as a s | startin   | g point, | , so the     | y are qu   | ite inter  | connect | ted    |        |          |        |        |
| Indicator 24 |        |             |           |           |        |           |           | SDG 8    |              |            |            |         |        |        |          |        |        |
| indicator 25 |        |             |           |           |        |           |           | SDG 8    |              |            |            |         |        |        |          |        |        |
| indicator 26 |        |             |           |           |        |           |           | SDG 8    |              | SDG 10     |            |         |        |        |          |        |        |
| indicator 27 |        |             |           |           |        | 1         |           | SDG 8    |              |            |            |         |        |        |          |        |        |
| indicator 28 | Ì      |             |           |           | Ì      | l l       | l         |          | SDG <u>9</u> |            |            |         |        |        |          |        |        |

## 6.2. Analysis of WEF IBC

**Reference document:** "Measuring Stakeholder Capitalism towards Common Metrics and Consistent Reporting of Sustainable Value Creation" white paper published by the World Economic Forum in September 2020.<sup>16</sup>

#### Table 6: WEF IBC's Overview Table

|                                      | WEF IBC OVERVIEW TABLE   |
|--------------------------------------|--|
|                                      | GENERAL SYSTEM DATA  |
| NAME OF ESG SYSTEM                   | WEF-IBC ESG Reporting Metrics and Disclosure Standards   |
| SYSTEM DEVELOPER                     | World Economic Forum (WEF) and International Business Council (IBC)  |
| DEVELOPMENT STATUS                   | Completed (released in September 2020)   |
| AMENDMENT OF PRIOR<br>VERSION OR NOT | NO PRIOR VERSION   |
| BRIEF DESCRIPTION                    | "WEF's work is a core set of "Stakeholder Capitalism Metrics" (SCM) and disclosures that<br>can be used by companies to align their mainstream reporting on performance against<br>environmental, social and governance (ESG) indicators and track their contributions<br>towards the SDGs on a consistent basis." |
|                                      | SYSTEM SCOPE   |
| TYPE OF ESG GUIDANCE                 | Standards  |
| MANDATORY OR<br>VOLUNTARY            | Voluntary  |
| TARGET AUDIENCE                      | Investors  |
| GLOBAL OR REGIONAL                   | Global   |
| ESG FOCUS                            | E, S and G (Environmental, Social and Governance)  |
| CLIMATE-SPECIFIC                     | NO   |
| PROJECT OR CORPORATE                 | BOTH but mainly CORPORATE (it can be applied in projects of the non financial sector)  |
| INFRASTRUCTURE-SPECIFIC              |  |
|                                      | YES  |

<sup>&</sup>lt;sup>16</sup> The white paper was prepared in collaboration with Deloitte, EY, KPMG and PwC.

#### Final Report

|   | SYSTE   | EM STRUCTURE   |   |  |  |  |  |  |  |  |  |
|---|---|--|---|--|--|--|--|--|--|--|--|
| NO. OF GUIDANCE<br>DOCUMENTS                    | 1   | 1  |   |  |  |  |  |  |  |  |  |
| MAIN STRUCTURE<br>COMPONENTS                    | <b>4 PILLARS:</b><br>1. Principles of Govern<br>2. Planet<br>3. People<br>4. Prosperity   | <b>4 PILLARS:</b><br>1. Principles of Governance<br>2. Planet<br>3. People<br>4. Prosperity  |   |  |  |  |  |  |  |  |  |
| ECONOMY SECTORS-<br>SPECIFIC                    | NO  |  |   |  |  |  |  |  |  |  |  |
| TARGET ECONOMY<br>SECTORS/INDUSTRIES            | -   |  |   |  |  |  |  |  |  |  |  |
| SUSTAINABILITY TOPICS<br>(THEMES)               | <ol> <li>Governing purpose</li> <li>Quality of governing</li> <li>Stakeholder engag</li> <li>Ethical behaviour</li> <li>Risk and opportun</li> <li>Climate change</li> <li>Nature loss</li> <li>Freshwater availab</li> <li>Air pollution</li> <li>Water pollution</li> <li>Solid waste</li> <li>Resource availabili</li> <li>Dignity and equaliti</li> <li>Health and wellbeit</li> <li>Skills for the future</li> <li>Employment and w</li> <li>Innovation of better</li> </ol> | e<br>ng body<br>gement<br>ity oversight<br>bility<br>ty<br>ty<br>ing<br>e<br>vealth generation<br>er products and services<br>ocial vitality   |   |  |  |  |  |  |  |  |  |
| CATEGORIZATION OF<br>TOPICS AS E, S, or/and G   | ENVIRONMENTAL<br>Climate change<br>Nature loss<br>Freshwater<br>availability<br>Air pollution<br>Water pollution<br>Solid waste<br>Resource<br>availability   | <ul> <li>SOCIAL</li> <li>Dignity and equality</li> <li>Health and wellbeing</li> <li>Skills for the future</li> <li>Employment and wealth generation</li> <li>Innovation of better products and services</li> <li>Community and social vitality</li> </ul> | GOVERNANCE<br>• Governing purpose<br>• Quality of governing body<br>• Stakeholder engagement<br>• Ethical behaviour<br>• Risk and opportunity oversight |  |  |  |  |  |  |  |  |
| NUMBER OF INDICATORS<br>(METRICS & DISCLOSURES) | TOTAL: 55 metrics and (21 core and 34 expand  | disclosures<br>ded metrics and disclosures)  | ·   |  |  |  |  |  |  |  |  |

**Final Report** 

| NUMBER OF INDICATORS<br>PER ESG ASPECT              | E: 16, S:27, G:12   | E: 16, S:27, G:12                           |                            |  |  |  |  |  |  |  |  |
|---|---|---|----------------------------|--|--|--|--|--|--|--|--|
| NUMBER OF INDICATORS<br>PER SECTOR                  | Not Applicable  |   |                            |  |  |  |  |  |  |  |  |
| NUMBER OF<br>INFRASTRUCTURE-<br>RELEVANT INDICATORS | 55  |   |                            |  |  |  |  |  |  |  |  |
|   | SYSTEM  | CONTENT                                     |                            |  |  |  |  |  |  |  |  |
| INCLUSION OF<br>BENCHMARKS                          | NO  |   |                            |  |  |  |  |  |  |  |  |
| QUANTITATIVE VS.<br>QUALITATIVE METRICS             | 29 quantitative indicators18 qualitative indicators8 indicators that include bo<br>types  |   |                            |  |  |  |  |  |  |  |  |
| CONNECTION TO PROJECT<br>PHASES                     | NO  |   |                            |  |  |  |  |  |  |  |  |
| CONNECTION/ REFERENCE<br>TO OTHER ESG SYSTEMS       | YES<br>Indicators sources: CDP, CD<br>are not part of the mapping   | SB, GRI, IIRC and SASB (more s<br>exercise) | ources are mentioned which |  |  |  |  |  |  |  |  |
| CONNECTION TO SDGs<br>(DIRECT OR INDIRECT)          | DIRECT<br>(linked with each pillar)<br>1. Principles of Governance: SDG 12, 16, 17<br>2. Planet: SDG 6, 7, 12, 13, 14, 15<br>3. People: SDG 1, 3, 4, 5, 8, 10<br>4. Prosperity: SDG 1, 8, 9, 10 |   |                            |  |  |  |  |  |  |  |  |
| CONNECTION TO TCFD<br>FRAMEWORK                     | YES   |   |                            |  |  |  |  |  |  |  |  |

STRUCTURE:

- The 55 recommended metrics and disclosures are organized under four pillars that are aligned with the SDGs and principal ESG domains: Principles of Governance, Planet, People and Prosperity.
- The first three pillars are directly related to governance, environmental and social indicators respectively, whereas the 4th Pillar (Prosperity) highlights the importance of prosperous societies and the role of business in fuelling economic growth, innovation and shared wealth.

**Final Report** 



#### METRICS AND DISCLOSURES

- The metrics and disclosures are drawn wherever possible from existing standards and disclosures, with the aim of amplifying the rigorous work already done by standard setters.
- The WEF project has scanned several hundreds of ESG metrics and highlighted just 21 core metrics that are well-established, universal, industry-agnostic, which we believe to be material to create sustainable value.
- The remaining 34 metrics and disclosures are called "expanded." These tend to be less wellestablished in existing practice and standards and have a wider value chain scope or convey impact in a more sophisticated or tangible way, such as in monetary terms.

| WEF-IBC      |                                |      |          |  |  |  |  |  |  |  |
|--------------|--------------------------------|------|----------|--|--|--|--|--|--|--|
| PILLARS      | THEMES METRICS & DISCLOSU      |      |          |  |  |  |  |  |  |  |
|              |                                | CORE | EXPANDED |  |  |  |  |  |  |  |
|              | Governing purpose              | Y    | Y        |  |  |  |  |  |  |  |
|              | Quality of governing body      | Y    | Y        |  |  |  |  |  |  |  |
|              | Stakeholder engagement         | Y    | Y        |  |  |  |  |  |  |  |
| PRINCIPLE OF | Ethical behaviour              | Y    | Y        |  |  |  |  |  |  |  |
| GOVERNANCE   | Risk and opportunity oversight | Y    | Y        |  |  |  |  |  |  |  |
|              | Climate change                 | Y    | Y        |  |  |  |  |  |  |  |
|              | Nature loss                    | Y    | Y        |  |  |  |  |  |  |  |
|              | Freshwater availability        | Y    | Y        |  |  |  |  |  |  |  |
| PLANET       | Air pollution                  |      | Y        |  |  |  |  |  |  |  |
|              | Water pollution                |      | Y        |  |  |  |  |  |  |  |
|              | Solid waste                    |      | Y        |  |  |  |  |  |  |  |
|              | Resource availability          |      | Y        |  |  |  |  |  |  |  |

#### Table 7: WEF IBC's Main structural elements

|            | Dignity and equality                       | Y | Y |
|------------|--|---|---|
| PEOPLE     | Health and well-being                      | Y | Y |
|            | Skills for the future                      | Y | Y |
|            | Employment and wealth generation           | Y | Y |
| PROSPERITY | Innovation of better products and services | Y | Y |
|            | Community and social vitality              | Y | Y |

## Table 8: WEF IBC's Structure and Content table highlighting ESG aspects and types of indicators

|              |                                   |   |     | type of       |
|--------------|-----------------------------------|---|-----|---------------|
| PILLARS      | THEMES                            | METRICS & DISCLOSURES   | ESG | indicator     |
| PRINCIPLE OF | Governing purpose                 | Setting purpose   | G   | process-based |
| GOVERNANCE   |                                   | Purpose-led management  | G   | process-based |
|              |                                   | Governance body composition   | G   | process-based |
|              | Quality of governing body         | Progress against strategic milestones                                     | G   | process-based |
|              |                                   | Remuneration  | G   | process-based |
|              | Stakeholder engagement            | Material issues impacting stakeholders                                    | G   | process-based |
|              | Ethical behaviour                 | Anti-corruption   | G   | both          |
|              |                                   | Protected ethics advice and reporting mechanisms                          | G   | process-based |
|              |                                   | Alignment of strategy and policies to lobbying                            | G   | process-based |
|              |                                   | Monetary losses from unethical behaviour                                  | G   | quantitative  |
|              | Risk and opportunity<br>oversight | Integrating risk and opportunity into business<br>process                 | G   | process-based |
|              |                                   | Economic, environmental and social topics in capital allocation framework | G   | process-based |
| PLANET       | Climate change                    | Greenhouse gas (GHG) emissions  | E   | quantitative  |
|              |                                   | TCFD Implementation   | E   | process-based |
|              |                                   | Paris-aligned GHG emissions targets                                       | E   | process-based |
|              |                                   | Impact of GHG emissions   | E   | process-based |
|              |                                   | Land use and ecological sensitivity                                       | E   | process-based |
|              | Nature loss                       | Land use and ecological sensitivity                                       | E   | quantitative  |
|              |                                   | Impact of land use and conversion   | E   | quantitative  |
|              | Freshwater availability           | Water consumption and withdrawal in water-<br>stressed areas              | E   | quantitative  |
|              |                                   | Impact of freshwater consumption and withdrawal                           | E   | process-based |
|              | Air pollution                     | Air pollution   | Е   | quantitative  |
|              |                                   | Impact of air pollution   | E   | quantitative  |
|              | Water pollution                   | Nutrients   | E   | quantitative  |
|              |                                   | Impact of water pollution   | E   | quantitative  |
|              | Solid waste                       | Single-use plastics   | E   | both          |
|              |                                   | Impact of solid waste disposal  | E   | quantitative  |
|              | Resource availability             | Resource circularity  | E   | both          |
| PEOPLE       |                                   | Diversity and inclusion (%)   | S   | quantitative  |
|              | Dignity and equality              | Pay equality (%)  | S   | quantitative  |
|              |                                   | Wage level (%)  | S   | quantitative  |
|              |                                   | Risk for incidents of child, forced or compulsory                         | S   | process-based |

Final Report

|                       |                       | labour  |   |               |
|-----------------------|-----------------------|---|---|---------------|
|                       |                       | Pay gap (%, #)  | S | quantitative  |
|                       |                       | Discrimination and harassment incidents (#) and the total amount of monetary losses (\$)                | S | quantitative  |
|                       |                       | Freedom of association and collective bargaining at risk (%)  | S | both          |
|                       |                       | Human rights review, grievance impact & modern slavery (#, %)   | S | quantitative  |
|                       |                       | Living wage (%)   | S | quantitative  |
|                       | Health and well-being | Health and safety (%)   | S | both          |
|                       |                       | Monetized impacts of work-related incidents on organization (#, \$)                                     | S | quantitative  |
|                       |                       | Employee well-being (#, %)  | S | quantitative  |
| Skills for the future |                       | Training provided (#, \$)   | S | quantitative  |
|                       |                       | Number of unfilled skilled positions (#, %)   | S | quantitative  |
|                       |                       | Monetized impacts of training – Increased earning capacity as a result of training intervention (%, \$) | S | quantitative  |
| PROSPERITY            | Employment and wealth | Absolute number and rate of employment  | S | quantitative  |
|                       | generation            | Economic contribution   | S | both          |
|                       |                       | Financial investment contribution   | S | both          |
|                       |                       | Infrastructure investments and services supported   | S | process-based |
|                       |                       | Significant indirect economic impacts   | S | process-based |
|                       | Innovation of better  | Total R&D expenses (\$)   | S | quantitative  |
|                       | products and services | Social value generated (%)  | S | quantitative  |
|                       |                       | Vitality Index  | S | both          |
|                       | Community and social  | Total tax paid  | S | quantitative  |
|                       | vitality              | Total Social Investment (\$)  | S | quantitative  |
|                       |                       | Additional tax remitted   | S | quantitative  |
|                       |                       | Total tax paid by country for significant locations   | S | quantitative  |

## Table 9: WEF- IBC's alignment to SDGs

| PILLARS      | THEMES                         | RELATED SDG's |         |   |   |   |   |   |   |   |    |                  |    |    |    |    |    |    |              |
|--------------|--------------------------------|---------------|---------|---|---|---|---|---|---|---|----|------------------|----|----|----|----|----|----|--------------|
|              |                                | 1             | 2       | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11               | 12 | 13 | 14 | 15 | 16 | 17 | PER PILLAR   |
|              | Governing purpose              |               |         |   |   |   |   |   |   |   |    |                  | 12 |    |    |    |    | 17 |              |
|              | Quality of governing body      |               |         |   |   |   |   |   |   |   |    |                  |    |    |    |    | 16 |    |              |
| PRINCIPLE OF | Stakeholder engagement         |               |         |   |   |   |   |   |   |   |    |                  |    |    |    |    |    | 17 | 12, 16, 17   |
| GOVERNANCE   | Ethical behaviour              |               |         |   |   |   |   |   |   |   |    |                  |    |    |    |    | 16 |    |              |
|              | Risk and opportunity oversight |               | SDG 2   |   |   |   |   |   |   |   |    | CDC 11           | 12 |    |    |    |    | 17 |              |
|              | Climate change                 |               | is not  |   |   |   |   | 7 |   |   |    | SDG 11<br>is not | 12 | 13 |    |    |    |    | 6, 7, 12,    |
|              | Nature loss                    |               | include |   |   |   |   |   |   |   |    | included         | 12 |    |    | 15 |    |    | 13, 14, 15   |
|              | Freshwater availability        |               | WEF     |   |   |   | 6 |   |   |   |    | in WEF           |    |    |    |    |    |    |              |
| PLANET       | Air pollution                  |               |         |   |   |   |   |   |   |   |    |                  |    | 13 |    |    |    |    |              |
|              | Water pollution                |               |         |   |   |   | 6 |   |   |   |    |                  |    |    | 14 |    |    |    |              |
|              | Solid waste                    |               |         |   |   |   |   |   |   |   |    |                  | 12 | 13 |    |    |    |    |              |
| F            | Resource availability          |               |         |   |   |   |   | 7 |   |   |    |                  | 12 |    |    |    |    |    |              |
| PEOPLE       | Dignity and equality           | 1             |         |   |   | 5 |   |   | 8 |   | 10 |                  |    |    |    |    |    |    | 1,3,4, 5, 8, |

**Final Report** 

```
DRAFT, April 30, 2021
```

|            | Health and well-being                      |   | 3 |   |  |   |          |           |  |  |  | 10          |
|------------|--|---|---|---|--|---|----------|-----------|--|--|--|-------------|
|            | Skills for the future                      |   |   | 4 |  |   |          |           |  |  |  |             |
|            | Employment and wealth generation           | 1 |   |   |  | 8 |          |           |  |  |  | 1, 8, 9, 10 |
| PROSPERITY | Innovation of better products and services |   |   |   |  |   | <u>9</u> |           |  |  |  |             |
|            | Community and social vitality              |   |   |   |  |   |          | <u>10</u> |  |  |  |             |

## 6.3. Analysis of 5ISS or 'Group of Five' joint effort

## 6.3.1. Under-development sustainability-related financial reporting framework & standard

5ISS or the 'group of five' initiative, is the joint effort of five well-established standard-setters, CDSB, CDP, IIRS, GRI and SASB, as a response to the growing calls from capital market participants, regulators and other stakeholders for a globally accepted comprehensive corporate reporting system, *through their specific and <u>complementary expertise</u>. The initiative has stated its intention to develop a Sustainability-related Financial Disclosure Framework and Standard. In December 2020, it presented its progress of developing a prototype climate-related financial disclosure standard. However, as highlighted in the presentation paper, "the prototype is not a standard. The technical content has not been through any due process of the authors' organization; and is provided for illustrative purposes only." Information prepared according to the Prototype Standard aims to be presented to complement financial reports, including financial statements, management commentary and other financial information.* 

Part of the work carried out by the 5ISS<sup>17</sup> shows how the current systems and standards can be used together.<sup>18</sup> More specifically, how certain components of the current frameworks and standards, along with the recommendations set out by the Task Force on Climate-related Financial Disclosures (TCFD) can provide a starting point for the development of global standards for sustainability-related financial disclosure.<sup>19</sup> All of TCFD's 11 final recommendations have been included, <u>but the scope has been widened from climate-related risks and opportunities to sustainability-related</u> financial risks and opportunities.

According to 5ISS, the four pillars of the TCFD provide a useful structure for organizing the presentation of climate and other sustainability-related financial information. The four pillars of the TCFD: Governance, Strategy, Risk Management, and Metrics & Targets represent core elements of how organizations operate.

https://impactmanagementproject.com/impact-management/structured-network/ <sup>18</sup> The five frameworks and standards have a long history of collaboration, such as the Corporate Reporting

<sup>&</sup>lt;sup>17</sup> The work is facilitated by the Impact Management Project, World Economic Forum and Deloitte. *The five collaborating organizations form part of the IMP Structured Network*.

Dialogue and its Better Alignment Project. Other collaborations are presented in a Timeline in the Appendix A.
 <sup>19</sup> Sustainability-related financial disclosure standards would enable disclosure of how sustainability matters create or erode enterprise value. This type of reporting is distinct from sustainability reporting, which is designed to illuminate a company's most significant impacts on the environment, people and economy. We believe that sustainability reporting and sustainability-related financial disclosure must be seen as interrelated reporting concepts, with shared methodologies wherever appropriate, regardless of their distinct aims.

#### PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

#### DRAFT, April 30, 2021

A systems mapping of the five systems involved in the 5ISS joint effort against the TCFD framework had been performed as part of the Corporate Reporting Dialogue's Better Alignment Project for CDSB, CDP, <IR>, GRI and SASB. This mapping demonstrated a shared approach to reporting and alignment of content between the TCFD and CDSB. While CDSB adopts a broader environmental focus that reflects the intrinsic interconnection between climate and other environmental matters, both organizations have sought to ensure the disclosure of material climate-related information through reporting on enterprise value in a way that complements existing disclosure practices.

The five systems have different and complementary perspectives to materiality. By working together they intend to eliminate duplication and ambiguity between frameworks and disclosures of sustainability information that is material for creating enterprise value and those focused on significant impacts on sustainable development.

Moreover, the five systems collaboration is based on the understanding that frameworks and standards are complementary tools and each has its critical function: "frameworks generally provide principlesbased guidance on how information is structured, how it is prepared, and what broad topics are covered. Meanwhile, standards provide specific, detailed, and replicable requirements for what should be reported for each topic, including metrics." In short, standards make frameworks actionable.<sup>20</sup> This is reaffirmed by TCFD's own reference to the majority of the group of five systems as part of its supplementary implementation guidance. More specifically, TCFD presents how its recommended disclosures are covered by CDP, GRI and CDSB and provides example metrics for non-financial sectors based on the CDP, GRI and SASB metrics.

The 5ISS is still under development. However, its approach to be built upon the existing work of its participants, directed the present analysis to further focus on the standards of the five systems, GRI, and SASB, presented in the following sections. This focus does not aim to provide a 'preview' of the 5ISS sustainability-related financial disclosure standard, but rather gives an opportunity for a meaningful mapping exercise, given that standards are more comparable to AISI. Moreover, GRI and SASB are two sets of widely used non-financial reporting standards, often used together by companies. The GRI Standards focus on the economic, environmental, and social impacts of the activities of a company, and hence its contributions— positive or negative—towards sustainable development. The GRI standards are intended to be used by all stakeholders, including customers, employees, civil society, governments, and investors. Meanwhile, the industry-specific SASB standards identify the sustainability-related risks and opportunities most likely to affect a company's financial condition (i.e., its balance sheet), operating performance (i.e., its income statement), or risk profile (i.e., its market valuation and cost of capital) in the near, medium, or long term. The SASB standards are designed to meet the unique information needs of

<sup>&</sup>lt;sup>20</sup> Response of the Sustainability Accounting Standards Board to the Public Consultation on the Revision of the Non-Financial Reporting Directive.

providers of financial capital, such as investors, lenders, and underwriters.<sup>21</sup> Moreover, SASB is industry-specific, while GRI is not.

#### 6.3.2. Analysis of GRI Standards

#### **Reference documents:**

- GSSB. (11 June 2020). GRI Universal Standards: GRI 101, GRI 102, and GRI 103 Exposure draft
- GRI 200, 300 & 400 Series (various dates).

The Exposure draft, though in consultation, was used instead of the previous documents: GRI 101. Foundation, GRI 102. General Disclosures and 103. Management Approach. The Exposure draft provides a complete version of the GRI universal standards that better reflects their future final form with significantly simplified reporting requirements (34 disclosures instead of the previous 56).

#### Table 10: GRI Overview Table

|                  | GRI OVERVIEW TABLE  |
|------------------|---|
|                  | GENERAL SYSTEM DATA   |
| NAME OF ESG      | GRI Standards   |
| SYSTEM           |   |
| SYSTEM           | Global Reporting Initiative (GRI)   |
| DEVELOPER        |   |
| DEVELOPMENT      | Developed in various dates (The Universal Standards are currently under revision to address the           |
| STATUS           | recommendations from 25 the GRI Technical Committee on Human Rights Disclosure (a stakeholder             |
|                  | group on labor-related disclosures) to align with recent developments in the area of responsible business |
|                  | conduct and due diligence, related to the work of key authoritative intergovernmental instruments in the  |
|                  | area of human rights.   |
|                  | Following the release of the revised GRI Universal Standards in the second half of 2021, the GRI human    |
|                  | rights-specific Topic Standards will be revised and new standards may be developed if not yet covered     |
| AMENDMENT OF     | Yes   |
| PRIOR VERSION OR |   |
| NOT              |   |
| BRIEF            | GRI standards are the most widely adopted global standards for sustainability reporting. Sustainability   |
| DESCRIPTION      | reporting, as promoted by the GRI Standards, is an organization's practice of reporting publicly on its   |
|                  | contributions – positive or negative – towards sustainable development. The Standards are designed to     |
|                  | enhance the global comparability and quality of information on these impacts, thereby enabling greater    |
|                  | organizational transparency and accountability.   |
|                  | The GRI Standards are structured as a set of interrelated, modular standards, three universal Standards   |
|                  | that apply to every organization preparing a sustainability report, and an organization further selects   |
|                  | from the set of topic-specific standards for reporting on its material topics. These standards are        |
|                  | organized into three series – economic, environmental and social.   |

<sup>21</sup> Response of the Sustainability Accounting Standards Board to the Public Consultation on the Revision of the Non-Financial Reporting Directive

#### Final Report

| SYSTEM SCOPE                             |   |  |
|--|---|--|
| TYPE OF ESG<br>GUIDANCE                  | Standards   |  |
| MANDATORY OR<br>VOLUNTARY                | Voluntary   |  |
| TARGET AUDIENCE                          | All stakeholders, including customers, employees, civil society, governments, and investors   |  |
| GLOBAL OR<br>REGIONAL                    | Global  |  |
| ESG FOCUS                                | E,S and G   |  |
| CLIMATE-SPECIFIC                         | No  |  |
| PROJECT OR<br>CORPORATE                  | Both  |  |
| INFRASTRUCTURE-<br>SPECIFIC              | Νο  |  |
| INFRASTRUCTURE-<br>RELEVANT              | Yes   |  |
|  | SYSTEM STRUCTURE  |  |
| NO. OF GUIDANCE<br>DOCUMENTS             | 37  |  |
|  | <ul> <li>3 Universal standards:</li> <li>- GRI 101 Foundation</li> <li>- GRI 102 General disclosures</li> <li>- GRI 103 Management Approach</li> <li>&amp; 34 Topic- specific standards:</li> <li>- GRI 200 series (Economic topics)</li> <li>- GRI 300 series (Environmental topics)</li> <li>- GRI 400 series (Social topics)</li> </ul>  |  |
| SECTORS-SPECIFIC                         | together with the GRI G4 Guidelines. The G4 Guidelines have been superseded by the GRI Standards.<br>The G4 Sector Disclosures were not updated when transitioning to the GRI Standards. Instead, as part of<br>its Sector Program GRI is developing Sector Standards that will provide more up-to-date, authoritative<br>guidance for sector-specific sustainability reporting. GRI has initiated a new GRI Sector Program, still<br>under development. Sector standards for the oil, gas, and coal sectors have been prioritized because of<br>their widely documented impacts across the economic, environmental and social dimensions and are the<br>first pilot project under the new GRI Sector Program, initiated in March 2019. |  |
| TARGET ECONOMY<br>SECTORS/INDUSTR<br>IES | Oil, gas and coal (first priority sectors)  |  |
| SUSTAINABILITY<br>TOPICS                 | Universal topics:<br>REP- Organizational details and reporting practices<br>ACT- Organizational activities<br>GOV- Governance<br>RBC- Responsible business conduct<br>SE- Stakeholder engagement<br>MT- Reporting on material topics<br>Specific topics:  |  |

| EGORIZATION | ENVIRONMENTAL                    | SOCIAL                    | GOVERNANCE |
|-------------|----------------------------------|---------------------------|------------|
|             | GRI 419 Socioeconomic complia    | nce                       |            |
|             | GRI 418 Customer privacy         |                           |            |
|             | GRI 417 Marketing and labelling  |                           |            |
|             | GRI 416 Customer health and sa   | fety                      |            |
|             | GRI 415 Public policy            |                           |            |
|             | GRI 414 Supplier social assessme | ent                       |            |
|             | GRI 413 Local communities        |                           |            |
|             | GRI 412 Human rights assessme    | nt                        |            |
|             | GRI 411 Rights of indigenous pe  | ople                      |            |
|             | GRI 410 Security practices       |                           |            |
|             | GRI 409 Forced or compulsory la  | abor                      |            |
|             | GRI 408 Child labor              |                           |            |
|             | GRI 407 Freedom of- associatior  | and collective bargaining |            |
|             | GRI 406 Non-discrimination       |                           |            |
|             | GRI 405 Diversity and equal opp  | ortunity                  |            |
|             | GRI 404 Training and education   | /                         |            |
|             | GRI 403 Occupational health and  | d safety                  |            |
|             | IGRI 402 Labor management rela   | itions                    |            |
|             | GRI 401 Employment               |                           |            |
|             | GRI 308 Supplier environmental   | assessment                |            |
|             | GBI 307 Environmental complia    | nce                       |            |
|             | GRI 306 Waste                    |                           |            |
|             | GRI 305 Emissions                |                           |            |
|             | GRI 304 Biodiversity             |                           |            |
|             | GRI 202 Water and offluents      |                           |            |
|             | GRI 301 Materials                |                           |            |
|             | GRI 207 Tax                      |                           |            |
|             | GRI 206 Anti-competitive behav   | IOr                       |            |
|             | GRI 205-Anti-corruption          |                           |            |
|             | GRI 204 Procurement practices    |                           |            |
|             | GRI 203 Indirect economic impa   | cts                       |            |
|             | GRI 202 Market presence          |                           |            |
|             | GRI 201 Economic performance     |                           |            |

CA

Final Report

| OF TOPICS AS E, S,<br>or/and G                         | <ul> <li>Materials</li> <li>Energy</li> <li>Water and effluents</li> <li>Biodiversity</li> <li>Emissions</li> <li>Waste</li> <li>Environmental compliance</li> <li>Supplier environmental assessment</li> </ul>   | <ul> <li>Employment</li> <li>Labor management relations</li> <li>Occupational health and safety</li> <li>Training and education</li> <li>Diversity and equal opportunity</li> <li>Non-discrimination</li> <li>Freedom of- association and collective bargaining</li> <li>Child labor</li> <li>Forced or compulsory labor</li> <li>Security practices</li> <li>Rights of indigenous people</li> <li>Human rights assessment</li> <li>Local communities</li> <li>Supplier social assessment</li> <li>Public policy</li> <li>Customer health and safety</li> <li>Marketing and labelling</li> <li>Customer privacy</li> <li>Socioeconomic compliance</li> </ul> | <ul> <li>as part of Topic-specific Standards</li> <li>Economic performance</li> <li>Market presence</li> <li>Indirect economic impacts</li> <li>Procurement practices</li> <li>Anti-corruption</li> <li>Anti-competitive behavior</li> <li>as part of Universal Standards</li> <li>Organizational details and<br/>reporting practices</li> <li>Organizational activities</li> <li>Governance</li> <li>Responsible business conduct</li> <li>Stakeholder engagement</li> <li>Reporting on material topics</li> </ul> |
|--|---|--|---|
| NUMBER OF<br>INDICATORS                                | 89 topic-specific disclosures<br>31 organization-related disclosures<br>3 material topic-related disclosures<br><b>Total 123 disclosures</b>  |  |   |
| NUMBER OF<br>INDICATORS PER<br>ESG ASPECT              | E: 32 reporting requirements  | S: 40 reporting requirements   | <ul> <li>G: 17 topic-specific</li> <li>31 universal (organization-level)</li> <li>&amp; 3 universal (material topic-<br/>related)</li> <li>Total 51 reporting requirements</li> </ul>   |
|  | (out of the total 123 disclosures   | s)   |   |
| NUMBER OF<br>INDICATORS PER<br>SECTOR                  | The exposure draft of Sector Standard: Oil and Gas sectors was presented for public consultation during the period July 8 to October 6, 2020. The draft identified 22 likely material topics for organizations with oil and gas activities – covering climate change, the environment, health and safety, employment, communities, and governance. (These disclosures were not part of the current analysis)  |  |   |
| NUMBER OF<br>INFRASTRUCTURE-<br>RELEVANT<br>INDICATORS | <ul> <li>83 topic-specific disclosures (6 of the 89 topic-specific disclosures are not accounted as part of the analysis for being not relevant to project level analysis)</li> <li>21 organization-related disclosures (10 of the 31 organization-level disclosures are not accounted as part of the analysis for being not relevant to project level analysis)</li> <li>3 material topic-related disclosures</li> <li>Total 107 disclosures as infrastructure-project relevant</li> </ul> |  |   |
|  |   | SYSTEM CONTENT   |   |
| INCLUSION OF<br>BENCHMARKS                             | No  |  |   |
| INCLUSION OF<br>METRICS                                | Yes (Reporting requirements)  |  |   |

#### **Final Report**

| QUANTITATIVE VS.<br>QUALITATIVE<br>METRICS | 50 quantitative Reporting<br>requirements | 39 qualitative Reporting<br>requirements | 18 Reporting requirements with<br>both quantitative and qualitative<br>metrics |
|--|---|--|--|
|  | (considering only 107 infrastruc          | ture project relevant disclosures inclu  | ded in the detailed mapping  |
|  | exercise)                                 |  |  |
| CONNECTION TO                              | No  |  |  |
| PROJECT PHASES                             |   |  |  |
| CONNECTION/REFE                            | Yes                                       |  |  |
| RENCE TO OTHER                             |   |  |  |
| ESG SYSTEMS                                | (If yes which ESG systems)                |  |  |
| CONNECTION TO                              | Yes direct, on a disclosure and r         | eporting requirement level, however      | presented in a separate document   |
| SDGs (DIRECT OR                            | and not as part of the main guic          | lance manuals                            |  |
| INDIRECT)                                  |   |  |  |
| CONNECTION TO                              | No  |  |  |
| TCFD FRAMEWORK                             |   |  |  |

107 of the total 123 disclosures of GRI are considered for the mapping as infrastructure project-relevant. Some of the required universal disclosures were not included in the mapping, as they refer to organizational details, and company organizational structure, not related to the project level scope of AISI.

#### Table 11: GRI Structure Table

|        | GRI UNIVERSAL STANDARDS <sup>22</sup> |  |  |  |
|--------|---------------------------------------|--|--|--|
| series | UNIVERSAL TOPICS                      | DISCLOSURES  |  |  |
|        | Organizational details and            |  |  |  |
| 102    | reporting practices                   | REP-5 External assurance   |  |  |
|        |                                       | ACT-1 Activities, value chain, and other business relationships                    |  |  |
| 102    | Organizational activities             | ACT-2 Employees and other workers  |  |  |
|        |                                       | GOV-1 Governance structure and composition   |  |  |
|        |                                       | GOV-2 Nomination and selection of the highest governance body                      |  |  |
|        |                                       | GOV-3 Responsibilities for sustainable development topics and delegation           |  |  |
|        |                                       | GOV-4 Stakeholder consultation on sustainable development topics                   |  |  |
|        |                                       | GOV-6 Conflicts of interest  |  |  |
|        |                                       | GOV-7 Role of the highest governance body in setting purpose, values, and strategy |  |  |
|        |                                       | GOV-10 Identification and management of impacts                                    |  |  |
|        |                                       | GOV-13 Remuneration policies   |  |  |
| 102    |                                       | GOV-14 Process for determining remuneration  |  |  |
|        | Governance                            | GOV-15 Annual total compensation ratio   |  |  |
|        | Responsible business conduct          | RBC-1 Statement on sustainable development strategy                                |  |  |
| 102    |                                       | RBC-2 Policy commitments   |  |  |
|        |                                       | RBC-3 Embedding the policy commitments throughout the organization                 |  |  |

<sup>&</sup>lt;sup>22</sup> Based on GRI Universal Standards: GRI 101, GRI 102, and GRI 103 – Exposure draft & Selection of infrastructure project relevant disclosures

|        |                              | RBC-4 Grievance mechanisms and other remediation processes                           |
|--------|------------------------------|--|
|        |                              | RBC-5 Mechanisms for seeking advice and raising concerns                             |
|        |                              | RBC-6 Compliance with laws and regulations   |
|        |                              | SE-1 Approach to stakeholder engagement  |
| 102    | Stakeholder engagement       | SE-2 Collective bargaining agreements  |
|        |                              | MT-1 Identification of material topics and related impacts                           |
| 103    |                              | MT-2 Material topics and related impacts   |
|        | Reporting on material topics | MT-3 Management of material topics and related impacts                               |
|        |                              | GRI TOPIC SPECIFIC STANDARDS   |
| series | SPECIFIC TOPICS              | DISCLOSURES  |
|        |                              | 201-1 Direct economic value generated and distributed                                |
| 201    | Economic Performance         | 201-2 Financial implications and other risks and opportunities due to climate        |
|        |                              | change   |
|        |                              | 202-1 Ratios of standard entry level wage by gender compared to local minimum        |
| 202    | Market Presence              | Wage   |
|        |                              | 202.4 Information of senior management nired from the local community                |
| 203    | Indirect Economic Impacts    | 203-1 Infrastructure investments and services supported                              |
|        |                              | 203-2 Significant indirect economic impacts  |
| 204    | Procurement Practices        | 204-1 Proportion of spending on local suppliers                                      |
|        | Anti-corruption              | 205-1 Operations assessed for risks related to corruption                            |
| 205    |                              | 205-2 Communication and training about anti-corruption policies and procedures       |
|        |                              | 205-3 Confirmed incidents of corruption and actions taken                            |
| 206    | Anti-competitive Behavior    | 206-1 Legal actions for anti-competitive behavior, antitrust, and monopoly practices |
| 207    | Тах                          | 207-3 Stakeholder engagement and management of concerns related to tax               |
|        |                              | 301-1 Materials used by weight or volume   |
| 301    | Materials                    | 301-2 Recycled input materials used  |
|        |                              | 301-3 Reclaimed products and their packaging materials                               |
|        |                              | 302-1 Energy consumption within the organization                                     |
|        |                              | 302-2 Energy consumption outside of the organization                                 |
| 302    | Energy                       | 302-3 Energy intensity   |
|        |                              | 302-4 Reduction of energy consumption  |
|        |                              | 302-5 Reduction in energy requirements of products and services                      |
|        |                              | 303-1 Interactions with water as a shared resource                                   |
|        |                              | 303-2 Management of water discharge-related impacts                                  |
| 303    | Water and Effluents          | 303-3 Water withdrawal   |
|        |                              | 303-4Water discharge   |
|        |                              | 303-5Water consumption   |
|        |                              | 304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas   |
|        |                              | and areas of high biodiversity value outside protected areas                         |
| 204    | Biodiversity                 | 304-2 Significant impacts of activities, products, and services on biodiversity      |
| 304    |                              | 304-3 Habitats protected or restored   |
|        |                              | 304-4 IUCN Red List species and national conservation list species with habitats in  |
|        |                              | areas affected by operations   |
| 305    | Emissions                    | 305-1 Direct (Scope 1) GHG emissions   |

|     |                            | 305-2 Energy indirect (Scope 2) GHG emissions   |
|-----|----------------------------|---|
|     |                            | 305-3 Other indirect (Scope 3) GHG emissions  |
|     |                            | 305-4 GHG emissions intensity   |
|     |                            | 305-5 Reduction of GHG emissions  |
|     |                            | 305-6 Emissions of ozone-depleting substances (ODS)                                   |
|     |                            | 305-7 Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions |
|     |                            | 306-1 Waste generation and significant waste-related impacts                          |
|     |                            | 306-2 Management of significant waste-related impacts                                 |
| 306 | Waste                      | 306-3 Waste generated   |
|     |                            | 306-4 Waste diverted from disposal  |
|     |                            | 306-5 Waste directed to disposal  |
| 307 | Environmental Compliance   | 307-1 Non-compliance with environmental laws and regulations                          |
|     | Supplier Environmental     | 308-1 New suppliers that were screened using environmental criteria                   |
| 308 | Assessment                 | 208.2 Negative environmental impacts in the supply chain and actions taken            |
|     |                            | 401.1 New employee bires and employee turneyer  |
|     |                            | 401-1 New employee miles and employee turnover  |
| 401 | Employment                 | 401-2 Benefits provided to full-time employees that are not provided to temporary     |
|     |                            | 401 2 Decental leave  |
| 402 | Labor/Management Delations | 401-5 Falental leave  |
| 402 | Labor/Management Relations | 402-1 Minimum notice periods regarding operational changes                            |
|     |                            | 403-2 Hazard identification, risk assessment, and incident investigation              |
|     |                            | 403-3 Occupational health services  |
|     |                            | 403-4 Worker participation, consultation, and communication on occupational           |
|     |                            | health and safety   |
|     | Occupational Health and    | 403-5 Worker training on occupational health and safety                               |
| 403 | Occupational Health and    | 403-6 Promotion of worker health  |
|     | Survey                     | 403-7 Prevention and mitigation of occupational health and safety impacts directly    |
|     |                            | linked by business relationships  |
|     |                            | 403-8 Workers covered by an occupational health and safety management system          |
|     |                            | 403-9 Work-related injuries   |
|     |                            | 403-10 Work-related ill health  |
|     |                            | 404-1 Average hours of training per year per employee                                 |
|     | Training and Education     | 404-2 Programs for upgrading employee skills and transition assistance programs       |
| 404 |                            | 404-3 Percentage of employees receiving regular performance and career                |
|     |                            | development reviews   |
|     | Diversity and Equal        | 405-1 Diversity of governance bodies and employees                                    |
| 405 | Opportunity                | 405-2 Ratio of basic salary and remuneration of women to men                          |
| 406 | Non-discrimination         | 406-1 Incidents of discrimination and corrective actions taken                        |
|     | Freedom of Association and | 407-1 Operations and suppliers in which the right to freedom of association and       |
| 407 | Collective Bargaining      | collective bargaining may be at risk  |
| 408 | Child Labor                | 408-1 Operations and suppliers at significant risk for incidents of child labor       |
|     |                            | 409-1 Operations and suppliers at significant risk for incidents of forced or         |
| 409 | Forced or Compulsory Labor | compulsory labor  |
| 410 | Security Practices         | 410-1 Security personnel trained in human rights policies or procedures               |

Final Report

| 411  | Rights of Indigenous Peoples | 411-1 Incidents of violations involving rights of indigenous peoples   |
|------|------------------------------|--|
| 412  | Human Rights Assessment      | 412-1 Operations that have been subject to human rights reviews or impact assessments  |
|      |                              | 412-2 Employee training on human rights policies or procedures   |
|      |                              | 412-3 Significant investment agreements and contracts that include human rights clauses or that underwent human rights screening |
| 412  | Local Communities            | 413-1 Operations with local community engagement, impact assessments, and development programs                                   |
| 413  |                              | 413-2 Operations with significant actual and potential negative impacts on local communities                                     |
| 41.4 | Complian Casial Assessment   | 414-1 New suppliers that were screened using social criteria   |
| 414  | Supplier Social Assessment   | 414-2 Negative social impacts in the supply chain and actions taken  |
| 410  | Customer Health and Safety   | 416-1 Assessment of the health and safety impacts of product and service categories  |
| 410  |                              | 416-2 Incidents of non-compliance concerning the health and safety impacts of products and services                              |
|      | Marketing and Labeling       | 417-1 Requirements for product and service information and labeling  |
| 417  |                              | 417-2 Incidents of non-compliance concerning product and service information and labeling  |
|      |                              | 417-3 Incidents of non-compliance concerning marketing communications  |
| 418  | Customer Privacy             | 418-1 Substantiated complaints concerning breaches of customer privacy and losses of customer data                               |
| 419  | Socioeconomic Compliance     | 419-1 Non-compliance with laws and regulations in the social and economic area   |

## Table 12: GRI Structure and Content table highlighting ESG aspects and types of indicators

|        | GRI UNIVERSAL STANDARDS    |  |             |  |  |
|--------|----------------------------|--|-------------|--|--|
| series | Universal topics           | Disclosures  | type        |  |  |
|        | Organizational details and |  |             |  |  |
| 102    | reporting practices        | REP-5 External assurance   | qualitative |  |  |
|        | Organizational             | ACT-1 Activities, value chain, and other business relationships                    | qualitative |  |  |
| 102    | activities                 | ACT-2 Employees and other workers  | both        |  |  |
|        |                            | GOV-1 Governance structure and composition   | both        |  |  |
|        |                            | GOV-2 Nomination and selection of the highest governance body                      | qualitative |  |  |
|        |                            | GOV-3 Responsibilities for sustainable development topics and delegation           | qualitative |  |  |
|        |                            | GOV-4 Stakeholder consultation on sustainable development topics                   | qualitative |  |  |
|        |                            | GOV-6 Conflicts of interest  | qualitative |  |  |
|        |                            | GOV-7 Role of the highest governance body in setting purpose, values, and strategy | qualitative |  |  |
|        |                            | GOV-10 Identification and management of impacts                                    | qualitative |  |  |
|        |                            | GOV-13 Remuneration policies   | both        |  |  |
|        |                            | GOV-14 Process for determining remuneration  | qualitative |  |  |
| 102    | Governance                 | GOV-15 Annual total compensation ratio   | both        |  |  |

Final Report

|        | Responsible                  | RBC-1 Statement on sustainable development strategy                                  | qualitative  |
|--------|------------------------------|--|--------------|
|        | business conduct             | RBC-2 Policy commitments   | qualitative  |
|        |                              | RBC-3 Embedding the policy commitments throughout the organization                   | qualitative  |
|        |                              | RBC-4 Grievance mechanisms and other remediation processes                           | qualitative  |
|        |                              | RBC-5 Mechanisms for seeking advice and raising concerns                             | qualitative  |
| 102    |                              | RBC-6 Compliance with laws and regulations   | both         |
|        |                              | SE-1 Approach to stakeholder engagement  | qualitative  |
| 102    | Stakenolder                  | CE 2 Collective hergeining agreements  | h a th       |
| 102    | engagement                   | SE-2 Collective Dargaining agreements  | both         |
|        | Deventing on                 | MT-1 identification of material topics and related impacts                           | qualitative  |
| 102    | Reporting on                 | MT-2 Management of material tonics and related impacts                               | qualitative  |
| 105    |                              |  | qualitative  |
|        |                              |  |              |
| series | Specific Topics              | Disclosures  | type         |
| 201    | Economic                     | 201-1 Direct economic value generated and distributed                                | quantitative |
| 201    | Performance                  | 201-2 Financial implications and other risks and opportunities due to climate change | both         |
|        |                              | 202-1 Ratios of standard entry level wage by gender compared to local minimum        |              |
| 202    | Market Presence              | wage   | both         |
|        |                              | 202-2 Proportion of senior management hired from the local community                 | quantitative |
| 203    | Indirect Economic            | 203-1 Infrastructure investments and services supported                              | qualitative  |
| 205    | Impacts                      | 203-2 Significant indirect economic impacts  | qualitative  |
| 204    | Procurement<br>Practices     | 204-1 Proportion of spending on local suppliers                                      | quantitative |
|        |                              | 205-1 Operations assessed for risks related to corruption                            | both         |
| 205    | Anti-corruption              | 205-2 Communication and training about anti-corruption policies and procedures       | quantitative |
|        |                              | 205-3 Confirmed incidents of corruption and actions taken                            | quantitative |
| 206    | Anti-competitive<br>Behavior | 206-1 Legal actions for anti-competitive behavior, antitrust, and monopoly practices | both         |
| 207    | Тах                          | 207-3 Stakeholder engagement and management of concerns related to tax               | qualitative  |
|        |                              | 301-1 Materials used by weight or volume   | quantitative |
| 301    | Materials                    | 301-2 Recycled input materials used  | quantitative |
|        |                              | 301-3 Reclaimed products and their packaging materials                               | quantitative |
|        |                              | 302-1 Energy consumption within the organization                                     | quantitative |
|        |                              | 302-2 Energy consumption outside of the organization                                 | quantitative |
| 302    | Energy                       | 302-3 Energy intensity   | quantitative |
|        |                              | 302-4 Reduction of energy consumption  | quantitative |
|        |                              | 302-5 Reduction in energy requirements of products and services                      | quantitative |
|        |                              | 303-1 Interactions with water as a shared resource                                   | qualitative  |
| 202    |                              | 303-2 Management of water discharge-related impacts                                  | qualitative  |
| 303    | water and Effluents          | 303-3 Water withdrawal   | quantitative |
|        |                              | 303-4Water discharge   | quantitative |
|      |                               | 303-5Water consumption  | quantitative |
|------|-------------------------------|---|--------------|
|      |                               | 304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas    | quantitative |
| 204  |                               | and areas of high biodiversity value outside protected areas                          | both         |
|      |                               | 304-2 Significant impacts of activities, products, and services on biodiversity       | both         |
| 304  | Biodiversity                  | 304-3 Habitats protected or restored  | both         |
|      |                               | 304-4 IUCN Red List species and national conservation list species with habitats in   |              |
|      |                               | areas affected by operations  | quantitative |
|      |                               | 305-1 Direct (Scope 1) GHG emissions  | quantitative |
|      |                               | 305-2 Energy indirect (Scope 2) GHG emissions   | quantitative |
|      |                               | 305-3 Other indirect (Scope 3) GHG emissions  | quantitative |
| 305  | Emissions                     | 305-4 GHG emissions intensity   | quantitative |
|      |                               | 305-5 Reduction of GHG emissions  | quantitative |
|      |                               | 305-6 Emissions of ozone-depleting substances (ODS)                                   | quantitative |
|      |                               | 305-7 Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions | quantitative |
|      |                               | 306-1 Waste generation and significant waste-related impacts                          |              |
|      |                               |   | qualitative  |
| 306  | waste                         | 306-2 Management of significant waste-related impacts                                 | qualitative  |
|      | waste                         | 306-3 Waste generated   | quantitative |
|      |                               | 306-4 Waste diverted from disposal  | quantitative |
|      |                               | 306-5 Waste directed to disposal  | quantitative |
| 307  | Environmental<br>Compliance   | 307-1 Non-compliance with environmental laws and regulations                          | quantitative |
|      | Supplier                      | 308-1 New suppliers that were screened using environmental criteria                   | quantitative |
| 308  | Environmental                 |   | quantitative |
|      | Assessment                    | 308-2 Negative environmental impacts in the supply chain and actions taken            | quantitative |
|      |                               | 401-1 New employee hires and employee turnover  | quantitative |
| 401  | Employment                    | 401-2 Benefits provided to full-time employees that are not provided to temporary     |              |
| -101 | Linployment                   | or part-time employees  | qualitative  |
|      |                               | 401-3 Parental leave  | quantitative |
| 402  | Labor/Management<br>Relations | 402-1 Minimum notice periods regarding operational changes                            | both         |
|      |                               | 403-1 Occupational health and safety management system                                | qualitative  |
|      |                               | 403-2 Hazard identification, risk assessment, and incident investigation              | qualitative  |
|      |                               | 403-3 Occupational health services  | qualitative  |
|      |                               | 403-4 Worker participation, consultation, and communication on occupational           |              |
|      |                               | health and safety   | qualitative  |
|      | <b>Occupational Health</b>    | 403-5 Worker training on occupational health and safety                               | qualitative  |
| 403  | and Safety                    | 403-6 Promotion of worker health  | qualitative  |
|      |                               | 403-7 Prevention and mitigation of occupational health and safety impacts directly    |              |
|      |                               | linked by business relationships  | qualitative  |
|      |                               | 403-8 Workers covered by an occupational health and safety management system          | quantitative |
|      |                               | 403-9 Work-related injuries   | both         |
|      |                               | 403-10 Work-related ill health  | both         |

|     |                             | 404-1 Average hours of training per year per employee  | quantitative |
|-----|-----------------------------|--|--------------|
| 404 | Training and                | 404-2 Programs for upgrading employee skills and transition assistance programs                | qualitative  |
|     | Education                   | 404-3 Percentage of employees receiving regular performance and career                         |              |
|     |                             | development reviews  | quantitative |
| 405 | Diversity and Equal         | 405-1 Diversity of governance bodies and employees   | quantitative |
|     | Opportunity                 | 405-2 Ratio of basic salary and remuneration of women to men                                   | quantitative |
| 406 | Non-discrimination          | 406-1 Incidents of discrimination and corrective actions taken                                 | both         |
|     | Freedom of                  |  |              |
| 407 | Association and             | 407-1 Operations and suppliers in which the right to freedom of association and                |              |
|     | Collective                  | collective bargaining may be at risk   |              |
| 400 | Bargaining                  | 400.1 Operations and evenling at significant visit for insidents of shild labor                | qualitative  |
| 408 |                             | 408-1 Operations and suppliers at significant risk for incidents of child labor                | qualitative  |
| 409 | Compulsory Labor            | 409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor | qualitativo  |
| 410 | Security Practices          | 410-1 Security personnel trained in human rights policies or procedures                        | quantitativo |
| 410 | Rights of Indigenous        |  | quantitative |
| 411 | Peoples                     | 411-1 Incidents of violations involving rights of indigenous peoples                           | both         |
|     |                             | 412-1 Operations that have been subject to human rights reviews or impact                      |              |
|     | Human Rights<br>Assessment  | assessments  | quantitative |
| 412 |                             | 412-2 Employee training on human rights policies or procedures                                 | quantitative |
|     |                             | 412-3 Significant investment agreements and contracts that include human rights                |              |
|     |                             | clauses of that underwent numan rights screening   | quantitative |
|     |                             | development programs   | quantitative |
| 413 | Local Communities           | 413-2 Operations with significant actual and potential negative impacts on local               | quantitative |
|     |                             | communities  | qualitative  |
| A1A | Supplier Social             | 414-1 New suppliers that were screened using social criteria                                   | quantitative |
| 414 | Assessment                  | 414-2 Negative social impacts in the supply chain and actions taken                            | quantitative |
|     | Customer Health             | 416-1 Assessment of the health and safety impacts of product and service categories            | quantitative |
| 416 | and Safety                  | 416-2 Incidents of non-compliance concerning the health and safety impacts of                  |              |
|     | -                           | products and services  | quantitative |
|     | Marketing and               | 417-1 Requirements for product and service information and labeling                            | qualitative  |
| 417 | l abeling                   | labeling   | quantitative |
|     |                             | 417-3 Incidents of non-compliance concerning marketing communications                          | quantitative |
|     | Customer Drivers            | 418-1 Substantiated complaints concerning breaches of customer privacy and losses              | ,            |
| 418 | Customer Privacy            | of customer data   | quantitative |
| 419 | Socioeconomic<br>Compliance | 419-1 Non-compliance with laws and regulations in the social and economic area                 | quantitative |

## PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

# Table 13: GRI's Alignment to SDGs<sup>23</sup>

| DISCLOSUF   |       |       |       |       |       |       |      | R     | ELATE | D SDG  | S      |        |        |        |        |         |        |
|-------------|-------|-------|-------|-------|-------|-------|------|-------|-------|--------|--------|--------|--------|--------|--------|---------|--------|
| ES          |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-REP-5   |       |       |       |       |       |       | 1    |       | Ι     |        |        |        |        |        |        |         |        |
| 102-ACT-1   |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-ACT-2   |       |       |       |       |       |       |      | SDG 8 |       | SDG 10 |        |        |        |        |        |         |        |
| 102-GOV-1   |       |       |       |       | SDG 5 |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102-GOV-2   |       |       |       |       | SDG 5 |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102- GOV-3  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102- GOV-4  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102- GOV-7  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102- GOV-10 |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102- RBC-1  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102- RBC-2  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102- RBC-3  |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-RBC-5   |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 102-SE-1    |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-SE-2    |       |       |       |       |       |       |      | SDG 8 |       |        |        |        |        |        |        |         |        |
| 102- MT-1   |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-MT-2    |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 102-MT-3    |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 201         |       |       |       |       |       |       |      | SDG 8 | SDG 9 |        |        |        | SDG 13 |        |        |         |        |
| 202         | SDG 1 |       |       |       | SDG 5 |       |      |       | 500 5 |        |        |        | 300 13 |        |        |         |        |
| 203         | SDG 1 |       | SDG 3 |       | SDG 5 |       |      |       |       |        | SDG 11 |        |        |        |        |         |        |
| 203         | 300 I |       | 300 3 |       | 300 3 |       |      | SDG 8 | 300 3 |        | 300 11 |        |        |        |        |         |        |
| 205         |       |       |       |       |       |       |      | 300.0 |       |        |        |        |        |        |        | SDG 16  |        |
| 205         |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 200         | SDG 1 |       |       |       |       |       |      |       | 1     | SDG 10 |        |        |        |        |        | 300 10  | SDG 17 |
| 301         | 300 I |       |       |       |       |       |      | SDG 8 |       | 300 10 |        | SDG 12 |        |        |        |         | 30017  |
| 302         |       |       |       |       |       |       |      |       |       |        |        | SDG 12 | SDG 13 |        |        |         |        |
| 303         |       |       |       |       |       | SDG 6 | 3007 | 3000  |       |        |        | 300 12 | 300 13 |        |        |         |        |
| 304         |       |       |       |       |       | SDG 6 |      |       |       |        |        |        |        | SDG 14 | SDG 15 |         |        |
| 305         |       |       | SDG 3 |       |       | 5000  |      |       |       |        |        | SDG 12 | SDG 13 | SDG 14 | SDG 15 |         |        |
| 306         |       |       | SDG 3 |       |       | SDG 6 |      |       |       |        | SDG 11 | SDG 12 | 300 13 | 50011  | 300 13 |         |        |
| 307         |       |       | 3003  |       |       | 5000  |      |       |       |        | 500 11 | 300 12 |        |        |        | SDG 16  |        |
| 308         |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | 30010   |        |
| 401         |       |       | SDG 3 |       | SDG 5 |       |      | SDG 8 |       | SDG 10 |        |        |        |        |        |         |        |
| 402         |       |       | 3003  |       | 3003  |       |      | SDG 8 |       | 300 10 |        |        |        |        |        |         |        |
| 403         |       |       | SDG 3 |       |       |       |      | SDG 8 |       |        |        |        |        |        |        | SDG 16  |        |
| 404         |       |       | 5005  | SDG 4 | SDG 5 |       |      | SDG 8 |       | SDG 10 |        |        |        |        |        | 30010   |        |
| 405         |       |       |       | 300 1 | SDG 5 |       |      | SDG 8 |       | SDG 10 |        |        |        |        |        |         |        |
| 406         |       |       |       |       | SDG 5 |       |      | SDG 8 |       | 00010  |        |        |        |        |        |         |        |
| 407         |       |       |       |       | 3003  |       |      | SDG 8 |       |        |        |        |        |        |        |         |        |
| 408         |       |       |       |       |       |       |      | SDG 8 |       |        |        |        |        |        |        | SDG 16  |        |
| 409         |       |       |       |       |       |       |      | SDG 8 |       |        |        |        |        |        |        |         |        |
| 410         |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        | CDC-46- |        |
| 410         |       | 0000  |       |       |       |       |      |       |       |        |        |        |        |        |        | SDG 16  |        |
| 411         |       | SDG 2 |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 412         |       |       |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 413         |       | SDG 2 |       |       |       |       |      |       |       |        |        |        |        |        |        |         |        |
| 414         |       |       |       |       | SDG 5 |       |      | SDG 8 |       |        |        |        |        |        |        | SDG 16  |        |

<sup>23</sup> GRI. (Last updated September 2020) Linking the SDGs and the GRI Standards

**Final Report** 

| 415 |  |  |  |  |  |        |  | SDG 16 |  |
|-----|--|--|--|--|--|--------|--|--------|--|
| 416 |  |  |  |  |  |        |  | SDG 16 |  |
| 417 |  |  |  |  |  | SDG 12 |  | SDG 16 |  |
| 418 |  |  |  |  |  |        |  | SDG 16 |  |
| 419 |  |  |  |  |  |        |  | SDG 16 |  |

## 6.3.3. Analysis of SASB Standards

### **Reference documents:**

- SASB Materiality Map<sup>® 24</sup>
- (Selected Industry-specific) Sustainability Accounting Standards<sup>25</sup>

SASB is an industry-specific standard, that aims to reflect each industry's own unique sustainability profile. The disclosure topics included in SASB's industry-specific standards are therefore a subset of sustainability issues, tailored to an industry's specific context. "SASB's standard-setting process surfaces the disclosure topics and metrics most likely to have material financial impacts on the typical company in a given industry. However, business models can differ significantly, even within an industry. For this reason, companies may find topics and metrics in other industry standards that are relevant to their business, especially in related industries."<sup>26</sup>

Therefore, SASB encourages users to review other industry standards as well, and make their own determinations about the sustainability risks and opportunities their company faces. Infrastructure specific disclosure topics and their associated accounting metrics were selected to provide a comparable base for mapping against AISI, apart from the cross-industry issue categories that SASB provides.

## Table 14: SASB Overview Table

| SASB OVERVIEW TABLE |  |  |  |  |  |
|---------------------|--|--|--|--|--|
|                     | GENERAL SYSTEM DATA  |  |  |  |  |
| NAME OF ESG         | SASB Accounting Standards  |  |  |  |  |
| SYSTEM              |  |  |  |  |  |
| SYSTEM              | Sustainability Accounting Standards Board                                      |  |  |  |  |
| DEVELOPER           |  |  |  |  |  |
| DEVELOPMENT         | Developed in 2018. Currently, the SASB conceptual framework is under revision. |  |  |  |  |
| STATUS              |  |  |  |  |  |
| AMENDMENT OF        | No   |  |  |  |  |
| PRIOR VERSION       |  |  |  |  |  |
| OR NOT              |  |  |  |  |  |

<sup>24</sup> https://materiality.sasb.org/

<sup>25</sup> https://www.sasb.org/standards/download/

<sup>26</sup> Sustainability Accounting Standards Board. (November 2020) SASB Human Capital Bulletin.

| BRIEF            | SASB has adopted an industry-specific approach to financial materiality. SASB explains:                  |
|------------------|--|
| DESCRIPTION      | When evaluating the financial materiality of environmental and social issues, industry-specificity is    |
|                  | critical, because such issues often manifest in unique ways in the context of specific business models.  |
|                  | Thus, the decisions of companies and investors are shaped in large part by their assessments of sector-  |
|                  | specific value-drivers, risks, and opportunities.'   |
|                  | SYSTEM SCOPE   |
| TYPE OF ESG      | Combined Framework & Standard  |
| GUIDANCE         |  |
| MANDATORY OR     | Voluntary  |
| VOLUNTARY        |  |
| TARGET           | Providers of financial capital, such as investors, lenders, and underwriters                             |
| AUDIENCE         |  |
| GLOBAL OR        | Regional(US)   |
| REGIONAL         |  |
| ESG FOCUS        | E, S and G   |
| CLIMATE-SPECIFIC | No   |
| PROJECT OR       | Both (mainly corporate)  |
| CORPORATE        |  |
| INFRASTRUCTURE   | No   |
| -SPECIFIC        |  |
| INFRASTRUCTURE   | Yes  |
| -RELEVANT        |  |
|                  | SYSTEM STRUCTURE   |
| NO. OF GUIDANCE  | An on-line interactive tool, the 'SASB Materiality map', that identifies and compares disclosure topics  |
| DOCUMENTS        | across different industries and sectors.   |
|                  | 77 industry-specific disclosure standards with guidance on the accounting metrics                        |
| MAIN STRUCTURE   | SASB's structure is based on the sectors and industries it addresses. SASB includes 77 industry-specific |
| COMPONENTS       | standards that provide 444 disclosure topics categorized in 5 sustainability dimensions:                 |
|                  | 1. Environment   |
|                  | 2. Social capital  |
|                  | 3. Human capital   |
|                  | 4. Business model & Innovation   |
|                  | 5. Leadership and Governance   |
|                  | Sustainability dimensions group General issue categories (cross-industry financially material issues)>   |
|                  | >accounting metrics per issue category (however industry –specific)                                      |
| ECONOMY          | YES  |
| SECTORS-SPECIFIC |  |
| TARGET           | 11 Sectors and 77 industries:  |

| FCONOMY        | 1 Consumer goods (7 industri                              | es)                                     |                                       |  |  |  |  |  |
|----------------|---|---|---------------------------------------|--|--|--|--|--|
|                | 2 Extractives & Minerals Proc                             | essing (8 industries)                   |                                       |  |  |  |  |  |
| SECTORS/INDUST | 3. Financials (7 industries)                              |   |                                       |  |  |  |  |  |
| RIES           | 4. Food & Beverage (8 industries)                         |   |                                       |  |  |  |  |  |
|                | 5. Healthcare (6 industries)                              |   |                                       |  |  |  |  |  |
|                | 6. Infrastructure (8 industries)                          |   |                                       |  |  |  |  |  |
|                | 7 Renewable Resources & Alternative Energy (6 industries) |   |                                       |  |  |  |  |  |
|                | 8 Resource Transformation (5                              | industries)                             |                                       |  |  |  |  |  |
|                | 9 Services (7 industries)                                 | maastresy                               |                                       |  |  |  |  |  |
|                | 10 Technology & Communica                                 | tions (6 industries)                    |                                       |  |  |  |  |  |
|                | 11 Transportation (9 industrie                            |   |                                       |  |  |  |  |  |
|                | SASB's Sustainable Industry Cl                            | assification System® (SICS®) uses an ir | nnact-focused methodology             |  |  |  |  |  |
|                | sategorizing companies under                              | a sustainability long SICS builds on ar | ad complements traditional            |  |  |  |  |  |
|                |   |   |                                       |  |  |  |  |  |
|                | classification systems by group                           | oing companies into sectors and indus   | tries in accordance with a            |  |  |  |  |  |
|                | fundamental view of their bus                             | iness model, their resource intensity a | and sustainability impacts, and their |  |  |  |  |  |
|                | sustainability innovation pote                            | ntial.                                  |                                       |  |  |  |  |  |
| SUSTAINABILITY | (26 General issue categories)                             |   |                                       |  |  |  |  |  |
| TOPICS         | 1.GHG Emissions   |   |                                       |  |  |  |  |  |
| 101103         | 2.Air Quality   |   |                                       |  |  |  |  |  |
|                | 3.Energy Management                                       |   |                                       |  |  |  |  |  |
|                | 4.Water & Wastewater Manag                                | gement                                  |                                       |  |  |  |  |  |
|                | 5.Waste & Hazardous Materia                               | ls Management                           |                                       |  |  |  |  |  |
|                | 6. Ecological Impacts                                     |   |                                       |  |  |  |  |  |
|                | 7.Human Rights & Community                                | Relations                               |                                       |  |  |  |  |  |
|                | 8.Customer Privacy  |   |                                       |  |  |  |  |  |
|                | 9.Data Security   |   |                                       |  |  |  |  |  |
|                | 10.Access & Affordability                                 |   |                                       |  |  |  |  |  |
|                | 11.Product Quality & Safety                               |   |                                       |  |  |  |  |  |
|                | 12.Customer Welfare                                       |   |                                       |  |  |  |  |  |
|                | 13. Selling Practices & Product                           | t Labelling                             |                                       |  |  |  |  |  |
|                | 14. Labor Practices                                       |   |                                       |  |  |  |  |  |
|                | 15. Employee Health & Safety                              |   |                                       |  |  |  |  |  |
|                | 16. Employee Engagement, Di                               | versity & Inclusion                     |                                       |  |  |  |  |  |
|                | 17.Product Design & Lifecycle                             | Management                              |                                       |  |  |  |  |  |
|                | 18. Business Model Resilience                             |   |                                       |  |  |  |  |  |
|                | 19. Supply Chain Managemen                                | t                                       |                                       |  |  |  |  |  |
|                | 20. Materials Sourcing & Effici                           | ency                                    |                                       |  |  |  |  |  |
|                | 21. Physical Impacts of Climat                            | e Change                                |                                       |  |  |  |  |  |
|                | 22. Business Ethics                                       |   |                                       |  |  |  |  |  |
|                | 23. Competitive Behavior                                  |   |                                       |  |  |  |  |  |
|                | 24. Management of the Legal                               | & Regulatory Environment                |                                       |  |  |  |  |  |
|                | 25. Critical Incident Risk Mana                           | gement                                  |                                       |  |  |  |  |  |
|                | 26. Systemic Risk Managemen                               |   |                                       |  |  |  |  |  |
| CATEGORIZATION | <u>ENVIRONMENTAL</u>                                      | SOCIAL                                  | GOVERNANCE                            |  |  |  |  |  |

| OF TOPICS AS E, S, | GHG Emissions                   | Human Rights & Community                  | Product Design & Lifecycle               |
|--------------------|---------------------------------|---|--|
| or/and G           | Air Quality                     | Relations                                 | Management                               |
|                    | Energy Management               | Customer Privacy                          | Business Model Resilience                |
|                    | Water & Wastewater              | Data Security                             | Supply Chain Management                  |
|                    | Management                      | Access & Affordability                    | Materials Sourcing & Efficiency          |
|                    | Waste & Hazardous               | Product Quality & Safety                  | Physical Impacts of Climate Change       |
|                    |                                 | Customer Weifare                          | Business Ethics                          |
|                    |                                 | Labor Practices                           | Management of the Legal &                |
|                    |                                 | Employee Health & Safety                  | Regulatory Environment                   |
|                    |                                 | Employee Engagement Diversity &           | Critical Incident Risk Management        |
|                    |                                 | Inclusion                                 | Systemic Risk Management                 |
| NUMBER OF          | 77 industry-specific disclosure | standards include 444 industry-speci      | fic disclosure topics                    |
| INDICATORS /       | Given that Disclosure topics a  | re classified per industry, in the case c | of SASB the total no.of disclosures does |
|                    | not constitute a representativ  | e characteristic.                         |  |
|                    | Moreover, the no. of disclosu   | re topics varies per industry, based on   | the materiality of topics for each       |
|                    | industry, therefore an average  | e of disclosure topics can only be prov   | ided.                                    |
| INDUSTRY           | Avg. no of. disclosure topics=  | 6 per industry.                           |  |
| NUMBER OF          | E: 6 general issue categories   | <b>S:</b> 10 general issue categories     | <b>G:</b> 10 general issue categories    |
|                    | 16 disclosure topics            | 12 disclosure topics                      | 29 disclosure topics                     |
|                    |                                 |   |  |
|                    |                                 |   |  |
| NUMBER OF          | 57                              |   |  |
| INFRASTRUCTURE     |                                 |   |  |
| -RELEVANT          |                                 |   |  |
| INDICATORS         |                                 |   |  |
|                    |                                 | SYSTEM CONTENT                            |  |
| INCLUSION OF       | No                              |   |  |
| BENCHMARKS         |                                 |   |  |
| INCLUSION OF       | Yes, industry-specific account  | ing metrics                               |  |
| METRICS            |                                 |   |  |
| QUANTITATIVE       | (Number of quantitative indic   | ators)                                    | (Number of qualitative indicators)       |
| VS. QUALITATIVE    |                                 |   |  |
| METRICS            |                                 |   |  |
| CONNECTION TO      | No                              |   |  |
| PROJECT PHASES     |                                 |   |  |
| CONNECTION/REF     | No                              |   |  |
| ERENCE TO          |                                 |   |  |
| OTHER ESG          |                                 |   |  |
| SYSTEMS            |                                 |   |  |
| CONNECTION TO      | Direct (however in a separate   | document)                                 |  |
| SDGs (DIRECT OR    |                                 |   |  |
|                    |                                 |   |  |

**Final Report** 

| CONNECTION TO | No |
|---------------|----|
| TCFD          |    |
| FRAMEWORK     |    |

The SASB Standards structure is best illustrated in the figure below.



Fig. 1: Structure of SASB Standards<sup>27</sup>

| DIMENSION     | GENERAL ISSUE CATEGORY        | DISCLOSURE TOPICS                                      |  |  |
|---------------|-------------------------------|--|--|--|
|               |                               | Greenhouse emissions                                   |  |  |
|               |                               | Emissions Reduction Services & Fuels management        |  |  |
|               | GHG Emissions                 | Greenhouse Gas Emissions & Energy Resource<br>Planning |  |  |
|               |                               | Fleet fuel management                                  |  |  |
|               | Air Quality                   | Air quality  |  |  |
| ENVIRONIVIENT | Energy Management             | Energy management                                      |  |  |
|               |                               | Water Management                                       |  |  |
|               | Water & Wastewater Management | Distribution Network Efficiency                        |  |  |
|               |                               | Effluent Quality Management                            |  |  |
|               | Waste & Hazardous Materials   | Waste Management                                       |  |  |
|               | Management                    | Coal ash management                                    |  |  |

## Table 15: SASB Structure Table

<sup>&</sup>lt;sup>27</sup> Sustainability Accounting Standards Board. (September 2020) SASB Implementation Supplement: Greenhouse Gas Emissions and SASB Standards.

|                       |                                  | Management of Leachate & Hazardous Waste  |  |  |
|-----------------------|----------------------------------|---|--|--|
|                       |                                  | Hazardous Waste Management  |  |  |
|                       |                                  | Environmental impacts of project development                                    |  |  |
|                       | Ecological Impacts               | Biodiversity impacts  |  |  |
|                       |                                  | Land use & Ecological impacts   |  |  |
|                       |                                  | Rights of Indigenous people   |  |  |
|                       | Human Rights & Community         | Security, Human rights & Rights of indigenous people                            |  |  |
|                       | Relations                        | Community relations   |  |  |
| <b>ΣΟCΙΛΙ CAΡΙΤΛΙ</b> | Customer Privacy                 | Data Privacy  |  |  |
| JOCIAL CAPITAL        | Data Security                    | Data Security   |  |  |
|                       | Access & Affordability           | (Energy/ water/ gas) affordability  |  |  |
|                       | Broduct Quality & Safaty         | Structural Integrity & Safety   |  |  |
|                       | Product Quality & Safety         | Drinking Water Quality  |  |  |
|                       | Labor Practices                  | Labor Practices   |  |  |
|                       | Employee Health & Safety         | Workforce Health & Safety   |  |  |
| HUMAN CAPITAL         | Employee Engagement, Diversity & | Workforce Diversity & Engagement/ Employee recruitment, Inclusion & Performance |  |  |
|                       | Inclusion                        | Employee recruitment, Development & Retention                                   |  |  |
| Business model &      | Product Design & Lifecycle       | Product End-of- life Management   |  |  |
| Innovation            | Management                       | Product Innovation  |  |  |
|                       |                                  | Lifecycle Impacts of Buildings & Infrastructure                                 |  |  |
|                       |                                  | Climate impacts of business mix   |  |  |
|                       |                                  | Management of Energy Infrastructure Integration & Related Regulations           |  |  |
|                       |                                  | Fuel Economy & Use-phase Emissions  |  |  |
|                       |                                  | RR-WT Ecological Impacts of Project Development                                 |  |  |
|                       | Business Model Resilience        | End-Use Efficiency & Demand   |  |  |
|                       |                                  | Recycling & Resource Recovery   |  |  |
|                       | Supply Chain Management          | Supply Chain Management   |  |  |
|                       |                                  | Environmental & Social Impacts of supply chain                                  |  |  |
|                       |                                  | Water Supply Resilience   |  |  |
|                       | Materials Sourcing & Efficiency  | Materials Sourcing  |  |  |
|                       |                                  | Product end of life management  |  |  |
|                       |                                  | RR-WT Materials Efficiency  |  |  |

|              | Dhusical Impacts of Climate Change                  | Network Resiliency & Impacts of Climate Change           |  |  |
|--------------|---|--|--|--|
|              | Physical impacts of climate change                  | Climate Change Adaptation                                |  |  |
|              |   | Business ethics  |  |  |
|              | Business Ethics                                     | Business ethics & Payments Transparency                  |  |  |
|              |   | Professional Integrity                                   |  |  |
|              | Compatitive Rehavior                                | Competitive Behavior                                     |  |  |
|              | Competitive Benavior                                | Pricing Integrity & Transparency                         |  |  |
| LEADERSHIP & | Management of the Legal &<br>Regulatory Environment | Management of the Legal & Regulatory Environment         |  |  |
| GOVERNANCE   |   | Critical Incident Risk Management                        |  |  |
|              | Critical Incident Pick Management                   | Nuclear safety & Emergency management                    |  |  |
|              | Citical incluent hisk Management                    | Integrity of Gas Delivery Infrastructure                 |  |  |
|              |   | Accident & Safety Management                             |  |  |
|              |   | Grid Resiliency  |  |  |
|              | Systemic Risk Management                            | Managing Systemic Risks from Technology<br>Interruptions |  |  |

It is worth noting that the above table is result of two processes:

- 1. A selection of the industry-specific disclosure topics that appear for each cross-industry General Issue category. The disclosure topics selected are identified as infrastructure- relevant.
- 2. Two General issue categories were excluded from the table:
- The 'Customer Welfare' category and
- The 'Selling Practices & Product Labelling' category

Based on the categories definition<sup>28</sup> and the specific disclosure topics they include, the two categories are targeted to the 'Food & Beverage', 'Healthcare', and 'Services' sector that are not relevant to infrastructure.

## Table 16: SASB Structure and Content table highlighting ESG aspects and types of indicators

<sup>&</sup>lt;sup>28</sup> The 'Customer Welfare' category addresses welfare concerns over issues including, but is not limited to, health and nutrition of foods and beverages, antibiotic use in animal production, and management of controlled substances. The category addresses the company's ability to provide consumers with manufactured products and services that are aligned with societal expectations. It does not include issues directly related to quality and safety malfunctions of manufactured products and services, but instead addresses qualities inherent to the design and delivery of products and services where customer welfare may be in question. The scope also captures companies' ability to prevent counterfeit products.

The 'Selling Practices & Product Labelling' category addresses social issues that may arise from a failure to manage the transparency, accuracy and comprehensibility of marketing statements, advertising, and labeling of products and services. It includes, but is not limited to, advertising standards and regulations, ethical and responsible marketing practices, misleading or deceptive labeling, as well as discriminatory or predatory selling and lending practices. This may include deceptive or aggressive selling practices in which incentive structures for employees could encourage the sale of products or services that are not in the best interest of customers or clients.

| DIMENSION       | GENERAL ISSUE<br>CATEGORY | DISCLOSURE TOPICS   | ACCOUNTING METRICS  | ТҮРЕ                       |
|-----------------|---------------------------|---|---|----------------------------|
|                 |                           |   | Gross global Scope 1 emissions and percentage of Scope 1<br>emissions emitted in areas that are subject to emissions-<br>limiting or emissions-reporting regulation   | Quantitative               |
|                 |                           |   | Percentage of of Scope 1 emissions associated with the emission of a specific (per industry) substance  | Quantitative               |
|                 |                           | Greenhouse emissions                                      | Discussion of long-term and short-term strategy or plan to<br>manage Scope 1 and lifecycle emissions, emissions<br>reduction targets, and an analysis of performance against<br>those targets<br>(1) Total landfill gas generated (2) percentage flared (3) | Discussion<br>and Analysis |
|                 |                           |   | percentage used for energy  | Quantitative               |
|                 | GHG Emissions             | Emissions Reduction                                       | Total fuel consumed; percentage renewable; percentage used in: (1) on-road equipment and vehicles (2) off-road equipment  | Quantitative               |
|                 |                           | Services & Fuels<br>management                            | Discussion of strategies or plans to address air-emissions related risks, opportunities and impacts   | Discussion<br>and Analysis |
|                 |                           |   | Percentage of engines in service that meet Tier 4 compliance for non-road diesel engine emissions   | Quantitative               |
|                 |                           | Greenhouse Gas<br>Emissions & Energy<br>Resource Planning | (1) Number of customers served in markets to renewable<br>portfolio standards (RPS) and (2) percentage fulfillment of<br>RPS target by market   | Quantitative               |
|                 |                           | Fleet fuel management                                     | Fleet fuel consumed (2) percentage natural gas, (3) percentage renewable  | Quantitative               |
|                 |                           |   | Percentage of alternative fuel vehicles in fleet  | Quantitative               |
| ENVIRONME<br>NT | Air Quality               | Air quality   | Air emissions of the following pollutants: (1) NOx<br>(excluding N2O), (2) SOx, (3) particulate matter<br>(PM10),volatile organic compounds (VOCs), and (4)<br>hazardous air pollutants (HAPs); percentage of each in or<br>pear areas of dense population  | Quantitative               |
|                 |                           |   | Number of facilities in or near areas of dense population   | Quantitative               |
|                 |                           |   | Number of incidents of non-compliance associated with air emissions   | Quantitative               |
|                 |                           |   | <ul><li>(1) Total energy consumed, (2) percentage grid electricity,</li><li>(3) percentage renewable</li></ul>  | Quantitative               |
|                 | Energy                    | Energy management   | (1) Total energy consumed by portfolio area with data<br>coverage, (2) percentage grid electricity, and (3)<br>percentage renewable, by property subsector  | Quantitative               |
|                 | Management                |   | Like-for-like percentage change in energy consumption for<br>the portfolio area with data coverage, by property<br>subsector  | Quantitative               |
|                 |                           |   | Percentage of eligible portfolio that (1) has an energy<br>rating and (2) is certified to ENERGY STAR, by property<br>subsector   | Quantitative               |
|                 | Water &                   |   | (1) Total water withdrawn, (2) total water consumed,<br>percentage of each in regions with High or Extremely High<br>Baseline Water Stress  | Quantitative               |
|                 | Wastewater<br>Management  | Water Management  | Number of incidents of non-compliance associated with water quantity and/or quality permits, standards, and regulations   | Quantitative               |

Final Report

## DRAFT, April 30, 2021

|         |  |  | Description of water management risks and discussion of strategies and practices to mitigate those risks   | Discussion<br>and Analysis |
|---------|--|--|--|----------------------------|
|         |  |  | Water main replacement rate  | Quantitative               |
|         |  | Distribution Network<br>Efficiency                         | Volume of non-revenue real water losses  | Quantitative               |
|         |  | Effluent Quality   | Number of incidents of non-compliance associated with water effluent quality permits, standards, and regulations   | Quantitative               |
|         |  | Management   | Discussion of strategies to manage effluents of emerging concern   | Discussion<br>and Analysis |
|         |  | Waste Management   | Amount of waste generated, percentage hazardous, percentage recycled   | Quantitative               |
|         |  |  | Amount of coal combustion residuals (CCR) generated, percentage recycled   | Quantitative               |
|         | Waste &                                  | Coal ash management  | Total number of coal combustion residual (CCR)<br>impoundments, broken down by hazard potential<br>classification and structural integrity assessment                  | Quantitative               |
|         | Hazardous                                |  | (1) Total Toxic Release Inventory (TRI) releases, (2) percentage released to water   | Quantitative               |
|         | Management                               |  | Number of corrective actions implemented for landfill releases   | Quantitative               |
|         |  | Management of Leachate<br>& Hazardous Waste                | Number of incidents of non-compliance associated with environmental impacts  | Quantitative               |
|         |  |  | Amount of hazardous waste generated, percentage recycled   | Quantitative               |
|         |  | Hazardous Waste<br>Management                              | Number and aggregate quantity of reportable spills, quantity recovered   | Quantitative               |
|         | Ecological<br>Impacts                    | Environmental impacts of project development               | Number of incidents of non-compliance with environmental permits, standards, and regulations   | Quantitative               |
|         |  |  | Discussion of processes to assess and manage<br>environmental risks associated with project design, siting,<br>and construction  | Discussion<br>and Analysis |
|         |  |  | Number and duration of project delays related to ecological impacts  | Quantitative               |
|         |  |  | Description of efforts in (solar energy system) project<br>development to address community and ecological<br>impacts  | Discussion<br>and Analysis |
|         |  | Biodiversity impacts                                       | Terrestrial acreage disturbed, percentage of impacted area restored  |                            |
|         |  | Land use & Ecological                                      | Number of (1)lots and (2) homes delivered on redevelopment sites (in Home builders)  |                            |
|         |  | impacts  | Total amount of monetary losses as a result of legal proceedings associated with environmental regulations   |                            |
| SOCIAL  | Human Rights &<br>Community<br>Relations | Rights of Indigenous people                                | Discussion of engagement processes and due diligence<br>practices with respect to the management of indigenous<br>rights   | Discussion<br>and Analysis |
| CAPITAL |  | Security, Human rights &<br>Rights of indigenous<br>people | Discussion of engagement processes and due diligence<br>practices with respect to management of human rights,<br>indigenous rights, and operation in areas of conflict | Discussion<br>and Analysis |

|         |                           |                                       | Discussion of process to manage risks and opportunities        | Discussion            |
|---------|---------------------------|---------------------------------------|--|-----------------------|
|         |                           | Community relations                   | Number and duration of non-technical delays                    |                       |
|         |                           |                                       | Description of policies and practices relating to behavioral   | Discussion            |
|         |                           |                                       | advertising and customer privacy                               | and Analysis          |
|         |                           |                                       | Number of customers whose information is used for              | Quantitative          |
|         |                           |                                       | secondary purposes   | Overstitetive         |
|         | Customer Privacy          | Data Privacy                          | proceedings associated with customer privacy                   | Quantitative          |
|         | customerrinuey            |                                       | (1) Number of law enforcement requests of customer             | Quantitative          |
|         |                           |                                       | information, (2) number of customers whose information         |                       |
|         |                           |                                       | (1) Number of data breaches (2) percentage involving           | Quantitative          |
|         |                           |                                       | personally identifiable information (PII), (3) number of       | Quantitutive          |
|         |                           |                                       | customers affected   |                       |
|         |                           |                                       | Description of approach to identifying and addressing          | Discussion            |
|         | Data Security             | Data Security                         | data security risks, including use of third-party              | and Analysis          |
|         |                           |                                       |  |                       |
|         |                           |                                       | (1) Number of data breaches, (2) percentage involving          | Quantitative          |
|         |                           |                                       | personally identifiable information (PII), (3) number of       |                       |
|         |                           |                                       | customers affected   |                       |
|         | Access &<br>Affordability | (Energy/ water/ gas)<br>affordability | Average retail (electric/ water/gas) rate for (1) residential, | Quantitative          |
|         |                           |                                       | Typical monthly (electric/water/gas) hill for residential      | Quantitative          |
|         |                           |                                       | customers for (1) 500 kWh and (2) 1,000 kWh of                 | Quantitative          |
|         |                           |                                       | electricity delivered per month                                |                       |
|         |                           |                                       | Number of residential customer (electric/ water/gas)           | Quantitative          |
|         |                           |                                       | disconnections for non-payment, percentage reconnected         |                       |
|         |                           |                                       |  | <b>D</b> <sup>1</sup> |
|         |                           |                                       | affordability of ([service] (electricity/ water/gas) including | Discussion            |
|         |                           |                                       | the economic conditions of the service territory               | Analysis              |
|         |                           |                                       | Amount of defect- and safety-related rework costs              | Quantitative          |
|         |                           |                                       | Total amount of monetary losses as a result of legal           | Quantitative          |
|         |                           | Structural Integrity &                | incidents  |                       |
|         | Product Quality &         | Safety                                | Number of (1) acute health-based (2) non acute health-         | Quantitative          |
|         | Safety                    |                                       | based, and (3) non-health-based drinking water violations      | Quantitative          |
|         |                           |                                       | Discussion of strategies to manage drinking water              | Discussion            |
|         |                           | Drinking Water Quality                | contaminants of emerging concern                               | and Analysis          |
|         |                           |                                       | Percentage of active workforce covered under collective        | Quantitative          |
|         |                           |                                       | bargaining agreements  |                       |
| HUMAN   | Lahan Drastissa           | Lahan Drastin -                       | (1) Number of work stoppages and (2) total days idle           | Quantitative          |
| CAPITAL | Labor Practices           | Labor Practices                       | (1) Average wage and (2) percentage of employees               | Quantitative          |
|         |                           |                                       | (1) Voluntony and (2) involuntory turn over sets for           | Quantitativa          |
|         |                           |                                       | employees  | Quantitative          |

|            |  |  | Description of policies and programs to prevent worker   |                            |
|------------|--|--|--|----------------------------|
|            |  |  | Total amount of monetary losses as a result of legal   | Quantitative               |
|            |  |  | proceedings associated with labor law violations;  | Quantitative               |
|            |  |  | employment discriminations   |                            |
|            |  |  | Percentage of employees working maximum hours  | Quantitative               |
|            |  |  | Percentage of employees paid for overtime  | Quantitative               |
|            |  |  | Percentage of drivers classified as independent  | Quantitative               |
|            |  |  | contractors  |                            |
|            |  |  | Discussion of management systems used to integrate a culture of safety   | Discussion<br>and Analysis |
|            |  |  | Description of efforts to assess, monitor, and reduce exposure of workforce to human health hazards                          | Discussion<br>and Analysis |
|            |  |  | Total amount of monetary losses as a result of legal<br>proceedings associated with employee health and safety<br>violations | Quantitative               |
|            | Employee Health<br>& Safety            | Workforce Health &<br>Safety   | <ul><li>(1) Total recordable incident rate (TRIR),</li><li>(2) fatality rate, and</li></ul>                                  | Quantitative               |
|            |  |  | (3) near miss frequency rate (NMFR)  |                            |
|            |  |  | Safety Measurement System BASIC percentiles for:   | Quantitative               |
|            |  |  | (1) Unsafe Driving,  | 2001000000                 |
|            |  |  | (2) Hours-of-Service Compliance,   |                            |
|            |  |  | (3) Driver Fitness,  |                            |
|            |  |  | (4) Controlled Substances/Alconol,   |                            |
|            |  |  | (6) Hazardous Materials Compliance   |                            |
|            | Employee<br>Engagement,<br>Diversity & | Workforce Diversity &<br>Engagement/ Employee<br>recruitment, Inclusion &<br>Performance | Percentage of gender and racial/ethnic group   | Quantitative               |
|            |  |  | representation for (1) executive management and (2) all  |                            |
|            |  |  | other employees  | Quantitativa               |
|            |  |  | (1) voluntary and (2) involuntary turnover rate for  | Quantitative               |
|            |  |  | Employee engagement as a percentage  | Quantitative               |
|            | Inclusion                              | Employee recruitment.  | Discussion of talent recruitment and retention efforts   | Discussion                 |
|            |  | Development &  |  | and Analysis               |
|            |  |  | Percentage of materials with recycled content  | Quantitative               |
|            |  |  | Weight of end-of-life material recovered, percentage recycled  | Quantitative               |
|            |  | Product End-of- life   | Description of approach and strategies to design products for  | Discussion                 |
|            |  | Management   | high-value recycling   | and Analysis               |
|            |  |  | Description of approach to manage use, reclamation, and disposal of hazardous materials                                      | Discussion<br>and Analysis |
| Business   | Product Design &                       |  | Percentage of products that qualify for credits in   | Quantitative               |
| model &    | Lifecycle                              |  | sustainable building design and construction certifications  |                            |
| Innovation | Management                             | Product Innovation   | Total addressable market and share of market for   | Quantitative               |
|            |  |  | products that reduce energy, water, and /or material   |                            |
|            |  |  | Impacts during usage and/or production   | Discussion                 |
|            |  | Lifecycle Impacts of   | energy and water efficiency considerations into project  | and Analysis               |
|            |  | Buildings & Infrastructure   | planning and design  |                            |
|            |  | Climate impacts of   | Amount of backlog for (1) hydrocarbon related projects   | Quantitative               |
|            |  | business mix   | and (2) renewable energy projects  |                            |

Final Report

## DRAFT, April 30, 2021

|  |                              |  | Amount of backlog cancellations associated with<br>hydrocarbon-related projects  | Quantitative               |
|--|------------------------------|--|--|----------------------------|
|  |                              |  | Amount of backlog for non-energy projects associated with climate change mitigation  | Quantitative               |
|  |                              | Management of Energy<br>Infrastructure Integration | Description of risks associated with integration of solar<br>energy into existing energy infrastructure and discussion<br>of efforts to manage those risks                 | Discussion<br>and Analysis |
|  |                              | &<br>Related Regulations                           | Description of risks and opportunities associated with<br>energy policy and its impact on the integration of solar<br>energy into existing energy infrastructure           | Discussion<br>and Analysis |
|  |                              | Fuel Economy & Use-                                | Discussion of strategy for managing fleet fuel economy<br>and emissions risks and opportunities  | Discussion<br>and Analysis |
|  |                              |  | Fleet utilization rate   | Quantitative               |
|  |                              |  | Average A-weighted sound power level of wind turbines,<br>by wind turbine class  | Quantitative               |
|  |                              | RR-WT Ecological Impacts                           | ecological impacts   | Quantitative               |
|  |                              | of Project Development                             | Description of efforts to address ecological and<br>community impacts of wind energy production through<br>turbine design  | Discussion<br>and Analysis |
|  |                              |  | Percentage of electric/gas utility revenues from rate structures that (1) are decoupled and (2) contain a lost revenue adjustment mechanism (LRAM)                         | Quantitative               |
|  |                              | End-Use Efficiency &<br>Demand                     | Percentage of water utility revenues from rate structures<br>that are designed to promote conservation and revenue<br>resilience   | Quantitative               |
|  |                              |  | Percentage of electric load served by smart grid technology  | Quantitative               |
|  | Business Model<br>Resilience |  | Customer electricity/water/gas savings from efficiency measures, by market   | Quantitative               |
|  | Resilience                   |  | (1) Amount of waste incinerated, (2) percentage hazardous, (3) percentage used for energy recovery   | Quantitative               |
|  |                              | Recycling & Resource                               | Percentage of customers receiving (1) recycling and (2) composting services, by customer type  | Quantitative               |
|  |                              | Recovery   | Amount of material (1) recycled, (2) composted, and (3) processed as waste-to- energy  | Quantitative               |
|  |                              |  | Amount of electronic waste collected, percentage recovered through recycling   | Quantitative               |
|  |                              | Supply Chain<br>Management                         | Discussion of strategy to manage environmental and social risks arising from the supply chain  | Discussion<br>and Analysis |
|  | Supply Chain                 |  | Percentage of [materials] sourced that are certified to a third-party environmental and/or social standard, and percentages by standard                                    | Quantitative               |
|  | Management                   | Environmental & Social<br>Impacts of supply chain  | Suppliers' social and environmental responsibility audit (1)<br>non-conformance rate and (2) associated corrective action<br>rate for (a) major and (b) minor conformances | Quantitative               |
|  |                              |  | Discussion of strategy to manage environmental and social risks arising from contract growing and commodity  | Discussion<br>and Analysis |

|                           |                                       |  | sourcing   |                            |
|---------------------------|---------------------------------------|--|--|----------------------------|
|                           |                                       |  | Number of facilities audited to a social responsibility code of conduct  | Quantitative               |
|                           |                                       |  | Total water sourced from regions with High or Extremely<br>High Baseline Water Stress, percentage purchased from a<br>third party                              | Quantitative               |
|                           |                                       | Water Supply Resilience                              | Volume of recycled water delivered to customers  | Quantitative               |
|                           |                                       |  | Discussion of strategies to manage risks associated with the quality and availability of water resources   | Discussion<br>and Analysis |
|                           | Materials Sourcing                    | Materials Sourcing                                   | Description of the management of risks associated with the use of critical materials   | Discussion<br>and Analysis |
|                           | & Efficiency                          |  | Description of environmental and social risks associated with sourcing priority raw materials  | Discussion<br>and Analysis |
|                           |                                       | Product end of life<br>management                    | <ol> <li>Materials recovered through take back programs,<br/>percentage of recovered materials that were reused, (3)<br/>recycled and (4)landfilled</li> </ol> | Quantitative               |
|                           |                                       |  | Top five materials consumed, by weight   | Discussion<br>and Analysis |
|                           |                                       | Materials Efficiency                                 | Description of approach to optimize materials efficiency of wind turbine design  | Discussion<br>and Analysis |
|                           | Physical Impacts<br>of Climate Change | Network Resiliency &<br>Impacts of Climate<br>Change | Wastewater treatment capacity located in 100-year flood zones  | Quantitative               |
|                           |                                       |  | <ul><li>(1) Number and (2) volume of sanitary sewer overflows</li><li>(SSO), (3) percentage of volume recovered</li></ul>                                      | Quantitative               |
|                           |                                       |  | (1) Number of unplanned service disruptions, and (2) customers affected, each by duration category   | Quantitative               |
|                           |                                       | Climate Change<br>Adaptation                         | Area of properties located in 100-year flood zones, by property subsector  | Quantitative               |
|                           |                                       |  | Description of climate change risk exposure analysis,<br>degree of systematic portfolio exposure, and strategies<br>for mitigating risks                       | Discussion<br>and Analysis |
|                           |                                       |  | (1) Number of active projects and (2) backlog in countries<br>that have the 20 lowest rankings in Transparency<br>International's Corruption Perception Index  | Quantitative               |
| eadership &<br>Governance | Business Ethics                       | Business ethics                                      | Total amount of monetary losses as a result of legal<br>proceedings associated with charges of (1) bribery or<br>corruption and (2) anticompetitive practices  | Quantitative               |
|                           |                                       |  | Description of policies and practices for prevention of (1)<br>bribery and corruption, and (2) anti-competitive behavior<br>in the project bidding processes   | Discussion<br>and Analysis |
|                           |                                       | Business ethics &<br>Payments Transparency           | Amount of net revenue in countries that have the 20<br>lowest rankings in Transparency International's<br>Corruption Perception Index                          | Quantitative               |
|                           |                                       | Professional Integrity                               | Description of approach to ensuring professional integrity   | Discussion<br>and Analysis |

DRAFT, April 30, 2021

|  |  |   | Total amount of monetary losses as a result of legal proceedings associated with professional integrity   | Quantitative               |
|--|--|---|---|----------------------------|
|  | Competitive                                | Competitive Behavior                        | Total amount of monetary losses as a result of legal<br>proceedings associated with anticompetitive behavior<br>regulations   | Quantitative               |
|  | Behavior                                   | Pricing Integrity &<br>Transparency         | Total amount of monetary losses as a result of legal<br>proceedings associated with price fixing or price<br>manipulation   | Quantitative               |
|  | Management of<br>the Legal &<br>Regulatory | Management of the Legal<br>& Regulatory     | Discussion of corporate positions related to government<br>regulations and/or policy proposals that address<br>environmental and social factors affecting the industry  | Discussion<br>and Analysis |
|  | Environment                                | Environment                                 | Amount of subsidies received through government<br>programs   | Quantitative               |
|  |  | Critical Incident Risk<br>Management        | Description of management systems used to identify and mitigate catastrophic and tail-end risks   | Discussion<br>and Analysis |
|  |  | Nuclear safety &                            | Total number of nuclear power units, broken down by US<br>Nuclear Regulatory Commission Action Matrix Column  | Quantitative               |
|  | Critical Incident<br>Risk Management       | Emergency management                        | Description of efforts to manage nuclear safety and emergency preparedness  | Discussion<br>and Analysis |
|  |  |   | Number of (1) reportable pipeline incidents, (2) Corrective<br>Action Orders (CAO), and (3) Notices of Probable Violation<br>(NOPV)   | Quantitative               |
|  |  | Integrity of Gas Delivery<br>Infrastructure | Percentage of distribution pipeline that is (1) cast and/or wrought iron and (2) unprotected steel  | Quantitative               |
|  |  |   | Percentage of gas (1) transmission and (2) distribution pipelines inspected   | Quantitative               |
|  |  |   | Description of efforts to manage the integrity of gas<br>delivery infrastructure, including risks related to safety<br>and emissions  | Discussion<br>and Analysis |
|  |  | Accident & Safety<br>Management             | Number of road accidents and incidents  | Quantitative               |
|  |  |   | Safety Measurement System BASIC percentiles for: (1)<br>Unsafe Driving, (2) Hours-of-Service Compliance, (3)<br>Driver Fitness, (4) Controlled Substances/Alcohol, (5)<br>Vehicle Maintenance, and (6) Hazardous Materials<br>Compliance  | Quantitative               |
|  |  |   | (1) Number and (2)aggregate volume of spills and releases to the environment  | Quantitative               |
|  |  |   | Number of incidents of non-compliance with physical and/or cybersecurity standards or regulations   | Quantitative               |
|  | Systemic Risk                              | Grid Resiliency                             | <ol> <li>System Average Interruption Duration Index (SAIDI),</li> <li>System Average Interruption Frequency Index (SAIFI),<br/>and (3) Customer Average Interruption Duration Index<br/>(CAIDI), inclusive of major event days</li> </ol> | Quantitative               |
|  |  | Managing Systemic Risks                     | (1) System average interruption frequency and (2) customer average interruption duration  | Discussion<br>and Analysis |
|  |  | Interruptions                               | Discussion of systems to provide unimpeded service during service interruptions   | Quantitative               |

## PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

SASB has developed a document demonstrating its alignment to SDGs.<sup>29</sup> The results of SDG mapping exercise are presented as percentages of the SDG targets per goal that are addressed by SASB disclosure topics. Given that SASB is industry-specific and that each industry has a different contribution to SDGs, a more detailed SGD-level mapping is not feasible as part of the present mapping exercise.

| Table 17: SASB SDG Mapping Breakdown by Goal <sup>3</sup> |
|---|
|---|

|                     | Targets<br>in Goal | Mapped<br>to SASB | %    |                    | Targets<br>in Goal | Mapped<br>to SASB | %                |                       | Targets<br>in Goal | Mapped<br>to SASB | %   |
|---------------------|--------------------|-------------------|------|--------------------|--------------------|-------------------|------------------|-----------------------|--------------------|-------------------|-----|
| l illen<br>Avêrêstî | 7                  | 5                 | 71%  | 7 111111           | 5                  | 5                 | 100%             | 13 ##                 | 5                  | 3                 | 60% |
| 222                 | 8                  | 5                 | 63%  | 8                  | 12                 | 7                 | 58%              | 14 innun<br>III innun | 10                 | 8                 | 80% |
|                     | 13                 | 13                | 100% | 9                  | 8                  | 6                 | 75%              | 15 #us<br>            | 12                 | 10                | 83% |
|                     | <mark>1</mark> 0   | 5                 | 50%  | 10 militari<br>(‡) | 10                 | 7                 | <mark>70%</mark> |                       | 12                 | 7                 | 58% |
| ¢.                  | 9                  | 3                 | 33%  |                    | 10                 | 9                 | 90%              |                       | 19                 | 3                 | 16% |
|                     | 8                  | 5                 | 63%  |                    | 11                 | 10                | 91%              |                       |                    |                   |     |

## 6.4. Analysis of TCFD Recommendations

## **Reference documents:**

- Recommendations of the Task Force on Climate-related Financial disclosures Final Document, June 2017
- Implementing the Recommendations of the Task Force on Climate-related Financial disclosures

## Table 18: TCFD Overview Table

|             | TCFD OVERVIEW TABLE  |
|-------------|--|
|             | GENERAL SYSTEM DATA  |
| NAME OF ESG | Task Force on Climate-related Financial disclosures (TCFD) |
| SYSTEM      |  |

 <sup>&</sup>lt;sup>29</sup> Sustainability Accounting Standards Board. (June 2020) 'SASB Industry Guide to the Sustainable Development Goals'.
 <sup>30</sup> Usid

<sup>&</sup>lt;sup>30</sup> Ibid.

| SYSTEM           | Task Force (established by the G20's Financial Stability Board in June 2017)                   |
|------------------|--|
| DEVELOPER        |  |
| DEVELOPMENT      | completed /  |
| STATUS           | Framework published in June 2017 along with Implementation guide. Consultation held            |
|                  | October 2020-January 2021 focused on forward-looking metrics                                   |
| AMENDMENT OF     | NO   |
| PRIOR VERSION OR |  |
| NOT              |  |
| BRIEF            | The report is setting out our recommendations for helping businesses disclose climate-         |
| DESCRIPTION      | related financial information. The TCFD recommendations are already established as the         |
|                  | primary framework for disclosure of information on the management of climate-related risks     |
|                  | and opportunities in main annual filings.  |
|                  | The TCFD has developed recommendations on climate change disclosure in an annually             |
|                  | updated, publicly available report which is applicable for all sectors. The recommendations    |
|                  | cover climate strategy, governance, risk management and metrics and targets. As part of        |
|                  | their risk management, companies must identify and measure the financial implications of       |
|                  | their material risks and opportunities under at least two widely recognized climate scenarios. |
|                  | SYSTEM SCOPE   |
| TYPE OF ESG      | Framework / Recommendations for climate-related disclosures                                    |
| GUIDANCE         |  |
| MANDATORY OR     | Voluntary  |
| VOLUNTARY        |  |
| TARGET AUDIENCE  | lenders, insurers, investors and other stakeholders  |
| GLOBAL OR        | Global   |
| REGIONAL         |  |
| ESG FOCUS        | E,G  |
| CLIMATE-SPECIFIC | YES  |
| PROJECT OR       | CORPORATE - Includes Infrastructure Sector focus   |
| CORPORATE        |  |
| INFRASTRUCTURE-  | NO   |
| SPECIFIC         |  |
| INFRASTRUCTURE-  | YES  |
| RELEVANT         |  |
|                  | SYSTEM STRUCTURE   |
| NO. OF GUIDANCE  | 3  |
| DOCUMENTS        |  |
| MAIN STRUCTURE   | Structure of the Recommendations and Guidance(chapters):1)Recommendations,                     |
| COMPONENTS       | 2)Recommended disclosures 3)Guidance for All Sectors 4) Supplemental Guidance for all          |
|                  | Sectors  |
|                  |  |
|                  | Structure of Recommended disclosures (core elements): GOVERNANCE, STRATEGY, RISK               |

|                    | MANAGEMENT, METRICS & TARGETS   |                       |                                       |  |  |  |  |
|--------------------|---|-----------------------|---------------------------------------|--|--|--|--|
| ECONOMY            | NO - it can be applied to all sectors (additional sector-specific guidance is included) |                       |                                       |  |  |  |  |
| SECTORS-SPECIFIC   |   |                       |                                       |  |  |  |  |
| TARGET ECONOMY     | FINANCIAL SECTOR  |                       | NON-FINANCIAL SECTOR                  |  |  |  |  |
| SECTORS/INDUSTR    | Banks   |                       | Energy                                |  |  |  |  |
| IES                | Insurance Companies   |                       | Transportation                        |  |  |  |  |
|                    | Asset Owners  |                       | Materials & Buildings                 |  |  |  |  |
|                    | Asset Managers  |                       | Agriculture, Food and Forest products |  |  |  |  |
| SUSTAINABILITY     | (LIST OF TOPICS)  |                       |                                       |  |  |  |  |
| TOPICS             |   |                       |                                       |  |  |  |  |
| CATEGORIZATION     | <b>ENVIRONMENTAL</b>  | SOCIAL                | GOVERNANCE                            |  |  |  |  |
| OF TOPICS AS E, S, | climate-related metrics:  |                       | Governance -related metrics:          |  |  |  |  |
| or/and G           | - GHG emissions   |                       | Risk Adaptation & Mitigation          |  |  |  |  |
|                    | - Energy / Fuel   |                       |                                       |  |  |  |  |
|                    | - Water   |                       |                                       |  |  |  |  |
|                    | - Land Use  |                       |                                       |  |  |  |  |
|                    | - Location  |                       |                                       |  |  |  |  |
|                    | - Risk Adaptation &   |                       |                                       |  |  |  |  |
|                    | Mitigation  |                       |                                       |  |  |  |  |
| NUMBER OF          | 11 recommended disclos  |                       |                                       |  |  |  |  |
| INDICATORS         |   |                       |                                       |  |  |  |  |
| NUMBER OF          | E:  | S:                    | G:                                    |  |  |  |  |
| INDICATORS PER     | 11 recommended  | N/A                   | N/A                                   |  |  |  |  |
| ESG ASPECT         | disclosures   |                       |                                       |  |  |  |  |
|                    | N/A   |                       |                                       |  |  |  |  |
|                    | Ν/Α   |                       |                                       |  |  |  |  |
|                    |   |                       |                                       |  |  |  |  |
|                    | 11 recommended disclosure   | as (all disalasuras)  |                                       |  |  |  |  |
|                    |   | es (an disclosures)   |                                       |  |  |  |  |
|                    |   |                       |                                       |  |  |  |  |
|                    |   |                       |                                       |  |  |  |  |
| INDICATORS         |   |                       |                                       |  |  |  |  |
|                    | 31  |                       |                                       |  |  |  |  |
| INCLUSION OF       | NO  |                       |                                       |  |  |  |  |
| BENCHMARKS         |   |                       |                                       |  |  |  |  |
|                    | YES   |                       |                                       |  |  |  |  |
| METRICS            |   |                       |                                       |  |  |  |  |
| QUANTITATIVE VS.   | 1 recommended disclosure  | that includes several | 10 recommended disclosures with       |  |  |  |  |
| QUALITATIVE        | metrics relevant to each eco  | onomy sector          | qualitative content                   |  |  |  |  |
| METRICS            |   |                       |                                       |  |  |  |  |

| CONNECTION TO   | NO  |
|-----------------|---|
| PROJECT PHASES  |   |
| CONNECTION/REF  | YES   |
| ERENCE TO OTHER | mentions the disclosures coverage by the systems: G20/OECD_CDP_GPL_CDSP_SASP      |
| ESG SYSTEMS     | inentions the disclosules coverage by the systems. G20/OLCD, CDF, GN, CD3b, SA3b, |
|                 | !?  |
| CONNECTION TO   | NO  |
| SDGs (DIRECT OR |   |
| INDIRECT)       |   |
|                 |   |

The TCFD's report provides recommendations for helping businesses disclose climate-related financial information. These recommendations are already established as the primary framework for disclosure of information on the management of climate-related risks and opportunities in main annual filings.

The recommendations are structured around four thematic areas that represent core elements of how organizations operate: governance, climate strategy, risk management and metrics and targets. As part of their risk management, companies must identify and measure the financial implications of the material risks and opportunities under at least two widely recognized scenarios. The structure of the recommendation is shown in the following table.

|         | TCFD   |   |  |   |  |
|---------|--|---|--|---|--|
|         | GOVERNANCE   | STRATEGY  | RISK MANAGEMENT  | METRICS AND TARGETS   |  |
|         | Disclose the organization's<br>governance around climate-<br>related risks and<br>opportunities. | Disclose the actual and potential<br>impacts of climate-related risks<br>and opportunities on the<br>organization's businesses,<br>strategy, and financial planning<br>where such information is<br>material. | Disclose how the organization<br>identifies, assesses, and<br>manages climate-related risks. | Disclose the metrics and targets<br>used to assess and manage<br>relevant climate-related risks and<br>opportunities where such<br>information is material. |  |
| RECOM   | a) Describe the board's  | a) Describe the climate-  | a) Describe the  | a) Disclose the metrics used  |  |
| VENDED  | oversight of climate-  | related risks and   | organization's processes for   | by the organization to assess   |  |
| DISCLOS | related risks and  | opportunities the   | identifying and assessing  | climate-related risks and   |  |
| JRES    | opportunities.   | organization has identified   | climate-related risks.   | opportunities in line with its  |  |
|         |  | over the short, medium, and   |  | strategy and risk management  |  |
|         |  | long term.  |  | process.  |  |
|         | b) Describe management's   | b) Describe the impact of   | b) Describe the  | b) Disclose Scope 1, Scope 2,   |  |
|         | role in assessing and  | climate-related risks and   | organization's processes for   | and, if appropriate, Scope 3  |  |
|         | managing climate-related   | opportunities on the  | managing climate-related   | greenhouse gas (GHG)  |  |

## Table 19: TCFD's Main structure elements

#### **Final Report**

#### DRAFT, April 30, 2021

| risks and opportunities. | organization's businesses,<br>strategy, and financial<br>planning. | risks.                       | emissions, and the related risks. |
|--------------------------|--|------------------------------|-----------------------------------|
|                          | c) Describe the resilience of                                      | c) Describe how processes    | c) Describe the targets used      |
|                          | the organization's strategy,                                       | for identifying, assessing,  | by the organization to manage     |
|                          | taking   | and managing climate-        | climate-related risks and         |
|                          | into consideration different                                       | related risks are integrated | opportunities and                 |
|                          | climate-related scenarios,   | into the organization's      | performance against targets.      |
|                          | including a 2°C or lower   | overall risk                 |                                   |
|                          | scenario.  | management.                  |                                   |

The TCFD's guidance includes context and suggestions for implementing the recommended disclosures for all organizations. Additionally, the report also provides supplemental guidance for the major industries of the financial sector and the non-financial groups as follows:

## Financial Sector:

The Task Force developed supplemental guidance for the financial sector, which it organized into four major industries largely based on activities performed. The four industries are:

- banks (lending),
- insurance companies (underwriting),
- asset managers (asset management),
- asset owners, which include public- and private-sector pension plans, endowments, and foundations (investing).

The Task Force believes that disclosures by the financial sector could foster an early assessment of climate-related risks and opportunities, improve pricing of climate-related risks, and lead to more informed capital allocation decisions.

However, the financial sector's organizations do not fall within AISI's scope, which intends to be used by organizations and companies that own and operate hard infrastructure assets. Consequently, for the purposes of this mapping exercise, the supplemental guidance for financial groups (including example metrics) has not been considered.

## Non-Financial Groups:

The Task Force developed supplemental guidance for non-financial industries that account for the largest proportion of GHG emissions, energy usage, and water usage. These industries were organized into four groups (i.e., non-financial groups):

- 1. Energy;
- 2. Materials and Buildings;
- 3. Transportation;

## 4. Agriculture, Food, and Forest Products

The groupings are based on similarities in climate-related risks. While this supplemental guidance focuses on a subset of non-financial industries, organizations in other industries with similar business activities may wish to review and consider the issues and topics contained in the supplemental guidance.

For the purposes of this mapping exercise, the fourth non-financial industry's supplemental guidance (Agriculture, Food and Forest products) has not been considered because the included groups are not relevant to infrastructure organizations that AISI is designated for.

As shown in the following table, supplemental disclosures of non-financial groups are related to TCFD's "Strategy" and "Metrics and targets" core elements.



#### Table 20: TCFD - Areas of supplemental guidance industry/group

The supplemental guidance includes several example metrics for each of the four non-financial groups<sup>31</sup>. These metrics together with the corresponding climate-related categories are presented in the following table:

<sup>&</sup>lt;sup>31</sup> The specific disclosure for Supplemental Guidance for Non-Financial Groups mentions: "For all relevant metrics, organizations should consider providing historical trends and forward-looking projections (by relevant country and/or jurisdiction, business line, or asset type). Organizations should also consider disclosing metrics that support their scenario analysis and strategic planning process and that are used to monitor the organization's business environment from a strategic and risk management perspective. Organizations should consider providing key metrics related to GHG emissions, energy, water, land use, and, if relevant, investments in climate adaptation and mitigation that address potential financial aspects of shifting demand, expenditures, asset valuation, and cost of financing. Illustrative examples of metrics for each of the four non-financial groups are

## Table 21: TCFD Example metrics for Non-Financial Groups

|                            | METRICS AND TARGETS                 |  |                                  |  |  |
|----------------------------|-------------------------------------|--|----------------------------------|--|--|
| Disclose the where such i  | metrics and tai<br>information is r | rgets used to assess and manage relevant climate-related risks ar<br>naterial.   | nd opportunities                 |  |  |
|                            |                                     | Supplemental Guidance for Non-Financial Groups   |                                  |  |  |
| NON<br>FINANCIAL<br>SECTOR | FINANCIAL<br>CATEGORY               | EXAMPLE METRICS  | CLIMATE -<br>RELATED<br>CATEGORY |  |  |
| ENERGY                     | Revenues                            | Estimated Scope 3 emissions, including methodologies and emission factors used   | GHG Emissions                    |  |  |
|                            |                                     | Revenues/savings from investments in low-carbon alternatives (e.g.,<br>R&D, equipment, products or services)   | Risk Adaptation &<br>Mitigation  |  |  |
|                            | Expenditures                        | Describe current carbon price or range of prices used  | GHG Emissions                    |  |  |
|                            |                                     | Expenditures (OpEx) for low-carbon alternatives (e.g., R&D, equipment, products, or services)  | Risk Adaptation & Mitigation     |  |  |
|                            |                                     | Proportion of capital allocation to long-lived assets versus short-term assets   | Risk Adaptation &<br>Mitigation  |  |  |
|                            |                                     | Percent water withdrawn in regions with high or extremely high baseline water stress   | Water                            |  |  |
|                            |                                     | Amount of gross global Scope 1 emissions from: (1) combustion, (2) flared hydrocarbons, (3) process emissions, (4) directly vented releases, and (5) fugitive-emissions/leaks  | GHG Emissions                    |  |  |
|                            |                                     | Indicative costs of supply for current and committed future projects<br>(e.g., through a cost curve or indicative price range. This could be<br>broken down by product, asset, or geography)   | Energy/Fuel                      |  |  |
|                            | Assets                              | Assets committed in regions with high or extremely high baseline water stress  | Water                            |  |  |
|                            |                                     | Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)  | Risk Adaptation &<br>Mitigation  |  |  |
|                            |                                     | A breakdown of reserves by type and an indication of associated emissions factors to provide insight into potential future emissions   | GHG Emissions                    |  |  |
|                            | Capital                             | Capital payback periods or return on capital deployed  | Risk Adaptation & Mitigation     |  |  |
| TRANSPORT<br>ATION         | Revenues                            | Sales-weighted average fleet fuel economy, by region and weight/number of people transported   | Energy/Fuel                      |  |  |
|                            |                                     | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | Risk Adaptation & Mitigation     |  |  |
|                            |                                     | Vehicle sales (historical, current and projected) by category (e.g., gas vehicles, diesel vehicles, battery electric vehicles, plug-in hybrid electric vehicles, alternative-powered vehicles (LPG, CNG, fuel cells, compressed air) | Risk Adaptation &<br>Mitigation  |  |  |
|                            |                                     | Energy Efficiency Design Index (EEDI) for new ships  | Risk Adaptation & Mitigation     |  |  |
|                            | Expenditures                        | Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   | Risk Adaptation &<br>Mitigation  |  |  |

provided in the tables listed below." Source: TCFD "Implementing the recommendations of the Task Force on the climate-related financial disclosures", June 2017

|                |              | Total fuel consumed and percent renewable for road, airlines, marine, rail   | Energy/Fuel                  |
|----------------|--------------|--|------------------------------|
|                |              | Road vehicles—Geographic breakdown of GHG emissions: emissions<br>and/or emission intensity of products for key geographies against<br>regulatory requirements/targets | GHG Emissions                |
|                | Assets       | Life cycle reporting of GHG emissions of Transportation products (air, ship, rail, truck, auto)  | GHG Emissions                |
|                |              | Investments (CapEx) in low-carbon transportation equipment or transportation services  | Risk Adaptation & Mitigation |
| MATERIALS<br>& | Revenues     | Revenues/savings from investments in low-carbon alternatives (e.g.,<br>R&D, equipment, products or services)   | Risk Adaptation & Mitigation |
| BUILDINGS      | Expenditures | Expenditures (OpEx) for low-carbon alternatives (e.g., R&D, technology, products, or services)   | Risk Adaptation & Mitigation |
|                |              | Total energy consumed, broken down by source (e.g., purchased<br>electricity<br>and renewable sources)   | Energy/Fuel                  |
|                |              | Total fuel consumed—percentage from coal, natural gas, oil, and renewable sources  | Energy/Fuel                  |
|                |              | Total energy intensity—by tons of product, amount of sales, number of products depending on informational value  | Energy/Fuel                  |
|                |              | Building energy intensity (by occupants or square area)  | Energy/Fuel                  |
|                |              | Percent of fresh water withdrawn in regions with high or extremely high baseline water stress  | Water                        |
|                |              | Building water intensity (by occupants or square area)   | Water                        |
|                |              | GHG emissions intensity from buildings (by occupants or square area) and from new construction and redevelopment   | GHG Emissions                |
|                | Assets       | Area of buildings, plants or properties located in designated flood hazard areas   | Location                     |
|                |              | A breakdown of reserves and an indication of associated emissions factors to provide insight into potential future emissions   | GHG Emissions                |
|                |              | For each property type, the percentage certified as sustainable  | Risk Adaptation & Mitigation |
|                |              | Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)  | Risk Adaptation & Mitigation |

As shown in the table above, The TCFD guide classifies by default the example metrics for each nonfinancial group under the financial impact categories (revenues, expenditures, assets, capital). This classification does not serve for mapping purposes, as the structural compatibility with respect to AISI's content is very weak. As a result, or the purposes of the mapping exercise, it was decided to present the example metrics classified under the climate - related categories which are compatible with AISI's topics. This modification provides a more compatible structure to AISI's indicators and metrics as shown in the following table.

| Table 22: TCFD example metrics classification according to climate-related categories | Table 22: | TCFD examp | ole metrics of | classification | according to | climate-related | categories |
|---|-----------|------------|----------------|----------------|--------------|-----------------|------------|
|---|-----------|------------|----------------|----------------|--------------|-----------------|------------|

| CLIMATE - | EXAMPLE METRICS | FINANCIAL |               |
|-----------|-----------------|-----------|---------------|
| RELATED   |                 | IMPACT    | NON FINANCIAL |
| CATEGORY  |                 | CATEGORY  | GROUPS        |

| GHG Emissions                   | Estimated Scope 3 emissions, including methodologies and emission factors used  | Revenues     | Energy  |
|---------------------------------|---|--------------|---|
| GHG Emissions                   | Describe current carbon price or range of prices used   | Expenditures | Energy  |
| GHG Emissions                   | Amount of gross global Scope 1 emissions from: (1) combustion,<br>(2) flared hydrocarbons, (3) process emissions, (4) directly vented<br>releases, and (5) fugitive emissions/leaks   | Expenditures | Energy  |
| GHG Emissions                   | Road vehicles—Geographic breakdown of GHG emissions:<br>emissions and/or emission intensity of products for key<br>geographies against regulatory requirements/targets  | Expenditures | Transportation                                    |
| GHG Emissions                   | GHG emissions intensity from buildings (by occupants or square area) and from new construction and redevelopment  | Expenditures | Materials & Buildings                             |
| GHG Emissions                   | A breakdown of reserves by type and an indication of associated<br>emissions factors to provide insight into potential future emissions   | Assets       | Energy<br>Materials & Buildings                   |
| GHG Emissions                   | Life cycle reporting of GHG emissions of Transportation products (air, ship, rail, truck, auto)   | Assets       | Transportation                                    |
| Energy/Fuel                     | Sales-weighted average fleet fuel economy, by region and weight/number of people transported  | Revenues     | Transportation                                    |
| Energy/Fuel                     | Indicative costs of supply for current and committed future<br>projects (e.g., through a cost curve or indicative price range. This<br>could be broken down by product, asset, or geography)  | Expenditures | Energy  |
| Energy/Fuel                     | Total fuel consumed—percentage from coal, natural gas, oil, and renewable sources   | Expenditures | Transportation<br>Materials & Buildings           |
| Energy/Fuel                     | Total energy consumed, broken down by source (e.g., purchased electricity and renewable sources)  | Expenditures | Materials & Buildings                             |
| Energy/Fuel                     | Total energy intensity—by tons of product, amount of sales,<br>number of products depending on informational value  | Expenditures | Materials & Buildings                             |
| Energy/Fuel                     | Building energy intensity (by occupants or square area)   | Expenditures | Materials & Buildings                             |
| Water                           | Percent water withdrawn in regions with high or extremely high baseline water stress  | Expenditures | Energy<br>Materials & Buildings                   |
| Water                           | Building water intensity (by occupants or square area)  | Expenditures | Materials & Buildings                             |
| Water                           | Assets committed in regions with high or extremely high baseline water stress   | Assets       | Energy  |
| <b>Risk Adaptation</b>          | Revenues/savings from investments in low-carbon alternatives  | Revenues     | Energy  |
| & Mitigation                    | (e.g., R&D, equipment, products or services)  |              | Transportation                                    |
|                                 |   |              | Materials & Buildings                             |
| Risk Adaptation<br>& Mitigation | Vehicle sales (historical, current and projected) by category (e.g.,<br>gas vehicles, diesel vehicles, battery electric vehicles, plug-in<br>hybrid electric vehicles, alternative-powered vehicles (LPG, CNG,<br>fuel cells, compressed air) | Revenues     | Transportation                                    |
| Risk Adaptation<br>& Mitigation | Energy Efficiency Design Index (EEDI) for new ships   | Revenues     | Transportation                                    |
| Risk Adaptation<br>& Mitigation | Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)   | Expenditures | Energy<br>Transportation<br>Materials & Buildings |
| Risk Adaptation<br>& Mitigation | Proportion of capital allocation to long-lived assets versus short term assets  | Expenditures | Energy  |
| Risk Adaptation & Mitigation    | Capital payback periods or return on capital deployed   | Capital      | Energy  |
| <b>Risk Adaptation</b>          | Investment (CapEx) in low carbon alternatives (e.g. capital   | Assets       | Energy  |

| & Mitigation           | equipment or assets)  |        | Transportation        |
|------------------------|---|--------|-----------------------|
|                        |   |        | Materials & Buildings |
| <b>Risk Adaptation</b> | For each property type, the percentage certified as sustainable     | Assets | Materials & Buildings |
| & Mitigation           |   |        |                       |
| Location               | Area of buildings, plants or properties located in designated flood | Assets | Materials & Buildings |
|                        | hazard areas  |        |                       |

## 6.5. Analysis of the EU ESG Regulations

The nascent EU ESG Regime comprises a suite of measures, with the Taxonomy Regulation and the Non-Financial Reporting Directive sitting at the centre of the overall Regime structure. These two ESG rules along with the Sustainable Finance Disclosure Regulation are the most pressing for investment firms. The three EU ESG rules are highly interconnected as shown in the graph below:



They are still in process of being completed with different timelines each. Objective of the in-progress work of EU dedicated working groups and supervisory authorities is to achieve consistency between the three. The work on NFRD and SFDR is amending existing ESG regulations, while the Taxonomy is a newly developed tool to make the EU climate targets for 2030 and 2050 -in line with the EU's commitment to the

<sup>&</sup>lt;sup>32</sup> Barrie C. Ingman. (July 2020) 'The Eu Taxonomy Regulation: An Overview'. <u>https://insight.factset.com/eu-taxonomy-regulation</u>

Paris Agreement- implementable in practice. It is widely seen as a first and essential enabling step to finance the transition to a more sustainable economy."<sup>33</sup>

The Taxonomy is not an ESG regulatory reporting framework or standard, but rather a classification system of economic activities that qualify as 'green' or 'environmentally sustainable'. It does not relate to entities or investment products, it rather defines specific underlying activities that can affect sustainability objectives.

The Taxonomy is built upon the six EU Green Deal environmental objectives:

- 1. Climate change mitigation.
- 2. Climate change adaptation.
- 3. Protection of water and marine resources.
- 4. Transition to a circular economy.
- 5. Pollution prevention and control.
- 6. Protection and restoration of biodiversity and ecosystems.

The Taxonomy sets performance thresholds (referred to as 'technical screening criteria') for economic activities which:

- make a 'substantive contribution' to one of six environmental objectives
- 'do no significant harm' (DNSH) to the other five objectives
- 'meet minimum social and governance safeguards' (e.g., OECD Guidelines on Multinational Enterprises and the UN Guiding Principles on Business and Human Rights).<sup>34</sup>

An activity has to comply with all three above principles to be Taxonomy-aligned.

The first phase of the Taxonomy has been published and enables the categorization of economic activities/sectors that contribute to climate change mitigation and adaptation (objectives 1 and 2).<sup>35</sup> The Taxonomy will be expanded to include adequate consideration of the remaining four objectives by the end of 2021. However, the Taxonomy cannot be applied until technical screening criteria for all the relevant objectives have been adopted.

The Taxonomy poses the new rule to businesses that fall within the NFRD to prove their activities are Taxonomy-aligned, with an implementation by December 31, 2021, for financial institutions. More

<sup>&</sup>lt;sup>33</sup> EU Technical Expert Group on Sustainable Finance. (March 2020) "Taxonomy: Final report of the Technical Expert Group on Sustainable Finance".

<sup>&</sup>lt;sup>34</sup> EU Technical Expert Group on Sustainable Finance. (March 2020) "Taxonomy: Final report of the Technical Expert Group on Sustainable Finance".

<sup>&</sup>lt;sup>35</sup> The European Commission established a Technical Expert Group (TEG) on Sustainable Finance, which was tasked with developing recommendations on a range of topics, including what the Taxonomy technical screening criteria should be for the objectives of climate change mitigation and adaptation. The TEG has received input from all parts of the investment chain, industry sector representatives, academia, environmental experts, civil society and public bodies. The Taxonomy's basis for establishing thresholds is the 50–55% reduction by 2030 and net-zero emissions by 2050 of the EU Green Deal, consistent with EU's commitment to the Paris Agreement, and will be tightened over the period to 2050, e.g. in the case of CO2 intensity limits

specifically, it requires companies to disclose the proportion of their turnover derived from products or services associated with environmentally sustainable economic activities and the proportion of their capital and operating expenditure related to assets or processes associated with such activities.<sup>36</sup>

Investors will have to use the NFRD data that companies disclose to analyze if their investments are Taxonomy-aligned and the SFDR for the disclosure of this information. Taxonomy amends the SFDR to require 'financial market participants' to disclose, either:

- information on how, and to what extent, the investments that underlie their financial product support economic activities that aligns with the Taxonomy Regulation, or
- for those products that do not invest in taxonomy-compliant activities, a statement that they do not take into account the EU taxonomy.

Moreover, the Taxonomy amends the Disclosure Regulation, requiring the European Supervisory Authorities (i.e., ESMA, EBA and EIOPA) to develop, jointly, regulatory technical standards specifying the details of the presentation and content of the information in relation to the principle of "do no significant harm."

The Taxonomy modifies the NFRD to ensure non-financial corporate disclosures are aligned to the requirements of the Taxonomy classification system. The European Commission has to adopt by June 2021, a delegated act specifying the content and presentation of the Taxonomy-related information to be disclosed, including the methodology to be used. Recommendations, published on February 26, 2021,<sup>37</sup> focused on how to further specify KPIs for non-financial undertakings and those provided by asset management companies.

The EU ESG regime is still evolving. Extensive consultations on both the NFRD and SFDR and work of supervisory committees aim to establish consistency in requirements and definitions (to a large degree with the Taxonomy Regulation) and most importantly to ensure that the EU's Paris agreement commitment will be delivered.

## 6.5.1. Analysis of the EU Taxonomy Regulation

#### **Reference documents:**

- 1. EU Technical Expert Group on Sustainable Finance. (March 2020) Taxonomy: Final report of the Technical Expert Group on Sustainable Finance.
- 2. EU Technical Expert Group on Sustainable Finance. (March 2020) Taxonomy Report: Technical annex. Updated methodology & Updated Technical Screening Criteria

#### Table 23: EU Taxonomy Overview table

## EU TAXONOMY OVERVIEW TABLE

- <sup>36</sup> <u>https://home.kpmg/fi/fi/home/Pinnalla/2019/08/eu-sustainable-finance-explained-part-ii-taxonomy.html</u>
- <sup>37</sup> European Financial Reporting Advisory Group (EFRAG). (February 2021) Final Report: Proposals For A Relevant And Dynamic EU Sustainability Reporting Standard-Setting

| GENERAL SYSTEM DATA                     |  |  |  |
|---|--|--|--|
| NAME OF ESG<br>SYSTEM                   | EU Taxonomy  |  |  |
| SYSTEM DEVELOPER                        | European Union. The EU assigned the task to the Technical Expert Group on Sustainable<br>Finance   |  |  |
| DEVELOPMENT<br>STATUS                   | EU Taxonomy was agreed on political level in December 2019.<br>Delegated acts containing technical screening criteria will be developed in two phases: The<br>first technical screening criteria, for activities which substantially contribute to climate<br>change mitigation or adaptation, are developed and will enter into application by the end<br>of 2021.<br>The second set of technical screening criteria, which cover economic activities substantially<br>contributing to the other four environmental objectives are expected to be adopted by<br>end 2021 and enter into application by end 2022.  |  |  |
| AMENDMENT OF<br>PRIOR VERSION OR<br>NOT | NO.  |  |  |
| BRIEF DESCRIPTION                       | <ul> <li>The Taxonomy sets performance thresholds (referred to as 'technical screening criteria')</li> <li>for economic activities which:</li> <li>make a substantive contribution to one of six environmental objectives;</li> <li>do no significant harm (DNSH) to the other five, where relevant;</li> <li>meet minimum safeguards (e.g., OECD Guidelines on Multinational Enterprises and the UN Guiding Principles on Business and Human Rights).</li> </ul>  |  |  |
|   | SYSTEM SCOPE   |  |  |
| TYPE OF ESG<br>GUIDANCE                 | Regulation   |  |  |
| MANDATORY OR<br>VOLUNTARY               | Mandatory  |  |  |
| TARGET AUDIENCE                         | <ul> <li>Member states and EU institutions when setting rules about financial products and corporate bonds that are made available as environmentally sustainable – so the taxonomy will be used to define green bond standards in due course;</li> <li>Financial market participants (FMPs) who offer financial products and market these as environmentally sustainable (primarily buy side firms and institutional investors)</li> <li>Organisations covered by the Non-Financial Reporting Directive</li> <li>The EU Taxonomy is one of the most significant developments in sustainable finance and will have wide ranging implications for investors and issuers working in the EU, and beyond.</li> </ul> |  |  |
| GLOBAL OR<br>REGIONAL                   | Regional   |  |  |
| ESG FOCUS                               | E (however contains minimum social and human rights safeguards)  |  |  |
| CLIMATE-SPECIFIC                        | Yes  |  |  |
| PROJECT, OR<br>CORPORATE                | Corporate  |  |  |
| INFRASTRUCTURE-                         | No   |  |  |

| SPECIFIC   |   |  |   |  |  |
|--|---|--|---|--|--|
| INFRASTRUCTURE-<br>RELEVANT                            | Yes   |  |   |  |  |
|  | SYSTEM STRUCTURE  |  |   |  |  |
| NO. OF GUIDANCE<br>DOCUMENTS                           | 3<br>EU Taxonomy Report & Annex and a spreadsheet   |  |   |  |  |
| MAIN STRUCTURE<br>COMPONENTS                           | Technical Screening Criteria per sec  | Technical Screening Criteria per sector/activity |   |  |  |
| ECONOMY SECTORS-<br>SPECIFIC                           | YES   |  |   |  |  |
| TARGET ECONOMY<br>SECTORS/INDUSTRIE<br>S               | Assessing alignment with the Taxonomy should be performed by economic activity rather<br>than by sector or industry. The TEG<br>recommendations are structured around the EU's NACE (Nomenclature des Activités<br>Économiques dans la Communauté Européenne) industry classification system, and the<br>TEG has set technical screening criteria for economic activities within<br>priority macro-sectors. |  |   |  |  |
| SUSTAINABILITY<br>TOPICS                               | <ul> <li>Climate change mitigation</li> <li>climate change adaptation</li> <li>water</li> <li>circular economy</li> <li>pollution</li> <li>ecosystems</li> </ul>  |  |   |  |  |
| CATEGORIZATION OF                                      | ENVIRONMENTAL   | SOCIAL   | GOVERNANCE  |  |  |
| TOPICS AS E, S,<br>or/and G                            | Climate change mitigation<br>Climate Change Adaptation<br>Water<br>Circular economy<br>Pollution<br>Ecosystems  | N/A  | N/A   |  |  |
| NUMBER OF<br>INDICATORS                                | N/A   | 1  |   |  |  |
| NUMBER OF<br>INDICATORS PER<br>SECTOR                  | N/A   |  |   |  |  |
| NUMBER OF<br>INFRASTRUCTURE-<br>RELEVANT<br>INDICATORS | N/A   |  |   |  |  |
|  | SYSTEM CO   | NTENT  |   |  |  |
| INCLUSION OF<br>BENCHMARKS                             | Yes   |  |   |  |  |
| QUANTITATIVE VS.<br>QUALITATIVE                        | 'Substantial Contribution' to climate<br>mitigation is tested using quantitati  | e change<br>ve indicators                        | 'DNSH' makes reference to EU<br>Directives and established best |  |  |

**Final Report** 

| METRICS           |   | practices |  |
|-------------------|---|-----------|--|
| CONNECTION TO     | No  |           |  |
| PROJECT PHASES    |   |           |  |
| CONNECTION TO     | No  |           |  |
| OTHER ESG SYSTEMS |   |           |  |
| CONNECTION TO     | YES.  |           |  |
| SDGs (DIRECT OR   | The six environmental objectives are connected to SDG goals. Phase 1 is related to SDG 13:  |           |  |
| INDIRECT)         | Take urgent action to combat climate change and its impacts                                 |           |  |
| CONNECTION TO     | Given that the Taxonomy does not involve (itself) disclosure of climate-related information |           |  |
| TCFD              | but rather sets thresholds for contribution to climate change mitigation and adaptation,    |           |  |
|                   | TCFD alignment is out of scope. However, connection with TCFD is integral due to the        |           |  |
|                   | climate-focus and the inclusion of climate-related scenarios and methodology for            |           |  |
|                   | development of thresholds followed by the TEG.  |           |  |

## 6.5.2. Analysis of the EU Non-Financial Reporting Directive (NFRD)

## **Reference documents:**

- European Commission. (2017) Guidelines on non-financial reporting (methodology for reporting non-financial information)
- European Commission. (2019) Guidelines on reporting climate-related information

The two sets of Guidelines were merged into one table for the mapping exercise, without separating the different dates, as they have common themes.

#### Table 24: EU NFRD Structure table

| EU NFRD           |  |  |
|-------------------|--|--|
| MATTERS           | THEME  | КРІ  |
| Environme<br>ntal | Energy   | Total energy consumption and / or production) from renewable and non-renewable sources |
| matters           |  | Energy efficiency target   |
|                   |  | Renewable energy consumption and/or production target.                                 |
|                   |  | Energy performance and improvements in energy performance                              |
|                   |  | Energy consumption from non-renewable sources and <b>energy</b> intensity              |
|                   | Material disclosures on pollution prevention and control |  |

|         | Direct and indirect atmospheric emissions   | Direct GHG emissions from sources owned or controlled by the company (Scope 1)  |
|---------|---|---|
|         |   | Indirect GHG emissions from the generation of acquired and consumed electricity, steam, heat, or cooling (collectively referred to as "electricity") (Scope 2)  |
|         |   | All indirect GHG emissions (not included in scope 2) that<br>occur in the value chain of the reporting company, including<br>both upstream and downstream emissions (Scope 3)   |
|         |   | GHG absolute emissions target   |
|         |   | emissions of other pollutants (measured in absolute value and as intensity)   |
|         | Use and protection of natural resources (e.g.<br>water, land) and related protection of<br>biodiversity | Extraction of natural resources   |
|         |   | Impacts and dependencies on natural capital and biodiversity;   |
|         | Waste management  | Waste management (e.g. recycling rates)   |
|         | Environmental impacts from transportation<br>or from the use and disposal of products<br>and services   |   |
|         | Development of green products and services  |   |
| Climate | Physical risks  | Assets committed in regions likely to become more exposed to acute or chronic physical climate risks  |
|         | Products and services   | Percent turnover in the reporting year from products or<br>services associated with activities that meet the criteria for<br>substantially contributing to mitigation of or adaptation to<br>climate change as set out in the Regulation on the<br>establishment of a framework to facilitate sustainable<br>investment (EU taxonomy).<br>And / or<br>Percent investment (CapEx) and/or expenditures (OpEx) in<br>the reporting year for assets or processes associated with<br>activities that meet the criteria for substantially contributing<br>to mitigation of or adaptation to climate change as set out in<br>the Regulation on the establishment of a framework to<br>facilitate sustainable investment (EU taxonomy). |

|                                   | Green Finance  | Climate-related Green Bond Ratio:<br>Total amount of green bonds outstanding (at year end)<br>divided by (a 5-year rolling average of) total amount of bonds<br>outstanding<br>and / or,<br>Climate-related Green Debt Ratio:<br>Total amount of all green debt instruments<br>outstanding (at year-end) divided by (a 5-year rolling average<br>of) total amount of all debt outstanding. |
|-----------------------------------|--|--|
|                                   | Disclosure on natural capitals(e.g. water,<br>soil productivity or biodiversity) for<br>companies whose business models are<br>dependent on natural capitals threatened<br>by climate change |  |
|                                   | Opportunities of efforts engaging with a transition to a low-carbon and climate.   | Revenues from low-carbon products  |
| tr<br>re<br>p<br>m                | resilient economy, aligned with key EU<br>policies, carrying out climate change<br>mitigation / adaptation activities.   | Revenues from product or services applying to the circular economy model,  |
|                                   |  | R&D expenditures in circular economy production  |
| Social and<br>employee<br>matters | Implementation of fundamental<br>conventions of the International Labour<br>Organisation   | Employees entitled to parental leave, by gender  |
| Inallers                          | Diversity issues, such as gender diversity   | Gender diversity and other aspects of diversity;   |
|                                   | occupation (including age, gender, sexual<br>orientation, religion, disability, ethnic origin<br>and other relevant aspects  | Number of persons with disabilities employed.  |
|                                   | Employment issues, including employee<br>consultation and/or participation,<br>employment and working conditions   | Employee consultation processes;   |
|                                   |  | Employee turnover  |
|                                   |  | Ratio of employees working under temporary contracts, by gender  |
|                                   | Trade union relationships, including respect of trade union rights   |  |
|                                   | Human capital management including<br>management of restructuring, career<br>management and employability,<br>remuneration system, training  | Average hours of training per year per employee, by gender;  |

|                      | Health and safety at work   | Workers who participate in activities with a high risk of specific accidents or diseases;  |
|----------------------|---|--|
|                      |   | Number of occupational accidents, types of injury or occupational diseases;  |
|                      | Consumer relations, including consumer<br>satisfaction, accessibility, products with<br>possible effects on consumers' health and<br>safety |  |
|                      | Impacts on vulnerable consumers   |  |
|                      | Responsible marketing and research  |  |
|                      | 10. Community relations, including social<br>and economic development of local<br>communities.  |  |
| Respect<br>for human | Human rights due diligence  | Occurrences of severe impacts on human rights relating to its activities or decisions  |
| rights               |   | Process for receiving and addressing complaints, and mitigating and providing remedies to human rights violations  |
|                      |   | Operations and suppliers at significant risk of human rights violations  |
|                      | Processes and arrangements implemented to prevent human rights abuses   | Processes and measures for preventing trafficking in human<br>beings for all forms of exploitation, forced or compulsory<br>labour and child labour, precarious work, and unsafe working<br>conditions, in particular as regards geographic areas at higher<br>risk of exposure to abuse |
|                      |   | How accessible their facilities, documents and websites are to people with disabilities  |
|                      |   | Respect for freedom of association   |
|                      |   | Engagement with relevant stakeholders.   |
| Anti-                | Management of anti-corruption and bribery   | Anti-corruption policies, procedures and standards;  |
| corruption<br>and    | matters and occurrences   | Criteria used in corruption-related risk assessments;  |
| bribery<br>matters   |   | Internal control processes and resources allocated to preventing corruption and bribery;   |
|                      |   | Employees having received appropriate training;  |
|                      |   | Use of whistle-blowing mechanisms;   |

|                            |  | Number of pending or completed legal actions on anti-<br>competitive behaviour.  |
|----------------------------|--|--|
| Supply<br>chain<br>matters | Supply chain management  | Monitoring suppliers on:<br>— labour practices, including child labour and forced labour,<br>precarious work, wages, unsafe working conditions (including<br>building safety, protective equipment, workers' health)<br>— trafficking in human beings and other human rights<br>matters<br>— greenhouse gas emissions and other types of water and<br>environmental pollution<br>— deforestation and other biodiversity-related risks  |
|                            |  | Monitoring the company's impact on suppliers, for instance, its payment terms and average payment periods.   |
| Conflict<br>minerals       | Responsible supply chains for tin, tantalum,<br>tungsten and gold from conflict-affected and<br>high-risk areas. | <ul> <li>the proportion of direct relevant suppliers having adopted<br/>and implemented a conflict minerals due diligence policy<br/>consistent with the OECD Due Diligence Guidance;</li> <li>the proportion of responsibly-sourced tin, tantalum,<br/>tungsten or gold originating in conflict-affected and high-risk<br/>areas; and</li> <li>the proportion of relevant customers contractually<br/>requiring conflict minerals due diligence information under<br/>the OECD Due Diligence Guidance.</li> </ul> |

## 6.5.3. Analysis of the EU Sustainable Finance Disclosure Regulation (SFDR)

**Reference Document:** ESMA, EBA, EIOPA. (February 2, 2021) Final Report on draft Regulatory Technical Standards

The data presented on the EU SFDR are based on the recent report<sup>38</sup> of the European Supervisory Authorities (i.e., ESMA, EBA and EIOPA) on Regulatory Technical Standards (RTS) that list adverse sustainability impact indicators. This report amended the draft RTS for consultation of April 2020 based on received feedback in an effort to make the reporting process less complex and burdensome and better reflect current data availability. However, it is a draft.

## Table 25: EU SFDR Draft Regulatory Technical Standards (RTS) Structure<sup>39</sup>

| EU SFDR Draft Regulatory Technical Standards (RTS) |                                  |         |
|--|----------------------------------|---------|
| MATTERS  | PRINCIPAL ADVERSE SUSTAINABILITY |         |
|  | IMPACT INDICATORS                | METRICS |
| CLIMATE AND OTHER ENVIRONMENT-RELATED INDICATORS   |                                  |         |
| (applicable to investments in investee companies)  |                                  |         |

<sup>38</sup> ESMA, EBA, EIOPA. (February 2021) Final Report on draft Regulatory Technical Standards.

<sup>&</sup>lt;sup>39</sup> Ibid.
| Greenhouse<br>gas emissions<br>Biodiversity<br>Water<br>Waste<br>Fossil Fuels<br>Energy<br>efficiency<br>SOCIAL ANE<br>Social and<br>employee<br>matters |  | Scope 1 GHG emissions   |  |  |
|--|--|---|--|--|
|  | CUC omissions  | Scope 2 GHG emissions   |  |  |
|  |  | Scope 3 GHG emissions (from January 1,2023)   |  |  |
|  |  | Total GHG emissions   |  |  |
|  | Carbon footprint   | Carbon footprint  |  |  |
| Greenhouse   | GHG intensity of investee companies  | GHG intensity of investee companies   |  |  |
| gas emissions  | Exposure to companies active in the fossil fuel sector   | Share of investments in companies active in the fossil fuel sector  |  |  |
|  | Share of non-renewable energy consumption and production   | Share of non-renewable energy consumption and non-<br>renewable energy production of investee companies from<br>non-renewable energy sources compared to renewable<br>energy sources, expressed as a percentage   |  |  |
|  | Energy consumption intensity per high impact climate sector  | Energy consumption in GWh per million EUR of revenue of investee companies, per high impact climate sector  |  |  |
| Biodiversity   | Activities negatively affecting biodiversity-<br>sensitive areas   | Share of investments in investee companies with<br>sites/operations located in or near to biodiversity-sensitive<br>areas where activities of those investee companies<br>negatively affect those areas   |  |  |
| Water  | Emissions to water   | Tonnes of emissions to water generated by investee<br>companies per million EUR invested, expressed as a weighted<br>average  |  |  |
| Waste  | Hazardous waste ratio  | Tonnes of hazardous waste generated by investee companies<br>per million EUR invested, expressed as a weighted average  |  |  |
|  | INDICATORS (applicable to inves  | tments in real estate assets)   |  |  |
| Fossil Fuels   | Exposure to fossil fuels through real estate assets  | Share of investments in real estate assets involved in the extraction, storage, transport or manufacture of fossil fuels  |  |  |
| Energy   | Exposure to energy-inefficient real estate   |   |  |  |
|  |  | Share of investments in energy-inefficient real estate assets   |  |  |
| JOCIAL ANL   | (applicable to investments   | in investee companies)  |  |  |
| Social and<br>employee<br>matters  | Violations of UN Global Compact<br>principles and Organisation for Economic<br>Cooperation and Development (OECD)<br>Guidelines for Multinational Enterprises  | Share of investments in investee companies that have been<br>involved in violations of the UNGC principles or OECD<br>Guidelines for Multinational Enterprises  |  |  |
|  | Lack of processes and compliance<br>mechanisms to monitor compliance with<br>UN Global Compact principles and OECD<br>Guidelines for Multinational Enterprises | Share of investments in investee companies without policies<br>to monitor compliance with the UNGC principles or OECD<br>Guidelines for Multinational Enterprises or grievance<br>/complaints handling mechanisms to address violations of<br>the UNGC principles or OECD Guidelines for Multinational<br>Enterprises |  |  |
|  | Unadjusted gender pay gap  | Average unadjusted gender pay gap of investee companies   |  |  |

|                           | Board gender diversity   | Average ratio of female to male board members in investee companies   |  |  |
|---------------------------|--|---|--|--|
|                           | Exposure to controversial weapons (anti-<br>personnel mines, cluster munitions,<br>chemical weapons and biological<br>weapons) | Share of investments in investee companies involved in the manufacture or selling of controversial weapons                                  |  |  |
| MATTERS                   | ADDITIONAL ADVERSE<br>SUSTAINABILITY IMPACT INDICATORS   | METRICS   |  |  |
|                           | CLIMATE AND OTHER ENVIRON  | MENT-RELATED INDICATORS   |  |  |
|                           | (applicable to investments   | in investee companies)  |  |  |
|                           | Emissions of inorganic pollutants  | invested, expressed as a weighted average   |  |  |
|                           | Emissions of air pollutants  | Tonnes of air pollutants equivalent per million EUR invested, expressed as a weighted average   |  |  |
| Emissions                 | Emissions of ozone depletion substances  | Tonnes of ozone depletion substances equivalent per million EUR invested, expressed as a weighted average                                   |  |  |
|                           | Investments in companies without carbon emission reduction initiatives   | Share of investments in investee companies without carbon<br>emission reduction initiatives aimed at aligning with the Paris<br>Agreement   |  |  |
| Energy<br>performance     | Breakdown of energy consumption by type of non-renewable sources of energy   | Share of energy from non-renewable sources used by<br>investee companies broken down by each non-renewable<br>energy source                 |  |  |
|                           | Water usage and recycling  | Average amount of water consumed and reclaimed by the investee companies (in cubic meters) per million EUR of revenue of investee companies |  |  |
|                           |  | Weighted average percentage of water recycled and reused by investee companies  |  |  |
|                           | Investments in companies without water management policies   | Share of investments in investee companies without water management policies  |  |  |
| Water, waste              | Exposure to areas of high water stress   | Share of investments in investee companies with sites<br>located in areas of high water stress without a water<br>management policy         |  |  |
| and material<br>emissions | Investments in companies producing chemicals   | Share of investments in investee companies the activities of which fall under Division 20.2 of Annex I to Regulation (EC) No 1893/2006      |  |  |
|                           | Land degradation, desertification, soil sealing  | Share of investments in investee companies the activities of which cause land degradation, desertification or soil sealing                  |  |  |
|                           | Investments in companies without sustainable land/agriculture practices  | Share of investments in investee companies without sustainable land/agriculture practices or policies                                       |  |  |
|                           | Investments in companies without sustainable oceans/seas practices   | Share of investments in investee companies without sustainable oceans/seas practices or policies  |  |  |

|                                   | Non-recycled waste ratio  | Tonnes of non-recycled waste generated by investee<br>companies per million EUR invested, expressed as a weighted<br>average  |  |  |
|-----------------------------------|---|---|--|--|
|                                   |   | Share of investments in investee companies whose operations affect threatened species   |  |  |
|                                   | Natural species and protected areas   | Share of investments in investee companies without a<br>biodiversity protection policy covering operational sites<br>owned, leased, managed in, or adjacent to, a protected area<br>or an area of high biodiversity value outside protected areas |  |  |
|                                   | Deforestation   | Share of investments in companies without a policy to address deforestation   |  |  |
| Green<br>securities               | Share of securities not certified as green<br>under a future EU legal act setting up an<br>EU Green Bond Standard | Share of securities in investments not certified as green   |  |  |
|                                   | INDICATORS (applicable  | in real estate assets)  |  |  |
|                                   |   | Scope 1 GHG emissions generated by real estate assets   |  |  |
| Greenhouse                        |   | Scope 2 GHG emissions generated by real estate assets   |  |  |
| gas emissions                     | GHG emissions   | From 1 January 2023, Scope 3 GHG emissions generated by real estate assets  |  |  |
|                                   |   | Total GHG emissions generated by real estate assets   |  |  |
| Energy<br>consumption             | Energy consumption intensity  | Energy consumption in GWh of owned real estate assets per square meter  |  |  |
| Waste                             | Waste production in operations  | share of real estate assets not equipped with facilities for<br>waste sorting and not covered by a waste recovery or<br>recycling contract  |  |  |
| Resource<br>consumption           | Raw materials consumption for new construction and major renovations  | Share of raw building materials (excluding recovered,<br>recycled and biosourced) compared to the total weight of<br>building materials used in new construction and major<br>renovations   |  |  |
| Biodiversity                      | Land artificialisation  | Share of non-vegetated surface area (surfaces that have not<br>been vegetated in ground, as well as on roofs, terraces and<br>walls) compared to the total surface area of the plots of all<br>assets   |  |  |
| SOCIAL AND EM                     | PLOYEE, RESPECT FOR HUMAN RIGHTS, AN  | TI-CORRUPTION AND ANTI-BRIBERY MATTERS  |  |  |
|                                   | Investments in companies without<br>workplace accident prevention policies  | Share of investments in investee companies without a workplace accident prevention policy   |  |  |
| Additional                        | Rate of accidents   | Rate of accidents in investee companies expressed as a weighted average   |  |  |
| Social and<br>employee<br>matters | Number of days lost to injuries, accidents, fatalities or illness   | Number of workdays lost to injuries, accidents, fatalities or illness of investee companies expressed as a weighted average   |  |  |
|                                   | Lack of a supplier code of conduct  | Share of investments in investee companies without any supplier code of conduct (against unsafe working conditions, precarious work, child labour and forced labour)  |  |  |

Final Report

|                                  | Lack of grievance/complaints handling mechanism related to employee matters                                    | Share of investments in investee companies without any grievance/complaints handling mechanism related to employee matters  |  |  |
|----------------------------------|--|---|--|--|
|                                  | Insufficient whistleblower protection  | Share of investments in entities without policies on the protection of whistleblowers   |  |  |
|                                  | Incidents of discrimination  | Number of incidents of discrimination reported in investee companies expressed as a weighted average  |  |  |
|                                  | Excessive CEO pay ratio  | Average ratio within investee companies of the annual total<br>compensation for the highest compensated individual to the<br>median annual total compensation for all employees<br>(excluding the highest-compensated individual) |  |  |
|                                  | Lack of a human rights policy  | Share of investments in entities without a human rights policy  |  |  |
|                                  | Lack of due diligence  | Share of investments in entities without a due diligence<br>process to identify, prevent, mitigate and address adverse<br>human rights impacts  |  |  |
| Human Rights                     | Lack of processes and measures for preventing trafficking in human beings                                      | Share of investments in investee companies without policies against trafficking in human beings   |  |  |
|                                  | Operations and suppliers at significant risk of incidents of child labour                                      | Share of investments in investee companies exposed to<br>operations and suppliers at significant risk of incidents of<br>child labour exposed to hazardous work in terms of<br>geographic areas or type of operation              |  |  |
|                                  | Operations and suppliers at significant risk<br>of incidents of forced or compulsory<br>labour                 | Share of the investments in investee companies exposed to<br>operations and suppliers at significant risk of incidents of<br>forced or compulsory labour in terms in terms of geographic<br>areas and/or the type of operation    |  |  |
|                                  | Number of identified cases of severe human rights issues and incidents   | Number of cases of severe human rights issues and incidents connected to investee companies on a weighted average basis   |  |  |
|                                  | Lack of anti-corruption and anti-bribery policies  | Share of investments in entities without policies on anti-<br>corruption and anti-bribery consistent with the United<br>Nations Convention against Corruption   |  |  |
| Anti-<br>corruption<br>and anti- | Cases of insufficient action taken to<br>address breaches of standards of anti-<br>corruption and anti-bribery | Share of investments in investee companies with identified insufficiencies in actions taken to address breaches in procedures and standards of anti-corruption and anti-bribery   |  |  |
| bribery                          | Number of convictions and amount of fines for violation of anti-corruption and anti-bribery laws               | Numbers of convictions and amount of fines for violations of anti-corruption and anti-bribery laws by investee companies  |  |  |

# 6.6. Overview of ISO TC 322 Standards

## **Reference documents:**

• ISO/TC 322 Sustainable Finance: Scope and Supporting statement, September 2019

Final Report

• ISO/TC 322 Strategic Business Plan v1, April 2020

## Table 26: ISO TC 322 Overview table

| ISO/TC 322 SYSTEM OVERVIEW TABLE |   |  |  |  |
|----------------------------------|---|--|--|--|
| GENERAL SYSTEM DATA              |   |  |  |  |
| NAME OF ESG SYSTEM               | ISO/TC 322  |  |  |  |
| SYSTEM DEVELOPER                 | International Organization for Standardization (ISO)                                      |  |  |  |
| DEVELOPMENT STATUS               | Under development. The total programme is estimated to be completed within 4 to 8         |  |  |  |
|                                  | years.  |  |  |  |
|                                  | Standards under development:  |  |  |  |
|                                  | 1. ISO/WD 32210 Framework for sustainable finance: Principles and guidance                |  |  |  |
|                                  | 2. ISO/DTR 32220: Sustainable Finance – Glossary of key terms                             |  |  |  |
| AMENDMENT OF PRIOR               | No, but will have close cooperation with existing ISO standards: TC 68 in the field of    |  |  |  |
| VERSION OR NOT                   | financial services, TC 207 in the field of environmental management, TC 251 in the field  |  |  |  |
|                                  | of asset management and TC 309 in the field of governance of organizations.               |  |  |  |
| BRIEF DESCRIPTION                | ISO TC 322 Standards aim to standardize the field of sustainable finance integrating      |  |  |  |
|                                  | sustainability considerations (environmental, social and governance practices) with       |  |  |  |
|                                  | financing.  |  |  |  |
|                                  | Goal and content: TC 322 will look to support the alignment of the global financial       |  |  |  |
|                                  | system with sustainable development goals by 1.harmonizing understanding and              |  |  |  |
|                                  | language, initially through a terminology guide; 2.setting principles and framework       |  |  |  |
|                                  | standards applicable to the whole financial system 3.developing a set of technical        |  |  |  |
|                                  |   |  |  |  |
|                                  | Concentual Penerting Framework & Standard   |  |  |  |
| TYPE OF ESG GUIDANCE             |   |  |  |  |
|                                  | Mandatory   |  |  |  |
|                                  |   |  |  |  |
| TARGET AUDIENCE                  | Financial market participants from both the supply and demand sides, such as              |  |  |  |
|                                  | institutional and retail investors, fund managers, banks, insurers, intermediaries, funds |  |  |  |
|                                  | (investment, pension, sovereign wealth, private equity, venture capital, third party      |  |  |  |
|                                  | service providers and recipients of finance, as well as policy makers and regulators.     |  |  |  |
| GLOBAL OR REGIONAL               | Global  |  |  |  |
| ESG FOCUS                        | E,S,G   |  |  |  |
| CLIMATE-SPECIFIC                 | No  |  |  |  |
| PROJECT, OR                      | N/A   |  |  |  |
| CORPORATE                        |   |  |  |  |
| INFRASTRUCTURE-                  | No  |  |  |  |
| SPECIFIC                         |   |  |  |  |
| INFRASTRUCTURE-                  | N/A   |  |  |  |
| RELEVANT                         |   |  |  |  |
| SYSTEM STRUCTURE                 |   |  |  |  |

| NO. OF GUIDANCE          | N/A   |                                |                                     |  |
|--------------------------|---|--------------------------------|-------------------------------------|--|
| DOCUMENTS                |   |                                |                                     |  |
| MAIN STRUCTURE           | 1. Ad Hoc Group Terminology incl. ISO 32220. This technical note will serve as a glossary |                                |                                     |  |
| COMPONENTS               | for commonly used terms in sustainable finance.   |                                |                                     |  |
|                          | 2.WG1 Sustainable Fina  | nce Framework ISO 32210; E     | stablishing a Global Sustainable    |  |
|                          | Finance Principles (GSFF  | Ps) standard could consolidat  | e key elements of all existing      |  |
|                          | principles which relate t   | o green, social, sustainable o | or ESG subject matter.              |  |
|                          | 3. Technical standards o  | on sustainable finance. In add | lition to the terminology guide and |  |
|                          | the high-level GSFPs, th  | ere will be strong needs for a | a large number of technical         |  |
|                          | standards to cover impo   | ortant stages/aspects of susta | ainable financial transactions for  |  |
|                          | demonstrating and emb   | edding sustainable outcome     | s into financial activities. ISO/TC |  |
|                          | 322 will work with othe   | r ISO/TCs and external organ   | isations to establish and complete  |  |
|                          | this set of technical star  | ndards                         |                                     |  |
| ECONOMY SECTORS-         | N/A   |                                |                                     |  |
| SPECIFIC                 |   |                                |                                     |  |
| TARGET ECONOMY           | N/A   |                                |                                     |  |
| SECTORS/INDUSTRIES       |   |                                |                                     |  |
| SUSTAINABILITY TOPICS    | N/A   |                                |                                     |  |
| CATEGORIZATION OF        | <b>ENVIRONMENTAL</b>  | <u>SOCIAL</u>                  | <u>GOVERNANCE</u>                   |  |
| TOPICS AS E, S, or/and G | N/A   | N/A                            | N/A                                 |  |
| NUMBER OF                | N/A   |                                |                                     |  |
| INDICATORS               |   |                                |                                     |  |
| NUMBER OF                | N/A   |                                |                                     |  |
| INDICATORS PER           |   |                                |                                     |  |
| SECTOR                   |   |                                |                                     |  |
| NUMBER OF                | N/A   |                                |                                     |  |
| INFRASTRUCTURE-          |   |                                |                                     |  |
| RELEVANT INDICATORS      |   |                                |                                     |  |
| SYSTEM CONTENT           |   |                                |                                     |  |
| INCLUSION OF             | N/A   |                                |                                     |  |
| BENCHMARKS               |   |                                |                                     |  |
| QUANTITATIVE VS.         | N/A   |                                | N/A                                 |  |
| QUALITATIVE METRICS      |   |                                |                                     |  |
| CONNECTION TO            | N/A   |                                |                                     |  |
| PROJECT PHASES           |   |                                |                                     |  |
| CONNECTION/REFEREN       | Yes   |                                |                                     |  |

| CE TO OTHER ESG      | TC for sustainable finance will have close cooperation with TC 68 in the field of financial  |
|----------------------|--|
| SYSTEMS              | services, TC 207 in the field of environmental management, TC 251 in the field of asset management and TC 309 in the field of governance of organizations. <sup>40</sup> |
| CONNECTION TO SDGs   | N/A. However, current documents have shown ISO/TC 322's intention to contribute to   |
| (DIRECT OR INDIRECT) | SDGs with clear statements.  |
| CONNECTION TO TCFD   | N/A  |
| FRAMEWORK            |  |

## 6.7. Overview of IFRS Standards

## **Reference documents:**

- IFRS Foundation. (September 2020) Consultation Paper on Sustainability Reporting
- IFRS Foundation. (February 2021) Chairman's Report IFRS Advisory Council
- IFRS Foundation Trustees February 2021 Public Announcement

After a round of informal consultations, the IFRS Foundation identified the need for a set of Sustainability Reporting standards, consistent and globally comparable. To this end, it has been discussed that a Sustainability Standards Board (SSB) will be established to develop these standards. IFRS Foundation currently deals with financial reporting, most useful for investors and other users of financial statements. IFRS Standards are based on the concept of financial materiality. With Sustainability Reporting, the idea is to develop standards that "bring transparency, accountability and efficiency" to financial markets around the world. To begin with, these new standards would be more aligned towards climate-risk, which is increasingly becoming a form of financial risk. Given the large network IFRS Foundation already enjoys globally, deploying new sustainability standards to achieve the primary goals of international consistency and comparability would be possible. It was also discussed that at later stages, SSB might adopt a broader scope of sustainability reporting, to include the "interrelationship between environment, social and governance factors."

The IFRS Foundation's consultation on sustainability disclosure concludes that climate-related information has been prioritized for early consideration, which is why it recommends taking a "climate-first" approach.

# 7. HIGH-LEVEL MAPPING EXERCISE AND FINDINGS

Targeted combinations of the above fields of data included in the analysis tables of each system generate conclusions on the following main high-level mapping objectives:

- scope compatibility,
- tool's ease of use and compactness,

<sup>&</sup>lt;sup>40</sup> Moreover, its adoption will be enhanced by drawing on existing segmented principles established, inter alia by the Equator Principles, UNPRI, UNEP Sustainable Banking Principles, Green Investment Principles for the Belt and Road, G20 Quality Infrastructure Principles, the Green Bond Principles, the work of the Technical Expert Group on Sustainable Finance of the European Commission and in existing regulatory framework.

- comprehensiveness,
- infrastructure project relevance, and
- structure and content comparability.

### Regarding system scope compatibility

Scope compatibility is a function of the type of guidance the system represents and the ESG scope. As already mentioned the 13 reviewed systems vary in terms of the type of guidance they represent, which determines their scope, structure and content.

The systems represent the following types of guidance:

- conceptual reporting framework (that provides reporting principles or recommendations and does not prescribe indicators and metrics),
- standard (prescribes indicators and metrics),
- reporting framework and standard (that prescribes indicators and metrics based on overall principles),
- reporting guidelines, and
- ESG regulation (sets the obligations for ESG reporting compliance).

The different nature of the ESG systems, varying from conceptual frameworks to standards or regulations does not enable the same level of mapping for all cases. The mapping exercise for conceptual frameworks considers the alignment to principles or recommendations, given that they do not prescribe the specific disclosures. The mapping exercise for standards enters in greater detail comparing prescribed sustainability issues and indicators or units.

At the same time, systems have a different ESG scope, they cover different aspects of ESG and some have an intended limited focus, as exemplified in the climate-related disclosures. These systems cannot by definition be compared in equal terms with AISI, which covers environmental, social and governance. However, a targeted comparison, limited to AISI's social, or environmental or governance or climaterelated indicators and metrics could be performed on a case-by-case basis.

AISI as a reporting standard has high compatibility with those systems that are intended as standards and combined conceptual frameworks & standards, and a lower compatibility with conceptual frameworks.

| Table 27: AISI's Comparability with the other systems in terms of type of guidance and basis for |
|--|
| Systems Scope compatibility results  |

| TYPES OF GUIDANCE                          | SYSTEMS              | COMPARABILITY |
|--|----------------------|---------------|
| Standards                                  | WEF-IBC, ISO TC 322  | HIGH          |
| Combined Conceptual Frameworks & Standards | 5ISS, SASB, GRI, CDP | HIGH          |

**Final Report** 

| Reporting Frameworks  | CDSB, TCFD, IR       | LOW |
|---|----------------------|-----|
| Reporting Guidelines (with examples of key performance indicators | EU NFRD              | LOW |
| ESG Regulations   | EU Taxonomy, EU SFDR | LOW |

The Table below presents the fields of the high-level systems matrix that were accounted for determining each system's scope compatibility:

#### Table 28: Basis for Systems Scope compatibility results

| ESG SYSTEM   | TYPE OF ESG GUIDANCE  | ESG FOCUS             | CLIMATE-SPECIFIC          |  |
|--|---|-----------------------|---------------------------|--|
| AISI   | Guidance tool   | E,S,G                 | NO                        |  |
| EU<br>TAXONOMY<br>(PHASE 1)                                  | ESG Regulation<br>(classification of sustainable activities)  | E YES (phase 1)       |                           |  |
| EU SFDR  | ESG Regulation<br>sustainability disclosure obligations   | E,S (and less G)      | G) NO                     |  |
| EU NFRD  | Guidelines on non-financial reporting &<br>Supplement Guidelines on reporting climate-<br>related information | E,S                   | YES<br>(additional focus) |  |
| 5155   | Combination of Frameworks & Standards   | E, G                  | YES                       |  |
| CDP  | Standard  | E,G                   | YES                       |  |
| CDSB   | Reporting Framework   | E YES (additional for |                           |  |
| GRI  | Reporting principles & standards  | E,S,G                 | NO                        |  |
| <ir></ir>  | Guidance for integrated reporting   | E,S,G <sup>41</sup>   | NO                        |  |
| SASB   | Conceptual Framework & Standards  | E,S,G                 | NO                        |  |
| WEF-IBC Tool/ ESG Reporting Metrics and Disclosure Standards |   | E,S,G                 | NO                        |  |
| ISO TC 322   | Standards   | E,S,G                 | NO                        |  |
| IFRS   | Financial reporting standards integrating sustainability and climate change                                   | E,S,G                 | Climate-first approach    |  |
| TCFD   | Framework/ Recommendations for climate-<br>related disclosures  | E,G                   | YES                       |  |

<sup>&</sup>lt;sup>41</sup> Considering its definition of enterprise value as an overall stock of capitals: Financial Capital, Manufactured Capital, Intellectual Capital, Human Capital, Social and relationship Capital and Natural Capital.

The ESG focus column, apart from providing an overall view of each system's ESG scope, indicates which of the ESG categories of systems can be studied against AISI.

### Regarding ease of use/ compactness

The Table below presents the fields of the high-level systems matrix that were accounted for determining each system's ease of use/compactness compatibility. It is worth noting that the ease of use is also a function of the number of indicators that cover a specific sustainability topic, which will be explored as part of the detailed mapping exercise.

## Table 29: Basis for Ease of use/ compactness results

| SYSTEMS                     | No OF<br>GUIDANCE<br>DOCUMENTS              | ECONOMY<br>SECTORS-<br>SPECIFIC | NO. OF<br>SUSTAINABILITY<br>TOPICS                        | NO.OF<br>INFRASTRUCTURE<br>RELEVANT TOPICS | NUMBER OF<br>INDICATORS   | DIRECT<br>CONNECTION<br>TO SDGs          |
|-----------------------------|---|---------------------------------|---|--|---|--|
| AISI                        | 1   | NO                              | 15  | 15   | 28  | YES                                      |
| EU<br>TAXONOMY<br>(PHASE 1) | 3   | YES                             | 6   | 6  | -   | YES                                      |
| EU SFDR                     | 1   | NO                              | 13<br>(7 principal + 13<br>additional) (some<br>repeated) | 20<br>(some repeated)                      | 54<br>(16 principal &<br>38 additional)   | NO                                       |
| EU NFRD                     | 2   | NO                              | 25  | 25   | 34 examples of<br>KPIs & 12<br>examples of<br>Climate-related<br>KPIs <sup>42</sup> | NO                                       |
| 5ISS                        | N/A   | NO                              | N/A   | N/A  | N/A   |  |
| CDP                         | 4 (online<br>platform)                      | YES                             | 35 <sup>43</sup>  | 35   |   | YES                                      |
| CDSB                        | 1   | NO                              | -   | -  | -   | NO                                       |
| GRI                         | 37  | NO                              | 39  | 39   | 123   | YES however in<br>a separate<br>document |
| <ir></ir>                   | 1   | NO                              | -   | -  | -   |  |
| SASB                        | 77 (1 per<br>industry) +<br>online platform | YES                             | 26  | 24   | (varies per<br>industry)  | YES however in<br>a separate<br>document |

<sup>&</sup>lt;sup>42</sup> The 34 examples of KPIs as part of the EU Guidelines on non-financial reporting (2017) and the 12 examples as part of the Supplement on reporting Climate-related (2019)

<sup>&</sup>lt;sup>43</sup> In the case of Climate Change questionnaire 35 sub-modules

| WEF-IBC   | 1   | NO  | 18              | 18  | TOTAL: 55<br>(21 core &<br>34 expanded) | YES |
|-----------|-----|-----|-----------------|-----|---|-----|
| ISO TC322 | N/A | N/A | N/A             | N/A | N/A                                     | N/A |
| IFRS      | N/A | N/A | N/A             | N/A | N/A                                     | N/A |
| TCFD      | 4   | YES | 6 <sup>44</sup> | 6   | 11<br>recommended<br>disclosures        | NO  |

Ease of use is a stated objective of AISI reflected in a compact system manual and a not exhaustive list of performance indicators. As part of the research methodology ease of use is a function of:

- 1. the number of guidance documents that need to be used to assess performance, or on-line platform (as in the case of SASB and CDP),
- 2. the total number of performance indicators,
- 3. the number of indicators that are used to cover a specific sustainability topic, and
- 4. the direct connection with related SDGs goals and targets within the guidance document, to facilitate investors' knowledge on SDG alignment and stronger case for value creation.

## Regarding system comprehensive<sup>45</sup>

AISI does not intend to provide a comprehensive sustainable performance evaluation, but rather highlight principal impacts and risks for early guidance of investors' decision making on prioritizing projects. As part of the research, comprehensiveness is approximated as a function of:

- 1. Full ESG scope coverage and balance between the three aspects
- 2. Inclusion of all impacts and risks of infrastructure projects (and not only those considered as principal)

## Regarding infrastructure project relevance

To establish a comparable basis for mapping systems against AISI, it is important to narrow the scope of the ESG systems' indicators, or sustainability topics to those that are infrastructure project-relevant. This is specifically necessary to those systems that are economy sector/industry-specific, providing specific indicators per sector/industry. Moreover, each system has its own approach for sector and industry classification, resulting in a variation of sectors/industries considered in each system. The example of SASB accounting standards is presented in the Appendix D to explain the process of isolating only infrastructure-relevant topics.

<sup>&</sup>lt;sup>44</sup> As part of the annex that provides examples per sector

<sup>&</sup>lt;sup>45</sup> This aspect is to be further explored and is not included in the present high-level mapping.

The majority of the systems are infrastructure-relevant, therefore it is expected to be comparable to AISI. Infrastructure project relevance is further explored at the sustainability levels of (a) topic (b) indicator and (c) metric to enable detailed mapping.

### Regarding system structure and content compatibility

The systems under review are structured in different ways, determined by the type of guidance they offer. The mapping exercise is based on AISI's structure of indicators and metrics grouped under sustainability topics, so each system is analyzed if:

(1) the system prescribes specific performance indicators and if/ how are these indicators grouped in topics.

(2) the system prescribes specific performance metrics.

The "structure compatibility diagram" shown below shows the terminology and structure of each system. The diagram/table identifies compatible and therefore comparable elements in the structure of all systems. The elements of each system that can be mapped to AISI's topics, indicators and metrics are presented in the Table.

| STRUCTURE COMPATIBILITY DIAGRAM |   |                                |   |  |  |
|---------------------------------|---|--------------------------------|---|--|--|
| AISI                            |   | TOPICS                         | INDICATORS  | INDICATORS METRICS                           |  |
| EU<br>TAXONOMY<br>(PHASE 1)     |   | ENVIRONMENTA<br>L OBJECTIVES   |   | METRICS                                      |  |
| EU NFRD                         |   | MATTERS                        | EXAMPLE KPIS & CLIMA  | TE-RELATED KPIs                              |  |
| EU SFDR                         | PRINCIPAL &<br>ADDITIONAL<br>ADVERSE<br>IMPACTS | MATTERS                        | PRINCIPAL & ADDITIONAL<br>ADVERSE SUSTAINABILITY<br>IMPACT INDICATORS | METRICS (expressed<br>in market value)       |  |
| 5ISS<br>PROTOTYPE               |   | CORE ELEMENTS<br>(of TCFD)     | RECOMMENDED DI<br>(including me                                       | COMMENDED DISCLOSURES<br>(including metrics) |  |
| CDP                             | MODULES   | TOPICS                         | QUESTIONS   | RESPONSE OPTIONS                             |  |
| CDSB                            |   |                                | REPORTING REQUIREMENTS  |  |  |
| GRI                             | GRI SERIES                                      | UNIVERSAL &<br>SPECIFIC TOPICS | DISCLOSURES   | REPORTING<br>REQUIREMENTS                    |  |
| <ir></ir>                       |   | CONTENT                        | (GENERAL GUIDANCE ON  |  |  |

#### Table 30: Basis for System Structure and Content Compatibility results

|           |                               | ELEMENTS   | DISCLOSURES)                                   |                       |     |
|-----------|-------------------------------|--|--|-----------------------|-----|
| SASB      | SUSTAINABILIT<br>Y DIMENSIONS | GENERAL ISSUE<br>CATEGORIES<br>(industry agnostic) | DISCLOSURE TOPICS<br>(industry specific)       | ACCOUNTING<br>METRICS |     |
| WEF IBC   | DIMENSIONS                    | THEMES   | DISCLOSURES & METRICS                          |                       |     |
| ISO TC322 | N/A                           | N/A  | N/A  | N/A                   | N/A |
| IFRS      | N/A                           | N/A  | N/A  | N/A                   | N/A |
| TCFD      |                               | CORE ELEMENTS                                      | RECOMMENDED DISCLOSURES<br>(including metrics) |                       |     |
|           |                               | CLIMATE-RELATED<br>CATEGORIES                      | EXAMPLE ME                                     | TRICS                 |     |

Marked with gray are the equivalent –and therefore comparable– to AISI topics, indicators, and metrics, and outlines the detailed mapping exercise boundary. It is important to highlight that the detailed mappings are structured based on each system's structure compatibility, determining which information corresponds to AISI's topics, indicators, and metrics.

The table below summarizes the findings of the above high-level analysis of the 13 systems.

## Table 31: Summary of findings of the systems high-level mapping

| SYSTEMS           | SCOPE                              | СОМРАТ       | IBILITY                      | EASE OI<br>COMPAG  | OF USE/ INFRASTRU<br>ACTNESS TURE |           | STRUCTURE AND CONTENT<br>COMPATIBILITY              |                         |  |
|-------------------|------------------------------------|--------------|------------------------------|--|-----------------------------------|-----------|---|-------------------------|--|
|                   | Similar type<br>of ESG<br>guidance | E & S &<br>G | Intended<br>limited<br>focus | No. of<br>guidance<br>documents &<br>No.of<br>Indicators | Direct<br>connection<br>to SDGs   | RELEVANCE | Comparable<br>structure<br>(topics &<br>indicators) | Prescription of metrics |  |
| EU<br>Taxonomy    |                                    |              |                              | х  |                                   | х         |   | X                       |  |
| EU SFDR           |                                    | х            |                              | х  |                                   | х         | х   |                         |  |
| EU NFRD           |                                    | х            |                              | x  |                                   | х         | х   | x                       |  |
| 5ISS<br>prototype | х                                  |              | Х                            | N/A  | N/A                               | х         | х   | x                       |  |
| CDP               | х                                  |              | х                            | x  | х                                 | Х         | х   | X                       |  |

| CDSB       |   |   | х |     |     | х |     |     |
|------------|---|---|---|-----|-----|---|-----|-----|
| GRI        | Х | х |   |     | Х   | х | Х   | х   |
| <ir></ir>  |   |   |   | x   |     |   |     |     |
| SASB       | X | х |   | x   | X   | x | X   | x   |
| WEF-IBC    | х | х |   | х   | Х   | x | Х   | x   |
| ISO TC 322 | х | x |   | N/A | N/A | х | N/A | N/A |
| IFRS       |   |   |   | N/A | N/A |   | N/A | N/A |
| TCFD       |   |   | x |     |     | х |     | х   |

One of the first findings is WEF-IBC's high relevance to AISI, as compared to the other ESG systems, justifying its selection as the first system for applying the detailed mapping methodology. SASB though it covers the main objectives is industry-specific, which differentiates it from AISI.

## 8. DETAILED MAPPING EXERCISE AND FINDINGS

## 8.1. Rationale for the exclusion of some systems from the detailed mapping

**ISO TC322 & IFRS Standard - not complete tools:** A criterion for determining the detailed mapping of AISI is the availability of data on the categories set by the system matrix and the analysis in sections 6.6.& 6.7. Two systems, the ISO TC322 Standards and the IFRS Standards do not allow a complete mapping because of lack of information. The two systems are under development with a long horizon for their completion and the up-to-date published information does not provide a clear definition on the categories of the present mapping methodology. Therefore the two systems were not included in the mapping exercise.

**5ISS Sustainability-related Framework & Standard:** The 'group of five' sustainability-related Framework & Standard does not have a final definitive form yet, and only the overall framework has been outlined in the published statement of intent in the illustrated prototype paper. The climate-related prototype of the Standard has been documented in more detail, including implementation guidance. However, it has been built upon the structure of the TCFD framework and disclosure recommendations and it has similar content to the supplementary guidance of TCFD (the example metrics). This overlap is justified since TCFD was built upon CDSB, CDP, GRI and SASB to develop its supplementary implementation guidance. More specifically, TCFD presents how its recommended disclosures are covered by CDP, GRI and CDSB and provides example metrics for non-financial sectors based on the CDP, GRI and SASB metrics.

Therefore and given that an AISI mapping against the 5ISS would not provide any additional insight than that of AISI's against TCFD, the focus was given to the individual systems that form the group of five, as

the 5ISS will build upon these existing systems. Two out of the five systems were selected for detailed mapping, GRI and SASB to provide further useful insight on a sustainability-related financial disclosure standard.

- GRI and SASB, along with CDP, are the only Standards within the 'group of five.' CDP was not selected for a detailed mapping due to its more narrow ESG focus and its climate change specificity. Moreover, its comprehensiveness in the specific topic of climate was considered not to allow comparability.
- The Sustainability-related prototype that has been announced by the group of five is expected to build upon GRI and SASB standards to implement its proposed framework.
- SASB & GRI are two of the most widely used standards, often used together by organizations.
- Both systems have a comparable structure and ESG focus to AISI.
- Finally, the two systems offer a different perspective of approach to materiality, allowing useful insights on AISI and its position to materiality.

EU Taxonomy - not an ESG reporting regulation. As already mentioned, the potential alignment of AISI with mandatory ESG reporting rules is one of the objectives of the mapping exercise, because of the important role regulations are expected to play in a changing ESG landscape. However, exploring AISI's alignment with the Taxonomy is not a valid exercise. The EU Taxonomy is a classification system of environmentally sustainable economic activities and not a standalone reporting rule or system. It sets screening criteria and Paris-aligned thresholds that activities have to comply with to be considered as environmentally sustainable, or 'Taxonomy-aligned'. The completed phase 1 tests activities for their contribution to climate change mitigation and adaptation and companies that fall within the scope of the NFRD have to report if they are Taxonomy-aligned. How and to what extent this information has to be disclosed is part of the NFRD and SFDR area of action. Though, as already commented the two rules are still in process of revision to align with the Taxonomy and the EU Sustainable Finance Action plan, they have included considerations of Taxonomy alignment, NFRD as part of its Supplemental guidance on climate-related disclosures in 2019 with new KPIs and SFRD in the recommendations for draft Regulatory Technical Standards,<sup>46</sup> both considered in the corresponding mappings. AISI against these regulatory reporting rules is feasible due to structural compatibility, taking advantage of example indicators these regulations have listed. Given that both systems are undergoing revision, this alignment can only be explored based on the provisional (up-to-date) form of the NFRD and SFDR.

<sup>&</sup>lt;sup>46</sup> For example, in the draft RTS in addition to disclosing how the financial market participant has taken into account the indicators for adverse impact, the DNSH reporting must also show whether the investments are aligned with the OECD Guidelines for Multinational Enterprises and the UN Guiding Principles on Business and Human Rights, including the principles and rights set out in the eight fundamental conventions identified in the Declaration of the International Labour Organisation on Fundamental Principles and Rights at Work and the International Bill of Human Rights. The objective of this provision is to bring the DNSH disclosures under SFDR in line with the minimum safeguards in Article 18 of Regulation (EU) 2020/852 on the establishment of a framework to facilitate sustainable investment (hereinafter "the Taxonomy Regulation").

# Table 32: Overview of the mappings performed

|     | Overview of the mappings performed |                     |   |  |  |
|-----|------------------------------------|---------------------|---|--|--|
|     | ESG<br>SYSTEM                      | DETAILED<br>MAPPING | NOTES   |  |  |
| 1   | WEF-IBC                            | х                   | Structural compatibility (themes- disclosures & metrics) allows for:<br>- Indicator-level mapping<br>- SDG mapping  |  |  |
| 2   | 5155                               | NO MAPPING          | climate-related disclosures like TCFD mapping)?   |  |  |
| 2.1 | GRI                                | х                   | Structural compatibility (topics - disclosures) allows for:<br>- Indicator-level mapping<br>- SDG mapping   |  |  |
| 2.2 | SASB                               | X                   | <ul> <li>Structural compatibility (general issue categories/ disclosure topics - accounting metrics) allows for: <ul> <li>Indicator-level mapping.</li> <li>SDG mapping not performed.</li> </ul> </li> <li>Note: SASB is industry-specific therefore prior to the mapping a selection based on infrastructure relevance was performed.</li> </ul>  |  |  |
| 2.3 | CDP                                | NO MAPPING          | No detailed mapping because of CDP'S narrower scope and at the same time comprehensiveness in its specific topic (climate)  |  |  |
| 2.4 | CDSB                               | NO MAPPING          | No detailed mapping against framework is possible   |  |  |
| 2.5 | IR                                 | NO MAPPING          | No detailed mapping against framework is possible   |  |  |
| 3   | TCFD                               | X                   | <ul> <li>Even though TCFD is a framework, TCFD alignment is critical for new standards as shown by current trends. Moreover, the supplemental implementation guidance provides example metrics that enable:</li> <li>Disclosure-level mapping</li> <li>Indicator-level mapping</li> <li>However, TCFD has a climate-specific focus therefore the detailed mapping is only against AISI's climate-related indicators.</li> </ul> |  |  |
| 4.1 | EU NFRD                            | Х                   | NFRD alignment is critical for new standards. Structural compatibility allows for:<br>- Indicator-level mapping   |  |  |
| 4.2 | EU<br>TAXONOMY                     | NO MAPPING          | Taxonomy is not a standalone reporting rule but rather a classification system that provides thresholds. Alignment with the Taxonomy regulation is not possible since AISI does not provide performance thresholds. Moreover, reporting on taxonomy-alignment which is a requirement for investors is integrated in NFRD and SFDR in the form of indicators.  |  |  |
| 4.3 | EU SFDR                            | Х                   | SFDR Alignment in terms of inclusion of recommended KPI and metrics   |  |  |
| 5   | ISO TC322                          | NO MAPPING          | not available information   |  |  |
| 6   | IFRS                               | NO MAPPING          | not available information   |  |  |

## 8.2. Detailed mapping methodology

Following the high-level mapping, the detailed mapping objectives for the comparisons between AISI and each compared system are the following:

- a. investigate the structural alignment between AISI and the compared systems, considering their level of relevance with the E,S,G aspects
- b. compare and assess how and in what degree they address the SDGs.
- c. reveal the level of alignment between AISI's indicators and the respective indicators of each mapped system.
- d. highlight omitted or additional information in AISI's content.

For the detailed mapping exercise, two different methodologies were applied based on the level of comparability of compared systems against AISI. The three Standards WEF, SASB and GRI, which are highly comparable to AISI, were mapped against AISI according to the same methodology. A different methodology was used for the mapping of the rest of the systems (TCFD, EUNFRD, EU SFDR) with low comparability (frameworks, guidelines, regulations respectively).

| SYSTEMS | TYPE OF GUIDANCE  | COMPARABILITY |
|---------|---|---------------|
| WEF-IBC | Standard  | HIGH          |
| SASB,   | Combined Conceptual Frameworks & Standards                        | HIGH          |
| GRI     | Combined Conceptual Frameworks & Standards                        | HIGH          |
| TCFD,   | Reporting Framework   | LOW           |
| EU NFRD | Reporting Guidelines (with examples of key performance indicators | LOW           |
| EU SFDR | ESG Regulations   | LOW           |

## Table 33: Selected systems type and comparability level

For both methodologies, it was important to identify the comparable structural elements of each system in relation to the structure of AISI's content. This identification was based on the "structural compatibility table,"<sup>47</sup> which classifies compatible and therefore comparable elements of the ESG systems. As shown below, the elements of each system that can be mapped to AISI's topics, indicators and metrics are presented in the respective columns of the table.

## Table 34: Selected systems structure compatibility diagram

<sup>&</sup>lt;sup>47</sup> See Chapter 7: High-level mapping exercise and findings

| STRUCTURE COMPATIBILITY |                              |  |  |   |                 |  |
|-------------------------|------------------------------|--|--|---|-----------------|--|
| AISI                    |                              | TOPICS   | INDICATORS   | METRICS                                   |                 |  |
| WEF IBC                 | DIMENSIONS                   | THEMES   | DISCLOSURES  | & METRICS                                 |                 |  |
| GRI                     | GRI SERIES                   | UNIVERSAL &<br>SPECIFIC TOPICS                     | DISCLOSURES  | DISCLOSURES REPORTING<br>REQUIREMENTS     |                 |  |
| SASB                    | SUSTAINABILITY<br>DIMENSIONS | GENERAL ISSUE<br>CATEGORIES<br>(industry agnostic) | DISCLOSURE<br>TOPICS (industry<br>specific)                                    | ACCOUNTING<br>METRICS                     |                 |  |
| TCFD                    |                              | CORE ELEMENTS                                      | RECOMMENDED DISCLOSURES<br>(including metrics)                                 |   |                 |  |
|                         |                              | CLIMATE-RELATED<br>CATEGORIES                      | EXAMPLE METRICS  |   |                 |  |
| EU NFRD                 |                              | MATTERS  | EXAMPLE KPIS & CLIMATE-RELATED<br>KPIS   |   |                 |  |
| EU SFDR                 |                              | MATTERS  | PRINCIPAL &<br>ADDITIONAL<br>ADVERSE<br>SUSTAINABILITY<br>IMPACT<br>INDICATORS | METRICS<br>(expressed in<br>market value) |                 |  |
| EU<br>TAXONOMY          |                              | ENVIRONMENTAL<br>OBJECTIVES                        |  | METRICS                                   | &<br>THRESHOLDS |  |

Marked with gray are the equivalent –and therefore comparable– to AISI topics, indicators, and metrics, and outlines the detailed mapping exercise boundary.

#### Methodology for Standards detailed mapping

To address the aforementioned mapping objectives, it was decided to initially develop a detailed mapping methodology for the most comparable to AISI system among the three standards. This methodology would then properly be adjusted according to each Standard's singular features and degree of comparability to AISI, to become applicable for all Standards' detailed mapping against AISI.

The interpretation of the high-level mapping results (see Table 31) indicates that the system of the World Economic Forum's (WEF) and International Business Council's (IBC)'s "ESG Reporting Metrics and Disclosure Standards" was closer to AISI, allowing the detailed mapping methodology to its full extent. It was selected for the initial "prototype" mapping because:

Final Report

- it is a completed tool,
- has a comparable structure,
- it is a cross-industry tool (not industry-specific)
- it prescribes specific metrics to measure performance,
- it has not an exhaustive list of indicators,
- it is easy to use, one-guidance document tool,
- it covers all ESG aspects, and
- it demonstrates alignment to SDGs within the guidance document.

According to the methodology that was applied for WEF's mapping against AISI, several individual mappings and comparisons were performed to draw conclusions on the aforementioned mapping objectives. These are shown in the following table:

#### Table 35: Objectives of individual performed mappings

| Mappings performed      | Objectives of detailed mapping exercise for Standards                      |
|-------------------------|--|
| E,S,G mapping           | Investigate the structural alignment, considering their level of relevance |
|                         | with the E,S,G aspects   |
| SDG-based mapping       | Compare and assess how and to what degree they address the SDGs            |
| Indicator-based mapping | Reveal the level of alignment between AISI's content and the compared      |
|                         | systems  |
|                         | Highlight omitted or additional information in AISI's content              |

After performing the initial detailed mapping of WEF against AISI, it was observed that the developed methodology was applicable for all the ESG systems based on Standards (WEF, GRI, SASB).

The individual mapping performed between WEF and AISI is described below and represents the methodology for the mapping of GRI and SASB as well.

#### E,S,G mapping:

Initially, the two systems were compared in terms of their structural alignment by **mapping the topics of WEF against AISI's themes**. Each system's topics were classified according to the ESG areas. For AISI's indicators classification, the meaning and scope of indicators were considered. This mapping revealed basic similarities and differences on how the two systems' topics and themes address the E,S,G.

Next, the two systems were compared on the **E,S,G** across their number of indicators, based on **each system's analysis**. This comparison showed the percentage of indicators addressing each of the E,S,G to assess to what degree these areas are addressed by each system. Furthermore, the type of indicator was introduced as information to observe the balance between process-based and quantitative indicators per E,S,G area for both systems.

#### SDG-based mapping

#### PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

To address how each system relates to the SDGs, we proceeded with the mapping at the Sustainability Topics Level. The topics of AISI and the themes of WEF were thereupon mapped against each SDG (SDG-based mapping).

#### Indicator- based mapping

After the comparison and mapping based on the ESG and the SDGs, the mapping continued with the indicator-based mapping. The aim was to assess the degree of relevance between the two systems in terms of content and to highlight omitted or additional information in AISI's content. So, the mapping was based on the structure of AISI's topics and indicators. The contents of WEF (topics and metrics/disclosures) are reorganized following AISI's structure to reveal similarities, differences and highlight omissions.

The indicator-based mapping of the standards revealed several types of relevance between AISI indicators and the linked indicators of each system. These types were classified under five alignment levels as described below:

- FULL COVERAGE
- HIGH COVERAGE
- PARTIAL COVERAGE
- LOW COVERAGE
- NO COVERAGE

## Table 36: Alignment levels considerations and assumptions for standards detailed mapping

| LEVEL   | DESCRIPTION                                | CASES OF RELEVANCE  |
|---------|--|---|
| 1. FULL | A full coverage of an AISI's indicator is  |   |
|         | observed when its scope is covered by      |   |
|         | one indicator of the mapped standard,      |   |
|         | regardless of the total number of the      |   |
|         | standard's metrics and disclosures linked  |   |
|         | to it (based on their common scope). In    |   |
|         | such a case, the full alignment becomes    |   |
|         | more evident with a slight adjustment of   |   |
|         | the mapped system's disclosures/           |   |
|         | metrics narratives to be applicable in     |   |
|         | infrastructure projects.                   |   |
|         |  |   |
| 2. HIGH | An AISI indicator is highly covered by the | 2a) AISI indicator has a wider scope than the mapped        |
|         | mapped standard when the indicator is      | standard's group:   |
|         | related to and covered to a high degree    | The case where AISI's indicator is covered by multiple      |
|         | by a group of the standard's indicators,   | indicators due to its broader scope compared to each one    |
|         | considering its scope and its required     | of them. The high correlation between the indicator and the |
|         | evidence (based on AISI's respective       | group of the mapped system's indicators is more evident     |

|               | description content). Two cases of high coverage are identified after the detailed mapping:  | when WEF's indicators narratives are properly customized to be applied in infrastructure projects  |
|---------------|--|--|
|               |  | 2b) AISI indicator has an extensive list of evidence (more comprehensive type of indicator):<br>The case where <u>AISI's indicator is covered by multiple</u> indicators of the mapped standard due to its extensive list of required evidence (in the "description" paragraph of <u>AISI's indicator</u> ). It is probable that due to their broader scope, the linked indicators of the mapped standard may also be linked to other AISI indicators. This explains why some of the standards' indicators appear linked to more than one AISI indicators. |
| 3.<br>PARTIAL | An AISI indicator is partly covered by the<br>standard when the indicator is related<br>to but not adequately covered by one<br>or more of the mapped standard's<br>indicators, considering its scope and its<br>required evidence (based on AISI's<br>respective description content). Three<br>cases of high coverage are identified | <ul> <li>3a) AISI indicator has a wider scope than mapped standard's group</li> <li>When AISI's indicator is related to a group of mapped standard's indicators, considering its scope and its required evidence (based on AISI's respective description content). However, due to its wider scope, the indicator is not adequately covered by the mapped standard's group of linked indicators.</li> </ul>  |
|               | after the detailed mapping:  | <b>3b) the standard's indicators have a wider scope than AISI's indicator</b><br>When AISI indicator is related to <b>one or more of the mapped standard's indicators</b> based on their similar scope and is <b>partly</b> covered by one or more of them <u>due to their</u> <u>wider scope</u> and/or has a different approach or methodology in addressing the issue. In this case the standard may include additional metrics/disclosures to address the indicator (which are not mentioned in AISI)  |
|               |  | <b>3c) One-to one incompatibility</b><br>When the AISI indicator is partially covered by <b>one indicator</b><br><b>of the mapped standard.</b> In this case, it cannot be highly<br>covered because <u>the standard either has a broader scope</u> or<br><u>it cannot be directly applied to an infrastructure project.</u> It<br>is probable that due to its broader scope, the linked<br>indicator of the standard may also be linked to other AISI<br>indicators.  |
| 4. LOW        | An AISI indicator can be related to a group of the mapped standard's indicators only because they address the  |  |

|         | same sustainability theme. They cannot   |  |
|---------|--|--|
|         | be directly comparable due to different  |  |
|         | focus of systems (project focus vs.      |  |
|         | company focus).                          |  |
| 5. NONE | There is no indicator in the standard to |  |
|         | relate to AISI's indicator               |  |

## Methodology of detailed mapping for Frameworks and Regulations<sup>48</sup>

The detailed mapping of the Frameworks and Guidelines followed the opposite direction, i.e., mapping of AISI's content against the Frameworks and Regulation's structure. This enabled an assessment of the degree that AISI addresses and covers obligatory or highly recognized guidelines included in the compared systems.

The individual mappings that were performed for Standards were not all applicable for Frameworks and Regulations and as a result the mapping included in this methodology was the indicator-based mapping.

The following table presents the overall applicability of individual mappings:

Table 37: Overall applicability of individual mappings

|             |            | DETAILED MAPPINGS APPLICABILITY |                |                                |  |  |
|-------------|------------|---------------------------------|----------------|--------------------------------|--|--|
|             |            | E,S,G<br>MAPPING                | SDG<br>MAPPING | INDICATOR-<br>BASED<br>MAPPING |  |  |
|             | WEF-IBC    | х                               | х              | х                              |  |  |
| STANDARDS   | GRI        | х                               | х              | X                              |  |  |
|             | SASB       | x                               |                | X                              |  |  |
| ERAMEWORKS  | TCFD       |                                 |                | X                              |  |  |
|             | EU<br>NFRD |                                 |                | x                              |  |  |
| REGULATIONS | EU SFDR    |                                 |                | X                              |  |  |

The degree of the Frameworks and Regulations content coverage by AISI is expressed by the following three levels of alignment:

#### Table 38: Levels of alignment of AISI with Frameworks and Regulations

| LEVEL   | DESCRIPTION   |
|---------|---|
| 1. HIGH | High alignment is observed when the framework/regulation recommended disclosure or metric are fully |

<sup>&</sup>lt;sup>48</sup> The Frameworks, Guidelines and Regulations systems included in the detailed mapping will be from now on referred to as "Frameworks and Regulations" in this chapter.

2.

addressed and covered by one or more indicators/metrics of AISI. In some cases, high alignment is considered even when the mapped indicators are not expressed in identical metric units, however the metric provided by AISI can further be elaborated by the user and translated into the required metric. Partial alignment is observed when not all details from the guidance description of the framework/ PARTIAL regulations's recommended disclosures or metrics are required by AISI's linked indicators/metrics

**3. NONE** No alignment is observed when a disclosure/ metric of the framework/regulation is not addressed by any of AISI's indicators

## 8.3. AISI-WEF IBC detailed mapping findings

#### **Structure Compatibility**

| AISI    |            | TOPICS | INDICATORS  | METRICS   |
|---------|------------|--------|-------------|-----------|
| WEF IBC | DIMENSIONS | THEMES | DISCLOSURES | & METRICS |

### Systems structure relevance with respect to E,S,G

Each of WEF's themes are by default associated to ESG areas (according to the pillar they belong to) except for those under the pillar "PROSPERITY". For the needs of the mapping exercise, these themes and corresponding indicators have been considered to address the social (S) aspects of E,S,G. As for AISI's topics, the assigned E,S,G correspond to their respective indicators meaning and scope. It should be noted here that in WEF's framework, themes and metrics/disclosures related to stakeholder engagement are by default included in the governance aspect (G), whereas in AISI, the relevant indicators have been considered to address the social aspect (S) of E,S,G. This mapping revealed basic similarities and differences on how the two systems' topics and themes address the E,S,G.

The table below shows the result of the AISI Topics/ WEF IBC Themes mapping. As shown in the table, all environmental topics of WEF are linked directly to environmental themes of AISI. The governance topics of AISI are mainly covered by governance themes of WEF, with some exceptions of Social themes linked to them. The "Procurement" Process does not appear to be addressed by any of WEF's themes and therefore is not linked to any of each theme. The social topics of AISI are linked to a combination of social and governance themes of WEF.

#### Table 39: AISI -WEF Themes and topics mapping with respect to E,S,G

| AISI | WEF |
|------|-----|
|      |     |

## Final Report

| SUSTAINABILITY TOPICS             | THEMES                           |  |  |  |
|-----------------------------------|----------------------------------|--|--|--|
| Option Assessment                 | Governing purpose                |  |  |  |
|                                   | Risk and opportunity oversight   |  |  |  |
| Project Sustainability Management | Quality of governing body        |  |  |  |
|                                   | Risk and opportunity oversight   |  |  |  |
|                                   | Governing purpose                |  |  |  |
| Gender                            | Dignity and equality             |  |  |  |
|                                   | Quality of governing body        |  |  |  |
| Resilience                        | Risk and opportunity oversight   |  |  |  |
|                                   | Climate change                   |  |  |  |
|                                   | Risk and opportunity oversight   |  |  |  |
| Stakeholder Engagement            | Quality of governing body        |  |  |  |
|                                   | Stakeholder engagement           |  |  |  |
| Water                             | Freshwater availability          |  |  |  |
| Energy / GHG                      | Climate change                   |  |  |  |
| Materials lifecycle approach      | Resource availability            |  |  |  |
|                                   | Solid waste                      |  |  |  |
| Air Quality                       | Air pollution                    |  |  |  |
| Biodiversity                      | Nature loss                      |  |  |  |
| Sustainability Management System  | Dignity and equality             |  |  |  |
| Anti-corruption                   | Ethical behaviour                |  |  |  |
|                                   | Community and social vitality    |  |  |  |
| Project Procurement               | N/A                              |  |  |  |
| Working Conditions                | Dignity and equality             |  |  |  |
|                                   | Health and well-being            |  |  |  |
|                                   | Employment and wealth generation |  |  |  |
| Service Affordability             | N/A                              |  |  |  |

ENVIRONMENTAL

SOCIAL

GOVERNANCE

Table 40: AISI -WEF Indicators per E,S,G aspect

|                          | AISI             |                 | WEF              |                 |  |
|--------------------------|------------------|-----------------|------------------|-----------------|--|
| E,S,G aspects            | No of Indicators | % of Indicators | No of Indicators | % of Indicators |  |
| ENVIRONMENTAL INDICATORS | 10               | 36%             | 16               | 29%             |  |
| SOCIAL INDICATORS        | 12               | 43%             | 27               | 49%             |  |
| GOVERNANCE INDICATORS    | 6                | 21%             | 12               | 22%             |  |
| TOTAL                    | 28               |                 | 55               |                 |  |

As shown in the above table, the proportion of indicators addressing ESG themes is similar in both frameworks. Most indicators address social aspects (43% for AISI and 49% for WEF). The second area of E,S,G addressed with a high number of indicators for both systems is the E area of ESG (with 36% of AISI's indicators and 29% of WEF's). The Governance aspects are addressed through fewer indicators for both systems (21% for AISI, 22% for WEF).

#### Table 41: Indicator type per E,S,G (AISI)

| AISI                     |                     |                    |                    |                   |  |  |  |
|--------------------------|---------------------|--------------------|--------------------|-------------------|--|--|--|
|                          | No of process-based | No of quantitative | % of process-based | % of quantitative |  |  |  |
| ENVIRONMENTAL INDICATORS | 2                   | 7                  | 22%                | 78%               |  |  |  |
| SOCIAL INDICATORS        | 7                   | 5                  | 58%                | 42%               |  |  |  |
| GOVERNANCE INDICATORS    | 6                   | 1                  | 86%                | 14%               |  |  |  |
| TOTAL                    | 15                  | 13                 | 54%                | 46%               |  |  |  |

## Table 42: Indicator type per E,S,G (WEF)

| WEF                      |                         |                       |      |  |                        |                      |             |
|--------------------------|-------------------------|-----------------------|------|--|------------------------|----------------------|-------------|
|                          | No of process-<br>based | No of<br>quantitative | both |  | % of process-<br>based | % of<br>quantitative | % of "both" |
| ENVIRONMENTAL INDICATORS | 5                       | 9                     | 2    |  | 31%                    | 56%                  | 13%         |
| SOCIAL INDICATORS        | 3                       | 19                    | 5    |  | 11%                    | 70%                  | 19%         |
| GOVERNANCE INDICATORS    | 10                      | 1                     | 1    |  | 83%                    | 8%                   | 8%          |
| TOTAL                    | 18                      | 29                    | 8    |  | 33%                    | 53%                  | 15%         |

Main observations regarding the balance of quantitative vs process-based indicators per E,S,G:

- AISI's majority of indicators are process-based (54%) whereas WEF's majority of indicators are quantitative (53% plus a part of the indicators under the "both" type "both"),
- in the environmental category both systems have more quantitative indicators,

**Final Report** 

- in the Social category, AISI has more process-based indicators, whereas WEF has more quantitative indicators,
- In the Governance category AISI has only one quantitative indicator (related to cybersecurity) whereas WEF has 2 (1 is part of the "both" type).

### **SDG-based mapping results**

Although AISI's indicators have a direct connection to several SDGs, WEF does not present a direct connection at the level of indicators. It rather mentions which SDGs are addressed by a group of topics that belong to one pillar. In order to investigate in more detail the way SDGs are addressed by each system, it was decided to do the mapping at the Sustainability Topics Level.

#### Table 43: AISI -WEF SDG - Based Mapping results

|      | SDG's  | AISI TOPICS              | WEF THEMES                                 |
|------|--|--------------------------|--|
| SDG1 | Goal 1. End poverty in all its forms   | Stakeholder Engagement   | Dignity and equality                       |
| 3001 | everywhere   |                          | Employment and wealth generation           |
| SDG2 | Goal 2. End hunger, achieve food<br>security and improved nutrition and<br>promote sustainable agriculture         | N/A                      | N/A  |
|      |  | Stakeholder Engagement   | Health and well-being                      |
| SDG3 | Goal 3. Ensure healthy lives and   | Air Quality              |  |
|      | promote weil-being for an at an ages   | Biodiversity             |  |
| SDG4 | Goal 4. Ensure inclusive and equitable<br>quality education and promote<br>lifelong learning opportunities for all | Biodiversity             | Skills for the future                      |
| SDG5 | Goal 5. Achieve gender equality and empower all women and girls  | Gender                   | Dignity and equality                       |
|      | Goal 6. Ensure availability and  | Option Assessment        | Freshwater availability                    |
| SDG6 | sustainable management of water and  | Water                    | Water pollution                            |
|      | sanitation for all   | Biodiversity             |  |
|      | Goal 7. Ensure access to affordable,   | Air Quality              | Climate change                             |
| SDG7 | reliable, sustainable and modern energy for all  | Energy / GHG             | Resource availability                      |
| SDG8 | Goal 8. Promote sustained, inclusive and sustainable economic growth, full   | Sustainable Supply Chain | Dignity and equality                       |
|      | and productive employment and decent work for all  | Working Conditions       | Employment and wealth generation           |
|      | Goal 9. Build resilient infrastructure, promote inclusive and sustainable  | Option Assessment        | Innovation of better products and services |
|      | industrialization and foster innovation  | Resilience               |  |
| SDG9 |  | Energy / GHG             |  |
|      |  | Project Procurement      |  |
|      |  | Service Affordability    |  |

**Final Report** 

|        | Goal 10. Reduce inequality within and    | Stakeholder Engagement       | Dignity and equality           |  |
|--------|--|------------------------------|--------------------------------|--|
| SDG10  | among countries                          | Anti-corruption              | Community and social vitality  |  |
|        |  | Working Conditions           |                                |  |
|        | Goal 11. Make cities and human           | Resilience                   |                                |  |
|        | settlements inclusive, safe, resilient   | Stakeholder Engagement       |                                |  |
| 60011  |  | Materials lifecycle approach |                                |  |
| SDG11  |  | Air Quality                  | N/A                            |  |
|        |  | Biodiversity                 |                                |  |
|        |  | Project procurement          |                                |  |
|        | Goal 12. Ensure sustainable              | Materials lifecycle approach | Governing purpose              |  |
|        | consumption and production patterns      | Sustainable Supply chain     | Risk and opportunity oversight |  |
| 00.040 |  | Project procurement          | Climate change                 |  |
| SDG12  |  |                              | Nature loss                    |  |
|        |  |                              | Solid waste                    |  |
|        |  |                              | Resource availability          |  |
|        | Goal 13. Take urgent action to combat    | Resilience                   | Climate change                 |  |
| SDG13  | climate change and its impacts           | Energy / GHG                 | Air pollution                  |  |
| -      |  | Materials lifecycle approach | Solid waste                    |  |
|        | Goal 14. Conserve and sustainably use    | Water pollution              | Water pollution                |  |
| SDG14  | the oceans, seas and marine resources    | Materials lifecycle approach |                                |  |
|        | for sustainable development              | Ecosystem and land use       |                                |  |
|        | Goal 15. Protect, restore and promote    | Biodiversity                 | Nature loss                    |  |
|        | sustainable use of terrestrial           |                              |                                |  |
| SDG15  | forests, compatidesertification, and     |                              |                                |  |
|        | halt and reverse land degradation and    |                              |                                |  |
|        | halt biodiversity loss                   |                              |                                |  |
|        | Goal 16. Promote peaceful and            | Stakeholder Engagement       | Quality of governing body      |  |
|        | inclusive societies for sustainable      | Anti-corruption              | Ethical behaviour              |  |
| SDG16  | development, provide access to justice   |                              |                                |  |
|        | and inclusive institutions at all levels |                              |                                |  |
|        | Goal 17. Strengthen the means of         | Stakeholder Engagement       | Governing purpose              |  |
| SDG17  | implementation and revitalize the        | Sustainable Supply chain     | Stakeholder engagement         |  |
|        | Global Partnership for Sustainable       |                              | Risk and opportunity oversight |  |
|        | Development                              |                              |                                |  |

The above table shows that SDG 2 is not covered by any of the systems, while SDG 11 is not covered by WEF.

## Indicator-based mapping results

The following table shows the specific links between AISI's indicators (accompanied with metrics) and WEF's metrics/disclosures.

# Table 44: Mapping of WEF IBC's metrics/disclosures against AISI

|                              | AISI                            |   |                |                                      | WEF  |
|------------------------------|---------------------------------|---|----------------|--------------------------------------|--|
| TOPICS                       | INDICATORS                      | METRIC  |                | THEMES                               | METRICS AND<br>DISCLOSURES   |
| Option<br>Assessment         | Strategic options<br>assessment | Existence of a strategic options assessment                       |                | Governing purpose                    | Setting purpose  |
|                              |                                 | N/A   |                |                                      | Purpose-led management   |
|                              |                                 | N/A   |                | Risk and<br>opportunity<br>oversight | Integrating risk and opportunity into business process   |
|                              |                                 | N/A   |                |                                      | Economic, environmental and social topics in capital allocation framework                      |
| Project                      | Sustainability management       | Implementation of a   |                | Quality of governing                 | Governance body composition  |
| Sustainability<br>Management | system                          | sustainable management<br>system and reporting                    |                | body                                 | Progress against strategic<br>milestones   |
|                              |                                 |   | Ri<br>or<br>ov | Risk and<br>opportunity<br>oversight | Integrating risk and opportunity into business process   |
|                              |                                 |   |                |                                      | Economic, environmental and social topics in capital allocation framework                      |
|                              |                                 |   |                | Governing purpose                    | Purpose-led management   |
| Gender                       | Gender equality,                | Existence and   |                | Dignity and equality                 | Diversity and inclusion (%)  |
|                              | inclusiveness and empowerment   | Implementation of a<br>comprehensive gender<br>action plan (GAP). |                |                                      | Pay equality (%)   |
|                              |                                 |   |                |                                      | Wage level (%)   |
|                              |                                 |   |                |                                      | Pay gap (%, #)   |
|                              |                                 |   |                |                                      | Discrimination and harassment<br>incidents (#) and the total<br>amount of monetary losses (\$) |
|                              |                                 |   |                | Quality of governing<br>body         | Governance body composition  |
| Resilience                   | Climate Risk Resilience         | Implementation of a<br>climate risk adaptation<br>plan            |                | Risk and<br>opportunity<br>oversight | Integrating risk and<br>opportunity into business<br>process                                   |

|                           |   |  | - |                                      |   |
|---------------------------|---|--|---|--------------------------------------|---|
|                           |   |  |   |                                      | Economic, environmental and social topics in capital allocation framework |
|                           |   |  |   | Climate change                       | TCFD Implementation   |
|                           | Cybersecurity resilience                    | Number of system<br>vulnerabilities identified<br>affecting infrastructure's<br>critical assets or processes |   | Risk and<br>opportunity<br>oversight | Integrating risk and<br>opportunity into business<br>process              |
| Stakeholder<br>Engagement | Stakeholder engagement<br>plan              | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and                             |   | Quality of governing<br>body         | Governance body composition   |
|                           |   | plan.  |   | Stakeholder<br>engagement            | Material issues impacting stakeholders                                    |
|                           | Free, Prior and Informed<br>Consent (FPIC)  | Obtaining of Free, Prior<br>and Informed Consent<br>(FPIC)   |   |                                      |   |
|                           | Involuntary Resettlement                    | People involuntarily<br>displaced by the project   |   |                                      |   |
|                           | Heritage assessment                         | Existence of adequate<br>cultural heritage<br>protection measures  |   |                                      |   |
|                           | Public health and safety management plan    | Implementation of a<br>public health and safety<br>management plan   |   |                                      |   |
| Water                     | Freshwater withdrawal                       | Annual volume of fresh<br>water used by the<br>infrastructure project  |   | Freshwater<br>availability           | Water consumption and withdrawal in water-stressed areas                  |
|                           |   | N/A  |   |                                      | Impact of freshwater consumption and withdrawal                           |
| Energy / GHG              | GHG emissions<br>(construction & operation) | Volume of Greenhouse<br>gas emissions emitted by<br>the project  |   | Climate change                       | Greenhouse gas (GHG)<br>emissions   |
|                           |   | N/A  |   |                                      | TCFD Implementation   |
|                           |   | N/A  |   |                                      | Paris-aligned GHG emissions<br>targets                                    |
|                           |   | N/A  |   |                                      | Impact of GHG emissions   |
|                           | Efficient use of energy                     | Amount of energy consumed by the project   |   | N/A                                  | N/A   |

| Materials<br>lifecycle       | Materials         Materials lifecycle thinking         Consideration of materials         I           ifecycle         lifecycle impacts         limpacts         limpacts         lifec |   | Resource availability | Resource circularity  |
|------------------------------|--|---|-----------------------|---|
| approach                     | Reduction of Waste   | Percentage of total waste<br>diverted from incineration<br>and landfills  |                       |   |
|                              |  | N/A   | Solid waste           | Single-use plastics   |
|                              |  | N/A   |                       | Impact of solid waste disposal                                      |
| Air Quality                  | Fine particulate matter emission   | Mean PM2.5 and PM10<br>emissions  | Air pollution         | Air pollution   |
|                              |  | N/A   |                       | Impact of air pollution   |
| Biodiversity                 | Threatened species   | Number of Aquatic and<br>Terrestrial Species<br>Impacted (Fauna and<br>Flora)   | Nature loss           | Land use and ecological sensitivity                                 |
|                              |  | N/A   | Nature loss           | Land use and ecological sensitivity                                 |
|                              | Watershed Management   | Existence of an Integrated<br>Watershed Assessment<br>and Management<br>Program                                       | N/A                   | N/A   |
|                              | Previously Disturbed Land  | Percentage of land used<br>by the project that has<br>been previously disturbed<br>or maintained as non-<br>disturbed | Nature loss           | Impact of land use and conversion                                   |
| Sustainability<br>Management | Project supply chain<br>sustainability   | Existence of a sustainable procurement plan and   | Dignity and equality  | Risk for incidents of child,<br>forced or compulsory labour         |
| System                       |  | compliance monitoring   |                       | Human rights review,<br>grievance impact & modern<br>slavery (#, %) |
| Anti-corruption              | Anti-corruption program  | Implementation of an anti-corruption program  | Ethical behaviour     | Anti-corruption   |
|                              |  | N/A   |                       | Protected ethics advice and reporting mechanisms                    |
|                              |  | N/A   |                       | Alignment of strategy and policies to lobbying                      |
|                              |  | N/A   |                       | Monetary losses from<br>unethical behaviour                         |

|                        |  | N/A   | N/A Commu |   | Total tax paid   |
|------------------------|--|---|-----------|---|--|
|                        |  | N/A   |           | social mainty   | Total Social Investment (\$)   |
|                        |  | N/A   |           |   | Additional tax remitted  |
|                        |  | N/A   |           |   | Total tax paid by country for significant locations  |
| Project<br>Procurement | Sustainability in project<br>award                           | Integration of the AISI in<br>project tender process                    |           | N/A   | N/A  |
| Working                | Labor rights   | Integration of  |           | Dignity and equality  | Diversity and inclusion (%)  |
| Conditions             |  | International Labour<br>Organisation's (ILO)<br>fundamental conventions |           |   | Freedom of association and collective bargaining at risk (%)                                   |
|                        |  |   |           |   | Human rights review,<br>grievance impact & modern<br>slavery (#, %)                            |
|                        |  |   |           | Risk for incidents of child,<br>forced or compulsory labour |  |
|                        |  |   |           |   | Discrimination and harassment<br>incidents (#) and the total<br>amount of monetary losses (\$) |
|                        | Occupational Health &<br>Safety (OH&S)<br>Management Systems | Implementation of a<br>Comprehensive OH&S                               |           | Health and well-<br>being                                   | Health and safety (%)  |
|                        |  | Management System   |           | -   | Employee well-being (#, %)   |
|                        | Frequency rates of fatal<br>and non-fatal occupational       | Number of fatal and non-<br>fatal occupational injuries                 |           |   |  |
|                        | injunes  | N/A   |           |   | Monetized impacts of work-<br>related incidents on<br>organization (#, \$)                     |
|                        | Fair Wages   | Percentage of employees who are paid a fair wage                        |           | Dignity and equality  | Pay equality (%)   |
|                        |  |   |           |   | Wage level (%)   |
|                        |  |   |           |   | Pay gap (%, #)   |
|                        |  | N/A   |           |   | Living wage (%)  |

**Final Report** 

|               | Local jobs created      | Number of direct local<br>jobs created during<br>construction and<br>operation | Employment and wealth generation | Absolute number and rate of employment |
|---------------|-------------------------|--|----------------------------------|--|
| Service       | Affordability of        | Ability to pay (ATP) of  | N/A                              | N/A                                    |
| Affordability | infrastructure services | project beneficiaries  |                                  |  |

This basic mapping exercise revealed a number of WEF's metrics/disclosures, which could not be linked to any of AISI's indicators and therefore these correspond to WEF's additional metrics and disclosures:

#### Table 45: WEF additional metrics/disclosures

| WEF THEMES                | WEF METRICS AND DISCLOSURES   | CORE/EXPANDED |
|---------------------------|---|---------------|
| Quality of governing body | Remuneration  | E             |
| Employment and wealth     | Economic contribution   | С             |
| generation                | Financial investment contribution   | С             |
|                           | Infrastructure investments and services supported   | E             |
|                           | Significant indirect economic impacts   | E             |
| Innovation of better      | Total R&D expenses (\$)   | С             |
| products and services     | Social value generated (%)  | E             |
|                           | Vitality Index  | E             |
| Skills for the future     | Training provided (#, \$)   | С             |
|                           | Number of unfilled skilled positions (#, %)   | E             |
|                           | Monetized impacts of training – Increased earning capacity as a result of training intervention (%, \$) | E             |
| Water pollution           | Nutrients   | E             |
|                           | Impact of water pollution   | E             |

## Table 46: WEF metrics & disclosures not included in AISI linked indicators

| ASSI INDICATORS              | WEF METRICS AND DISCLOSURES   |  |
|------------------------------|---|--|
| Strategic options assessment | Purpose-led management  |  |
|                              | Integrating risk and opportunity into business process                    |  |
|                              | Economic, environmental and social topics in capital allocation framework |  |

| Freshwater withdrawal                    | Impact of freshwater consumption and withdrawal                     |  |  |  |
|--|---|--|--|--|
| GHG emissions (construction & operation) | TCFD Implementation   |  |  |  |
|  | Paris-aligned GHG emissions targets                                 |  |  |  |
|  | Impact of GHG emissions   |  |  |  |
| Reduction of Waste                       | Single-use plastics   |  |  |  |
|  | Impact of solid waste disposal                                      |  |  |  |
| Fine particulate matter emission         | Impact of air pollution   |  |  |  |
| Threatened species                       | Land use and ecological sensitivity                                 |  |  |  |
| Anti-corruption program                  | Protected ethics advice and reporting mechanisms                    |  |  |  |
|  | Alignment of strategy and policies to lobbying                      |  |  |  |
|  | Monetary losses from unethical behaviour                            |  |  |  |
|  | Total tax paid  |  |  |  |
| -  | Total Social Investment (\$)  |  |  |  |
| -  | Additional tax remitted   |  |  |  |
|  | Total tax paid by country for significant locations                 |  |  |  |
| Frequency rates of fatal and             | Monetized impacts of work-related incidents on organization (#, \$) |  |  |  |
| non-fatal occupational injuries          |   |  |  |  |
|  | Living wage (0)   |  |  |  |

The results of the Indicator-based mapping with respect to the alignment levels mentioned previously are summarized in the following table:

|  | No of linked                     | RELEVANCE TO WEF     |         |
|--|----------------------------------|----------------------|---------|
| AISI INDICATORS                                  | METRICS/DISCLO<br>SURES (of WEF) | type of<br>relevance | LEVEL   |
| 1 Strategic options assessment                   | 4                                | 4                    | LOW     |
| 2 Sustainability Management System               | 5                                | 2a                   | HIGH    |
| 3 Gender equality, inclusiveness and empowerment | 6                                | 2b                   | HIGH    |
| 4 Climate Risk Resilience                        | 3                                | 3a                   | PARTIAL |
| 5 Cybersecurity resilience                       | 1                                | 3c                   | PARTIAL |
| 6 Stakeholder engagement plan                    | 2                                | 2a                   | HIGH    |
| 7 Free, Prior and Informed Consent (FPIC)        | 1                                | 3c                   | PARTIAL |
| 8 Involuntary Resettlement                       | 1                                | 3c                   | PARTIAL |
| 9 Heritage assessment                            | 1                                | 3c                   | PARTIAL |
| 10 Public health and safety management plan      | 1                                | 3c                   | PARTIAL |
| 11 Freshwater withdrawal                         | 2                                | 1                    | FULL    |
| 12 GHG emissions (construction & operation)      | 4                                | 3b                   | PARTIAL |

**Final Report** 

| 13 Efficient use of energy                                      | 0 | 5  | NONE    |
|---|---|----|---------|
| 14 Materials lifecycle thinking                                 | 1 | 2a | HIGH    |
| 15 Reduction of Waste   | 3 | 3b | PARTIAL |
| 16 Fine particulate matter emission                             | 2 | 1  | FULL    |
| 17 Threatened species   | 2 | 3b | PARTIAL |
| 18 Watershed Management   | 0 | 5  | NONE    |
| 19 Previously Disturbed Land                                    | 1 | 3с | PARTIAL |
| 20 Project supply chain sustainability                          | 2 | 3a | PARTIAL |
| 21 Anti-corruption program                                      | 8 | 1  | FULL    |
| 22 Sustainability in project award                              | 0 | 5  | NONE    |
| 23 Labor rights   | 5 | 3a | PARTIAL |
| 24 Occupational Health & Safety (OH&S) Management Systems       | 2 | 3b | PARTIAL |
| 25 Frequency rates of fatal and non-fatal occupational injuries | 2 | 2a | HIGH    |
| 26 Fair Wages   | 4 | 2a | HIGH    |
| 27 Local jobs created   | 1 | 3c | PARTIAL |
| 28 Affordability of infrastructure services                     | 0 | 5  | NONE    |

Observations regarding the number of linked metrics/disclosures per AISI indicator:

- The majority of AISI's indicators (55%) are linked to 1 or 2 of WEF's metrics/disclosures.
- 1% of the indicators are covered by 3-8 metrics/disclosures of WEF
- 4 AISI indicators (14%) have no alignment with WEF's metrics/disclosures

Observations regarding the levels of alignment per AISI indicator:

- 50 % of AISI's indicators are partially covered by WEF's metrics and disclosures
- There are 4 indicators (14%) that are not related to any of WEF's metrics/disclosures (no level of alignment
- 32% of the indicators are highly or fully covered,
- Only 1 out of the 28 total indicators have low coverage
- The most common type of relevance between an AISI indicator and WEF's metrics/disclosures is type 3c, i.e. the case where and AISI indicator is linked to one WEF metric/disclosure and can only be partially covered either because WEF has a broader scope or because it cannot be directly applied to an infrastructure project.

## 8.4. AISI-GRI detailed mapping findings

The detailed mapping methodology is applicable in the case of the GRI Standards. It is a cross-industry reporting standard, covering all E,S,G aspects and has a comparable to AISI structure.

## **Structure Compatibility**

| AISI |            | TOPICS                      | INDICATORS  | METRICS                |
|------|------------|-----------------------------|-------------|------------------------|
| GRI  | GRI SERIES | UNIVERSAL & SPECIFIC TOPICS | DISCLOSURES | REPORTING REQUIREMENTS |

## Systems structure relevance with respect to E,S,G

The table below shows the result of the **AISI Topics/ GRI Topics (Universal & specific) mapping**. As shown, of the three ESG topic categories, the environmental topics of the two systems are more directly linked. The governance topics of AISI are mainly covered by the universal topics of GRI that refer to organization-related management practices, with some cases of social topics linked to them. The "Procurement Process" does not appear to be addressed by any of GRI's topics. The social topics of AISI are linked to a combination of social and governance topics of GRI.

## Table 48: AISI -GRI Topics mapping with respect to E,S,G

| AISI                              | GRI  |         |
|-----------------------------------|--|---------|
| SUSTAINABILITY TOPICS             | TOPICS                                     |         |
| Ontion Association                | OV Governance                              |         |
| Option Assessment                 | BC Responsible business conduct            |         |
|                                   | BC Responsible business conduct            |         |
|                                   | OV Governance                              |         |
|                                   | AT Reporting on material topics            |         |
| Dreiget Sustainability Management | EP Organizational details and reporting pr | actices |
| Project Sustainability Management | OV Governance                              |         |
|                                   | 07 Environmental Compliance                |         |
|                                   | 19 Socioeconomic Compliance                |         |
|                                   | 13 Local Communities                       |         |
|                                   | 13 Local Communities                       |         |
|                                   | 05 Diversity and Equal Opportunity         |         |
|                                   | 02 Market Presence                         |         |
|                                   | 06 Non-discrimination                      |         |
| Gender                            | CT Organizational activities               |         |
|                                   | 01 Employment                              |         |
|                                   | 03 Occupational Health and Safety          |         |
|                                   | 04 Training and Education                  |         |
|                                   | OV Governance                              |         |
| Resilience                        | 01 Economic Performance                    |         |
|                                   | OV Governance                              |         |
|                                   | SE Stakeholder Engagement                  |         |
| Stakeholder Engagement            | 13 Local Communities                       |         |
|                                   | 07 Tax                                     |         |
|                                   | 11 Rights of Indigenous Peoples            |         |

Final Report

|                              | RBC | Responsible business conduct                     |
|------------------------------|-----|--|
|                              | 416 | Customer Health and Safety                       |
| Water                        | 303 | Water and Effluents                              |
| Energy / GHG                 |     | Emissions  |
|                              | 302 | Energy   |
| Materials lifecycle approach | 306 | Waste  |
|                              | 301 | Materials  |
| Air Quality                  | 305 | Emissions  |
| Biodiversity                 | 304 | Biodiversity                                     |
|                              | 303 | Water and Effluents                              |
|                              | ACT | Organizational activities                        |
|                              | 308 | Supplier Environmental Assessment                |
| Sustainable Supply chain     | 414 | Supplier Social Assessment                       |
|                              | 408 | Child Labor                                      |
|                              | 409 | Forced or Compulsory Labor                       |
|                              | 205 | Anti-corruption                                  |
| Anti-corruption              | 206 | Anti-competitive Behavior                        |
|                              |     | Governance                                       |
| Project Procurement          | N/A |  |
|                              | 412 | Human Rights Assessment                          |
|                              | 410 | Security Practices                               |
|                              | 407 | Freedom of Association and Collective Bargaining |
|                              | SE  | Stakeholder engagement                           |
|                              | 406 | Non-discrimination                               |
|                              | 401 | Employment                                       |
| Working Conditions           | 403 | Occupational Health and Safety                   |
|                              | 201 | Economic Performance                             |
|                              | 203 | Indirect Economic Impacts                        |
|                              |     | Market Presence                                  |
|                              |     | Procurement Practices                            |
|                              |     | Governance                                       |
|                              | RBC | Responsible Business Conduct                     |
| Service Affordability -      | 203 | Indirect Economic Impacts                        |
|                              | 303 | Water and Effluents                              |

ENVIRONMENTAL

G

GOVERNANCE

# Table 49: AISI - GRI Indicators per E,S,G aspect

SOCIAL

|               | AISI             |                 | GRI               |                  |
|---------------|------------------|-----------------|-------------------|------------------|
| E,S,G aspects | No of Indicators | % of Indicators | No of Disclosures | % of Disclosures |
Final Report

| ENVIRONMENTAL INDICATORS | 9  | 32% | 32  | 28% |
|--------------------------|----|-----|-----|-----|
| SOCIAL INDICATORS        | 12 | 43% | 40  | 35% |
| GOVERNANCE INDICATORS    | 7  | 25% | 35  | 36% |
| TOTAL                    | 28 |     | 107 |     |

As shown in the above table, the quantity of indicators in the two systems, as an absolute number, is not comparable, with GRI including 4-times the no. of AISI indicators. This is due to AISI's selection of a more comprehensive type of indicators to address topics as compared to GRI (e.g. indicators than refer to programs, management systems, action plans etc). However, if compared as percentages, the proportion of indicators per ESG theme is more equally balanced in GRI. In GRI the majority of indicators address social and governance and in AISI social aspects. The two systems have a more similar percentage in indicators that address environmental issues, while governance indicators in GRI are significantly higher as a percentage in GRI.

#### Table 50: Indicator type per E,S,G (AISI)

| AISI                     |                     |                    |                    |                   |  |  |  |
|--------------------------|---------------------|--------------------|--------------------|-------------------|--|--|--|
|                          | No of process-based | No of quantitative | % of process-based | % of quantitative |  |  |  |
| ENVIRONMENTAL INDICATORS | 2                   | 7                  | 22%                | 78%               |  |  |  |
| SOCIAL INDICATORS        | 7                   | 5                  | 58%                | 42%               |  |  |  |
| GOVERNANCE INDICATORS    | 6                   | 1                  | 86%                | 14%               |  |  |  |
| TOTAL                    | 15                  | 13                 | 54%                | 46%               |  |  |  |

Table 51: Indicator type per E,S,G (GRI)

| GRI                      |                         |                       |      |  |                        |                      |             |
|--------------------------|-------------------------|-----------------------|------|--|------------------------|----------------------|-------------|
|                          | No of process-<br>based | No of<br>quantitative | both |  | % of process-<br>based | % of<br>quantitative | % of "both" |
| ENVIRONMENTAL INDICATORS | 4                       | 25                    | 3    |  | 13%                    | 78%                  | 9%          |
| SOCIAL INDICATORS        | 14                      | 21                    | 5    |  | 35%                    | 53%                  | 9%          |
| GOVERNANCE INDICATORS    | 21                      | 4                     | 10   |  | 60%                    | 11%                  | 29%         |
| TOTAL                    | 39                      | 50                    | 18   |  | 36%                    | 47%                  | 17%         |

Main observations regarding the balance of quantitative vs process-based indicators per E,S,G:

- AISI's majority of indicators are process-based (54%) while GRI's majority of indicators are quantitative (47% plus the disclosures that include both quantitative and qualitative reporting requirements)
- In the Environmental category both systems have significantly higher percentage of quantitative indicators as compared to the others

- In the Social category, AISI has more process-based indicators, while GRI has more quantitative disclosures and associated reporting requirements (also result of the AISI'S more comprehensive type of indicators and associated metrics)
- In the Governance category AISI has only one quantitative indicator while GRI has 14 (10 as part of the both qualitative and quantitative disclosures)

## **SDG-based mapping results**

#### Table 52: AISI-GRI SDG Mapping

|      | SDGs   | AISI INDICATORS                                  |     | GRI DISCLOSURES  |
|------|--|--|-----|--|
|      | End poverty in all its forms   | 7 Free, Prior and Informed Consent<br>(FPIC)     | 202 | Market Presence  |
| SDG1 | everywhere   | 8 Involuntary Resettlement                       | 203 | Indirect Economic Impacts  |
|      |  |  | 207 | Тах  |
|      | End hunger, achieve food security  |  | 411 | Rights of Indigenous Peoples                                     |
| SDG2 | and improved nutrition and promote sustainable agriculture   | N/A  | 413 | Local Communities  |
|      |  | 10 Public health and safety<br>management plan   | 203 | Indirect Economic Impacts  |
|      | Ensure healthy lives and promote   | 16 Fine particulate matter emission              | 305 | Emissions  |
| SDG3 | well-being for all at all ages   | 18 Watershed Management                          | 306 | Waste  |
|      |  |  | 401 | Employment   |
|      |  |  |     | Occupational Health and Safety                                   |
| SDG4 | Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all | 18 Watershed Management                          | 404 | Training and Education   |
|      |  | 3 Gender equality, inclusiveness and empowerment | 102 | GOV-1 Governance structure and<br>composition                    |
|      |  |  | 102 | GOV-2 Nomination and selection of the<br>highest governance body |
|      |  |  | 202 | Market Presence  |
| SDG5 | Achieve gender equality and  |  | 203 | Indirect Economic Impacts  |
|      | empower all women and girls  |  | 401 | Employment   |
|      |  |  | 404 | Training and Education   |
|      |  |  | 405 | Diversity and Equal Opportunity                                  |
|      |  |  | 406 | Non-discrimination   |
|      |  |  | 414 | Supplier Social Assessment                                       |
|      | Ensure availability and sustainable  | 1 Strategic options assessment                   | 303 | Water and Effluents  |
| SDG6 | management of water and sanitation   | 11 Freshwater withdrawal                         | 304 | Biodiversity   |
|      | for all  | 18 Watershed Management                          | 306 | Waste  |
| SDG7 | Ensure access to affordable, reliable,   | 13 Efficient use of energy                       | 302 | Energy   |

|               | sustainable and modern energy for                 | 16 Fine particulate matter emission                             |     |   |
|---------------|---|---|-----|---|
|               | Promote sustained, inclusive and                  | 20 Project supply chain   | 400 |   |
|               | sustainable economic growth, full                 | sustainability management                                       | 102 | ACT-2 Employees and other workers                   |
|               | and productive employment and decent work for all | 24 Occupational Health & Safety<br>(OH&S) Management Systems    | 102 | SE-2 Collective bargaining agreements               |
|               |   | 25 Frequency rates of fatal and non-fatal occupational injuries | 201 | Economic Performance                                |
|               |   | 26 Fair Wages   | 202 | Market Presence                                     |
|               |   | 27 Local jobs created   | 203 | Indirect Economic Impacts                           |
|               |   |   | 204 | Procurement Practices                               |
|               |   |   | 301 | Materials   |
|               |   |   | 302 | Energy  |
| SDG8          |   |   | 401 | Employment  |
|               |   |   | 402 | Labor/Management Relations                          |
|               |   |   | 403 | Occupational Health and Safety                      |
|               |   |   | 404 | Training and Education                              |
|               |   |   | 405 | Diversity and Equal Opportunity                     |
|               |   |   | 406 | Non-discrimination                                  |
|               |   |   | 407 | Freedom of Association and Collective<br>Bargaining |
|               |   |   | 408 | Child Labor   |
|               |   |   | 409 | Forced or Compulsory Labor                          |
|               |   |   | 414 | Supplier Social Assessment                          |
|               | Build resilient infrastructure,                   | 1 Strategic options assessment                                  | 201 | Economic Performance                                |
|               | industrialization and foster                      | 4 Climate Risk Resilience                                       | 203 | Indirect Economic Impacts                           |
| SDCO          | innovation  | 5 Cybersecurity resilience                                      |     |   |
| 3003          |   | 12 GHG emissions  |     |   |
|               |   | 22 Sustainability in project award                              |     |   |
|               |   | 28 User affordability   |     |   |
|               | Reduce inequality within and among countries      | 7 Free, Prior and Informed Consent<br>(FPIC)                    | 102 | ACT-2 Employees and other workers                   |
| <b>CD 010</b> |   | 21 Anti-corruption program                                      | 207 | Тах   |
| SDG10         |   | 26 Fair Wages   | 401 | Employment  |
|               |   |   | 404 | Training and Education                              |
|               |   |   | 405 | Diversity and Equal Opportunity                     |
|               | Make cities and human settlements                 | 4 Climate Risk Resilience                                       | 203 | Indirect Economic Impacts                           |
| SDG11         | sustainable                                       | 9 Heritage assessment   | 306 | Waste   |
|               |   | 14 Materials lifecycle thinking                                 |     |   |
|               |   | 15 Reduction of Waste   |     |   |

|       |                                      | 16 Fine particulate matter emission                  |     |  |
|-------|--------------------------------------|--|-----|--|
|       |                                      | 19 Previously Disturbed Land                         |     |  |
|       |                                      | 22 Sustainability in project award                   |     |  |
|       | Ensure sustainable consumption and   | 14 Materials lifecycle thinking                      | 301 | Materials  |
|       | production patterns                  | 15 Reduction of Waste                                | 302 | Energy   |
| SDG12 |                                      | 20 Project supply chain<br>sustainability management | 305 | Emissions  |
|       |                                      | 22 Sustainability in project award                   | 306 | Waste  |
|       |                                      |  | 417 | Marketing and Labeling   |
|       | Take urgent action to combat climate | 4 Climate Risk Resilience                            | 201 | Economic Performance   |
| SDG13 | change and its impacts               | 12 GHG emissions                                     | 302 | Energy   |
|       |                                      | 14 Materials lifecycle thinking                      | 305 | Emissions  |
|       | Conserve and sustainably use the     | 15 Reduction of Waste                                | 304 | Biodiversity   |
| SDG14 | oceans, seas and marine resources    | 17 Threatened species                                | 305 | Emissions  |
|       | for sustainable development          | 18 Watershed Management                              |     |  |
|       | Protect, restore and promote         | 17 Threatened species                                | 304 | Biodiversity   |
|       | sustainable use of terrestrial       | 18 Watershed Management                              | 305 | Emissions  |
| SDG15 | forests, combat desertification, and |  |     |  |
|       | halt and reverse land degradation    |  |     |  |
|       | and halt biodiversity loss           | 19 Previously Disturbed Land                         |     |  |
|       | societies for sustainable            | 6 Stakeholder engagement plan                        | 102 | GOV-1 Governance structure and<br>composition  |
|       | justice for all and build effective, | 7 Free, Prior and Informed Consent<br>(FPIC)         | 102 | GOV-2 Nomination and selection of the highest governance body                            |
|       | at all levels                        | 21 Anti-corruption program                           | 102 | GOV-3 Responsibilities for sustainable development topics and delegation                 |
|       |                                      |  | 102 | GOV-4 Stakeholder consultation on sustainable development topics                         |
|       |                                      |  | 102 | GOV-7 Role of the highest governance<br>body in setting purpose, values, and<br>strategy |
| SDG16 |                                      |  | 102 | GOV-10 Identification and<br>management of impacts                                       |
|       |                                      |  | 102 | RBC-5 Mechanisms for seeking advice<br>and raising concerns                              |
|       |                                      |  | 205 | Anti-corruption  |
|       |                                      |  | 206 | Anti-competitive Behavior  |
|       |                                      |  | 307 | Environmental Compliance   |
|       |                                      |  | 403 | Occupational Health and Safety   |
|       |                                      |  | 408 | Child Labor  |
|       |                                      |  | 410 | Security Practices   |
|       |                                      |  | 414 | Supplier Social Assessment   |
|       |                                      |  | 415 | Public Policy  |

|       |  |  | 416 | Customer Health and Safety |
|-------|--|--|-----|----------------------------|
|       |  |  | 417 | Marketing and Labeling     |
|       |  |  | 418 | Customer Privacy           |
|       |  |  | 419 | Socioeconomic Compliance   |
|       | Strengthen the means of  | 6 Stakeholder engagement plan                        | 207 | Тах                        |
| SDG17 | SDG17 implementation and revitalize the<br>Global Partnership for Sustainable<br>Development | 20 Project supply chain<br>sustainability management |     |                            |

The above table shows that GRI covers the full extent of SDGs. The above linkage of GRI to SDGs on a disclosure level is based on the mapping performed by GRI and presented in a standalone document, and not within the GRI guidance manuals<sup>49</sup>. The mapping performed links not only to SDGs but also to specific targets at a reporting requirement level.

#### Indicator-based mapping results

#### Table 53: Mapping of GRI's Disclosures/Reporting Requirements against AISI

Note: Due to the extensive description as part of GRI reporting requirement per disclosure this information is not presented in the below table, however it was accounted for in the mapping and presented in the Appendix C.

| AISI                                 |                                       |  | GRI   |  |  |
|--------------------------------------|---------------------------------------|--|---|--|--|
| SUSTAINABILITY<br>TOPICS             | INDICATORS                            | METRICS  | ΤΟΡΙϹ   | DISCLOSURES  |  |
| Option Assessment                    | 1 Strategic options<br>assessment     | Existence of a strategic options assessment                              | Governance<br>Responsible<br>business conduct | GOV-3 Responsibilities for sustainable<br>development topics and delegation<br>GOV-7 Role of the highest<br>governance body in setting purpose,<br>values, and strategy<br>RBC-1 Statement on sustainable<br>development strategy  |  |
| Project Sustainability<br>Management | 2 Sustainability<br>management system | Implementation of a<br>sustainable<br>management system<br>and reporting | Responsible<br>business conduct               | RBC-1 Statement on sustainable<br>development strategy<br>RBC-2 Policy commitments<br>RBC-3 Embedding the policy<br>commitments throughout the<br>organization<br>RBC-5 Mechanisms for seeking advice<br>and raising concerns<br>RBC-6 Compliance with laws and<br>regulations |  |
|                                      |                                       |  | Governance<br>Reporting on                    | GOV-2 Nomination and selection of<br>the highest governance body<br>GOV-3 Responsibilities for sustainable<br>development topics and delegation<br>MT-1 Identification of material topics<br>and related impacts   |  |

|            |                           |                         |                   | -                                     |
|------------|---------------------------|-------------------------|-------------------|---------------------------------------|
|            |                           |                         | material topics   | MT-2 Material topics and related      |
|            |                           |                         |                   | MT-3 Management of material topics    |
|            |                           |                         |                   | and related impacts                   |
|            |                           |                         | Organizational    |                                       |
|            |                           |                         | details and       |                                       |
|            |                           |                         | reporting         |                                       |
|            |                           |                         | practices         | REP-5 External assurance              |
|            |                           |                         | Governance        | GOV-10 Identification and             |
|            |                           |                         | Environmental     | 307-1 Non-compliance with             |
|            |                           |                         | Compliance        | environmental laws and regulations    |
|            |                           |                         | Sacioaconomic     | 419-1 Non-compliance with laws and    |
|            |                           |                         | Compliance        | regulations in the social and         |
|            |                           |                         | compliance        | economic area                         |
|            |                           |                         |                   | 413-1 Operations with local           |
|            |                           |                         |                   | assessments, and development          |
|            |                           |                         | Local             | programs                              |
|            |                           |                         | Communities       | 413-2 Operations with significant     |
|            |                           |                         |                   | actual and potential negative impacts |
|            | 2 Conder equality         |                         |                   | on local communities                  |
|            | inclusiveness and         |                         | Local             | actual and potential negative impacts |
|            | empowerment               |                         | Communities       | on local communities                  |
|            |                           |                         |                   | 405-1 Diversity of governance bodies  |
|            |                           |                         | Diversity and     | and employees                         |
|            |                           |                         | Equal Opportunity | 405-2 Ratio of basic salary and       |
|            |                           |                         |                   | 202-1 Ratios of standard entry level  |
|            |                           |                         |                   | wage by gender compared to local      |
|            |                           |                         | Market Presence   | minimum wage                          |
|            |                           |                         | Non-              | 406-1 Incidents of discrimination and |
|            |                           |                         | discrimination    | corrective actions taken              |
|            |                           | Existence and           | Organizational    | Disclosure ACT-2 Employees and        |
| Condor     |                           | Implementation of a     | activities        | other workers                         |
| Gender     |                           | comprehensive gender    | Employment        | employee turnover                     |
|            |                           | action plan (GAP).      |                   | 401-3 Parental leave                  |
|            |                           |                         | Occupational      | 403-9 Work-related injuries           |
|            |                           |                         | Health and Safety | 403-10 Work-related ill health        |
|            |                           |                         |                   | 404-1 Average hours of training per   |
|            |                           |                         | Training and      | year per employee                     |
|            |                           |                         | Education         | 404-3 Percentage of employees         |
|            |                           |                         |                   | career development reviews            |
|            |                           |                         |                   | Disclosure GOV-1 Governance           |
|            |                           |                         |                   | structure and composition             |
|            |                           |                         |                   | Disclosure GOV-2 Nomination and       |
|            |                           |                         | Governance        | selection of the highest governance   |
|            |                           | Implementation of a     |                   | 201-2 Financial implications and      |
| Resilience | 4 Climate Risk Resilience | climate risk adaptation | Economic          | other risks and opportunities due to  |
|            |                           | plan                    | Performance       | climate change                        |

|                           |  | Number of system vulnerabilities identified  |                                     |   |
|---------------------------|--|--|-------------------------------------|---|
|                           | 5 Cybersecurity resilience   | affecting  |                                     |   |
|                           |  | infrastructure's critical  |                                     |   |
|                           |  | assets or processes  | N/A                                 | N/A   |
|                           |  |  |                                     | Disclosure GOV-4 Stakeholder consultation on sustainable  |
|                           |  |  | Governance                          | development topics  |
|                           |  | Existence of a   | Stakeholder<br>Engagement           | SE-1 Approach to stakeholder<br>engagement  |
|                           | 6 Stakeholder<br>engagement plan                                   | inclusive stakeholder<br>engagement process<br>and plan.   | Local<br>Communities                | 413-1 Operations with local<br>community engagement, impact<br>assessments, and development<br>programs   |
|                           |  |  | Тах                                 | 207-3 Stakeholder engagement and management of concerns related to tax  |
|                           | 7 Free, Prior and<br>Informed Consent (FPIC)                       | Obtainment of Free,  | Rights of<br>Indigenous<br>Peoples  | 411-1 Incidents of violations involving rights of indigenous peoples  |
| Stakeholder<br>Engagement |  | Prior and Informed   |                                     | RBC-2 Policy commitments  |
|                           |  | Consent (FPIC)   | Responsible<br>business conduct     | RBC-3 Embedding the policy<br>commitments throughout the  |
|                           | 8 Involuntary<br>Resettlement                                      | People physically or<br>economically impacted  | Local<br>Communities                | 413-2 Operations with significant<br>actual and potential negative impacts  |
|                           | 9 Heritage assessment  | Implementation of<br>adequate cultural<br>heritage protection<br>measures  | N/A                                 | N/A   |
|                           | 10 Public health and   | Implementation of a public health and safety   | Customer Health                     | 416-1 Assessment of the health and<br>safety impacts of product and service<br>categories   |
|                           | salety management plan   | management plan  | anu Salety                          | concerning the health and safety<br>impacts of products and services  |
|                           | 11 Freshwater  | Annual volume of fresh   |                                     |   |
| Water                     |  |  |                                     | 303-3 Water Withdrawai  |
| Water                     | withdrawal   | water used by the infrastructure project   | Water and<br>Effluents              | 303-5 Water consumption   |
| Water                     | withdrawal N/A   | water used by the<br>infrastructure project<br>N/A   | Water and<br>Effluents              | 303-5 Water withdrawai<br>303-5 Water consumption<br>303-1 Interactions with water as a<br>shared resource  |
| Water                     | withdrawal   | water used by the<br>infrastructure project<br>N/A   | Water and<br>Effluents              | 303-3 Water Withdrawai<br>303-5 Water consumption<br>303-1 Interactions with water as a<br>shared resource<br>305-1 Direct (Scope 1) GHG emissions  |
| Water                     | withdrawal N/A 12 GHG emissions                                    | water used by the<br>infrastructure project<br>N/A<br>Volume of Greenhouse<br>gas emissions emitted  | Water and<br>Effluents              | 303-3 Water Withdrawal<br>303-5 Water consumption<br>303-1 Interactions with water as a<br>shared resource<br>305-1 Direct (Scope 1) GHG emissions<br>305-2 Energy indirect (Scope 2) GHG<br>emissions  |
| Water                     | withdrawal N/A 12 GHG emissions                                    | water used by the<br>infrastructure project<br>N/A<br>Volume of Greenhouse<br>gas emissions emitted<br>by the project  | Water and<br>Effluents<br>Emissions | 303-3 Water Withdrawal<br>303-5 Water consumption<br>303-1 Interactions with water as a<br>shared resource<br>305-1 Direct (Scope 1) GHG emissions<br>305-2 Energy indirect (Scope 2) GHG<br>emissions<br>305-3 Other indirect (Scope 3) GHG<br>emissions   |
| Water<br>Energy / GHG     | withdrawal N/A 12 GHG emissions N/A                                | water used by the<br>infrastructure project<br>N/A<br>Volume of Greenhouse<br>gas emissions emitted<br>by the project<br>N/A   | Water and<br>Effluents<br>Emissions | <ul> <li>303-3 Water Withdrawal</li> <li>303-5 Water consumption</li> <li>303-1 Interactions with water as a shared resource</li> <li>305-1 Direct (Scope 1) GHG emissions</li> <li>305-2 Energy indirect (Scope 2) GHG emissions</li> <li>305-3 Other indirect (Scope 3) GHG emissions</li> <li>305-4 GHG emissions intensity</li> </ul>   |
| Water<br>Energy / GHG     | withdrawal N/A 12 GHG emissions N/A N/A                            | water used by the<br>infrastructure project<br>N/A<br>Volume of Greenhouse<br>gas emissions emitted<br>by the project<br>N/A<br>N/A  | Water and<br>Effluents<br>Emissions | <ul> <li>303-3 Water Withdrawai</li> <li>303-5 Water consumption</li> <li>303-1 Interactions with water as a shared resource</li> <li>305-1 Direct (Scope 1) GHG emissions</li> <li>305-2 Energy indirect (Scope 2) GHG emissions</li> <li>305-3 Other indirect (Scope 3) GHG emissions</li> <li>305-4 GHG emissions intensity</li> <li>305-5 Reduction of GHG emissions</li> </ul>   |
| Water<br>Energy / GHG     | withdrawal N/A 12 GHG emissions N/A N/A 13 Efficient use of energy | water used by the<br>infrastructure project<br>N/A<br>Volume of Greenhouse<br>gas emissions emitted<br>by the project<br>N/A<br>N/A<br>Amount of energy<br>consumed by the | Water and<br>Effluents<br>Emissions | <ul> <li>303-3 Water Withdrawal</li> <li>303-5 Water consumption</li> <li>303-1 Interactions with water as a shared resource</li> <li>305-1 Direct (Scope 1) GHG emissions</li> <li>305-2 Energy indirect (Scope 2) GHG emissions</li> <li>305-3 Other indirect (Scope 3) GHG emissions</li> <li>305-4 GHG emissions intensity</li> <li>305-5 Reduction of GHG emissions</li> <li>302-1 Energy consumption within the organization</li> </ul> |

|                     |   | N/A   |      |                              | 302-3 Energy intensity  |
|---------------------|---|---|------|------------------------------|---|
|                     |   | N/A   |      |                              | 302-4 Reduction of energy   |
|                     |   |   |      |                              | consumption<br>302-5 Reduction in energy  |
|                     |   | N/A   |      |                              | requirements of products and services   |
|                     | 14 Materials lifecycle<br>thinking                |   |      | Waste                        | 306-2 Management of significant waste-related impacts   |
|                     |   | Consideration of  |      |                              | 301-1 Materials used by weight or<br>volume   |
|                     |   | materials lifecycle   |      | Materials                    | 301-2 Recycled input materials used   |
| Materials lifecycle |   | impacts   |      |                              | 301-3 Reclaimed products and their packaging materials  |
| approach            |   |   |      | Waste                        | 306-1 Waste generation and significant waste-related impacts  |
|                     |   | Percentage of total   |      |                              | 306-4 Waste diverted from disposal  |
|                     | 15 Reduction of Waste                             | waste diverted from   |      | Waste                        | 306-3 Waste generated   |
|                     |   | landfills   |      |                              | 306-5 Waste directed to disposal  |
| Air Quality         | 16 Fine particulate matter emission               | Mean PM2.5 and PM10 emissions   |      | Emissions                    | 305-7 Nitrogen oxides (NOX), sulfur oxides (SOX), and other significant air emissions   |
|                     | N/A   | N/A   |      | Emissions                    | 305-6 Emissions of ozone-depleting substances (ODS)   |
|                     | 17 Threatened species                             | Number of Aquatic and<br>Terrestrial Species<br>Impacted (Fauna and<br>Flora) |      | Biodiversity                 | 304-1 Operational sites owned,<br>leased, managed in, or adjacent to,<br>protected areas and areas of high<br>biodiversity value outside protected<br>areas |
|                     |   |   | Biod |                              | 304-2 Significant impacts of activities, products, and services on biodiversity   |
|                     |   |   |      |                              | 304-3 Habitats protected or restored  |
| Biodiversity        |   |   |      |                              | 304-4 IUCN Red List species and<br>national conservation list species with<br>habitats in areas affected by<br>operations                                   |
|                     | 18 Watershed<br>Management                        | Existence of an<br>Integrated Watershed<br>Assessment and                     |      | Water and<br>Effluents       | 303-2 Management of water<br>discharge-related impacts<br>303-1 Interactions with water as a<br>shared resource   |
|                     |   | Management Program  |      |                              | 303-4 Water discharge   |
|                     | 19 Previously Disturbed                           | Percentage of land used<br>by the project that has<br>been previously         |      | N/A                          | N/A   |
|                     | Land  | disturbed or maintained<br>as non-disturbed                                   |      |                              |   |
| Sustainable Supply  | Land<br>20 Project supply chain<br>sustainability | disturbed or maintained<br>as non-disturbed<br>Existence of a<br>sustainable  |      | Organizational<br>activities | ACT-1 Activities, value chain, and other business relationships   |

|                     |  |  | Environmental<br>Assessment                               | 308-2 Negative environmental<br>impacts in the supply chain and<br>actions taken  |
|---------------------|--|--|---|---|
|                     |  |  | Supplier Social   | 414-1 New suppliers that were<br>screened using social criteria   |
|                     |  |  | Assessment  | 414-2 Negative social impacts in the supply chain and actions taken   |
|                     |  |  | Child Labor   | 408-1 Operations and suppliers at<br>significant risk for incidents of child<br>labor   |
|                     |  |  | Forced or<br>Compulsory Labor                             | 409-1 Operations and suppliers at<br>significant risk for incidents of forced<br>or compulsory labor                                      |
|                     |  |  |   | 205-1 Operations assessed for risks related to corruption   |
|                     | 21 Anti-corruption                     | Implementation of an                               | Anti-corruption   | 205-2 Communication and training<br>about anti-corruption policies and<br>procedures  |
| Anti-corruption     | program                                | anti-corruption program                            |   | 205-3 Confirmed incidents of<br>corruption and actions taken  |
|                     |  |  | Anti-competitive<br>Behavior                              | 206-1 Legal actions for anti-<br>competitive behavior, antitrust, and<br>monopoly practices   |
|                     |  |  | Governance  | GOV-6 Conflicts of interest   |
| Project Procurement | 22 Sustainability in<br>project award  | Integration of the AISI in project tender process  | N/A   | N/A   |
|                     | 23 Labor rights                        |  |   | 412-1 Operations that have been<br>subject to human rights reviews or<br>impact assessments   |
|                     |  |  | Human Rights  | 412-2 Employee training on human rights policies or procedures  |
|                     |  |  | Assessment  | 412-3 Significant investment<br>agreements and contracts that<br>include human rights clauses or that<br>underwent human rights screening |
|                     |  | Integration of<br>International Labour             | Security Practices  | 410-1 Security personnel trained in human rights policies or procedures   |
| Working Conditions  |  | Organisation's (ILO)<br>fundamental<br>conventions | Freedom of<br>Association and<br>Collective<br>Bargaining | 407-1 Operations and suppliers in<br>which the right to freedom of<br>association and collective bargaining<br>may be at risk             |
|                     |  |  | Stakeholder<br>engagement                                 | SE-2 Collective bargaining agreements   |
|                     |  |  | Non-<br>discrimination                                    | 406-1 Incidents of discrimination and corrective actions taken  |
|                     |  |  | Employment  | 401-3 Parental leave  |
|                     |  |  | Responsible<br>Business Conduct                           | RBC-4 Grievance mechanisms and other remediation processes  |
|                     | 24 Occupational Health & Safety (OH&S) | Implementation of a                                | Occupational  | 403-1 Occupational health and safety management system  |
|                     | Management Systems                     | Comprehensive OH&S<br>Management System            | Health and Safety   | 403-2 Hazard identification, risk<br>assessment, and incident<br>investigation  |

|                      |   |   |          |                                   | 403-3 Occupational health services   |
|----------------------|---|---|----------|-----------------------------------|--|
|                      |   |   |          |                                   | 403-4 Worker participation,<br>consultation, and communication on<br>occupational health and safety                          |
|                      |   |   |          |                                   | 403-5 Worker training on occupational health and safety  |
|                      |   |   |          |                                   | 403-6 Promotion of worker health   |
|                      |   |   |          |                                   | 403-7 Prevention and mitigation of<br>occupational health and safety<br>impacts directly linked by business<br>relationships |
|                      |   |   |          |                                   | 403-8 Workers covered by an<br>occupational health and safety<br>management system   |
|                      |   |   |          |                                   | 403-10 Work-related ill health   |
|                      | 25 Frequency rates of<br>fatal and non-fatal<br>occupational injuries | Number of fatal and<br>non-fatal occupational<br>injuries | О<br>Н   | Occupational<br>lealth and Safety | 403-9 Work-related injuries  |
|                      | 26 Fair Wages   | Percentage of   | E<br>P   | conomic<br>erformance             | 201-1 Direct economic value generated and distributed  |
|                      |   | employees who are<br>paid a fair wage                     | E        | mployment                         | 401-2 Benefits provided to full-time<br>employees that are not provided to<br>temporary or part-time employees               |
|                      |   | N/A   |          |                                   | GOV-13 Remuneration policies   |
|                      |   | N/A   | G        | iovernance                        | GOV-14 Process for determining remuneration  |
|                      |   | N/A   |          |                                   | GOV-15 Annual total compensation ratio   |
|                      | 27 Local jobs created   |   | Ir       | ndirect Economic                  | 203-1 Infrastructure investments and services supported  |
|                      |   | Number of local jobs                                      | Ir       | mpacts                            | 203-2 Significant indirect economic impacts  |
|                      |   | created   | N        | Narket Presence                   | 202-2 Proportion of senior<br>management hired from the local<br>community   |
|                      |   |   | E        | mployment                         | 401-1 New employee hires and<br>employee turnover  |
|                      |   | N/A   | P<br>P   | rocurement<br>ractices            | 204-1 Proportion of spending on local suppliers  |
|                      | 28 User affordability   | Ability to pay (ATP) of                                   | lr<br>Ir | ndirect Economic<br>mpacts        | 203-2 Significant indirect economic impacts  |
| ervice Affordability |   | project beneficiaries                                     | M<br>F   | Vater and<br>ffluents             | 303-1 Interactions with water as a shared resource   |

This basic mapping exercise revealed a number of GRI's disclosures, which could not be linked to any of AISI's indicators and therefore these correspond to GRI's additional disclosures:

# Table 54: GRI additional disclosures that were not linked to AISI topics (based on initial mapping against AISI topics)

TOPICS DISCLOSURES

Se

## REPORTING REQUIREMENTS

| Labor/Man<br>agement<br>Relations                            | 402-1 Minimum notice<br>periods regarding<br>operational changes   | <ul> <li>a. Minimum number of weeks' notice typically provided to employees and their representatives prior to the implementation of significant operational changes that could substantially affect them.</li> <li>b. For organizations with collective bargaining agreements, report whether the notice period and provisions for consultation and negotiation are specified in collective agreements.</li> </ul>   |
|--|--|---|
|  | 404-1 Average hours of training per year per employee  | <ul> <li>a. Average hours of training that the organization's employees have undertaken during the reporting period, by:</li> <li>i. gender;</li> <li>ii. employee category.</li> </ul>   |
| Training<br>and<br>Education<br>Marketing<br>and<br>Labeling | 404-2 Programs for<br>upgrading employee skills<br>and transition assistance<br>programs                       | <ul> <li>a. Type and scope of programs implemented and assistance provided to upgrade<br/>employee skills.</li> <li>b. Transition assistance programs provided to facilitate continued employability and<br/>the management of career endings resulting from retirement or termination of<br/>employment.</li> </ul>  |
|  | 404-3 Percentage of<br>employees receiving regular<br>performance and career<br>development reviews            | a. Percentage of total employees by gender and by employee category who received a regular performance and career development review during the reporting period.   |
|  | 417-1 Requirements for product and service information and labeling  | <ul> <li>a. Whether each of the following types of information is required by the organization's procedures for product and service information and labeling:</li> <li>i. The sourcing of components of the product or service;</li> <li>ii. Content, particularly with regard to substances that might produce an environmental or social impact;</li> <li>iii. Safe use of the product or service;</li> <li>iv. Disposal of the product and environmental or social impacts;</li> <li>v. Other (explain).</li> <li>b. Percentage of significant product or service categories covered by and assessed for compliance with such procedures.</li> </ul> |
|  | 417-2 Incidents of non-<br>compliance concerning<br>product and service<br>information and labeling            | <ul> <li>a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning the health and safety impacts of products and services within the reporting period, by: <ol> <li>incidents of non-compliance with regulations resulting in a fine or penalty;</li> <li>incidents of non-compliance with regulations resulting in a warning;</li> <li>incidents of non-compliance with voluntary codes.</li> <li>b. If the organization has not identified any non-compliance with regulations and/or voluntary codes.</li> </ol> </li> </ul>   |
|  | 417-3 Incidents of non-<br>compliance concerning<br>marketing communications                                   | <ul> <li>a. Total number of incidents of non-compliance with regulations and/or voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship, by: <ol> <li>incidents of non-compliance with regulations resulting in a fine or penalty;</li> <li>incidents of non-compliance with regulations resulting in a warning;</li> <li>incidents of non-compliance with voluntary codes.</li> <li>b. If the organization has not identified any non-compliance with regulations and/or voluntary codes, a brief statement of this fact is sufficient.</li> </ol> </li> </ul>  |
| Customer<br>Privacy  | 418-1 Substantiated<br>complaints concerning<br>breaches of customer<br>privacy and losses of<br>customer data | <ul> <li>a. Total number of substantiated complaints received concerning breaches of customer privacy, categorized by:</li> <li>i. complaints received from outside parties and substantiated by the organization;</li> <li>ii. complaints from regulatory bodies.</li> <li>b. Total number of identified leaks, thefts, or losses of customer data.</li> <li>c. If the organization has not identified any substantiated complaints, a brief statement of this fact is sufficient.</li> </ul>  |
|  | hal disclosures that were li   | nked to AISI topics but are not covered by AISI indicators  |

| Water<br>Efflue | r and 303-1 Interactions with<br>nts water as a shared resource | <ul> <li>a. A description of how the organization interacts with water, including how and where water is withdrawn, consumed, and discharged, and the water-related impacts caused or contributed to, or directly linked to the organization's activities, products or services by a business relationship (e.g., impacts caused by runoff).</li> <li>b. A description of the approach used to identify water-related impacts, including the scope of assessments, their timeframe, and any tools or methodologies used.</li> <li>c. A description of how water-related impacts are addressed, including how the organization works with stakeholders to steward water as a shared resource, and how it engages with suppliers or customers with significant water-related impacts.</li> <li>d. An explanation of the process for setting any water-related goals and targets that re part of the organization's management approach, and how they relate to public policy and the local context of each area with water stress.</li> </ul> |
|-----------------|---|---|
| Emissions       | 305-4 GHG emissions<br>intensity                                | <ul> <li>a. GHG emissions intensity ratio for the organization.</li> <li>b. Organization-specific metric (the denominator) chosen to calculate the ratio.</li> <li>c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>d. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> </ul>  |
|                 | ions<br>305-5 Reduction of GHG<br>emissions                     | <ul> <li>a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO2 equivalent.</li> <li>b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> <li>c. Base year or baseline, including the rationale for choosing it.</li> <li>d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>e. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>  |
|                 | 302-3 Energy intensity  | <ul> <li>a. Energy intensity ratio for the organization.</li> <li>b. Organization-specific metric chosen to calculate the ratio.</li> <li>c. Types of energy included in the intensity ratio; whether fuel, electricity, heating, cooling, steam, or all.</li> <li>d. Whether the ratio uses energy consumption within the organization, outside of it, or both.</li> </ul>   |
| Energy          | <b>y</b> 302-4 Reduction of energy consumption                  | <ul> <li>a. Amount of reductions in energy consumption achieved as a direct result of conservation and efficiency initiatives, in joules or multiples.</li> <li>b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam, or all.</li> <li>c. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it.</li> <li>d. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>   |
|                 | 302-5 Reduction in energy requirements of products and services | <ul> <li>a. Reductions in energy requirements of sold products and services achieved during the reporting period, in joules or multiples.</li> <li>b. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it.</li> <li>c. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>  |
| Emiss           | ions 305-6 Emissions of ozone-<br>depleting substances (ODS)    | <ul> <li>a. Production, imports, and exports of ODS in metric tons of CFC-11<br/>(trichlorofluoromethane) equivalent.</li> <li>b. Substances included in the calculation.</li> <li>c. Source of the emission factors used.</li> <li>d. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>   |

# Table 55: GRI reporting requirements (metrics) not included in linked AISI indicators

AISI Indicators

GRI Disclosures

**GRI Reporting Requirements** 

| 11 Freshwater<br>withdrawal         | 303-1 Interactions<br>with water as a<br>shared resource                 | <ul> <li>a. A description of how the organization interacts with water, including how and where water is withdrawn, consumed, and discharged, and the water-related impacts caused or contributed to, or directly linked to the organization's activities, products or services by a business relationship (e.g., impacts caused by runoff).</li> <li>b. A description of the approach used to identify water-related impacts, including the scope of assessments, their timeframe, and any tools or methodologies used.</li> <li>c. A description of how water-related impacts are addressed, including how the organization works with stakeholders to steward water as a shared resource, and how it engages with suppliers or customers with significant water-related impacts.</li> <li>d. An explanation of the process for setting any water-related goals and targets that are part of the organization's management approach, and how they relate to public policy and the local context of each area with water stress.</li> </ul> |  |
|-------------------------------------|--|--|--|
|                                     | 305-4 GHG emissions<br>intensity   | <ul> <li>a. GHG emissions intensity ratio for the organization.</li> <li>b. Organization-specific metric (the denominator) chosen to calculate the ratio.</li> <li>c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>d. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> </ul>   |  |
| 12 GHG emissions                    | 305-5 Reduction of<br>GHG emissions                                      | <ul> <li>a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO2 equivalent.</li> <li>b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> <li>c. Base year or baseline, including the rationale for choosing it.</li> <li>d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>e. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>   |  |
|                                     | 302-3 Energy<br>intensity  | <ul> <li>a. Energy intensity ratio for the organization.</li> <li>b. Organization-specific metric (the denominator) chosen to calculate the ratio.</li> <li>c. Types of energy included in the intensity ratio; whether fuel, electricity, heating, cooling, steam, or all.</li> <li>d. Whether the ratio uses energy consumption within the organization, outside of it, or both.</li> </ul>  |  |
| 13 Efficient use of<br>energy       | 302-4 Reduction of<br>energy consumption                                 | <ul> <li>a. Amount of reductions in energy consumption achieved as a direct result of conservation and efficiency initiatives, in joules or multiples.</li> <li>b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam, or all.</li> <li>c. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it.</li> <li>d. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>  |  |
|                                     | 302-5 Reduction in<br>energy requirements<br>of products and<br>services | <ul> <li>a. Reductions in energy requirements of sold products and services achieved during the reporting period, in joules or multiples.</li> <li>b. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it.</li> <li>c. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>   |  |
| 16 Fine particulate matter emission | 305-6 Emissions of<br>ozone-depleting<br>substances (ODS)                | <ul> <li>a. Production, imports, and exports of ODS in metric tons of CFC-11 (trichlorofluoromethane) equivalent.</li> <li>b. Substances included in the calculation.</li> <li>c. Source of the emission factors used.</li> <li>d. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>  |  |
| 14 Materials<br>lifecycle thinking  | 306-1 Waste<br>generation and<br>significant waste-<br>related impacts   | <ul> <li>a. For the organization's significant actual and potential waste-related impacts, a description of: (i). the inputs, activities, and outputs that lead or could lead to these impacts;</li> <li>(ii). whether these impacts relate to waste generated in the organization's own activities or to waste generated upstream or downstream in its value chain.</li> </ul>  |  |
| 26 Fair Wages                       | GOV-13<br>Remuneration<br>policies                                       | a. describe the remuneration policies for highest governance body members and senior executives, including:<br>i. fixed pay and variable pay, such as performance-based pay, equity-based pay, bonuses, and  |  |

|                          |   | deferred and vested shares;<br>ii. sign-on bonuses or recruitment incentive payments;<br>iii. termination payments;<br>iv. clawbacks;<br>v. retirement benefits, such as the difference between benefit schemes and contribution<br>rates for the highest governance body members, senior executives, and all other employees;<br>b. describe how performance criteria in the remuneration policies for highest governance<br>body members and senior executives relate to their objectives for sustainable development<br>topics.   |
|--------------------------|---|--|
|                          | GOV-14 Process for<br>determining<br>remuneration | <ul> <li>a. describe its process for determining remuneration, including its remuneration policies;</li> <li>b. report whether independent members of the highest governance body or an independent remuneration committee oversee the remuneration process;</li> <li>c. describe how the views of stakeholders (including shareholders) regarding remuneration are sought and taken into account;</li> <li>d. report the results of votes on remuneration policies and proposals, if applicable;</li> <li>e. report whether remuneration consultants are involved in determining remuneration and, if so, report any relationships that the remuneration consultants have with the organization, its highest governance body, or senior executives.</li> </ul>                              |
|                          | GOV-15 Annual total compensation ratio            | <ul> <li>a. report the ratio of the annual total compensation for the organization's highest- paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country;</li> <li>b. report the ratio of the percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country.</li> </ul> |
| 27 Local jobs<br>created | 204-1 Proportion of spending on local suppliers   | <ul> <li>a. Percentage of the procurement budget used for significant locations of operation that is spent on suppliers local to that operation (such as percentage of products and services purchased locally).</li> <li>b. The organization's geographical definition of 'local'.</li> <li>c. The definition used for 'significant locations of operation'.</li> </ul>   |

After having linked all relevant indicators, the indicator-based mapping revealed several types of relevance between AISI indicators and the linked GRI disclosures, based on the rationale for assigning alignment levels for standards detailed mapping (See Section 8.2. Detailed mapping methodology). Only the 2c case of relevance is not identified in GRI.

The results of the Indicator-based mapping with respect to the alignment levels mentioned are summarized in the following table:

#### Table 56: AISI-GRI Indicator-based mapping results

|  | No.of linked | RELEVANCE TO GRI |       |
|--|--------------|------------------|-------|
| AISI INDICATORS                                  | disclosures  | type of          |       |
|  | (of GRI)     | relevance        | LEVEL |
| 1 Strategic options assessment                   | 3            | 4                | LOW   |
| 2 Sustainability management system               | 16           | 2b               | HIGH  |
| 3 Gender equality, inclusiveness and empowerment | 14           | 1                | FULL  |
| 4 Climate Risk Resilience                        | 1            | 2a               | HIGH  |

**Final Report** 

| 5 Cybersecurity resilience                                      | 0 | 5  | NONE    |
|---|---|----|---------|
| 6 Stakeholder engagement plan                                   | 4 | 1  | FULL    |
| 7 Free, Prior and Informed Consent (FPIC)                       | 3 | 3b | PARTIAL |
| 8 Involuntary Resettlement                                      | 1 | 3b | PARTIAL |
| 9 Heritage assessment   | 0 | 5  | NONE    |
| 10 Public health and safety management plan                     | 2 | 2b | HIGH    |
| 11 Freshwater withdrawal  | 3 | 1  | FULL    |
| 12 GHG emissions  | 5 | 1  | FULL    |
| 13 Efficient use of energy                                      | 5 | 1  | FULL    |
| 14 Materials lifecycle thinking                                 | 5 | 1  | FULL    |
| 15 Reduction of Waste   | 3 | 1  | FULL    |
| 16 Fine particulate matter emission                             | 2 | 3b | PARTIAL |
| 17 Threatened species   | 4 | 4  | LOW     |
| 18 Watershed Management   | 3 | 2b | HIGH    |
| 19 Previously Disturbed Land                                    | 0 | 5  | NONE    |
| 20 Project supply chain sustainability management               | 7 | 2b | HIGH    |
| 21 Anti-corruption program                                      | 5 | 2b | HIGH    |
| 22 Sustainability in project award                              | 0 | 5  | NONE    |
| 23 Labor rights   | 9 | 1  | FULL    |
| 24 Occupational Health & Safety (OH&S) Management Systems       | 9 | 1  | FULL    |
| 25 Frequency rates of fatal and non-fatal occupational injuries | 1 | 1  | FULL    |
| 26 Fair Wages   | 5 | 2a | HIGH    |
| 27 Local jobs created   | 5 | 3b | PARTIAL |
| 28 User affordability   | 2 | 3b | PARTIAL |

Observations regarding the number of linked GRI disclosures per AISI indicator:

• 4 AISI indicators that have no alignment with GRI disclosures.

• The majority of AISI indicators are linked to more than 1 GRI disclosures and in average to 4.7 GRI disclosures per indicator. The two cases of indicators with the maximum linked GRI disclosures are:

- The 'Sustainability management system' indicator
- The 'Gender equality, inclusiveness and empowerment' indicator

In the two cases, the large number of GRI disclosures linked is due to the absence of one single indicator referring to the topics. Based on the review of the GRI system a different approach to sustainability

management was observed, with various disclosures of GRI integrating and addressing partially the topics. This is also the result of the broad scope of AISI's indicators.

Observations regarding the levels of alignment per AISI indicator

- the majority of AISI's indicators (9) are fully covered by GRI's disclosures
- There are 4 indicators that are not related to any of GRI's disclosures (no level of alignment)
- Only 2 of the indicators have low coverage
- The rest of AISI are almost equally divided between those with high and partial coverage.
- In the case of partial coverage the most prevailing type of relevance is 3b, meaning that GRI disclosures have a wider scope and include additional metrics not included in AISI indicator
- In the case of high coverage the most common type is 2b, meaning that AISI has a more comprehensive type of indicator to address a specific topic (program, management system, plan etc) that entails an extensive list of evidence, while GRI addressing the topic through various and more specific type of disclosures.

## 8.5. AISI-SASB detailed mapping findings

#### Structure Compatibility

| AISI |                              | TOPICS  | INDICATORS                               | METRICS            |
|------|------------------------------|---|--|--------------------|
| SASB | SUSTAINABILITY<br>DIMENSIONS | GENERAL ISSUE CATEGORIES<br>(industry agnostic) | DISCLOSURE TOPICS<br>(industry specific) | ACCOUNTING METRICS |

#### Systems structure relevance with respect to E,S,G

The table below shows the result of the **AISI Topics/ SASB General issue categories mapping**. As made evident through the links between the ESG categories, the two systems have a different approach in the definition of the various topics. For example, in the case of environmental-related topics there is a direct link of topics, however SASB refers to topics such as water, energy and waste also through its 'Business model & Innovation' dimension. According to its definition *"it addresses the integration of environmental, human, and social issues in a company's value creation process, including resource recovery and other innovations in the production process; as well as in product innovation, including efficiency and responsibility in the design, use phase, and disposal of products."* In other words, SASB proposes the disclosure of information on environmental impact, however asks reporting companies to disclose the financial materiality of these environmental impacts as well.

#### Table 57: Mapping of SASB's General Issue Categories against AISI Topics- with respect to E,S,G

| AISI                  | SASB      |   |  |
|-----------------------|-----------|---|--|
| SUSTAINABILITY TOPICS | DIMENSION | GENERAL ISSUE CATEGORIES (cross-industry) |  |

## Final Report

| Option Assessment                    | Environment                            | Ecological Impacts   |  |  |  |
|--------------------------------------|--|--|--|--|--|
| Project Sustainability<br>Management | Leadership & Governance                | Management of the Legal & Regulatory<br>Environment  |  |  |  |
|                                      |  | Employee Engagement, Diversity & Inclusion   |  |  |  |
| Gender                               | Human capital                          | Labor Practices  |  |  |  |
|                                      |  | Employee Engagement, Diversity & Inclusion   |  |  |  |
| Resilience                           | Business model & Innovation            | Physical Impacts of Climate Change   |  |  |  |
|                                      | Leadership & Governance                | Systemic Risk Management   |  |  |  |
|                                      | Environment                            | Ecological Impacts   |  |  |  |
|                                      |  | Human Rights & Community Relations   |  |  |  |
|                                      | Social capital                         | Product Quality & Safety   |  |  |  |
| Stakeholder Engagement               | Environment                            | Waste & Hazardous Materials Management   |  |  |  |
|                                      | Leadership & Governance                | Critical Incident Risk Management  |  |  |  |
|                                      | Environment                            | Water & Wastewater Management  |  |  |  |
| Water                                |  | Materials Sourcing & Efficiency  |  |  |  |
|                                      | Business model & Innovation            | Product Design & Lifecycle Management  |  |  |  |
|                                      | _ ·                                    | Product Design & Lifecycle Management<br>GHG Emissions<br>Energy Management<br>Product Design & Lifecycle Management   |  |  |  |
| Energy / GHG                         | Environment                            |  |  |  |  |
|                                      | <b>Business model &amp; Innovation</b> | Product Design & Lifecycle Management  |  |  |  |
|                                      |  | Product Design & Lifecycle Management<br>Materials Sourcing & Efficiency   |  |  |  |
| Materials lifecycle<br>approach      | Business model & Innovation            | Product Design & Lifecycle Management  |  |  |  |
|                                      | Environment                            | Waste & Hazardous Materials Management   |  |  |  |
| Air Quality                          | Environment                            | Air Quality  |  |  |  |
|                                      |  | Ecological Impacts   |  |  |  |
| Diadiusesitu                         | Facilitation                           | Water & Wastewater Management  |  |  |  |
| Biodiversity                         | Environment                            | Waste & Hazardous Materials Management   |  |  |  |
|                                      |  | Abor Practices<br>mployee Engagement, Diversity & Inclusion<br>hysical Impacts of Climate Change<br>ystemic Risk Management<br>cological Impacts<br>uman Rights & Community Relations<br>roduct Quality & Safety<br>Vaste & Hazardous Materials Management<br>ritical Incident Risk Management<br>Aterials Sourcing & Efficiency<br>roduct Design & Lifecycle Management<br>HG Emissions<br>nergy Management<br>roduct Design & Lifecycle Management<br>Aterials Sourcing & Efficiency<br>roduct Design & Lifecycle Management<br>/Aste & Hazardous Materials Management<br>Usiness Ethics<br>ompetitive Behavior<br>/A<br>abor Practices<br>mployee Health & Safety<br>uman Rights & Community Relations<br>ccess & Affordability |  |  |  |
| Sustainable Supply chain             | <b>Business model &amp; Innovation</b> | Supply Chain Management  |  |  |  |
|                                      |  | Business Ethics  |  |  |  |
| Anti-corruption                      | Leadership & Governance                | Competitive Behavior   |  |  |  |
| Project Procurement                  | N/A                                    | N/A  |  |  |  |
|                                      |  | Labor Practices  |  |  |  |
| Working Conditions                   | Human capital                          | Employee Health & Safety   |  |  |  |
|                                      | Social capital                         | Human Rights & Community Relations   |  |  |  |
| Service Affordability                | Social capital                         | Access & Affordability   |  |  |  |

Table 58: AISI- SASB Indicators per E,S,G aspect

|                          | AISI             |                 | SASB                       |                           |  |
|--------------------------|------------------|-----------------|----------------------------|---------------------------|--|
| E,S,G aspects            | No of Indicators | % of Indicators | No of Disclosure<br>Topics | % of Disclosure<br>Topics |  |
| ENVIRONMENTAL INDICATORS | 9                | 32%             | 16                         | 28%                       |  |
| SOCIAL INDICATORS        | 12               | 43%             | 12                         | 21%                       |  |
| GOVERNANCE INDICATORS    | 7                | 25%             | 29                         | 51%                       |  |
| TOTAL                    | 28               |                 | 57                         |                           |  |

As shown in the above table, the quantity of indicators in the two systems, as an absolute number, is not comparable, with SASB including 2-times the no. of AISI indicators. This is due to AISI's selection of a more comprehensive type of indicators to address topics as compared to SASB (e.g. indicators than refer to programs, management systems, action plans etc), as well as the SASB's industry-specificity of disclosure topics, that in many cases aim to capture material topics that only apply to some of the industries. However, if compared as percentages, the proportion of indicators per ESG theme is more equally balanced in AISI. In SASB the majority of indicators address governance aspects (51%) while in AISI the majority addresses social issues (43%). The two systems have a more similar percentage in indicators that address environmental issues (32% for AISI and 28% for SASB).

#### Table 59: Indicator type per E,S,G (AISI)

| AISI  |    |    |     |     |  |  |
|---|----|----|-----|-----|--|--|
| No of process-based No of quantitative % of process-based % of quantitative |    |    |     |     |  |  |
| ENVIRONMENTAL INDICATORS  | 2  | 7  | 22% | 78% |  |  |
| SOCIAL INDICATORS   | 7  | 5  | 58% | 42% |  |  |
| GOVERNANCE INDICATORS   | 6  | 1  | 86% | 14% |  |  |
| TOTAL   | 15 | 13 | 54% | 46% |  |  |

#### Table 60: Indicator type per E,S,G (SASB)

|                                 |                      | SASB                  |      |                        |                      |             |
|---------------------------------|----------------------|-----------------------|------|------------------------|----------------------|-------------|
|                                 | No of<br>qualitative | No of<br>quantitative | both | % of process-<br>based | % of<br>quantitative | % of "both" |
| ENVIRONMENTAL DISCLOSURE TOPICS | 0                    | 11                    | 5    | 0%                     | 69%                  | 31%         |
| SOCIAL DISCLOSURE TOPICS        | 3                    | 3                     | 6    | 25%                    | 25%                  | 50%         |
| GOVERNANCE DISCLOSURE TOPICS    | 6                    | 11                    | 12   | 21%                    | 38%                  | 41%         |
| TOTAL                           | 9                    | 25                    | 23   | 16%                    | 44%                  | 40%         |

#### PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

Main observations regarding the balance of quantitative vs process-based indicators per E,S,G:

- AISI's majority of indicators are process-based (54%) while SASB's majority of indicators are quantitative (44% plus the disclosure topics that include both quantitative and qualitative accounting metrics)
- In the Environmental category both systems have significantly higher quantitative indicators
- In the Social category, AISI has more process-based indicators, while GRI has more quantitative disclosure topics and associated accounting metrics if counting the ones that include both quantitative and qualitative accounting metrics (also result of the AISI'S more comprehensive type of indicators and associated metrics)
- In the Governance category AISI has only one quantitative indicator while SASB has 23 (12 as part of the both qualitative and quantitative disclosure topics)

#### Indicator-based mapping results

# Table 61: Mapping of SASB's General Issue Categories/Disclosure Topics & Accounting Metrics against AISI Topics & Indicators and Metrics

|   | AISI   |   |             | SASB  |   |  |  |
|---|--|---|-------------|---|---|--|--|
| SUSTAINABIL<br>ITY TOPIC                | INDICATOR  | METRIC  |             | GENERAL<br>ISSUE<br>CATEGORY                              | DISCLOSURE<br>TOPIC                                       | ACCOUNTING METRIC  |  |
| Option                                  | 1 Strategic options                                    | Existence of a strategic  |             | Ecological  | Environmental<br>impacts of                               | Discussion of processes to assess and<br>manage environmental risks<br>associated with project design, siting,<br>and construction   |  |
| Assessment                              | assessment   | options assessment  | 1           | Impacts   | project<br>development                                    | Description of efforts in (solar energy<br>system) project development to<br>address community and ecological<br>impacts   |  |
| Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system               | inability         Implementation of a           ement         sustainable management           system and reporting |             | Management<br>of the Legal &<br>Regulatory<br>Environment | Management of<br>the Legal &<br>Regulatory<br>Environment | Discussion of corporate positions<br>related to government regulations<br>and/or policy proposals that address<br>environmental and social factors<br>affecting the industry |  |
| munugement                              |  | N/A   |             |   |   | Amount of subsidies received through government programs   |  |
|   | 3 Gender equality,<br>inclusiveness and<br>empowerment | Existence and<br>Implementation of a  | 8<br>8<br>1 | Employee<br>Engagement,<br>Diversity &<br>Inclusion       | Employee<br>recruitment,<br>inclusion &<br>performance    | Percentage of gender and<br>racial/ethnic group representation<br>for (1) executive management and<br>(2) all other employees  |  |
| Gender                                  |  | action plan (GAP).  | l           | Labor Practices Labor Practices Descripto prev            |   | Description of policies and programs to prevent worker harassment  |  |
|   |  | N/A   | E           | Employee<br>Engagement,                                   | Employee<br>recruitment,                                  | Employee engagement as a percentage  |  |

|                           |   |   |                                 | Diversity &<br>Inclusion                 | inclusion &<br>performance  |  |
|---------------------------|---|---|---------------------------------|--|---|--|
|                           |   | N/A   |                                 |  | Employee<br>recruitment,<br>Development &<br>Retention  | Discussion of talent recruitment and retention efforts   |
|                           | 4 Climate Risk<br>Resilience                    | Implementation of a<br>climate risk adaptation<br>plan  |                                 |  | Climate Change<br>Adaptation  | Description of climate change risk<br>exposure analysis, degree of<br>systematic portfolio exposure, and<br>strategies for mitigating risks                    |
| Resilience                |   |   |                                 | Physical                                 |   | Area of properties located in 100-<br>year flood zones, by property<br>subsector   |
|                           |   |   | Impacts of<br>Climate<br>Change | Impacts of<br>Climate                    | Network<br>Resiliency &   | Wastewater treatment capacity located in 100-year flood zones  |
|                           |   |   |                                 | Impacts of<br>Climate Change             | <ol> <li>Number and (2) volume of<br/>sanitary sewer overflows (SSO), (3)<br/>percentage of volume recovered</li> </ol> |  |
|                           |   |   |                                 |  |   | (1) Number of unplanned service<br>disruptions, and (2) customers<br>affected, each by duration category   |
|                           | 5 Cybersecurity<br>resilience                   | Number of system<br>vulnerabilities identified<br>affecting infrastructure's<br>critical assets or<br>processes | :                               | Systemic Risk<br>Management              | Grid Resiliency   | Number of incidents of non-<br>compliance with physical and/or<br>cybersecurity standards or<br>regulations  |
|                           | 6 Stakeholder<br>engagement plan                | Existence of a<br>meaningful and inclusive<br>stakeholder engagement  | 1                               | Human Rights<br>& Community              | Community   | Discussion of process to manage risks<br>and opportunities associated with<br>community rights and interests   |
|                           |   | process and plan.   | Relations                       | relations                                | Number and duration of non-<br>technical delays   |  |
| Stakeholder<br>Engagement |   |   | 1                               | Ecological<br>Impacts                    | Environmental<br>impacts of<br>project<br>development   | Description of efforts in (solar energy<br>system) project development to<br>address community and ecological<br>impacts                                       |
|                           | 7 Free, Prior and<br>Informed Consent<br>(FPIC) | Obtainment of Free,<br>Prior and Informed<br>Consent (FPIC)   |                                 | Human Rights<br>& Community<br>Relations | Rights of<br>Indigenous<br>people   | Discussion of engagement processes<br>and due diligence practices with<br>respect to the management of<br>indigenous rights                                    |
|                           |   |   | ł                               |  | Security, Human<br>rights & Rights of<br>indigenous<br>people   | Discussion of engagement processes<br>and due diligence practices with<br>respect to human rights, indigenous<br>rights, and operation in areas of<br>conflict |

**Final Report** 

#### DRAFT, April 30, 2021

|  | 8 Involuntary<br>Resettlement  | People physically or<br>economically impacted<br>by the project           |                                  |   | Community                                      | Discussion of process to manage risks<br>and opportunities associated with<br>community rights and interests  |  |  |  |
|--|--------------------------------|---|----------------------------------|---|--|---|--|--|--|
|  |                                | N/A   |                                  |   | relations                                      | Number and duration of non-<br>technical delays   |  |  |  |
|  | 9 Heritage<br>assessment       | Implementation of<br>adequate cultural<br>heritage protection<br>measures |                                  | N/A   | N/A  | N/A   |  |  |  |
|  | 10 Public health<br>and safety | Implementation of a public health and safety                              |                                  |   |  | Amount of defect- and safety-related rework costs   |  |  |  |
|  | Pro<br>Qu<br>Sat               | Product   | Structural<br>Integrity & Safety | Total amount of monetary losses as a result of legal proceedings associated with defect- and safety-related incidents |  |   |  |  |  |
|  |                                |   |                                  | Quality &<br>Safety   | Drinking Water                                 | Number of (1) acute health-based,<br>(2) nonacute health-based, and (3)<br>non-health-based drinking water<br>violations  |  |  |  |
|  |                                |   |                                  |   | Quality  | iscussion of strategies to manage<br>rinking water contaminants of<br>merging concern<br>mount of coal combustion residuals<br>CCR) generated, percentage<br>ecycled  |  |  |  |
|  |                                |   |                                  |   |  | Amount of coal combustion residuals<br>(CCR) generated, percentage<br>recycled<br>Total number of coal combustion<br>residual (CCR) impoundments,<br>broken down by hazard potential<br>classification and structural integrity<br>assessment   |  |  |  |
|  |                                |   |                                  | Waste &<br>Hazardous  | Coal ash<br>management                         |   |  |  |  |
|  |                                |   |                                  | Materials<br>Management   | Management of<br>Leachate &<br>Hazardous Waste | esult of legal proceedings associated<br>vith defect- and safety-related<br>incidents<br>umber of (1) acute health-based,<br>2) nonacute health-based, and (3)<br>on-health-based drinking water<br>iolations<br>iscussion of strategies to manage<br>rinking water contaminants of<br>merging concern<br>mount of coal combustion residuals<br>CCR) generated, percentage<br>ecycled<br>otal number of coal combustion<br>esidual (CCR) impoundments,<br>roken down by hazard potential<br>lassification and structural integrity<br>ssessment<br>1) Total Toxic Release Inventory<br>TRI) releases, (2) percentage<br>eleased to water<br>mount of hazardous waste<br>enerated, percentage recycled<br>lumber and aggregate quantity of<br>eportable spills, quantity recovered<br>escription of management systems<br>sed to identify and mitigate<br>atastrophic and tail-end risks |  |  |  |
|  |                                |   |                                  |   |  | Amount of hazardous waste generated, percentage recycled  |  |  |  |
|  |                                |   |                                  |   | Hazardous Waste<br>Management                  | Number and aggregate quantity of reportable spills, quantity recovered  |  |  |  |
|  |                                |   |                                  | Critical<br>Incident Risk   | Critical Incident<br>Risk<br>Management        | Description of management systems<br>used to identify and mitigate<br>catastrophic and tail-end risks   |  |  |  |
|  |                                |   |                                  | Management  | Nuclear safety &<br>Emergency                  | Total number of nuclear power units,<br>broken down by US Nuclear   |  |  |  |

|       |                             |   |                                       | management                                     | Regulatory Commission Action<br>Matrix Column  |
|-------|-----------------------------|---|---------------------------------------|--|--|
|       |                             |   |                                       |  | Description of efforts to manage<br>nuclear safety and emergency<br>preparedness   |
|       |                             |   |                                       |  | Number of (1) reportable pipeline<br>incidents, (2) Corrective Action<br>Orders (CAO), and (3) Notices of<br>Probable Violation (NOPV)   |
|       |                             |   |                                       |  | Percentage of distribution pipeline<br>that is (1) cast and/or wrought iron<br>and (2) unprotected steel   |
|       |                             |   |                                       |  | Percentage of gas (1) transmission<br>and (2) distribution pipelines<br>inspected  |
|       |                             |   |                                       | Integrity of Gas<br>Delivery<br>Infrastructure | Description of efforts to manage the<br>integrity of gas delivery<br>infrastructure, including risks related<br>to safety and emissions  |
|       |                             |   |                                       |  | Number of road accidents and incidents   |
|       |                             |   |                                       |  | Safety Measurement System BASIC<br>percentiles for: (1) Unsafe Driving, (2)<br>Hours-of-Service Compliance, (3)<br>Driver Fitness, (4) Controlled<br>Substances/Alcohol, (5) Vehicle<br>Maintenance, and (6) Hazardous<br>Materials Compliance |
|       |                             |   |                                       | Accident &<br>Safety<br>Management             | (1) Number and (2)aggregate volume<br>of spills and releases to the<br>environment   |
|       | 11 Freshwater<br>withdrawal | Annual volume of<br>fresh water used by<br>the infrastructure | Water &<br>Wastewater<br>Management   | Water<br>Management                            | (1) Total water withdrawn, (2) total<br>water consumed, percentage of each<br>in regions with High or Extremely<br>High Baseline Water Stress  |
| Water |                             | project   | Materials<br>Sourcing &<br>Efficiency | Water Supply<br>Resilience                     | Total water sourced from regions<br>with High or Extremely High Baseline<br>Water Stress, percentage purchased<br>from a third party   |
|       |                             | N/A   | Water &                               | Distribution                                   | Water main replacement rate  |
|       |                             | N/A   | Wastewater<br>Management              | Network<br>Efficiency                          | Volume of non-revenue real water losses  |
|       |                             | N/A   | Materials                             | Water Supply                                   | Volume of recycled water delivered   |

#### Final Report

#### DRAFT, April 30, 2021

|              |                  |  |  | Sourcing &                                     | Resilience   | to customers   |
|--------------|------------------|--|--|--|--|--|
|              |                  | N/A  |  | Linclency                                      |  | Discussion of strategies to manage<br>risks associated with the quality and<br>availability of water resources   |
|              |                  | N/A  |  | Product<br>Design &<br>Lifecycle<br>Management | Lifecycle Impacts<br>of Buildings &<br>Infrastructure        | Discussion of process to incorporate<br>operational-phase energy and water<br>efficiency considerations into project<br>planning and design (engineering &<br>construction services)                 |
|              |                  | Volume of Greenhouse<br>gas emissions emitted by<br>the project    |  | GHG<br>Emissions                               | Greenhouse<br>emissions                                      | Gross global Scope 1 emissions and<br>percentage of Scope 1 emissions<br>emitted in areas that are subject to<br>emissions-limiting or emissions-<br>reporting regulation                            |
|              | 12 GHG emissions | N/A  |  |  |  | [in cases also] Percentage of of Scope<br>1 emissions associated with the<br>emission of a specific (per industry)<br>substance  |
|              |                  | N/A  |  |  |  | Discussion of long-term and short-<br>term strategy or plan to manage<br>Scope 1 and lifecycle emissions,<br>emissions reduction targets, and an<br>analysis of performance against<br>those targets |
| Energy / GHG |                  | N/A  |  |  |  | (1) Total landfill gas generated (2)<br>percentage flared (3) percentage<br>used for energy  |
|              |                  | (accounted as part of<br>Efficient use of<br>energy) <sup>50</sup> |  |  | Emissions  | Total fuel consumed; percentage<br>renewable; percentage used in: (1)<br>on-road equipment and vehicles (2)<br>off-road equipment  |
|              |                  | N/A  |  |  | Services & Fuels<br>management                               | Discussion of strategies or plans to<br>address air-emissions related risks,<br>opportunities and impacts  |
|              |                  | N/A  |  | -  |  | Percentage of engines in service that<br>meet Tier 4 compliance for non-road<br>diesel engine emissions  |
|              |                  | N/A  |  |  | Greenhouse Gas<br>Emissions &<br>Energy Resource<br>Planning | (1) Number of customers served in<br>markets to renewable portfolio<br>standards (RPS) and (2) percentage<br>fulfillment of RPS target by market   |

<sup>&</sup>lt;sup>50</sup> SASB has a different approach to GHG emissions, requesting disclosure of only direct emissions (Scope 1) and accounting for indirect emissions through energy management (Scope 2).

**Final Report** 

|                                    |                                    |  | _                |  |   | •  |
|------------------------------------|------------------------------------|--|------------------|--|---|--|
|                                    |                                    | (accounted as part of<br>Efficient use of<br>energy) |                  |  | Fleet fuel  | Fleet fuel consumed (2) percentage<br>natural gas, (3) percentage<br>renewable   |
|                                    |                                    | N/A  |                  |  | management  | Percentage of alternative fuel vehicles in fleet   |
|                                    |                                    | Amount of energy<br>consumed by the project          |                  |  |   | <ul><li>(1) Total energy consumed, (2)</li><li>percentage grid electricity, (3)</li><li>percentage renewable</li></ul>   |
| 13 Efficient use of                |                                    |  |                  | Energy<br>Management                                     | Energy<br>management  | (1) Total energy consumed by<br>portfolio area with data coverage, (2)<br>percentage grid electricity, and (3)<br>percentage renewable, by property<br>subsector                     |
|                                    |                                    |  |                  |  |   | Like-for-like percentage change in<br>energy consumption for the portfolio<br>area with data coverage, by property<br>subsector  |
|                                    |                                    |  | GHG<br>Emissions | Emissions<br>Reduction Services<br>& Fuels<br>management | Total fuel consumed; percentage<br>renewable; percentage used in: (1)<br>on-road equipment and vehicles (2)<br>off-road equipment |  |
|                                    |                                    |  |                  |  | Fleet fuel<br>management  | Fleet fuel consumed (2) percentage<br>natural gas, (3) percentage<br>renewable   |
|                                    |                                    | N/A  |                  | Energy<br>Manageme<br>nt                                 | Energy<br>management  | Percentage of eligible portfolio that<br>(1) has an energy rating and (2) is<br>certified to ENERGY STAR, by<br>property subsector   |
|                                    |                                    | N/A  |                  | GHG<br>Emissions   | Fleet fuel<br>management  | Percentage of alternative fuel vehicles in fleet   |
|                                    |                                    | N/A  |                  | Product<br>Design &<br>Lifecycle<br>Management           | Lifecycle Impacts of<br>Buildings &<br>Infrastructure   | Discussion of process to incorporate<br>operational-phase energy and water<br>efficiency considerations into project<br>planning and design (engineering &<br>construction services) |
|                                    | 14 Materials<br>lifecycle thinking | Consideration of<br>materials lifecycle<br>impacts   |                  |  | Materials   | Description of the management of risks associated with the use of critical materials   |
| Materials<br>lifecycle<br>approach |                                    |  |                  | Materials<br>Sourcing &<br>Efficiency                    | Sourcing  | Description of environmental and<br>social risks associated with sourcing<br>priority raw materials  |
|                                    |                                    |  |                  | Lincicity  | Product end of<br>life management   | (1) Materials recovered through take<br>back programs, percentage of<br>recovered materials that were  |

|             |                                     |  |   |  | reused, (3) recycled and (4)landfilled<br>(for telecommunication services)   |
|-------------|-------------------------------------|--|---|--|--|
|             |                                     |  | Supply Chain<br>Management                      | Environmental &<br>Social Impacts of<br>supply chain | Percentage of [materials] sourced<br>that are certified to a third-party<br>environmental and/or social<br>standard, and percentages by<br>standard  |
|             |                                     |  |   | Product End-of-<br>life Management                   | Percentage of materials with recycled content  |
|             |                                     |  |   |  | Weight of end-of-life material recovered, percentage recycled  |
|             |                                     |  |   |  | Description of approach and<br>strategies to design products for<br>high-value recycling   |
|             |                                     |  | Product<br>Design &<br>Lifecycle<br>Management  |  | Description of approach to manage<br>use, reclamation, and disposal of<br>hazardous materials  |
|             |                                     |  |   | Product<br>Innovation                                | Percentage of products that qualify<br>for credits in sustainable building<br>design and construction certification  |
|             |                                     |  |   |  | Total addressable market and share<br>of market for products that reduce<br>energy, water, and /or material<br>impacts during usage and/or<br>production   |
|             |                                     |  |   |  | Top five materials consumed, by weight   |
|             |                                     |  | Materials<br>Sourcing &<br>Efficiency           | RR-WT Materials<br>Efficiency                        | Description of approach to optimize<br>materials efficiency of wind turbine<br>design  |
|             | 15 Reduction of<br>Waste            | Percentage of total<br>waste diverted from<br>incineration and landfills | Waste &<br>Hazardous<br>Materials<br>Management | Waste<br>Management                                  | Amount of waste generated,<br>percentage hazardous, percentage<br>recycled   |
| Air Quality | 16 Fine particulate matter emission | Mean PM2.5 and PM10<br>emissions<br>N/A                                  | Air Quality                                     | Air quality  | Air emissions of the following<br>pollutants: (1) NOx (excluding N2O),<br>(2) SOx, (3) particulate matter<br>(PM10),volatile organic compounds<br>(VOCs), and (4) hazardous air<br>pollutants (HAPs) |
|             |                                     |  |   |  | Percentage of each pollutant<br>emission in or near areas of dense<br>population   |

Final Report

#### DRAFT, April 30, 2021

|              |                                 | N/A   |   |   | Number of facilities in or near areas of dense population  |
|--------------|---------------------------------|---|---|---|--|
|              |                                 | N/A   |   |   | Number of incidents of non-<br>compliance associated with air<br>emissions   |
|              | 17 Threatened<br>species        | Number of Aquatic and<br>Terrestrial Species<br>Impacted (Fauna and             |   | Biodiversity<br>impacts                               | Terrestrial acreage disturbed,<br>percentage of impacted area<br>restored  |
|              |                                 | Flora)  |   |   | Number of incidents of non-<br>compliance with environmental<br>permits, standards, and regulations                                |
|              |                                 |   | Ecological<br>Impacts                           | Environmental<br>impacts of<br>project<br>development | Discussion of processes to assess and<br>manage environmental risks<br>associated with project design, siting,<br>and construction |
|              |                                 | N/A   |   |   | Number and duration of project delays related to ecological impacts  |
|              |                                 | N/A   |   | Land use &<br>Ecological<br>impacts                   | Total amount of monetary losses as a<br>result of legal proceedings associated<br>with environmental regulations                   |
|              | 18 Watershed<br>Management      | Existence of an<br>Integrated Watershed<br>Assessment and<br>Management Program | Water &<br>Wastewater                           | Water<br>Management                                   | Number of incidents of non-<br>compliance associated with water<br>quantity and/or quality permits,<br>standards, and regulations  |
| Biodiversity |                                 |   |   |   | Description of water management<br>risks and discussion of strategies and<br>practices to mitigate those risks                     |
|              |                                 |   | Management                                      |   | Discussion of strategies to manage effluents of emerging concern   |
|              |                                 | N/A   |   | Effluent Quality<br>Management                        | Number of incidents of non-<br>compliance associated with water<br>effluent quality permits, standards,<br>and regulations         |
|              |                                 | N/A   |   | Management of   | Number of corrective actions<br>implemented for landfill releases  |
|              |                                 | N/A   | Waste &<br>Hazardous<br>Materials<br>Management | Leachate &<br>Hazardous Waste                         | Number of incidents of non-<br>compliance associated with<br>environmental impacts   |
|              |                                 | N/A   | Management                                      | Hazardous Waste<br>Management                         | Number and aggregate quantity of reportable spills, quantity recovered   |
|              | 19 Previously<br>Disturbed Land | Percentage of land used<br>by the project that has                              | Ecological<br>Impacts                           | Land use &<br>Ecological                              | Number of (1)lots and (2) homes delivered on redevelopment sites (in   |

## Final Report

#### DRAFT, April 30, 2021

|                             |   | been previously<br>disturbed or maintained<br>as non-disturbed                 |  | impacts  | Home builders)  |
|-----------------------------|---|--|--|--|---|
|                             | 20 Project supply<br>chain sustainability<br>management | Existence of a<br>sustainable procurement<br>plan and compliance<br>monitoring |  | Supply Chain<br>Management   | Discussion of strategy to manage<br>environmental and social risks arising<br>from the supply chain   |
| Sustainable<br>Supply chain |   |  |  |  | Percentage of [materials] sourced<br>that are certified to a third-party<br>environmental and/or social<br>standard, and percentages by<br>standard                               |
|                             |   |  | Supply Chain<br>Management<br>Social Impacts of<br>supply chain  | ain<br>ent Environmental &<br>Social Impacts of<br>supply chain  | Suppliers' social and environmental<br>responsibility audit (1) non-<br>conformance rate and (2) associated<br>corrective action rate for (a) major<br>and (b0 minor conformances |
|                             |   |  |  | Discussion of strategy to manage<br>environmental and social risks arising<br>from contract growing and<br>commodity sourcing            |   |
|                             |   |  |  |  | Number of facilities audited to a social responsibility code of conduct   |
|                             | 21 Anti-corruption<br>program                           | Implementation of an<br>anti-corruption program                                |  |  | Description of policies and practices<br>for prevention of (1) bribery and<br>corruption, and (2) anti-competitive<br>behavior in the project bidding<br>processes                |
|                             |   |  |  | Business ethics  | (1) Number of active projects and (2)<br>backlog in countries that have the 20<br>lowest rankings in Transparency<br>International's Corruption Perception<br>Index               |
| Anti-<br>corruption         |   |  | Business<br>Ethics   |  | Total amount of monetary losses as a<br>result of legal proceedings associated<br>with charges of (1) bribery or<br>corruption and (2) anticompetitive<br>practices               |
|                             |   |  | Business ethics & Amount<br>that hav<br>Transparency<br>Corrupti | Amount of net revenue in countries<br>that have the 20 lowest rankings in<br>Transparency International's<br>Corruption Perception Index |   |
|                             |   |  |  | Professional   | Description of approach to ensuring professional integrity  |
|                             |   |  |  | Integrity  | Total amount of monetary losses as a result of legal proceedings associated with professional integrity   |

|                        |                                       |  |  | Competitive   | Competitive<br>Behavior                                  | Total amount of monetary losses as a result of legal proceedings associated with anticompetitive behavior regulations  |
|------------------------|---------------------------------------|--|--|---|--|--|
|                        |                                       |  |  | Behavior  | Pricing Integrity<br>& Transparency                      | Total amount of monetary losses as a<br>result of legal proceedings associated<br>with price fixing or price<br>manipulation   |
| Project<br>Procurement | 22 Sustainability in<br>project award | Integration of the AISI in project tender process              |  | N/A   | N/A  | N/A  |
|                        | 23 Labor rights                       | Integration of<br>International Labour<br>Organisation's (ILO) |  |   |  | Percentage of active workforce<br>covered under collective bargaining<br>agreements  |
|                        |                                       | fundamental<br>conventions                                     |  | Labor   |  | Number of work stoppages and total days idle   |
|                        |                                       |  |  |   |  | Total amount of monetary losses as a<br>result of legal proceedings associated<br>with labor law violations;<br>employment discriminations   |
|                        |                                       |  | Practices Volumenter v | Voluntary and involuntary turnover rate for employees   |  |  |
|                        |                                       |  |  |   | Description of policies and<br>to prevent worker harassr | Description of policies and programs to prevent worker harassment  |
|                        |                                       |  | Percen<br>maxim  | Percentage of employees working maximum hours   |  |  |
| Working<br>Conditions  |                                       |  |  |   | Percentage of drivers cl<br>independent contractor       | Percentage of drivers classified as independent contractors  |
|                        | 24 Occupational<br>Health & Safety    | Implementation of a<br>Comprehensive OH&S                      | Discussion<br>used to in<br>Description<br>monitor, a<br>workforce   |   |  | Discussion of management systems used to integrate a culture of safety   |
|                        | Management<br>Systems                 |  |  | Description of efforts to assess,<br>monitor, and reduce exposure of<br>workforce to human health hazards |  |  |
|                        |                                       |  |  | Employee<br>Health &<br>Safety  | Workforce<br>Health & Safety                             | Total amount of monetary losses as a result of legal proceedings associated with employee health and safety violations   |
|                        |                                       |  |  | Jaiety  |  | Safety Measurement System BASIC<br>percentiles for:<br>(1) Unsafe Driving, (2) Hours-of-<br>Service Compliance, (3) Driver<br>Fitness, (4) Controlled<br>Substances/Alcohol, (5) Vehicle<br>Maintenance, and (6) Hazardous<br>Materials Compliance |

**Final Report** 

Se At DRAFT, April 30, 2021

|                        | 25 Frequency rates<br>of fatal and non-<br>fatal occupational<br>injuries                                      | Number of fatal and non-<br>fatal occupational<br>injuries |  | Employee<br>Health &<br>Safety  | Workforce<br>Health & Safety  | (1) Total recordable incident rate<br>(TRIR), (2) fatality rate, and (3) near<br>miss frequency rate (NMFR)<br>for (a) direct employees and (b)<br>contract employees            |
|------------------------|--|--|--|---|---|--|
|                        | P<br>W<br>26 Fair Wages  | Percentage of employees<br>who are paid a fair wage        |  | Labor   | Labor Practices   | Average hourly wage and percentage<br>of employees earning minimum<br>wage, by region  |
|                        |  |  | Fractices  |   | Percentage of employees paid for<br>overtime  |  |
|                        | 27 Local jobs<br>created   | Number of local jobs<br>created                            |  | Human Rights<br>& Community<br>Relations  | Community<br>relations  | Discussion of process to manage risks<br>and opportunities associated with<br>community rights and interests   |
| ervice<br>ffordability | 28 User       Ability to pay (ATP) of project beneficiaries         affordability       Access & Affordability |  | Average retail (electric/ water/gas)<br>rate for (1) residential, (2)<br>commercial, and (3) industrial<br>customers |   |   |  |
|                        |  |  |  |   |   | Typical monthly (electric/ water/gas)<br>bill for residential customers for (1)<br>500 kWh and (2) 1,000 kWh of<br>electricity delivered per month                               |
|                        |  |  |  | Access & (Energy/ water/<br>Affordability gas) affordability Number of resid<br>(electric/ water<br>for non-paymer<br>reconnected with<br>Discussion of im<br>factors on custor<br>([service] (elect<br>including the ex-<br>the service terr | Number of residential customer<br>(electric/ water/gas) disconnections<br>for non-payment, percentage<br>reconnected within 30 days |  |
|                        |  |  |  |   |   | Discussion of impact of external<br>factors on customer affordability of<br>([service] (electricity/ water/gas)<br>including the economic conditions of<br>the service territory |

In total, 47 of the 57 disclosure topics of SASB and their associated 116 accounting metrics were linked to 25 AISI indicators. This basic mapping exercise revealed 10 SASB disclosure topics & 26 associated metrics, which could not be linked to any of AISI's indicators and therefore these correspond to WEF's additional metrics and disclosures:

#### Table 62: SASB Additional Disclosure Topics & associated metrics

| DIMENSION      | GENERAL ISSUE<br>CATEGORY     | DISCLOSURE<br>TOPIC | ACCOUNTING METRIC  |  |  |
|----------------|-------------------------------|---------------------|--|--|--|
| Social capital | I Data Security Data Security | Data Security       | <ul> <li>(1) Number of data breaches, (2) percentage involving personally<br/>identifiable information (PII), (3) number of customers affected</li> <li>Description of approach to identifying and addressing data security risks,<br/>including use of third-party cybersecurity standards</li> </ul> |  |  |

|                                |   |   | (1) Number of data breaches, (2) percentage involving customers' confidential business information (CBI) or personally identifiable information (PII), (3) number of customers affected       |  |
|--------------------------------|---|---|---|--|
|                                | Customer Privacy                            | Data Privacy  | (1) Number of data breaches, (2) percentage involving personally identifiable information (PII), (3) number of customers affected   |  |
|                                |   |   | Description of approach to identifying and addressing data security risks, including use of third-party cybersecurity standards   |  |
|                                |   |   | (1) Number of data breaches, (2) percentage involving customers'<br>confidential business information (CBI) or personally identifiable<br>information (PII), (3) number of customers affected |  |
|                                | Product Design &                            | Climate impacts of<br>business mix                    | Amount of backlog for (1) cancellation associated with hydrocarbon-<br>related projects and (2) renewable energy projects   |  |
|                                | Lifecycle<br>Management                     |   | Amount of backlog for non-energy projects associated with climate change mitigation   |  |
|                                | Product Design &<br>Lifecycle<br>Management | Management of<br>Energy<br>Infrastructure             | Description of risks associated with integration of solar energy into existing energy infrastructure and discussion of efforts to manage those risks  |  |
|                                |   | Integration &<br>Related Regulations                  | Description of risks and opportunities associated with energy policy and<br>its impact on the integration of solar energy into existing energy<br>infrastructure                              |  |
|                                | Product Design &<br>Lifecycle<br>Management | Fuel Economy &<br>Use-phase                           | Discussion of strategy for managing fleet fuel economy and emissions risks and opportunities  |  |
|                                |   | Emissions   | Fleet utilization rate  |  |
| Business model<br>& Innovation |   | RR-WT Ecological<br>Impacts of Project<br>Development | Average A-weighted sound power level of wind turbines, by wind turbine class  |  |
|                                |   |   | Backlog cancellations associated with community or ecological impacts   |  |
|                                |   |   | Description of efforts to address ecological and community impacts of wind energy production through turbine design   |  |
|                                |   |   | Percentage of electric/gas utility revenues from rate structures that (1) are decoupled and (2) contain a lost revenue adjustment mechanism (LRAM)  |  |
|                                |   | End-Use Efficiency<br>& Demand                        | Percentage of water utility revenues from rate structures that are designed to promote conservation and revenue resilience  |  |
|                                | Business Model<br>Resilience                | C Demand  | Percentage of electric load served by smart grid technology   |  |
|                                |   |   | Customer electricity/water/gas savings from efficiency measures, by market  |  |
|                                |   | Recycling &   | (1) Amount of waste incinerated, (2) percentage hazardous, (3) percentage used for energy recovery  |  |

|                            |   | Resource Recovery<br>(for waste<br>management)                 | Percentage of customers receiving (1) recycling and (2) composting services, by customer type  |
|----------------------------|---|--|--|
|                            |   |  | Amount of material (1) recycled, (2) composted, and (3) processed as waste-to- energy  |
|                            |   |  | Amount of electronic waste collected, percentage recovered through recycling   |
|                            | Systemic Risk<br>Management Grid Resiliency |  | (1) System Average Interruption Duration Index (SAIDI), (2) System<br>Average Interruption Frequency Index (SAIFI), and (3) Customer Average<br>Interruption Duration Index (CAIDI), inclusive of major event days |
| Leadership &<br>Governance | Systemic Risk<br>Management                 | Managing Systemic<br>Risks from<br>Technology<br>Interruptions | (1) System average interruption frequency and (2) customer average interruption duration   |
|                            |   |  | Discussion of systems to provide unimpeded service during service interruptions  |

Moreover, it is worth highlighting those cases in which though a SASB disclosure topic was linked with an AISI indicator, part of its associated accounting metrics were not included in AISI:

## Table 63: SASB Accounting metrics not included in AISI linked indicators

| AISI INDICATORS               | SASB DISCLOSURE<br>TOPICS                             | SASB ACCOUNTING METRICS  | type of<br>METRIC |
|-------------------------------|---|--|-------------------|
| 3 Gender equality,            | Employee  | Employee engagement as a percentage  | cross-industry    |
| inclusiveness and empowerment | & performance   | Discussion of talent recruitment and retention efforts   | cross-industry    |
| 8 Involuntary<br>Resettlement | Community relations                                   | Number and duration of non-technical delays  | cross-industry    |
|                               | Distribution Network                                  | Water main replacement rate  | industry-specific |
|                               | Efficiency  | Volume of non-revenue real water losses  | industry-specific |
| 11 Fueshwatar                 |   | Volume of recycled water delivered to customers  | industry-specific |
| withdrawal                    | Water Supply<br>Resilience                            | Discussion of strategies to manage risks associated with the quality and availability of water resources   | cross-industry    |
|                               | Lifecycle Impacts of<br>Buildings &<br>Infrastructure | Discussion of process to incorporate operational-phase energy and water efficiency considerations into project planning and design (engineering & construction services)                           | cross-industry    |
|                               |   | [in cases also] Percentage of of Scope 1 emissions associated with the emission of a specific (per industry) substance   | industry-specific |
| 12 GHG emissions              | Greenhouse<br>emissions                               | Discussion of long-term and short-term strategy or plan to manage<br>Scope 1 and lifecycle emissions, <b>emissions reduction targets</b> , and an<br>analysis of performance against those targets | cross-industry    |

|                                     |   | (1) Total landfill gas generated (2) percentage flared (3) percentage used for energy   | industry-specific |
|-------------------------------------|---|---|-------------------|
|                                     | Emissions Reduction<br>Services & Fuels                   | Discussion of strategies or plans to address air-emissions related risks, opportunities and impacts   | cross-industry    |
|                                     | management  | Percentage of engines in service that meet Tier 4 compliance for non-road diesel engine emissions   | cross-industry    |
|                                     | Greenhouse Gas<br>Emissions & Energy<br>Resource Planning | (1) Number of customers served in markets to renewable portfolio<br>standards (RPS) and (2) percentage fulfillment of RPS target by<br>market                                   | industry-specific |
|                                     | Energy management   | Percentage of eligible portfolio that (1) has an energy rating and (2) is certified to ENERGY STAR, by property subsector   | cross-industry    |
| 13 Efficient use of<br>energy       | Fleet fuel<br>management                                  | Percentage of alternative fuel vehicles in fleet  | cross-industry    |
|                                     | Lifecycle Impacts of<br>Buildings &<br>Infrastructure     | Discussion of process to incorporate operational-phase <b>energy</b> and water efficiency considerations into project planning and design (engineering & construction services) | cross-industry    |
|                                     |   | Percentage of each pollutant emission in or near areas of dense population  | cross-industry    |
| 16 Fine particulate matter emission | Air quality   | Number of facilities in or near areas of dense population   | cross-industry    |
|                                     |   | Number of incidents of non-compliance associated with air emissions   | cross-industry    |
| 17 Threatened                       | Ecological Impacts  | Number and duration of project delays related to ecological impacts   | cross-industry    |
| species                             | Land use & Ecological<br>impacts                          | Total amount of monetary losses as a result of legal proceedings associated with environmental regulations  | cross-industry    |
|                                     | Effluent Quality<br>Management                            | Number of incidents of non-compliance associated with water effluent quality permits, standards, and regulations  | cross-industry    |
|                                     | Management of   | Number of corrective actions implemented for landfill releases  | industry-specific |
| 18 Watershed<br>Management          | Leachate & Hazardous<br>Waste                             | Number of incidents of non-compliance associated with environmental impacts   | cross-industry    |
|                                     | Hazardous Waste<br>Management                             | Number and aggregate quantity of reportable spills, quantity recovered  | cross-industry    |

After having linked all relevant indicators, the indicator-based mapping revealed several types of relevance between AISI indicators and the linked SASB disclosure topics & accounting metrics, based on the rationale for assigning alignment levels for standards detailed mapping (See Section 8.2. Detailed mapping methodology).

The results of the Indicator-based mapping with respect to the alignment levels mentioned are summarized in the following table:

#### Table 64: AISI-SASB Indicator-based Mapping Results

|   |  | no.of                | no.of                 | RELEVANCE TO SASB    |         |
|---|--|----------------------|-----------------------|----------------------|---------|
| SUSTAINABILITY TOPICS   | INDICATORS                                       | disclosure<br>topics | accounting<br>metrics | type of<br>relevance | level   |
| Option Assessment   | 1 Strategic options assessment                   | 1                    | 2                     | <b>3</b> a           | PARTIAL |
| Project Sustainability<br>Management  | 2 Sustainability management system               | 1                    | 2                     | 4                    | LOW     |
| Gender  | 3 Gender equality, inclusiveness and empowerment | 3                    | 4                     | 3a                   | PARTIAL |
|   | 4 Climate Risk Resilience                        | 2                    | 5                     | 1                    | FULL    |
| Resilience  | 5 Cybersecurity resilience                       | 1                    | 1                     | 3b                   | PARTIAL |
|   | 6 Stakeholder engagement plan                    | 2                    | 3                     | <b>3</b> a           | PARTIAL |
| Stakeholder Engagement  | 7 Free, Prior and Informed Consent<br>(FPIC)     | 2                    | 2                     | 1                    | FULL    |
|   | 8 Involuntary Resettlement                       | 1                    | 2                     | 3c                   | PARTIAL |
|   | 9 Heritage assessment                            | 0                    | 0                     | 5                    | NONE    |
|   | 10 Public health and safety<br>management plan   | 9                    | 19                    | 2b                   | HIGH    |
| Water   | 11 Freshwater withdrawal                         | 4                    | 7                     | 1                    | FULL    |
|   | 12 GHG emissions                                 | 4                    | 10                    | 3b                   | PARTIAL |
|   | 13 Efficient use of energy                       | 3                    | 7                     | 1                    | FULL    |
| Materials lifecycle approach  | 14 Materials lifecycle thinking                  | 7                    | 13                    | 1                    | FULL    |
|   | 15 Reduction of Waste                            | 1                    | 1                     | 1                    | FULL    |
| Air Quality   | 16 Fine particulate matter emission              | 1                    | 4                     | 3b                   | PARTIAL |
| Biodiversity  | 17 Threatened species                            | 3                    | 5                     | 3b                   | PARTIAL |
| (FPIC)sakeholder Engagement8 Involuntary Resettlement9 Heritage assessment9 Heritage assessment10 Public health and safety<br>management plan/ater11 Freshwater withdrawal/ater12 GHG emissionshergy / GHG13 Efficient use of energy13 Efficient use of energy14 Materials lifecycle thinking15 Reduction of Wasteir Quality16 Fine particulate matter emissioniodiversity18 Watershed Management | 4  | 7                    | <b>3</b> a            | PARTIAL              |         |

Final Report

|                          | 19 Previously Disturbed Land  | 1 | 1 | 1  | FULL    |
|--------------------------|---|---|---|----|---------|
| Sustainable Supply chain | 20 Project supply chain sustainability<br>management                | 2 | 5 | 2b | HIGH    |
| Anti-corruption          | 21 Anti-corruption program  | 5 | 8 | 2b | HIGH    |
| Project Procurement      | 22 Sustainability in project award                                  | 0 | 0 | 5  | NONE    |
|                          | 23 Labor rights   | 1 | 7 | 3a | PARTIAL |
|                          | 24 Occupational Health & Safety<br>(OH&S) Management Systems        | 1 | 4 | 1  | FULL    |
| Working Conditions       | 25 Frequency rates of fatal and non-<br>fatal occupational injuries | 1 | 1 | 1  | FULL    |
|                          | 26 Fair Wages   | 1 | 2 | 2a | HIGH    |
|                          | 27 Local jobs created   | 1 | 1 | 3b | PARTIAL |
| Service Affordability    | 28 User affordability   | 1 | 4 | 1  | FULL    |

Observations regarding the number of linked disclosure topics per AISI indicator:

- 11 AISI indicators are linked to 1 SASB disclosure topic, while the majority of AISI's indicators (15) are linked to more than 1 SASB disclosure topic. The average number of SASB disclosure topics per AISI indicator is 2.4.
- The two indicators covered by the higher number of disclosure topics, 5 and 9 are 'Anti-corruption program' and 'Public health and safety management plan' respectively.
- 2 AISI indicators have no alignment with SASB disclosure topics, 'Sustainability in project award' and 'Heritage assessment'.

Observations regarding the levels of alignment per AISI indicator

- the majority of AISI's indicators are either fully covered (10 indicators) or partially covered (11) by SASB's disclosure topics
- Only 1 of the indicators has low coverage
- The most common types of relevance between an AISI indicator and SASB's disclosure topics are type 3a, the case when an AISI indicator has a wider scope not adequately covered by SASB; and type 3b, i.e. the case where an AISI indicator is linked to one SASB disclosure and can only be partially covered, either because SASB has a broader scope that tackles the issue and/or has a different approach or methodology in addressing the issue.

# 8.6. TCFD-AISI detailed mapping findings

The TCFD Recommendations, since their launch in 2017, have known growing support by major organizations and companies globally. Many established ESG standards and frameworks have initiated an effort to align with the TCFD approach, or demonstrate their alignment, both individually

and collectively. A key driver for TCFD alignment was investors' explicit request for "international standard-setting bodies to incorporate the TCFD recommendations into their standards". Due to its widespread uptake, the mapping of AISI against the TCFD framework is of importance for AISI's mapping exercise.

Given the narrower scope of TCFD recommendations, climate-related financial disclosures, the detailed mapping of AISI is only against AISI's climate-related indicators.

Two mappings are performed against TCFD:

- Mapping of AISI indicators against TCFD 11 Recommended disclosures.
- Mapping of AISI indicators and metrics against the TCFD example metrics for non-financial companies.

#### Structure Compatibility

| AISI | TOPICS                        | INDICATORS                                  | METRICS |  |  |
|------|-------------------------------|---|---------|--|--|
| TCFD | CORE ELEMENTS                 | RECOMMENDED DISCLOSURES (including metrics) |         |  |  |
|      | CLIMATE-RELATED<br>CATEGORIES | EXAMPLE METRICS                             |         |  |  |

### **Indicator-based mapping results**

The following table shows the specific links between TCFD's recommended disclosures and AISI's indicators.

#### Table 65: Mapping of AISI's indicators against TCFD recommended disclosures

|   | TCFD  | AISI                                    |                                       |   |  |
|---|---|---|---------------------------------------|---|--|
|   | RECOMMENDED DISCLOSURES   | Sustainability<br>Topics                | Indicators                            | Metric  |  |
| GOVERNANCE<br>Disclose the<br>organization's  | a) Describe the board's oversight of<br>climate-related risks and<br>opportunities.   | N/A                                     | N/A                                   | N/A   |  |
| governance around<br>climate-related risks<br>and opportunities.                      | b) Describe management's role in<br>assessing and managing climate-<br>related risks and opportunities.                                 | Project<br>Sustainability<br>Management | 2 Sustainability<br>management system | Implementation of a<br>sustainable management<br>system and reporting |  |
| <b>STRATEGY</b><br>Disclose the actual<br>and potential impacts<br>of climate-related | a) Describe the climate-related risks<br>and opportunities the organization<br>has identified over the short,<br>medium, and long term. | Resilience                              | 4 Climate Risk<br>Resilience          | Existence of a climate risk<br>adaptation plan                        |  |

**Final Report** 

#### DRAFT, April 30, 2021

| risks and<br>opportunities on the<br>organization's<br>businesses, strategy,<br>and financial planning<br>where such<br>information is<br>material. | <ul> <li>b) Describe the impact of climate-<br/>related risks and opportunities on the<br/>organization's businesses, strategy,<br/>and financial planning.</li> </ul>                       | Resilience  | 4 Climate Risk<br>Resilience          | Existence of a climate risk<br>adaptation plan                        |
|---|--|---|---------------------------------------|---|
|   | c) Describe the resilience of the<br>organization's strategy, taking into<br>consideration different climate<br>related scenarios, including a 2°C or<br>lower scenario.                     | Resilience  | 4 Climate Risk<br>Resilience          | Existence of a climate risk<br>adaptation plan                        |
| <b>RISK MANAGEMENT</b><br>Disclose how the<br>organization  | a) Describe the organization's<br>processes for identifying and<br>assessing climate-related risks.  | N/A   | N/A                                   | N/A   |
| identifies, assesses,<br>and manages climate-   | <ul> <li>b) Describe the organization's</li> <li>processes for managing climate-</li> </ul>  | Resilience  | 4 Climate Risk<br>Resilience          | Existence of a climate risk adaptation plan                           |
| related risks.  | related<br>risks.  | Project<br>Sustainability<br>Management               | 2 Sustainability<br>management system | Implementation of a<br>sustainable management<br>system and reporting |
|   |  | Project<br>Procurement                                | 22 Sustainability in project award    | Sustainability requirements<br>included in project tender<br>process  |
|   | <ul> <li>c) Describe how processes for<br/>identifying, assessing, and managing<br/>climate-related risks are integrated<br/>into the organization's overall risk<br/>management.</li> </ul> | N/A   | N/A                                   | N/A   |
| METRICS AND<br>TARGETS<br>Disclose the metrics<br>and targets used to<br>assess and manage  | a) Disclose the metrics used by the<br>organization to assess climate related<br>risks and opportunities in line with its<br>strategy and risk management<br>process.                        | DEPENDS ON SECTOR<br>(see metrics mapping per sector) |                                       |   |
| relevant climate<br>related risks and<br>opportunities where  | <ul> <li>b) Disclose Scope 1, Scope 2, and, if<br/>appropriate, Scope 3 greenhouse gas<br/>(GHG) emissions, and the related risks.</li> </ul>  | Energy / GHG  | 12 GHG emissions                      | Volume of Greenhouse gas<br>emissions emitted by the<br>project       |
| such information is material.   | <ul> <li>c) Describe the targets used by the<br/>organization to manage climate<br/>related risks and opportunities and<br/>performance against targets.</li> </ul>                          | Project<br>Sustainability<br>Management               | 2 Sustainability<br>management system | Implementation of a<br>sustainable management<br>system and reporting |

The mapping table above shows that three recommended disclosures of TCFD are not covered by AISI. The remaining 10 disclosures are all linked with AISI's topics and indicators.

Considering that TCFD's recommendations refer exclusively to climate-related financial disclosures, only a few of AISI's sustainability topics and indicators were expected to be mapped against the recommendations. The table below shows the number of AISI disclosures covered by each related AISI indicator. It is observed that TCFD's disclosures are covered only by 4 (three governance and 1 environmental) out of the 28 in total sustainability indicators of AISI.

### Table 66: No.of TCFD recommended disclosures addressed per each AISI indicator
**Final Report** 

|                             | AISI  | No of TCFD disclosures       |
|-----------------------------|---|------------------------------|
| Indicators                  | Metric  | addressed per AISI indicator |
| 2 Sustainability management | Implementation of a sustainable management    | 2                            |
| system                      | system and reporting                          | 5                            |
| 4 Climate Risk Resilience   | Existence of a climate risk adaptation plan   | 4                            |
| 2 Sustainability management | Implementation of a sustainable management    | 2                            |
| system                      | system and reporting                          | Z                            |
| 12 GHG emissions            | Volume of Greenhouse gas emissions emitted by | 1                            |
|                             | the project                                   | I I                          |

TCFD's recommended "disclosure a" under the "METRICS AND TARGETS" category, suggests to organizations to disclose the metrics used to assess climate related risks and opportunities in line with its strategy and risk management process. The supplemental Guidance provides illustrative examples of metrics for each of the four non-financial groups: a)Energy, b) Transportation, c)Materials and Buildings , and d)Agriculture, Food and Forest. <sup>51</sup>

In order to assess the coverage of the specific disclosure by AISI's indicators, a separate mapping is performed against the example metrics of the three comparable to AISI non-financial groups<sup>52</sup>. The following table presents this mapping by classifying the example metrics of TCFD per climate-related category<sup>53</sup>.

# Table 67: Mapping of AISI's indicators against TCFD's illustrative example metrics (classified per climate-related category)

|                                  | TCFD  | AISI                      |                     |   |
|----------------------------------|---|---------------------------|---------------------|---|
| CLIMATE -<br>RELATED<br>CATEGORY | EXAMPLE METRICS   | SUSTAINABILI<br>TY TOPICS | INDICATORS          | METRICS   |
| GHG<br>Emissions                 | Estimated Scope 3 emissions, including methodologies and emission factors used  | Energy / GHG              | 12 GHG<br>emissions | Volume of Greenhouse<br>gas emissions emitted<br>by the project |
|                                  | Describe current carbon price or range of prices used   | N/A                       | N/A                 | N/A   |
|                                  | Amount of gross global Scope 1 emissions from: (1)<br>combustion, (2) flared hydrocarbons, (3) process<br>emissions, (4) directly vented releases, and (5) fugitive | Energy / GHG              | 12 GHG<br>emissions | Volume of Greenhouse<br>gas emissions emitted<br>by the project |

<sup>&</sup>lt;sup>51</sup> The example metrics are mentioned in "recommended disclosure a" under the "METRICS AND TARGETS". According to TCFD guidance "Organizations should consider providing key metrics related to GHG emissions, energy, water, land use, and, if relevant, investments in climate adaptation and mitigation that address potential financial aspects of shifting demand, expenditures, asset valuation, and cost of financing.(Source: Recommendations of the Task Force on Climate-related Financial disclosures - Final Document, June 2017

<sup>&</sup>lt;sup>52</sup> The fourth group "Agriculture, Food and Forest" is excluded from this mapping exercise together with the Financial Groups' example metrics because these groups do not fall inside ASSI's scope.

<sup>&</sup>lt;sup>53</sup> The mapping of ASSI's indicators against the example metrics of each of the three non-financial groups can be found in the APPENDIX F.

|                         | emissions/leaks  |   |  |  |
|-------------------------|--|---|--|--|
|                         | A breakdown of reserves by type and an indication of<br>associated emissions factors to provide insight into<br>potential future emissions   | Energy / GHG                            | 12 GHG<br>emissions                      | Volume of Greenhouse<br>gas emissions emitted<br>by the project          |
|                         | Road vehicles—Geographic breakdown of GHG<br>emissions: emissions and/or emission intensity of<br>products for key geographies against regulatory<br>requirements/targets  | Energy / GHG                            | 12 GHG<br>emissions                      | Volume of Greenhouse<br>gas emissions emitted<br>by the project          |
|                         | Life cycle reporting of GHG emissions of<br>Transportation products (air, ship, rail, truck, auto)   | Energy / GHG                            | 12 GHG<br>emissions                      | Volume of Greenhouse<br>gas emissions emitted<br>by the project          |
|                         | GHG emissions intensity from buildings (by occupants<br>or square area) and from new construction and<br>redevelopment   | Energy / GHG                            | 12 GHG<br>emissions                      | N/A  |
|                         | A breakdown of reserves and an indication of<br>associated emissions factors to provide insight into<br>potential future emissions   | Energy / GHG                            | 12 GHG<br>emissions                      | Volume of Greenhouse<br>gas emissions emitted<br>by the project          |
| Risk<br>Adaptation<br>& | Revenues/savings from investments in low-carbon<br>alternatives (e.g., R&D, equipment, products or<br>services)  | N/A                                     | N/A                                      | N/A  |
| Mitigation              | Expenditures (OpEx) for low carbon alternatives (e.g.,<br>R&D, equipment, products, or services)   | N/A                                     | N/A                                      | N/A  |
|                         | Proportion of capital allocation to long-lived assets versus short-term assets   | N/A                                     | N/A                                      | N/A  |
|                         | Investment (CapEx) in low carbon alternatives (e.g.,<br>capital equipment or assets)   | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable<br>management system<br>and reporting |
|                         | Capital payback periods or return on capital deployed  | N/A                                     | N/A                                      | N/A  |
|                         | Revenues/savings from investments in low-carbon<br>alternatives (e.g., R&D, equipment, products or<br>services)  | N/A                                     | N/A                                      | N/A  |
|                         | Vehicle sales (historical, current and projected) by<br>category (e.g., gas vehicles, diesel vehicles, battery<br>electric vehicles, plug-in hybrid electric vehicles,<br>alternative-powered vehicles (LPG, CNG, fuel cells,<br>compressed air) | N/A                                     | N/A                                      | N/A  |
|                         | Energy Efficiency Design Index (EEDI) for new ships  | N/A                                     | N/A                                      | N/A  |
|                         | Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   | N/A                                     | N/A                                      | N/A  |

|             | Investments (CapEx) in low-carbon transportation equipment or transportation services   | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable<br>management system<br>and reporting |
|-------------|---|---|--|--|
|             | Revenues/savings from investments in low-carbon<br>alternatives (e.g., R&D, equipment, products or<br>services)   | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable<br>management system<br>and reporting |
|             | Expenditures (OpEx) for low-carbon alternatives (e.g.,<br>R&D, technology, products, or services)   | N/A                                     | N/A                                      | N/A  |
|             | For each property type, the percentage certified as sustainable   | N/A                                     | N/A                                      | N/A  |
|             | Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)   | Materials<br>lifecycle<br>approach      | 15 Reduction of<br>Waste                 | N/A  |
|             |   | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable<br>management system<br>and reporting |
| Water       | Percent water withdrawn in regions with high or extremely high baseline water stress  | Water                                   | 11 Freshwater<br>withdrawal              | Annual volume of fresh<br>water used by the<br>infrastructure project    |
|             | Assets committed in regions with high or extremely<br>high baseline water stress  | Water                                   | 11 Freshwater<br>withdrawal              |  |
|             | Percent of fresh water withdrawn in regions with high or extremely high baseline water stress   | Water                                   | 11 Freshwater<br>withdrawal              | Annual volume of fresh<br>water used by the<br>infrastructure project    |
|             | Building water intensity (by occupants or square area)  | Water                                   | 11 Freshwater<br>withdrawal              | N/A  |
| Energy/Fuel | Indicative costs of supply for current and committed<br>future projects (e.g., through a cost curve or indicative<br>price range. This could be broken down by product,<br>asset, or geography) | N/A                                     | N/A                                      | N/A  |
|             | Sales-weighted average fleet fuel economy, by region and weight/number of people transported  | N/A                                     | N/A                                      | N/A  |
|             | Total fuel consumed and percent renewable for road, airlines, marine, rail (?)  | Energy / GHG                            | 13 Efficient use of energy               | Amount of energy<br>consumed by the project                              |
|             | Total energy consumed, broken down by source (e.g., purchased electricity and renewable sources)  | Energy / GHG                            | 13 Efficient use<br>of energy            | Amount of energy<br>consumed by the project                              |
|             | Total fuel consumed—percentage from coal, natural gas, oil, and renewable sources   | Energy / GHG                            | 13 Efficient use<br>of energy            | Amount of energy<br>consumed by the project                              |
|             | Total energy intensity—by tons of product, amount of sales, number of products depending on informational value   | Energy / GHG                            | 13 Efficient use of energy               | N/A  |
|             | Building energy intensity (by occupants or square   | Energy / GHG                            | 13 Efficient use                         | N/A  |

**Final Report** 

|          | area)  |            |                              |     |
|----------|--|------------|------------------------------|-----|
| Location | Area of buildings, plants or properties located in designated flood hazard areas | Resilience | 4 Climate Risk<br>Resilience | N/A |

Each example metric is linked to either one or no indicators/metrics from AISI, except for the "Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)" which is partially covered by two metrics of AISI.

Table 68: Example metrics of TCFD non-financial groups that are not covered by AISI's indicators/metrics (per climate-related category)

|                                  | TCFD   |
|----------------------------------|--|
| CLIMATE -<br>RELATED<br>CATEGORY | EXAMPLE METRICS  |
| GHG Emissions                    | Describe current carbon price or range of prices used  |
| Risk Adaptation & Mitigation     | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  |
|                                  | Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)  |
|                                  | Proportion of capital allocation to long-lived assets versus short-term assets   |
|                                  | Capital payback periods or return on capital deployed  |
|                                  | Vehicle sales (historical, current and projected) by category (e.g., gas vehicles, diesel vehicles,<br>battery electric vehicles, plug-in hybrid electric vehicles, alternative-powered vehicles (LPG,<br>CNG, fuel cells, compressed air) |
|                                  | Energy Efficiency Design Index (EEDI) for new ships  |
|                                  | Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   |
|                                  | For each property type, the percentage certified as sustainable  |
| Energy/Fuel                      | Indicative costs of supply for current and committed future projects (e.g., through a cost curve or indicative price range. This could be broken down by product, asset, or geography)   |
|                                  | Sales-weighted average fleet fuel economy, by region and weight/number of people transported   |

Similarly to the mapping performed against TCFD's disclosures, the mapping against its example metrics reveals that the metrics are related to 6 out of the total 28 AISI indicators, as shown in the following table. The GHG emissions indicator is the most used in the mapping as it addresses 7 example metrics of TCFD.

2 Sustainability

management system

12 GHG emissions

4 Climate Risk Resilience

11 Freshwater withdrawal

13 Efficient use of energy

15 Reduction of Waste

4

1

4

7

5

1

|            | AISI |      | No of TCFD metrics |
|------------|------|------|--------------------|
| Indicators | Met  | rics | indicator          |

Implementation of a sustainable management system and

N/A

Annual volume of fresh water used by the infrastructure project

N/A

Volume of Greenhouse gas emissions emitted by the project

Amount of energy consumed by the project

#### Table 69: No. of TCFD example metrics (for non-financial groups) addressed per each AISI indicator

# Table 70: TCFD's recommended disclosures mapping results

reporting

| TCFE  | D RECOMMENDED DISCLOSURES  | No of AISI's<br>indicators | COVERAGE<br>LEVEL BY<br>AISI |
|---|--|----------------------------|------------------------------|
| GOVERNANCE<br>Disclose the organization's   | a) Describe the board's oversight of climate-related risks and opportunities.  | 1                          | NONE                         |
| governance around<br>climate-related risks and<br>opportunities.  | b) Describe management's role in assessing and managing climate - related risks and opportunities.   | 1                          | PARTIAL                      |
| STRATEGY<br>Disclose the actual and<br>potential impacts of   | <ul> <li>a) Describe the climate-related risks and opportunities<br/>the organization has identified over the short, medium,<br/>and long term.</li> </ul>         | 1                          | PARTIAL                      |
| climate-related risks and<br>opportunities on the<br>organization's businesses,<br>strategy, and financial<br>planning where such | <ul> <li>b) Describe the impact of climate-related risks and<br/>opportunities on the organization's businesses, strategy,<br/>and financial planning.</li> </ul>  | 1                          | PARTIAL                      |
| information is material.  | c) Describe the resilience of the organization's strategy,<br>taking into consideration different climate related<br>scenarios, including a 2°C or lower scenario. | 1                          | PARTIAL                      |
| RISK MANAGEMENT<br>Disclose how the   | <ul> <li>a) Describe the organization's processes for identifying<br/>and assessing climate related risks.</li> </ul>  | 1                          | NONE                         |
| organization identifies,<br>assesses, and manages<br>climate-related risks.   | b) Describe the organization's processes for managing climate related risks.   | 3                          | PARTIAL                      |
|   | c) Describe how processes for identifying, assessing, and<br>managing climate-related risks are integrated into the<br>organization's overall risk management.     | 1                          | NONE                         |

| METRICS AND TARGETS<br>Disclose the metrics and<br>targets used to assess and | a) Disclose the metrics used by the organization to assess<br>climate related risks and opportunities in line with its<br>strategy and risk management process. | DEPENDS ON SECTOR<br>(see metrics mapping per<br>sector) |      |
|---|---|--|------|
| related risks and<br>opportunities where such<br>information is material      | b) Disclose Scope 1, Scope 2, and, if appropriate, Scope 3 greenhouse gas (GHG) emissions, and the related risks.   | 1  | HIGH |
|   | c) Describe the targets used by the organization to<br>manage climate related risks and opportunities and<br>performance against targets.                       | 1  | HIGH |

The above mapping table shows that 7 out of 10<sup>54</sup> of the recommended disclosures are either partially or fully covered. The two disclosures that are fully covered are part of the METRICS AND TARGETS category and refer to Scope1, Scope2, Scope 3 Emissions and the organizations' targets towards climate-related issues.

It is also observed that each disclosure is linked with 1 AISI indicator, except for "RISK MANAGEMENT" disclosure b which is covered partially by 3 AISI indicators.

In some cases, due to its position as a framework, TCFD includes more detailed specifications than AISI of how to disclose some topics. This is still considered high alignment, considering that AISI is not a recommendation tool, and the objective is to address TCFD's recommendations by permitting users to follow them.

|                                  | TCDF  |                           |
|----------------------------------|---|---------------------------|
| CLIMATE -<br>RELATED<br>CATEGORY | EXAMPLE METRICS   | COVERAGE<br>LEVEL BY AISI |
| GHG                              | Estimated Scope 3 emissions, including methodologies and emission factors used  | HIGH                      |
| Emissions                        | Describe current carbon price or range of prices used   | NONE                      |
|                                  | Amount of gross global Scope 1 emissions from: (1) combustion, (2) flared hydrocarbons, (3) process emissions, (4) directly vented releases, and (5) fugitive emissions/leaks | HIGH                      |
|                                  | A breakdown of reserves by type and an indication of associated emissions factors to provide insight into potential future emissions  | PARTIAL                   |
|                                  | Road vehicles—Geographic breakdown of GHG emissions: emissions and/or emission intensity of products for key geographies against regulatory requirements/targets              | PARTIAL                   |

# Table 71: TCFD's example metrics mapping results

<sup>&</sup>lt;sup>54</sup> The disclosures are totally 11, but the mapping of disclosure a (in metrics and targets) is not considered here. So the considered disclosures for alignment are assumed to be 10 in this table.

|                    | Life cycle reporting of GHG emissions of Transportation products (air, ship, rail, truck, auto)  | HIGH    |
|--------------------|--|---------|
|                    | GHG emissions intensity from buildings (by occupants or square area) and from new construction and redevelopment   | PARTIAL |
|                    | A breakdown of reserves and an indication of associated emissions factors to provide insight into potential future emissions   | HIGH    |
| Risk<br>Adaptation | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | NONE    |
| &<br>Mitigation    | Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)  | NONE    |
| Winigation         | Proportion of capital allocation to long-lived assets versus short-term assets   | NONE    |
|                    | Investment (CapEx) in low carbon alternatives (e.g., capital equipment or assets)  | PARTIAL |
|                    | Capital payback periods or return on capital deployed  | NONE    |
|                    | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | NONE    |
|                    | Vehicle sales (historical, current and projected) by category (e.g., gas vehicles, diesel vehicles, battery electric vehicles, plug-in hybrid electric vehicles, alternative-powered vehicles (LPG, CNG, fuel cells, compressed air) | NONE    |
|                    | Energy Efficiency Design Index (EEDI) for new ships  | NONE    |
|                    | Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   | NONE    |
|                    | Investments (CapEx) in low-carbon transportation equipment or transportation services  | PARTIAL |
|                    | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | PARTIAL |
|                    | Expenditures (OpEx) for low-carbon alternatives (e.g., R&D, technology, products, or services)   | NONE    |
|                    | For each property type, the percentage certified as sustainable  | NONE    |
|                    | Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)  | PARTIAL |
| Water              | Percent water withdrawn in regions with high or extremely high baseline water stress   | PARTIAL |
|                    | Assets committed in regions with high or extremely high baseline water stress  | PARTIAL |
|                    | Percent of fresh water withdrawn in regions with high or extremely high baseline water stress  | PARTIAL |
|                    | Building water intensity (by occupants or square area)   | PARTIAL |

**Final Report** 

| Energy/Fuel | Indicative costs of supply for current and committed future projects (e.g., through a cost curve or indicative price range. This could be broken down by product, asset, or geography) | NONE    |
|-------------|--|---------|
|             | Sales-weighted average fleet fuel economy, by region and weight/number of people transported   | NONE    |
|             | Total fuel consumed and percent renewable for road, airlines, marine, rail (?)   | HIGH    |
|             | Total energy consumed, broken down by source (e.g., purchased electricity and renewable sources)   | PARTIAL |
|             | Total fuel consumed—percentage from coal, natural gas, oil, and renewable sources  | PARTIAL |
|             | Total energy intensity—by tons of product, amount of sales, number of products depending on informational value  | PARTIAL |
|             | Building energy intensity (by occupants or square area)  | PARTIAL |
| Location    | Area of buildings, plants or properties located in designated flood hazard areas   | PARTIAL |

From the above table, it can be observed that the majority of climate related categories of the metrics of TCFD are highly addressed with AISI indicators covering most of their metrics. The least addressed climate-related category of TCFD metrics is "Risk adaptation & Mitigation", in which 10 out of 15 corresponding metrics are not covered by any of AISI's indicators and disclosures. The climate-related category that is addressed the most by AISI's indicators is "GHG Emissions" in which almost 90% of its metrics are addressed. Half of its metrics in particular are highly addressed. As for the categories of "water" and "location, all their example metrics are partially addressed by AISI's indicators.

# 8.7. EU NFRD-AISI detailed mapping findings

The detailed mapping methodology is applicable in the case of the NFRD. It is a cross-industry system like AISI with reporting rules that covers all E,S,G aspects and with a comparable to AISI structure.

#### **Structure Compatibility**

| AISI    | SUSTAINABILITY TOPICS | INDICATORS                          | METRICS |  |  |
|---------|-----------------------|-------------------------------------|---------|--|--|
| EU NFRD | MATTERS               | EXAMPLE KPIS & CLIMATE-RELATED KPIS |         |  |  |

#### Table 72: Mapping of AISI's indicators against EU NFRD's themes and KPI's

|                   | EU NFRD |   |                           | AISI                          |  |
|-------------------|---------|---|---------------------------|-------------------------------|--|
| MATTERS           | THEMES  | KPI   | SUSTAINABI<br>LITY TOPICS | INDICATORS                    | METRICS  |
| Environme<br>ntal | Energy  | Total energy consumption and<br>/ or production) from | Energy / GHG              | 13 Efficient use of<br>energy | Volume of Greenhouse<br>gas emissions emitted by |

| matters |  | renewable and non-renewable<br>sources  |   |   | the project   |
|---------|--|---|---|---|---|
|         |  | Energy efficiency target  |   | N/A   | N/A   |
|         |  | Renewable energy<br>consumption and/or<br>production target.  |   | N/A   | N/A   |
|         |  | Energy performance and<br>improvements in energy<br>performance   |   | N/A   | N/A   |
|         |  | Energy consumption from<br>non-renewable sources and<br>energy intensity  |   | 13 Efficient use of<br>energy                     | N/A   |
|         | Material disclosures on<br>pollution prevention and<br>control |   | Project<br>Sustainability<br>Management | 2 Sustainability<br>management system             | Implementation of a<br>sustainable management<br>system and reporting |
|         |  |   | Stakeholder<br>Engagement               | 10 Public health and<br>safety management<br>plan | Implementation of a<br>public health and safety<br>management plan    |
|         | Environmental impact<br>from energy use                        |   | Air Quality                             | 16 Fine particulate matter emission               | Mean PM2.5 and PM10<br>emissions                                      |
|         |  |   | Energy / GHG                            | 12 GHG emissions                                  | Volume of Greenhouse<br>gas emissions emitted by<br>the project       |
|         | Direct and indirect<br>atmospheric emissions                   | Direct GHG emissions from<br>sources owned or controlled<br>by the company (Scope 1)  | Energy / GHG                            | 12 GHG emissions                                  | Volume of Greenhouse<br>gas emissions emitted by<br>the project       |
|         |  | Indirect GHG emissions from<br>the generation of acquired and<br>consumed electricity, steam,<br>heat, or cooling (collectively<br>referred to as "electricity")<br>(Scope 2)             |   |   |   |
|         |  | All indirect GHG emissions (not<br>included in scope 2) that occur<br>in the value chain of the<br>reporting company, including<br>both upstream and<br>downstream emissions (Scope<br>3) |   |   |   |
|         |  | GHG absolute emissions target   | N/A                                     | N/A   | N/A   |
|         |  | Emissions of other pollutants<br>(measured in absolute value  | Air Quality                             | 16 Fine particulate matter emission               | Mean PM2.5 and PM10 emissions   |

#### **Final Report**

#### DRAFT, April 30, 2021

|         |  | and as intensity)   |                                    |                                    |   |
|---------|--|---|------------------------------------|------------------------------------|---|
|         | Use and protection of natural resources (e.g. water, land) and related                                   | Extraction of natural resources   | Water                              | 11 Freshwater<br>withdrawal        | Annual volume of fresh<br>water used by the<br>infrastructure project           |
|         | protection of biodiversity   |   | Biodiversity                       | 18 Watershed<br>Management         | Existence of an<br>Integrated Watershed<br>Assessment and<br>Management Program |
|         |  |   |                                    | 19 Previously<br>Disturbed Land    | %   |
|         |  | Impacts and dependencies on<br>natural capital and<br>biodiversity;   | Water                              | 11 Freshwater<br>withdrawal        | Annual volume of fresh<br>water used by the<br>infrastructure project           |
|         |  |   | Biodiversity                       | 18 Watershed<br>Management         | Existence of an<br>Integrated Watershed<br>Assessment and<br>Management Program |
|         |  |   |                                    | 19 Previously<br>Disturbed Land    | %   |
|         | Waste management   | Waste management (e.g.<br>recycling rates)  | Materials<br>lifecycle<br>approach | 15 Reduction of<br>Waste           | Percentage of total waste<br>diverted from<br>incineration and landfills        |
|         | Environmental impacts<br>from transportation or<br>from the use and disposal<br>of products and services |   | Materials<br>lifecycle<br>approach | 14 Materials lifecycle<br>thinking | Consideration of<br>materials lifecycle<br>impacts                              |
|         | Development of green<br>products and services  |   | Materials<br>lifecycle<br>approach | 14 Materials lifecycle<br>thinking | Consideration of<br>materials lifecycle<br>impacts                              |
| Climato | Physical risks   | Assets committed in regions<br>likely to become more<br>exposed to acute or chronic<br>physical climate risks | Resilience                         | N/A                                | N/A   |
|         |  |   |                                    | 4 Climate Risk<br>Resilience       | Implementation of a climate risk adaptation plan                                |

| Products and services  | Percent turnover in the<br>reporting year from products<br>or services associated with<br>activities that meet the criteria<br>for substantially contributing<br>to mitigation of or adaptation<br>to climate change as set out in<br>the Regulation on the<br>establishment of a framework<br>to facilitate sustainable<br>investment (EU taxonomy).<br>And / or<br>Percent investment (CapEx)<br>and/or expenditures (OpEx) in<br>the reporting year for assets or<br>processes associated with<br>activities that meet the criteria<br>for substantially contributing<br>to mitigation of or adaptation<br>to climate change as set out in<br>the Regulation on the<br>establishment of a framework<br>to facilitate sustainable<br>investment (EU taxonomy). |   | Resilience   | N/A                             | N/A  |
|--|--|---|--------------|---------------------------------|--|
| Green Finance  | Climate-related Green Bond<br>Ratio:<br>Total amount of green bonds<br>outstanding (at year end)<br>divided by (a 5-year rolling<br>average of) total amount of<br>bonds outstanding<br>and / or,<br>Climate-related Green Debt<br>Ratio: Total amount of all<br>green debt instruments<br>outstanding (at year-end)<br>divided by (a 5-year rolling<br>average of) total amount of all<br>debt outstanding.   |   | N/A          | N/A                             | N/A  |
| Disclosure on natural<br>capitals<br>(e.g. water, soil                         |  | , | Water        | 11 Freshwater<br>withdrawal     | Annual volume of fresh<br>water used by the<br>infrastructure project  |
| productivity or<br>biodiversity) for<br>companies whose<br>business models are |  |   | Biodiversity | 18 Watershed<br>Management      | Existence of an<br>Integrated Watershed<br>Assessment and<br>Management Program                                      |
| dependent on natural<br>capitals threatened by<br>climate change               |  |   | Biodiversity | 19 Previously<br>Disturbed Land | Percentage of land used<br>by the project that has<br>been previously<br>disturbed or maintained<br>as non-disturbed |

| Opportunities of efforts engaging with a | Revenues from low-carbon products   | N/A   | N/A                   | N/A  |   |
|--|---|---|-----------------------|--|---|
|  | transition to a low carbon<br>and climate-resilient<br>economy, aligned with  | Revenues from product or services applying to the circular economy model,   | N/A                   | N/A  | N/A   |
|  | key EU policies, carrying<br>out climate change<br>mitigation / adaptation<br>activities.   | R&D expenditures in circular<br>economy production  | N/A                   | N/A  | N/A   |
|  | Implementation of<br>fundamental conventions<br>of the International  | Employees entitled to parental leave, by gender   | Gender                | 3 Gender equality,<br>inclusiveness and<br>empowerment | Existence and<br>Implementation of a<br>comprehensive gender<br>action plan (GAP).        |
|  | Labour Organisation   |   | Working<br>conditions | 23 Labor rights  | Integration of<br>International Labour<br>Organisation's (ILO)<br>fundamental conventions |
| Social and<br>employee<br>matters        | Diversity issues, such as<br>gender diversity and<br>equal treatment in<br>employment and<br>occupation (including<br>age, gender, sexual<br>orientation, religion,<br>disability, ethnic origin<br>and other relevant<br>aspects | Gender diversity and other<br>aspects of diversity;<br>Number of persons with<br>disabilities employed.                           | Gender                | 3 Gender equality,<br>inclusiveness and<br>empowerment | Existence and<br>Implementation of a<br>comprehensive gender<br>action plan (GAP).        |
|  | Employment issues,<br>including employee<br>consultation and/or<br>participation,<br>employment and working<br>conditions   | Employee consultation<br>processes;<br>Employee turnover<br>Ratio of employees working<br>under temporary contracts, by<br>gender | Working<br>Conditions | 23 Labor rights  | Integration of<br>International Labour<br>Organisation's (ILO)<br>fundamental conventions |
|  | Trade union<br>relationships, including<br>respect of trade union<br>rights   |   | Working<br>Conditions | 23 Labor rights  | Integration of<br>International Labour<br>Organisation's (ILO)<br>fundamental conventions |
|  | Human capital<br>management including<br>management of  | Average hours of training per<br>year per employee, by gender;  | Gender                | 3 Gender equality,<br>inclusiveness and<br>empowerment | Existence and<br>Implementation of a<br>comprehensive gender<br>action plan (GAP).        |

Final Report

|                                | restructuring, career<br>management and<br>employability,<br>remuneration system,<br>training   |   | Working<br>conditions     | 26 Fair Wages   | Percentage of employees<br>who are paid a fair wage                                       |
|--------------------------------|---|---|---------------------------|---|---|
|                                | Health and safety at work   | Workers who participate in activities with a high risk of specific accidents or diseases;   | Working<br>conditions     | N/A   | N/A   |
|                                |   | Number of occupational<br>accidents, types of injury or<br>occupational diseases;           |                           | 25 Frequency rates of<br>fatal and non-fatal<br>occupational injuries | Number of fatal and non-<br>fatal occupational injuries                                   |
|                                | Consumer relations,<br>including consumer<br>satisfaction, accessibility,<br>products with possible<br>effects on consumers'<br>health and safety |   | Stakeholder<br>engagement | 6 Stakeholder<br>engagement plan                                      | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and<br>plan. |
|                                | Impacts on vulnerable consumers   |   | Service<br>Affordability  | 28 User affordability   | Ability to pay (ATP) of project beneficiaries   |
|                                | Responsible marketing and research  |   | N/A                       | N/A   | N/A   |
|                                | Community relations,<br>including social and<br>economic development  |   | Stakeholder<br>engagement | 6 Stakeholder<br>engagement plan                                      | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and<br>plan. |
|                                | or local communities.   |   |                           | 7 Free, Prior and<br>Informed Consent<br>(FPIC)                       | Obtainment of Free, Prior<br>and Informed Consent<br>(FPIC)                               |
|                                |   |   |                           | 8 Involuntary<br>Resettlement   | People physically or<br>economically impacted<br>by the project                           |
|                                | Human rights due<br>diligence   | Occurrences of severe impacts<br>on human rights relating to its<br>activities or decisions | Stakeholder<br>engagement | 6 Stakeholder<br>engagement plan                                      | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and<br>plan. |
| Respect for<br>human<br>rights |   |   |                           | 7 Free, Prior and<br>Informed Consent<br>(FPIC)                       | Obtainment of Free, Prior<br>and Informed Consent<br>(FPIC)                               |
|                                |   |   |                           | 8 Involuntary<br>Resettlement   | People physically or<br>economically impacted<br>by the project                           |

|   |  | Process for receiving and<br>addressing complaints, and<br>mitigating and providing<br>remedies to human rights<br>violations  | Stakeholder<br>engagement   | 6 Stakeholder<br>engagement plan                        | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and<br>plan. |
|---|--|--|-----------------------------|---|---|
|   |  | Operations and suppliers at<br>significant risk of human rights<br>violations  | Sustainable<br>Supply chain | 20 Project supply<br>chain sustainability<br>management | Existence of a sustainable<br>procurement plan and<br>compliance monitoring               |
| i   | Processes and<br>arrangements<br>implemented to prevent<br>human rights abuses | Processes and measures for<br>preventing trafficking in<br>human beings for all forms of<br>exploitation, forced or<br>compulsory labour and child<br>labour, precarious work, and<br>unsafe working conditions, in<br>particular as regards<br>geographic areas at higher risk<br>of exposure to abuse  | Working<br>Conditions       | 23 Labor rights   | Integration of<br>International Labour<br>Organisation's (ILO)<br>fundamental conventions |
|   |  | How accessible their facilities,<br>documents and websites are<br>to people with disabilities  | N/A                         | N/A   | N/A   |
|   |  | Respect for freedom of association   | Working<br>Conditions       | 23 Labor rights   | Integration of<br>International Labour<br>Organisation's (ILO)<br>fundamental conventions |
|   |  | Engagement with relevant stakeholders.   | Stakeholder<br>engagement   | 6 Stakeholder<br>engagement plan                        | Existence of a meaningful<br>and inclusive stakeholder<br>engagement process and<br>plan. |
| Anti-<br>corruption<br>and bribery<br>natters | Management of anti-<br>corruption and bribery<br>matters and occurrences       | Anti-corruption policies,<br>procedures and standards;<br>Criteria used in corruption-<br>related risk assessments;<br>Internal control processes and<br>resources allocated to<br>preventing corruption and<br>bribery;<br>Employees having received<br>appropriate training;<br>Use of whistleblowing<br>mechanisms;<br>Number of pending or<br>completed legal actions on | Anti-<br>corruption         | 21 Anti-corruption<br>program                           | Implementation of an<br>anti-corruption program   |
|   |  | anti-competitive behaviour.  |                             |   |   |

**Final Report** 

#### DRAFT, April 30, 2021

| Supply                     | Supply chain   | Monitoring suppliers on:   | Sustainable                 | 20 Project supply                                       | Existence of a sustainable  |
|----------------------------|--|--|-----------------------------|---|---|
| Supply<br>chain<br>matters | Supply chain<br>management   | Monitoring suppliers on:<br>— labour practices, including<br>child labour and forced labour,<br>precarious work, wages,<br>unsafe working conditions<br>(including building safety,<br>protective equipment,<br>workers' health)<br>— trafficking in human beings<br>and other human rights<br>matters<br>— greenhouse gas emissions<br>and other types of water and<br>environmental pollution<br>— deforestation and other<br>biodiversity-related risks<br>Monitoring the company's   | Sustainable<br>Supply chain | 20 Project supply<br>chain sustainability<br>management | Existence of a sustainable<br>procurement plan and<br>compliance monitoring |
|                            |  | impact on suppliers, for<br>instance, its payment terms<br>and average payment periods.  |                             |   |   |
| Conflict<br>minerals       | Responsible supply<br>chains for tin, tantalum,<br>tungsten and gold from<br>conflict-affected and<br>high-risk areas. | <ul> <li>the proportion of direct<br/>relevant suppliers having<br/>adopted and implemented a<br/>conflict minerals due diligence<br/>policy consistent with the<br/>OECD Due Diligence Guidance;</li> <li>the proportion of<br/>responsibly-sourced tin,<br/>tantalum, tungsten or gold<br/>originating in conflict-affected<br/>and high-risk areas; and</li> <li>the proportion of relevant<br/>customers contractually<br/>requiring conflict minerals due<br/>diligence information under<br/>the OECD Due Diligence<br/>Guidance.</li> </ul> | N/A                         | N/A   | N/A   |

The above table shows that the least addressed sustainability matter of EU NFRD is the climate category. This category consists of 6 themes and 5 KPIs that cannot be covered AISI's indicators mainly because EU NFRD topics require economic values to express their KPI's. For example physical risks are indicated through assets while products and services are expressed through percent turnover. For the above mapping, 21 out of 28 AISI indicators were used to address all KPIs. The indicators that address more EU NFRD KPIs are "6 Stakeholder engagement" plan and "23 Labor rights", which are used to cover 5 KPIs.

The mapping against EU NFRD's themes and KPIs by AISI's respective topics and indicators was also used to record which themes of NFRD were not addressed by AISI. These are in total 6 out of 22 themes and can be found in the following table.

#### Table 73: Mapping results against EU NFRD's themes

| EU NFRD A                         |   |          |  |  |  |
|-----------------------------------|---|----------|--|--|--|
| MATTERS                           | THEMES  | ADDRESSI |  |  |  |
|                                   | Energy  | YES      |  |  |  |
|                                   | Material disclosures on pollution prevention and control  | YES      |  |  |  |
| Environmental<br>matters          | Environmental impact from energy use  | YES      |  |  |  |
|                                   | Direct and indirect atmospheric emissions   |          |  |  |  |
|                                   | Use and protection of natural resources (e.g. water, land) and related protection of biodiversity   | YES      |  |  |  |
|                                   | Waste management  | YES      |  |  |  |
|                                   | Environmental impacts from transportation or from the use and disposal of products and services   | YES      |  |  |  |
|                                   | Development of green products and services  | YES      |  |  |  |
|                                   | Physical risks  | YES      |  |  |  |
|                                   | Products and services   | YES      |  |  |  |
|                                   | Green Finance   | NO       |  |  |  |
| Climate                           | Disclosure on natural capitals(e.g. water, soil productivity or biodiversity) for companies whose business models are dependent on natural capitals threatened by climate change                        | YES      |  |  |  |
|                                   | Opportunities of efforts engaging with a transition to a low carbon and climate-<br>resilient economy, aligned with key EU policies, carrying out climate change<br>mitigation / adaptation activities. | NO       |  |  |  |
|                                   | Implementation of fundamental conventions of the International Labour Organisation  | YES      |  |  |  |
|                                   | Diversity issues, such as gender diversity and equal treatment in employment and occupation (including age, gender, sexual orientation, religion, disability, ethnic origin and other relevant aspects  |          |  |  |  |
| Social and<br>employee<br>matters | Employment issues, including employee consultation and/or participation, employment and working conditions  | YES      |  |  |  |
|                                   | Trade union relationships, including respect of trade union rights  | YES      |  |  |  |
|                                   | Human capital management including management of restructuring, career management and employability, remuneration system, training  | NO       |  |  |  |

**Final Report** 

|   | Health and safety at work  | YES |
|---|--|-----|
|   | Consumer relations, including consumer satisfaction, accessibility, products with possible effects on consumers' health and safety | YES |
|   | Impacts on vulnerable consumers  | YES |
|   | Responsible marketing and research   | NO  |
|   | Community relations, including social and economic development of local communities.   | YES |
| Respect for                               | Human rights due diligence   | YES |
| human rights                              | Processes and arrangements implemented to prevent human rights abuses  | YES |
| Anti-corruption<br>and bribery<br>matters | Management of anti-corruption and bribery matters and occurrences  | YES |
| Supply chain<br>matters                   | Supply chain management  | YES |
| Conflict minerals                         | Responsible supply chains for tin, tantalum, tungsten and gold from conflict-affected and high-risk areas.                         | NO  |

The following table presents the level of coverage for each KPI.  $^{\rm 55}$ 

# Table 74: Indicator -based mapping results against EU NFRD's KPI's

|   | EU NFRD  |               |  |  |
|---|--|---------------|--|--|
| THEMES                                    | KPIs   | LEVEL BY AISI |  |  |
| Energy                                    | Total energy consumption and / or production) from renewable and non-renewable sources   | HIGH          |  |  |
|   | Energy efficiency target   | NONE          |  |  |
|   | Renewable energy consumption and/or production target.   | NONE          |  |  |
|   | Energy performance and improvements in energy performance  | NONE          |  |  |
|   | Energy consumption from non-renewable sources and <b>energy</b> intensity  | PARTIAL       |  |  |
| Direct and indirect atmospheric emissions | Direct GHG emissions from sources owned or controlled by the company (Scope 1)   | HIGH          |  |  |
|   | Indirect GHG emissions from the generation of acquired and consumed electricity, steam, heat, or cooling (collectively referred to as "electricity") (Scope 2) | HIGH          |  |  |

<sup>55</sup> The table does not include themes that do not relate to KPIs.

|   | All indirect GHG emissions (not included in scope 2) that occur<br>in the value chain of the reporting company, including both<br>upstream and downstream emissions (Scope 3)  | HIGH    |
|---|--|---------|
|   | GHG absolute emissions target  | NONE    |
|   | Emissions of other pollutants (measured in absolute value and as intensity)  | PARTIAL |
| Use and protection of natural<br>resources (e.g. water, land) and<br>related protection of biodiversity | Extraction of natural resources  | HIGH    |
|   | Impacts and dependencies on natural capital and biodiversity;  | HIGH    |
| Waste management  | Waste management (e.g. recycling rates)  | HIGH    |
| Physical risks  | Assets committed in regions likely to become more exposed to acute or chronic physical climate risks   | NONE    |
| Products and services   | Percent turnover in the reporting year from products or services<br>associated with activities that meet the criteria for substantially<br>contributing to mitigation of or adaptation to climate change as<br>set out in the Regulation on the establishment of a framework<br>to facilitate sustainable investment (EU taxonomy).<br>And / or<br>Percent investment (CapEx) and/or expenditures (OpEx) in the<br>reporting year for assets or processes associated with activities<br>that meet the criteria for substantially contributing to<br>mitigation of or adaptation to climate change as set out in the<br>Regulation on the establishment of a framework to facilitate<br>sustainable investment (EU taxonomy). | NONE    |
| Green Finance   | Climate-related Green Bond Ratio:<br>Total amount of green bonds outstanding (at year end) divided<br>by (a 5-year rolling average of) total amount of bonds<br>outstanding<br>and / or,<br>Climate-related Green Debt Ratio: Total amount of all green<br>debt instruments outstanding (at year-end) divided by (a 5-year<br>rolling average of) total amount of all debt outstanding.  | NONE    |
| Opportunities of efforts engaging   | Revenues from low-carbon products  | NONE    |
| with a transition to a low carbon   |  |         |

| aligned with key EU policies,<br>carrying out climate change<br>mitigation / adaptation activities.  | R&D expenditures in circular economy production  | NONE    |
|--|--|---------|
| Implementation of fundamental<br>conventions of the International<br>Labour Organisation   | Employees entitled to parental leave, by gender  | HIGH    |
| Diversity issues, such as gender   | Gender diversity and other aspects of diversity;   | HIGH    |
| employment and occupation<br>(including age, gender, sexual<br>orientation, religion, disability,<br>ethnic origin and other relevant<br>aspects | Number of persons with disabilities employed.  | PARTIAL |
| Employment issues, including   | Employee consultation processes;   | HIGH    |
| employee consultation and/or participation, employment and   | Employee turnover  | HIGH    |
| working conditions   | Ratio of employees working under temporary contracts, by gender  | HIGH    |
| Human capital management<br>including management of<br>restructuring, career management<br>and employability, remuneration<br>system, training   | Average hours of training per year per employee, by gender;  | PARTIAL |
| Health and safety at work  | Workers who participate in activities with a high risk of specific accidents or diseases;  | NONE    |
|  | Number of occupational accidents, types of injury or occupational diseases;  | HIGH    |
| Human rights due diligence   | Occurrences of severe impacts on human rights relating to its activities or decisions  | HIGH    |
|  | Process for receiving and addressing complaints, and mitigating<br>and providing remedies to human rights violations   | HIGH    |
|  | Operations and suppliers at significant risk of human rights violations  | HIGH    |
| Processes and arrangements<br>implemented to prevent human<br>rights abuses  | Processes and measures for preventing trafficking in human<br>beings for all forms of exploitation, forced or compulsory labour<br>and child labour, precarious work, and unsafe working<br>conditions, in particular as regards geographic areas at higher<br>risk of exposure to abuse | HIGH    |
|  | How accessible their facilities, documents and websites are to people with disabilities  | NONE    |
|  | Respect for freedom of association   | HIGH    |

**Final Report** 

|   | Engagement with relevant stakeholders.   | HIGH |
|---|--|------|
| Management of anti-corruption   | Anti-corruption policies, procedures and standards;  | HIGH |
| and bribery matters and<br>occurrences  | Criteria used in corruption-related risk assessments;  | NONE |
|   | Internal control processes and resources allocated to preventing corruption and bribery;   | HIGH |
|   | Employees having received appropriate training;  | HIGH |
|   | Use of whistleblowing mechanisms;  | HIGH |
|   | Number of pending or completed legal actions on anti-<br>competitive behaviour.  | NONE |
| Supply chain management   | Monitoring suppliers on:<br>— labour practices, including child labour and forced labour,<br>precarious work, wages, unsafe working conditions (including<br>building safety, protective equipment, workers' health)<br>— trafficking in human beings and other human rights matters<br>— greenhouse gas emissions and other types of water and<br>environmental pollution<br>— deforestation and other biodiversity-related risks   | HIGH |
|   | Monitoring the company's impact on suppliers, for instance, its payment terms and average payment periods.   | HIGH |
| Responsible supply chains for tin,<br>tantalum, tungsten and gold from<br>conflict-affected and high-risk<br>areas. | <ul> <li>the proportion of direct relevant suppliers having adopted<br/>and implemented a conflict minerals due diligence policy<br/>consistent with the OECD Due Diligence Guidance;</li> <li>the proportion of responsibly-sourced tin, tantalum,<br/>tungsten or gold originating in conflict-affected and high-risk<br/>areas; and</li> <li>the proportion of relevant customers contractually requiring<br/>conflict minerals due diligence information under the OECD Due<br/>Diligence Guidance.</li> </ul> | NONE |

The indicator based mapping shows that more than half of the EU NFRD KPIs are highly covered by AISI. Also, only 15 out of the 44 total KPIs are not covered. These are shown in the following table:

# Table 75: EU NFRD KPIs that are not covered by AISI's indicators/metrics

| EU NFRD                                   |   |  |  |  |  |
|---|---|--|--|--|--|
| THEMES                                    | KPIs  |  |  |  |  |
| Energy                                    | Energy efficiency target                                  |  |  |  |  |
|   | Renewable energy consumption and/or production target.    |  |  |  |  |
|   | Energy performance and improvements in energy performance |  |  |  |  |
| Direct and indirect atmospheric emissions | GHG absolute emissions target                             |  |  |  |  |

Final Report

| Physical risks  | Assets committed in regions likely to become more exposed to acute or chronic physical climate risks  |
|---|---|
| Products and services   | Percent turnover in the reporting year from products or services<br>associated with activities that meet the criteria for substantially<br>contributing to mitigation of or adaptation to climate change as set out in<br>the Regulation on the establishment of a framework to facilitate<br>sustainable investment (EU taxonomy).<br>And / or<br>Percent investment (CapEx) and/or expenditures (OpEx) in the reporting   |
|   | year for assets or processes associated with activities that meet the<br>criteria for substantially contributing to mitigation of or adaptation to<br>climate change as set out in the Regulation on the establishment of a<br>framework to facilitate sustainable investment (EU taxonomy).  |
| Green Finance   | Climate-related Green Bond Ratio:<br>Total amount of green bonds outstanding (at year end) divided by (a 5-<br>year rolling average of) total amount of bonds outstanding<br>and / or,<br>Climate-related Green Debt Ratio: Total amount of all green debt<br>instruments<br>outstanding (at year-end) divided by (a 5-year rolling average of) total<br>amount of all debt outstanding.                                    |
| Opportunities of efforts engaging with a  | Revenues from low-carbon products   |
| transition to a low carbon and climate-<br>resilient economy, aligned with key EU | Revenues from product or services applying to the circular economy model,   |
| mitigation / adaptation activities  | R&D expenditures in circular economy production   |
| Health and safety at work   | Workers who participate in activities with a high risk of specific accidents or diseases;   |
| Processes and arrangements implemented to prevent human rights abuses             | How accessible their facilities, documents and websites are to people with disabilities   |
| Management of anti-corruption and bribery   | Criteria used in corruption-related risk assessments;   |
| matters and occurrences   | Number of pending or completed legal actions on anti-competitive behaviour.   |
| Responsible supply chains for tin, tantalum,                                      | <ul> <li>the proportion of direct relevant suppliers having adopted and</li> </ul>  |
| tungsten and gold from conflict-affected and high-risk areas.                     | <ul> <li>implemented a conflict minerals due diligence policy consistent with the OECD Due Diligence Guidance;</li> <li>the proportion of responsibly-sourced tin, tantalum, tungsten or gold originating in conflict-affected and high-risk areas; and</li> <li>the proportion of relevant customers contractually requiring conflict minerals due diligence information under the OECD Due Diligence Guidance.</li> </ul> |

# 8.8. EU SFDR-AISI detailed mapping findings

# Structure Compatibility

# DRAFT, April 30, 2021

| AISI    | TOPICS  | INDICATORS   | METRICS                                   |
|---------|---------|--|---|
| EU SFDR | MATTERS | PRINCIPAL ADVERSE SUSTAINABILITY IMPACT INDICATORS<br>&<br>ADDITIONAL ADVERSE SUSTAINABILITY IMPACT INDICATORS | METRICS<br>(expressed in market<br>value) |

# Table 76: Mapping of AISI against EU SFDR's Principal & Additional Adverse Impact Indicators

| EU SFDR Draft Regulatory Technical Standards (RTS) |   |  |  | AISI         |                               |  |  |
|--|---|--|--|--------------|-------------------------------|--|--|
| MATTERS  | PRINCIPAL ADVERSE<br>SUSTAINABILITY<br>IMPACT INDICATORS            | METRICS  |  | TOPICS       | INDICATORS                    | METRICS  |  |
| Greenhouse<br>gas<br>emissions                     | GHG emissions   | Scope 1 GHG emissions<br>Scope 2 GHG emissions<br>Scope 3 GHG emissions<br>(from January 1,2023)<br>Total GHG emissions  |  | Energy / GHG | 12 GHG<br>emissions           | Volume of Greenhouse gas<br>emissions emitted by the<br>project            |  |
|  | Carbon footprint  | Carbon footprint   |  |              | 12 GHG<br>emissions           | Volume of Greenhouse gas<br>emissions emitted by the<br>project            |  |
|  | GHG intensity of<br>investee companies                              | GHG intensity of investee companies  |  |              | 12 GHG<br>emissions           | N/A  |  |
|  | Exposure to<br>companies active in<br>the fossil fuel sector        | Share of investments in<br>companies active in the fossil<br>fuel sector   |  |              | N/A                           | N/A  |  |
|  | Share of non-<br>renewable energy<br>consumption and<br>production  | Share of non-renewable energy<br>consumption and non-<br>renewable energy production of<br>investee companies from non-<br>renewable energy sources<br>compared to renewable energy<br>sources, expressed as a<br>percentage |  |              | 13 Efficient use<br>of energy | Amount of energy consumed by the project                                   |  |
|  | Energy consumption<br>intensity per high<br>impact climate sector   | Energy consumption in GWh per<br>million EUR of revenue of<br>investee companies, per high<br>impact climate sector  |  |              | 13 Efficient use of energy    | N/A  |  |
| Biodiversity                                       | Activities negatively<br>affecting biodiversity-<br>sensitive areas | Share of investments in investee<br>companies with sites/operations<br>located in or near to<br>biodiversity-sensitive areas   |  | Biodiversity | 17 Threatened species         | Number of Aquatic and<br>Terrestrial Species Impacted<br>(Fauna and Flora) |  |

# Final Report

#### DRAFT, April 30, 2021

|                                   |   | where activities of those<br>investee companies negatively<br>affect those areas   |  |                           |  |  |
|-----------------------------------|---|--|--|---------------------------|--|--|
| Water                             | Emissions to water  | Tonnes of emissions to water<br>generated by investee<br>companies per million EUR<br>invested, expressed as a<br>weighted average   |  | Biodiversity              | 18 Watershed<br>Management                                   | Existence of an Integrated<br>Watershed Assessment and<br>Management Program           |
| Waste                             | Hazardous waste ratio   | Tonnes of hazardous waste<br>generated by investee<br>companies per million EUR<br>invested, expressed as a<br>weighted average  |  | Stakeholder<br>Engagement | 10 Public health<br>and safety<br>management<br>plan         | Implementation of a public<br>health and safety management<br>plan                     |
| Fossil Fuels                      | Exposure to fossil<br>fuels through real<br>estate assets   | Share of investments in real<br>estate assets involved in the<br>extraction, storage, transport or<br>manufacture of fossil fuels  |  | N/A                       | N/A  | N/A  |
| Energy<br>efficiency              | Exposure to energy-<br>inefficient real estate<br>assets  | Share of investments in energy-<br>inefficient real estate assets  |  | Energy / GHG              | 13 Efficient use of energy                                   | Amount of energy consumed<br>by the project  |
| Social and<br>employee<br>matters | Violations of UN<br>Global Compact<br>principles and<br>Organisation for<br>Economic Cooperation<br>and Development<br>(OECD) Guidelines for<br>Multinational<br>Enterprises  | Share of investments in investee<br>companies that have been<br>involved in violations of the<br>UNGC principles or OECD<br>Guidelines for Multinational<br>Enterprises  |  | Working<br>Conditions     | 23 Labor rights  | Integration of International<br>Labour Organisation's (ILO)<br>fundamental conventions |
|                                   | Lack of processes and<br>compliance<br>mechanisms to<br>monitor compliance<br>with UN Global<br>Compact principles<br>and OECD Guidelines<br>for Multinational<br>Enterprises | Share of investments in investee<br>companies without policies to<br>monitor compliance with the<br>UNGC principles or OECD<br>Guidelines for Multinational<br>Enterprises or grievance<br>/complaints handling<br>mechanisms to address<br>violations of the UNGC<br>principles or OECD Guidelines<br>for Multinational Enterprises |  |                           | 23 Labor rights  | Integration of International<br>Labour Organisation's (ILO)<br>fundamental conventions |
|                                   | Unadjusted gender<br>pay gap  | Average unadjusted gender pay<br>gap of investee companies   |  | Gender                    | 3 Gender<br>equality,<br>inclusiveness<br>and<br>empowerment | Existence and Implementation<br>of a comprehensive gender<br>action plan (GAP).        |
|                                   | Board gender diversity  | Average ratio of female to male<br>board members in investee<br>companies  |  | Gender                    | 3 Gender<br>equality,<br>inclusiveness<br>and<br>empowerment | Existence and Implementation<br>of a comprehensive gender<br>action plan (GAP).        |

|                                 | Exposure to<br>controversial<br>weapons (anti-<br>personnel mines,<br>cluster munitions,<br>chemical weapons<br>and biological<br>weapons) | Share of investments in<br>investee companies involved in<br>the manufacture or selling of<br>controversial weapons                                     |  | NOT RELEVANT |   |  |  |
|---------------------------------|--|---|--|--------------|---|--|--|
| MATTERS                         | ADDITIONAL ADVERSE<br>SUSTAINABILITY<br>IMPACT INDICATORS  | METRICS   |  |              |   |  |  |
|                                 | Emissions of inorganic pollutants  | Tonnes of inorganic pollutants<br>equivalent per million EUR<br>invested, expressed as a<br>weighted average  |  |              | N/A                                       | N/A  |  |
| Emissions                       | Emissions of air<br>pollutants   | Tonnes of air pollutants<br>equivalent per million EUR<br>invested, expressed as a<br>weighted average  |  | Air Quality  | 16 Fine<br>particulate<br>matter emission | Mean PM2.5 and PM10<br>emissions   |  |
|                                 | Emissions of ozone<br>depletion substances   | Tonnes of ozone depletion<br>substances equivalent per<br>million EUR invested, expressed<br>as a weighted average                                      |  |              | N/A                                       | N/A  |  |
|                                 | Investments in<br>companies without<br>carbon emission<br>reduction initiatives  | Share of investments in investee<br>companies without carbon<br>emission reduction initiatives<br>aimed at aligning with the Paris<br>Agreement         |  | Energy / GHG | N/A                                       | N/A  |  |
| Energy<br>performance           | Breakdown of energy<br>consumption by type<br>of non-renewable<br>sources of energy  | Share of energy from non-<br>renewable sources used by<br>investee companies broken<br>down by each non-renewable<br>energy source                      |  | Energy / GHG | 13 Efficient use of energy                | Amount of energy consumed<br>by the project                                  |  |
| Water,<br>waste and<br>material | Water usage and  | Average amount of water<br>consumed and reclaimed by the<br>investee companies (in cubic<br>meters) per million EUR of<br>revenue of investee companies |  | Water        | 11 Freshwater<br>withdrawal               | Annual volume of fresh water<br>used by the infrastructure<br>project        |  |
|                                 |  | Weighted average percentage of water recycled and reused by investee companies  |  |              |   | N/A  |  |
| emissions                       | Investments in<br>companies without<br>water management<br>policies  | Share of investments in investee<br>companies without water<br>management policies  |  | Water        | 18 Watershed<br>Management                | Existence of an Integrated<br>Watershed Assessment and<br>Management Program |  |
|                                 | Exposure to areas of   | Share of investments in investee companies with sites located in  |  | Water        | 11 Freshwater                             | Annual volume of fresh water used by the infrastructure                      |  |

**Final Report** 

#### DRAFT, April 30, 2021

|                     |  |  |                          |                                    | •                               |  |
|---------------------|--|--|--------------------------|------------------------------------|---------------------------------|--|
|                     | high water stress  | areas of high water stress<br>without a water management<br>policy   |                          |                                    | withdrawal                      | project  |
|                     | Investments in<br>companies producing<br>chemicals   | Share of investments in investee<br>companies the activities of<br>which fall under Division 20.2 of<br>Annex I to Regulation (EC) No<br>1893/2006 |                          | NOT RELEVANT                       |                                 |  |
|                     | Land degradation,<br>desertification, soil   | Share of investments in investee -   |                          | Biodiversity                       | 19 Previously<br>Disturbed Land | Percentage of land used by the<br>project that has been previously<br>disturbed or maintained as non-<br>disturbed |
|                     | sealing  | companies the activities of<br>which cause land degradation,<br>desertification or soil sealing  |                          |                                    | 18 Watershed<br>Management      | Existence of an Integrated<br>Watershed Assessment and<br>Management Program                                       |
|                     | Investments in<br>companies without<br>sustainable land/<br>agriculture practices  | Share of investments in investee<br>companies without sustainable<br>land/agriculture practices or<br>policies                                     |                          | Biodiversity                       | 18 Watershed<br>Management      | Existence of an Integrated<br>Watershed Assessment and<br>Management Program                                       |
|                     | Investments in<br>companies without<br>sustainable oceans/<br>seas practices   | Share of investments in investee<br>companies without sustainable<br>oceans/seas practices or policies   |                          | Biodiversity                       | 18 Watershed<br>Management      | Existence of an Integrated<br>Watershed Assessment and<br>Management Program                                       |
|                     | Non-recycled waste<br>ratio  | Tonnes of non-recycled waste<br>generated by investee<br>companies per million EUR<br>invested, expressed as a<br>weighted average                 |                          | Materials<br>lifecycle<br>approach | 15 Reduction of<br>Waste        | Percentage of total waste<br>diverted from incineration and<br>landfills   |
|                     | Natural species and<br>protected areasShare of investments in investee<br>companies whose operations<br>affect threatened speciesShare of investments in investee<br>companies without a<br>biodiversity protection policy<br>covering operational sites<br>owned, leased, managed in, or<br>adjacent to, a protected area or<br>content of the total state of the s | Share of investments in investee<br>companies whose operations<br>affect threatened species  |                          |                                    |                                 | Number of Aquatic and<br>Terrestrial Species Impacted<br>(Fauna and Flora)   |
| Biodiversity        |  | Biodiversity   | 17 Threatened<br>species | N/A                                |                                 |  |
|                     |  | value outside protected areas  |                          |                                    |                                 |  |
|                     | Deforestation  | Share of investments in<br>companies without a policy to<br>address deforestation  |                          | N/A                                | N/A                             | N/A  |
| Green<br>securities | Share of securities not<br>certified as green<br>under a future EU   | Share of securities in investments not certified as green  |                          | N/A                                | N/A                             | N/A  |

|   | legal act setting up an  |  |                                    |   |  |
|---|--|--|------------------------------------|---|--|
|   | EU Green Bond  |  |                                    |   |  |
|   | Standard   |  |                                    |   |  |
|   |  | Scope 1 GHG emissions<br>generated by real estate assets   |                                    |   |  |
| Greenhouse                                      |  | Scope 2 GHG emissions<br>generated by real estate assets   |                                    |   | Volume of Greenhouse gas                                       |
| gas<br>emissions                                | GHG emissions  | Scope 3 GHG emissions<br>generated by real estate assets<br>(From 1 January 2023)  | Energy / GH                        | G emissions   | emissions emitted by the project                               |
|   |  | Total GHG emissions generated<br>by real estate assets   |                                    |   |  |
| Energy<br>consumption                           | Energy consumption<br>intensity  | Energy consumption in GWh of<br>owned real estate assets per<br>square meter   | Energy / GH                        | G 13 Efficient use of energy  | Amount of energy consumed by the project                       |
| Waste   | Waste production in<br>operations  | Share of real estate assets not<br>equipped with facilities for<br>waste sorting and not covered<br>by a waste recovery or recycling<br>contract   | Materials<br>lifecycle<br>approach | 15 Reduction of<br>Waste  | N/A  |
| Resource<br>consumptio<br>n                     | Raw materials<br>consumption for new<br>construction and<br>major renovations    | Share of raw building materials<br>(excluding recovered, recycled<br>and biosourced) compared to<br>the total weight of building<br>materials used in new<br>construction and major<br>renovations             | Materials<br>lifecycle<br>approach | 14 Materials<br>lifecycle thinking                                    | Consideration of materials<br>lifecycle impacts                |
| Biodiversity                                    | Land artificialisation   | Share of non-vegetated surface<br>area (surfaces that have not<br>been vegetated in ground, as<br>well as on roofs, terraces and<br>walls) compared to the total<br>surface area of the plots of all<br>assets | N/A                                | N/A   | N/A  |
|   | Investments in<br>companies without<br>workplace accident<br>prevention policies | Share of investments in investee<br>companies without a workplace<br>accident prevention policy  | Working<br>Conditions              | 24 Occupational<br>Health & Safety<br>(OH&S)<br>Management<br>Systems | Implementation of a<br>Comprehensive OH&S<br>Management System |
| Additional<br>Social and<br>employee<br>matters | Rate of accidents  | Rate of accidents in investee<br>companies expressed as a<br>weighted average  |                                    | 25 Frequency  | Number of fatal and non-fatal occupational injuries            |
|   | Number of days lost<br>to injuries, accidents,<br>fatalities or illness          | Number of workdays lost to<br>injuries, accidents, fatalities or<br>illness of investee companies<br>expressed as a weighted<br>average  | Working<br>Conditions              | non-fatal<br>occupational<br>injuries                                 | N/A  |

Final Report

#### DRAFT, April 30, 2021

|                 | Lack of a supplier code<br>of conduct   | Share of investments in investee<br>companies without any supplier<br>code of conduct (against unsafe<br>working conditions, precarious<br>work, child labour and forced<br>labour)  | Sustainable<br>Supply chain             | 20 Project<br>supply chain<br>sustainability<br>management  | Existence of a sustainable<br>procurement plan and<br>compliance monitoring            |
|-----------------|---|--|---|---|--|
|                 | Lack of grievance/<br>complaints handling<br>mechanism related to<br>employee matters | Share of investments in investee<br>companies without any<br>grievance/complaints handling<br>mechanism related to employee<br>matters   | Working<br>Conditions                   | 23 Labor rights   | Integration of International<br>Labour Organisation's (ILO)<br>fundamental conventions |
|                 | Insufficient<br>whistleblower<br>protection   | Share of investments in entities<br>without policies on the<br>protection of whistleblowers  | Working<br>Conditions                   | 23 Labor rights   | Integration of International<br>Labour Organisation's (ILO)<br>fundamental conventions |
|                 |   | Number of incidents of   | Working<br>Conditions                   | 23 Labor rights   | Integration of International<br>Labour Organisation's (ILO)<br>fundamental conventions |
|                 | discrimination  | discrimination reported in<br>investee companies expressed<br>as a weighted average  | Gender                                  | 3 Gender<br>equality, inclusi-<br>veness and<br>empowerment | Existence and Implementation<br>of a comprehensive gender<br>action plan (GAP).        |
|                 | Excessive CEO pay<br>ratio  | Average ratio within investee<br>companies of the annual total<br>compensation for the highest<br>compensated individual to the<br>median annual total<br>compensation for all employees<br>(excluding the highest-<br>compensated individual) | Working<br>Conditions                   | 26 Fair Wages   | Percentage of employees who<br>are paid a fair wage                                    |
|                 | Lack of a human rights<br>policy  | Share of investments in entities without a human rights policy   | Stakeholder<br>Engagement               | 7 Free, Prior and<br>Informed<br>Consent (FPIC)             | Obtainment of Free, Prior and<br>Informed Consent (FPIC)                               |
|                 |   |  | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system                    | Implementation of a<br>sustainable management<br>system and reporting                  |
| Human<br>Rights | Lack of due diligence   |  | Stakeholder<br>Engagement               | 6 Stakeholder<br>engagement<br>plan                         | Existence of a meaningful and<br>inclusive stakeholder<br>engagement process and plan. |
|                 |   | Share of investments in entities   | Stakeholder<br>Engagement               | 7 Free, Prior and<br>Informed<br>Consent (FPIC)             | Obtainment of Free, Prior and<br>Informed Consent (FPIC)                               |
|                 |   | to identify, prevent, mitigate<br>and address adverse human<br>rights impacts  | Stakeholder<br>Engagement               | 8 Involuntary<br>Resettlement                               | People physically or<br>economically impacted by the<br>project                        |

#### **Final Report**

DRAFT, April 30, 2021

|   |  | 1  | гг |                             |  |   |
|---|--|--|----|-----------------------------|--|---|
|   | Lack of processes and<br>measures for<br>preventing trafficking<br>in human beings                                       | Share of investments in investee<br>companies without policies<br>against trafficking in human<br>beings   |    | NOT RELEVA                  | NT   |   |
|   | Operations and<br>suppliers at significant<br>risk of incidents of<br>child labour                                       | Share of investments in investee<br>companies exposed to<br>operations and suppliers at<br>significant risk of incidents of<br>child labour exposed to<br>hazardous work in terms of<br>geographic areas or type of<br>operation           |    | Sustainable<br>Supply chain | 20 Project<br>supply chain<br>sustainability<br>management | Existence of a sustainable<br>procurement plan and<br>compliance monitoring |
|   | Operations and<br>suppliers at significant<br>risk of incidents of<br>forced or compulsory<br>labour                     | Share of the investments in<br>investee companies exposed to<br>operations and suppliers at<br>significant risk of incidents of<br>forced or compulsory labour in<br>terms in terms of geographic<br>areas and/or the type of<br>operation |    | Sustainable<br>Supply chain | 20 Project<br>supply chain<br>sustainability<br>management | Existence of a sustainable<br>procurement plan and<br>compliance monitoring |
|   | Number of identified<br>cases of severe human<br>rights issues and<br>incidents  | Number of cases of severe<br>human rights issues and<br>incidents connected to investee<br>companies on a weighted<br>average basis  |    | N/A                         | N/A  | N/A   |
| Anti-<br>corruption<br>and anti-<br>bribery | Lack of anti-<br>corruption and anti-<br>bribery policies  | Share of investments in entities<br>without policies on anti-<br>corruption and anti-bribery<br>consistent with the UN<br>Convention against Corruption  |    | Anti-<br>corruption         | 21 Anti-<br>corruption<br>program                          | Implementation of an anti-<br>corruption program                            |
|   | Cases of insufficient<br>action taken to<br>address breaches of<br>standards of anti-<br>corruption and anti-<br>bribery | Share of investments in investee<br>companies with identified<br>insufficiencies in actions taken<br>to address breaches in<br>procedures and standards of<br>anti-corruption and anti-bribery   |    |                             |  | N/A   |
|   | Number of convictions<br>and amount of fines<br>for violation of anti-<br>corruption and anti-<br>bribery laws           | Numbers of convictions and<br>amount of fines for violations of<br>anti-corruption and anti-bribery<br>laws by investee companies  |    |                             | N/A  | N/A   |

# Table 77: Mapping results against EU SFDR's Principal & Additional Adverse Impact Indicators

# EU SFDR Regulatory Technical Standards (RTS)

Final Report

#### DRAFT, April 30, 2021

| MATTERS  | PRINCIPAL ADVERSE<br>SUSTAINABILITY IMPACT<br>INDICATORS  | METRICS   | COVERAGE<br>LEVEL BY AISI |
|--|---|---|---------------------------|
|  |   | Scope 1 GHG emissions   |                           |
|  |   | Scope 2 GHG emissions   |                           |
|  | GHG emissions   | Scope 3 GHG emissions (from January 1,2023)   | HIGH                      |
|  |   | Total GHG emissions   |                           |
|  | Carbon footprint  | Carbon footprint  | HIGH                      |
| Greenhouse gas   | GHG intensity of investee<br>companies  | GHG intensity of investee companies   | PARTIAL                   |
| emissions  | Exposure to companies active in the fossil fuel sector  | Share of investments in companies active in the fossil fuel sector  | NONE                      |
|  | Share of non-renewable<br>energy consumption and<br>production  | Share of non-renewable energy consumption and<br>non-renewable energy production of investee<br>companies from non-renewable energy sources<br>compared to renewable energy sources, expressed as<br>a percentage | HIGH                      |
|  | Energy consumption intensity<br>per high impact climate sector  | Energy consumption in GWh per million EUR of revenue of investee companies, per high impact climate sector  | PARTIAL                   |
| Biodiversity   | Activities negatively affecting biodiversity- sensitive areas   | Share of investments in investee companies with<br>sites/operations located in or near to biodiversity-<br>sensitive areas where activities of those investee<br>companies negatively affect those areas          | PARTIAL                   |
| Water  | Emissions to water  | Tonnes of emissions to water generated by investee<br>companies per million EUR invested, expressed as a<br>weighted average  | HIGH                      |
| Waste  | Hazardous waste ratio   | Tonnes of hazardous waste generated by investee<br>companies per million EUR invested, expressed as a<br>weighted average   | PARTIAL                   |
| Fossil Fuels Exposure to fossil fuels through real estate assets     |   | Share of investments in real estate assets involved in the extraction, storage, transport or manufacture of fossil fuels  | NONE                      |
| Energy efficiency Exposure to energy- inefficient real estate assets |   | Share of investments in energy-inefficient real estate assets   | HIGH                      |
| Social and<br>employee<br>matters                                    | Violations of UN Global<br>Compact principles and OECD<br>Guidelines for Multinational<br>Enterprises | Share of investments in investee companies that have<br>been involved in violations of the UNGC principles or<br>OECD Guidelines for Multinational Enterprises  | HIGH                      |

**Final Report** 

|                              | Lack of processes and<br>compliance mechanisms to<br>monitor compliance with UN<br>Global Compact principles and<br>OECD Guidelines for<br>Multinational Enterprises | Share of investments in investee companies without<br>policies to monitor compliance with the UNGC<br>principles or OECD Guidelines for Multinational<br>Enterprises or grievance /complaints handling<br>mechanisms to address violations of the UNGC<br>principles or OECD Guidelines for Multinational<br>Enterprises | PARTIAL <sup>56</sup> |
|------------------------------|--|--|-----------------------|
|                              | Unadjusted gender pay gap  | Average unadjusted gender pay gap of investee companies  | HIGH                  |
|                              | Board gender diversity   | Average ratio of female to male board members in investee companies  | HIGH                  |
|                              | Exposure to controversial<br>weapons (anti-personnel<br>mines, cluster munitions,<br>chemical weapons and<br>biological weapons)                                     | Share of investments in investee companies involved<br>in the manufacture or selling of controversial<br>weapons   | NOT<br>RELEVANT       |
| MATTERS                      | ADDITIONAL ADVERSE<br>SUSTAINABILITY IMPACT<br>INDICATORS  | METRICS  |                       |
|                              | Emissions of inorganic pollutants  | Tonnes of inorganic pollutants equivalent per million<br>EUR invested, expressed as a weighted average   | NONE                  |
|                              | Emissions of air pollutants  | Tonnes of air pollutants equivalent per million EUR invested, expressed as a weighted average  | PARTIAL <sup>57</sup> |
| Emissions                    | Emissions of ozone depletion substances  | Tonnes of ozone depletion substances equivalent per<br>million EUR invested, expressed as a weighted<br>average  | NONE                  |
|                              | Investments in companies<br>without carbon emission<br>reduction initiatives   | Share of investments in investee companies without carbon emission reduction initiatives aimed at aligning with the Paris Agreement  | NONE                  |
| Energy<br>performance        | Breakdown of energy<br>consumption by type of non-<br>renewable sources of energy  | Share of energy from non-renewable sources used by investee companies broken down by each non-renewable energy source  | HIGH                  |
| Water, waste<br>and material | Water usage and recycling  | Average amount of water consumed and reclaimed by<br>the investee companies (in cubic meters) per million<br>EUR of revenue of investee companies  | PARTIAL <sup>58</sup> |

<sup>56</sup> artial, because the ASSI indicator refers to adherence to Labor Rights fundamental conventions, but does not mention monitoring mechanisms.

<sup>&</sup>lt;sup>57</sup> According to SFDR, 'air pollutants' means direct sulphur dioxides (SOx/SO2) emissions, direct nitrogen oxides (NOx/NO2) emissions, , direct non-methane volatile organic compounds (NMVOC) emissions and direct particulate matter (PM2.5) emissions as defined in points (5) to (8) of Article 3 of, as well as direct ammonia (NH3) and direct total heavy metals (HM) emissions (encompassing cadmium, mercury and lead) as referred to in Directive (EU) 2016/2284 of the European Parliament and of the Council

<sup>&</sup>lt;sup>58</sup> Partial because ASSI does not require data on the amount of reclaimed water used.

| emissions                                    |  | Weighted average percentage of water recycled and reused by investee companies   |                 |  |
|--|--|--|-----------------|--|
|  | Investments in companies<br>without water management<br>policies   | Share of investments in investee companies without water management policies   | HIGH            |  |
|  | Exposure to areas of high water stress   | Share of investments in investee companies with sites<br>located in areas of high water stress without a water<br>management policy  | PARTIAL         |  |
|  | Investments in companies<br>producing chemicals  | Share of investments in investee companies the<br>activities of which fall under Division 20.2 of Annex I<br>to Regulation (EC) No 1893/2006   | NOT<br>RELEVANT |  |
|  | Land degradation,<br>desertification, soil sealing   | Share of investments in investee companies the activities of which cause land degradation, desertification or soil sealing   | PARTIAL         |  |
|  | Investments in companies<br>without sustainable<br>land/agriculture practices  | Share of investments in investee companies without sustainable land/agriculture practices or policies  | HIGH            |  |
|  | Investments in companies<br>without sustainable<br>oceans/seas practices   | Share of investments in investee companies without sustainable oceans/seas practices or policies   | HIGH            |  |
|  | Non-recycled waste ratio   | Tonnes of non-recycled waste generated by investee<br>companies per million EUR invested, expressed as a<br>weighted average   | HIGH            |  |
| Biodiversity                                 | Natural species and protected<br>areas   | Share of investments in investee companies whose<br>operations affect threatened species<br>Share of investments in investee companies without a<br>biodiversity protection policy covering operational<br>sites owned, leased, managed in, or adjacent to, a<br>protected area or an area of high biodiversity value<br>outside protected areas | PARTIAL         |  |
|  | Deforestation  | Share of investments in companies without a policy to address deforestation  | NONE            |  |
| Green securities                             | Share of securities not<br>certified as green under a<br>future EU legal act setting up<br>an EU Green Bond Standard | Share of securities in investments not certified as green  | NONE            |  |
| Greenhouse gas<br>emissions<br>GHG emissions |  | Scope 1 GHG emissions generated by real estate<br>assets<br>Scope 2 GHG emissions generated by real estate<br>assets   | HIGH            |  |

|                                     |   | Scope 3 GHG emissions generated by real estate   |         |
|-------------------------------------|---|--|---------|
|                                     |   | assets (From 1 January 2023)   |         |
|                                     |   | Total GHG emissions generated by real estate assets  |         |
| Energy<br>consumption               | Energy consumption intensity  | Energy consumption in GWh of owned real estate assets per square meter   | PARTIAL |
| Waste                               | Waste production in<br>operations   | Share of real estate assets not equipped with facilities<br>for waste sorting and not covered by a waste<br>recovery or recycling contract   | PARTIAL |
| Resource<br>consumption             | Raw materials consumption<br>for new construction and<br>major renovations        | Share of raw building materials (excluding recovered,<br>recycled and biosourced) compared to the total<br>weight of building materials used in new construction<br>and major renovations  | HIGH    |
| Biodiversity Land artificialisation |   | Share of non-vegetated surface area (surfaces that<br>have not been vegetated in ground, as well as on<br>roofs, terraces and walls) compared to the total<br>surface area of the plots of all assets                                | NONE    |
|                                     | Investments in companies<br>without workplace accident<br>prevention policies     | Share of investments in investee companies without a workplace accident prevention policy  | HIGH    |
|                                     | Rate of accidents   | Rate of accidents in investee companies expressed as a weighted average  | HIGH    |
|                                     | Number of days lost to<br>injuries, accidents, fatalities or<br>illness           | Number of workdays lost to injuries, accidents,<br>fatalities or illness of investee companies expressed<br>as a weighted average  | PARTIAL |
| Additional Social<br>and employee   | Lack of a supplier code of<br>conduct   | Share of investments in investee companies without<br>any supplier code of conduct (against unsafe working<br>conditions, precarious work, child labour and forced<br>labour)  | HIGH    |
| matters                             | Lack of grievance/complaints<br>handling mechanism related to<br>employee matters | Share of investments in investee companies without<br>any grievance/complaints handling mechanism<br>related to employee matters   | PARTIAL |
|                                     | Insufficient whistleblower protection   | Share of investments in entities without policies on the protection of whistleblowers  | PARTIAL |
|                                     | Incidents of discrimination   | Number of incidents of discrimination reported in investee companies expressed as a weighted average   | PARTIAL |
|                                     | Excessive CEO pay ratio   | Average ratio within investee companies of the<br>annual total compensation for the highest<br>compensated individual to the median annual total<br>compensation for all employees (excluding the<br>highest-compensated individual) | PARTIAL |
| Human Rights                        | Lack of a human rights policy   | Share of investments in entities without a human rights policy   | PARTIAL |

**Final Report** 

|                                     | Lack of due diligence   | Share of investments in entities without a due<br>diligence process to identify, prevent, mitigate and<br>address adverse human rights impacts  | HIGH            |
|-------------------------------------|---|---|-----------------|
|                                     | Lack of processes and<br>measures for preventing<br>trafficking in human beings                                   | Share of investments in investee companies without policies against trafficking in human beings   | NOT<br>RELEVANT |
|                                     | Operations and suppliers at<br>significant risk of incidents of<br>child labour                                   | Share of investments in investee companies exposed<br>to operations and suppliers at significant risk of<br>incidents of child labour exposed to hazardous work<br>in terms of geographic areas or type of operation              | HIGH            |
|                                     | Operations and suppliers at<br>significant risk of incidents of<br>forced or compulsory labour                    | Share of the investments in investee companies<br>exposed to operations and suppliers at significant risk<br>of incidents of forced or compulsory labour in terms<br>in terms of geographic areas and/or the type of<br>operation | HIGH            |
|                                     | Number of identified cases of<br>severe human rights issues<br>and incidents                                      | Number of cases of severe human rights issues and incidents connected to investee companies on a weighted average basis   | NONE            |
|                                     | Lack of anti-corruption and anti-bribery policies   | Share of investments in entities without policies on<br>anti-corruption and anti-bribery consistent with the<br>United Nations Convention against Corruption  | HIGH            |
| Anti-corruption<br>and anti-bribery | Cases of insufficient action<br>taken to address breaches of<br>standards of anti- corruption<br>and anti-bribery | Share of investments in investee companies with identified insufficiencies in actions taken to address breaches in procedures and standards of anti-corruption and anti-bribery   | PARTIAL         |
|                                     | Number of convictions and<br>amount of fines for violation<br>of anti- corruption and anti-<br>bribery laws       | Numbers of convictions and amount of fines for<br>violations of anti-corruption and anti-bribery laws by<br>investee companies  | NONE            |

SFDR distinguishes its adverse sustainability impact indicators into 16 principal (mandatory) and 38 additional (optional) indicators. Three of the total 54 SFDR adverse impact indicators were identified as not relevant to infrastructure, 1 principal and 2 additional.

The high majority (13) out of the remaining 15 principal indicators are highly (8) or partially (5) addressed by AISI, with 2 not addressed. Of the 36 additional infrastructure-relevant SFDR indicators 28 are highly (14) or partially (14) addressed by AISI, with 8 not addressed.

In total 41 SFDR's principal and additional indicators are addressed by AISI's set of indicators, and more specifically by 18 of the 28 AISI indicators. Moreover it is worth noting that 10 of these 18 AISI indicators address 2 or more SFDR indicators each, as seen in the table below:

#### Table 78: No.of addressed SFDR indicators per AISI indicator

**Final Report** 

| AISI INDICATORS                                      | METRICS  | no. of SFDR<br>addressed <sup>59</sup><br>indicators per<br>AISI indicator |
|--|--|--|
| 2 Sustainability management<br>system                | Implementation of a sustainable management system and reporting  | 1  |
| 3 Gender equality, inclusiveness<br>and empowerment  | Existence and Implementation of a comprehensive gender action plan (GAP).                                | 3  |
| 6 Stakeholder engagement plan                        | Existence of a meaningful and inclusive stakeholder engagement process and plan.                         | 1  |
| 7 Free, Prior and Informed Consent<br>(FPIC)         | Obtainment of Free, Prior and Informed Consent (FPIC)  | 2  |
| 8 Involuntary Resettlement                           | People physically or economically impacted by the project  | 1  |
| 10 Public health and safety<br>management plan       | Implementation of a public health and safety management plan   | 1  |
| 12 GHG emissions                                     | Volume of Greenhouse gas emissions emitted by the project  | 4  |
| 13 Efficient use of energy                           | Amount of energy consumed by the project   | 4  |
| 14 Materials lifecycle thinking                      | Consideration of materials lifecycle impacts   | 1  |
| 15 Reduction of Waste                                | Percentage of total waste diverted from incineration and landfills                                       | 2  |
| 16 Fine particulate matter emission                  | Mean PM2.5 and PM10 emissions  | 1  |
| 17 Threatened species                                | Number of Aquatic and Terrestrial Species Impacted (Fauna and Flora)                                     | 2  |
| 18 Watershed Management                              | Existence of an Integrated Watershed Assessment and Management<br>Program                                | 5  |
| 11 Freshwater withdrawal                             | Annual volume of fresh water used by the infrastructure project  | 2  |
| 19 Previously Disturbed Land                         | Percentage of land used by the project that has been previously disturbed or maintained as non-disturbed | 1  |
| 20 Project supply chain<br>sustainability management | Existence of a sustainable procurement plan and compliance monitoring                                    | 3  |
| 21 Anticorruption program                            | Implementation of an anti-corruption program   | 2  |
| 23 Labor rights                                      | Integration of International Labour Organisation's (ILO) fundamental conventions                         | 5  |

The total principal and additional SFDR indicators not addressed by AISI are presented in the table below:

# Table 79: EU SFDR principal & additional indicators not covered by AISI

| EU SFDR Regulatory Technical Standards (RTS) indicators not covered by AISI |   |  |  |
|---|---|--|--|
| MATTERS   | PRINCIPAL ADVERSE SUSTAINABILITY IMPACT INDICATORS  | METRICS  |  |
| Greenhouse  | Exposure to companies active in the                 | Share of investments in companies active in the fossil fuel  |  |
| gas emissions   | fossil fuel sector                                  | sector   |  |
| Fossil Fuels  | Exposure to fossil fuels through real estate assets | Share of investments in real estate assets involved in the extraction, storage, transport or manufacture of fossil fuels |  |

<sup>59</sup> Addressed partially or highly.

**Final Report** 

| MATTERS                                     | ADDITIONAL ADVERSE<br>SUSTAINABILITY IMPACT  |  |  |
|---|--|--|--|
|   | INDICATORS   | METRICS  |  |
|   | Emissions of inorganic pollutants  | Tonnes of inorganic pollutants equivalent per million EUR invested, expressed as a weighted average  |  |
| Emissions                                   | Emissions of ozone depletion<br>substances   | Tonnes of ozone depletion substances equivalent per million EUR invested, expressed as a weighted average  |  |
|   | Investments in companies without carbon emission reduction initiatives   | Share of investments in investee companies without carbon<br>emission reduction initiatives aimed at aligning with the Paris<br>Agreement  |  |
| Biodiversity                                | Deforestation  | Share of investments in companies without a policy to address deforestation  |  |
| Green<br>securities                         | Share of securities not certified as<br>green under a future EU legal act<br>setting up an EU Green Bond<br>Standard | Share of securities in investments not certified as green  |  |
| Biodiversity                                | Land artificialisation   | Share of non-vegetated surface area (surfaces that have not been vegetated in ground, as well as on roofs, terraces and walls) compared to the total surface area of the plots of all assets |  |
| Human Rights                                | Number of identified cases of severe human rights issues and incidents   | Number of cases of severe human rights issues and incidents connected to investee companies on a weighted average basis  |  |
| Anti-<br>corruption<br>and anti-<br>bribery | Number of convictions and amount<br>of fines for violation of anti-<br>corruption and anti-bribery laws              | Numbers of convictions and amount of fines for violations of anti-<br>corruption and anti-bribery laws by investee companies   |  |

# Table 80: SDFR metrics not addressed by AISI indicators

| AISI LINKED INDICATORS     | SFDR PRINCIPAL ADVERSE<br>SUSTAINABILITY IMPACT<br>INDICATORS  | NOT ADDRESSED METRICS  |
|----------------------------|--|--|
| 12 GHG emissions           | GHG intensity of investee companies                            | GHG intensity of investee companies  |
| 13 Efficient use of energy | Energy consumption intensity per<br>high impact climate sector | Energy consumption in GWh per million EUR of revenue of investee companies, per high impact climate sector   |
| AISI LINKED INDICATORS     | SFDR ADDITIONAL ADVERSE<br>SUSTAINABILITY IMPACT<br>INDICATORS | NOT ADDRESSED METRICS  |
| 11 Freshwater withdrawal   | Water usage and recycling                                      | Weighted average percentage of water recycled<br>and reused by investee companies  |
| 17 Threatened species      | Natural species and protected areas                            | Share of investments in investee companies<br>without a biodiversity protection policy covering<br>operational sites owned, leased, managed in, or<br>adjacent to, a protected area or an area of high<br>biodiversity value outside protected areas |

| 15 Reduction of Waste   | Waste production in operations  | Share of real estate assets not equipped with facilities for waste sorting and not covered by a waste recovery or recycling contract  |
|---|---|---|
| 25 Frequency rates of fatal<br>and non-fatal occupational<br>injuries | Number of days lost to injuries,<br>accidents, fatalities or illness  | Number of workdays lost to injuries, accidents,<br>fatalities or illness of investee companies<br>expressed as a weighted average   |
| 21 Anticorruption program   | Cases of insufficient action taken<br>to address breaches of standards<br>of anti-corruption and anti-bribery | Share of investments in investee companies with identified insufficiencies in actions taken to address breaches in procedures and standards of anti-corruption and anti-bribery |

# **9. SYNTHESIS OF FINDINGS**

This section provides a cross-system reading of the mappings to the extent possible, given that each system has its own vocabulary, approach and methodology for prioritizing sustainability issues and proposing a selected, compact or extensive, list of indicators. These indicators are connected to metrics, qualitative, quantitative or a combination of both. The cross-system reading has been provided in section 7 for the high-level mapping of AISI with the selected ESG systems with conclusions regarding:

- scope compatibility,
- ease of use and compactness,
- comprehensiveness,
- infrastructure project relevance, and
- structure and content comparability.<sup>60</sup>

The cross-system reading of the detailed mapping does not intend to supersede the findings of mapping each "standard" against AISI or AISI's mapping against each "framework or regulation and guidelines." So, key sustainability topics/issues were selected for reading the results, which highlight main overlaps and differences in each system's approach and methodology, and could potentially serve as recommendations for AISI.

The selected key sustainability topics are:

- climate risk,
- GHG emissions,
- energy,
- water,
- solid waste,
- air quality,
- biodiversity, and

<sup>&</sup>lt;sup>60</sup> The high level mappings regarding scope compatibility and structure and content comparability were performed mainly with the objective to determine the feasibility of a detailed mapping of systems. It is through the detailed mapping that more targeted observations regarding the systems content were enabled, and will be presented in the respective section.
• human capital.

The findings are based on indicators or metrics of other ESG systems that were not linked to AISI indicators, so they were identified as omitted by AISI. The findings were also based on the observed similarities or differences in the approach and methodology used by each ESG system regarding the selected sustainability topics.

# 9.1. Synthesis of the findings of high-level mapping

### Regarding tool's ease of use and compactness

AISI is a compact and easy to use tool. It is an one-document guidance tool with a compact list of indicators as compared to the other systems and standards. ESG standards include more detailed information than the one provided by frameworks, including various guidance documents. Only WEF was identified to be equally compact as AISI.

The direct connection of AISI's indicators to the SDG goals and specific targets is a feature that significantly adds to AISI's ease of use, highlighting its value. WEF also provides this linkage in a broader sense, while GRI and SASB present this information on stand-alone documents.

### Regarding infrastructure project relevance

Among the ESG systems, AISI is the only one that focuses on infrastructure projects. The rest of the systems, though infrastructure-relevant, are enterprise based. However, this basic difference did not prevent the mapping against AISI, although it was necessary to slightly customize certain narratives of indicators to address the project level.

SASB is also considered to be an easy-to-use standard because of its materiality map and its online platform. It includes infrastructure-related industries in its list of industries, however, it does not provide a straightforward insight to infrastructure projects. To do so, it would require the user to fully review other industries' standards and identify material topics relevant to an infrastructure project, a task that was performed for the purposes of the present exercise. SASB encourages its users to identify topics financially material to their company.

### **Regarding Comprehensiveness**

AISI does not aim to provide a comprehensive assessment of sustainability, but rather prioritizes 'characteristics deemed as necessary for early consideration by investors when prioritizing projects.' This approach is in line with ESG standards, as they all aim to capture sustainability topics that are material to a company and by extension to investors. Still, AISI covers the full range of ESG aspects through its indicators in a balanced way and the mapping did not identify key sustainability topics of other systems that were not addressed by AISI.

# 9.2. Synthesis of findings of the detailed mapping

## **Overall observations- singularities of AISI**

ASSI requires comprehensive evidence for several indicators/metrics, requesting details of plans, management systems or programs that encompass all potential relevant information, such as:

- strategic options assessment,
- sustainability management system,
- comprehensive gender action plan (GAP),
- climate risk adaptation plan,
- stakeholder engagement,
- public health and safety management plan,
- integrated watershed assessment and management program,
- sustainable procurement plan,
- anti-corruption program, and
- comprehensive OH&S Management System

The other "standards" (e.g., SASB, GRI) include more indicators and mainly quantitative metrics to capture the scope of similar sustainability topics, but at a lesser detail than AISI. The mapping of other systems with AISI provides insight for additional 'metrics,' which could be included in AISI's indicators.

The inclusion of gender equality in AISI as a separate performance indicator is a different approach than most standards, where gender is integrated in other indicators, mostly as a consideration for reporting or breakdown; most often as part of work-related and human rights disclosures.

It is also observed that AISI includes information that is not found in some systems. The indicator 'sustainability in project award' is not included in any of the mapped ESG systems. The indicator 'heritage assessment' was also not included in GRI and SASB and the issue of cultural heritage was not explicitly addressed by WEF. The indicator 'previously disturbed land,' a key issue for citing infrastructure projects is not adequately covered in other systems.

AISI includes a rationale for the selection of its indicators and their importance in describing potential financial impacts of not considering them in the decision-making process. However, the metrics used for AISI indicators reflect sustainable performance against the indicator and do not reflect impact or benefit in monetary terms. AISI has a more environmental and social materiality as opposed to financial materiality. The difference in the nature of metrics on materiality is highlighted through the mappings of AISI against TCFD and EU SDFR. TCFD links climate risks and opportunities to financial impacts and EU SFDR's metrics are in their majority expressed in market value.

GRI has an approach similar to AISI to materiality, as expressed by most of its reporting requirements, however, as part of its economic-related disclosures, it also requests reporting in monetary terms. SASB also includes monetary metrics in various disclosure topics, most commonly about the monetary losses of not considering a specific sustainability topic. WEF complements its sustainability performance metrics

with 'a valued impact' in monetary terms in several of its disclosures. According to WEF, "Reporting valued impact in monetary terms provides a meaningful indication of the scale of impacts in units that can be readily understood by executives and compared across impact areas and with financial figures. Valuation of environmental impacts is increasingly recognized as the most efficient and effective way of incorporating as much relevant contextual information as possible to provide estimates of actual impact, rather than simply measures of output as is the case with most quantitative environmental metrics."<sup>61</sup>

| Table 81: Examples o | f metrics expressed in moneta | ry terms per ESG system |
|----------------------|-------------------------------|-------------------------|
|----------------------|-------------------------------|-------------------------|

| TCFD | 'carbon price',<br>'revenues/savings from investments in',<br>'expenditures (OpEx) for',<br>'Investment (CapEx) in',<br>'indicative costs of',<br>'return on capital' related to a specific climate risk or opportunity or sustainability impact |
|------|--|
| SDFR | 'share of investments in entities without [consideration of the specific adverse<br>sustainability impact]',<br>e.g., 'energy consumption per million EUR of revenue of investee companies'  |
| NFDR | 'Revenues from',<br>'expenditures for',<br>Percent turnover'<br>'percent investment (CapEx) and/or<br>'expenditures (OpEx)' associated with some of its indicators   |
| GRI  | 'costs of actions taken',<br>'financial implications of'<br>'amount of spending on'<br>'total monetary value of significant fines' related to [a specific impact].   |
| SASB | 'total amount of monetary losses as a result of legal proceedings associated with' the sustainability topic under consideration.<br>'rework costs'   |
| WEF  | 'valued impact' <sup>62</sup> in monetary terms  |

The translation of a performance metric into monetary value, or expressing it in market value, is considered as a feasible next conversion for investors, once the data on the performance of a project or a

<sup>&</sup>lt;sup>61</sup> World Economic Forum. (September 2020) "Measuring Stakeholder Capitalism towards Common Metrics and Consistent Reporting of Sustainable Value Creation".

<sup>&</sup>lt;sup>62</sup> WEF as reference for the valued impact includes: US EPA fact sheet on the Social Cost of Carbon (2016), the Natural Capital Protocol (2016), ISO 14008 Monetary valuation of environmental impacts and related environmental aspects (2019), the Value Balancing Alliance.

### PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

portfolio of projects is reported by the company. For that reason, in some cases of the detailed mappings, it is assumed that AISI's performance metrics capture the nature of the other system's financial impact (e.g., against SFDR).

# **Observations regarding key sustainability topics**

## **Regarding Climate risk**

AISI covers climate risk management by focusing on the physical risks of climate change and not on the exposure to the risks of the transition to a low-carbon economy.

| WEF  | TCFD implementation  | Fully implement the recommendations of the Task Force on Climate-<br>related Financial Disclosures (TCFD). If necessary, disclose a timeline of at<br>most three years for full implementation. Disclose whether you have set, or<br>have committed to set, GHG emissions targets that are in line with the goals<br>of the Paris Agreement – to limit global warming to well below 2°C above<br>pre-industrial levels and pursue efforts to limit warming to 1.5°C – and to<br>achieve net-zero emissions before 2050.   |
|--|--|---|
| GRI  | 201-2 Financial implications and<br>other risks and opportunities due<br>to climate change | <ul> <li>a. Risks and opportunities posed by climate change that have the potential to generate substantive changes in operations, revenue, or expenditure, including: <ol> <li>a description of the risk or opportunity and its classification as either physical, regulatory, or other;</li> <li>a description of the impact associated with the risk or opportunity;</li> </ol> </li> <li>iii. the financial implications of the risk or opportunity before action is taken;</li> <li>the methods used to manage the risk or opportunity;</li> <li>v. the costs of actions taken to manage the risk or opportunity.</li> </ul> |
| SASB                                       | Climate impacts of business mix  | Amount of backlog for (1) cancellation associated with hydrocarbon-related projects and (2) renewable energy projects   |
| Mana<br>Infras<br>Relate<br>Grid R<br>Mana |  | Amount of backlog for non-energy projects associated with climate change mitigation   |
|  | Management of Energy<br>Infrastructure Integration &<br>Related Regulations                | Description of risks associated with integration of solar energy into existing energy infrastructure and discussion of efforts to manage those risks  |
|  |  | Description of risks and opportunities associated with energy policy and its impact on the integration of solar energy into existing energy infrastructure  |
|  | (Systemic Risk Management)<br>Grid Resiliency  | (1) System Average Interruption Duration Index (SAIDI), (2) System Average<br>Interruption Frequency Index (SAIFI), and (3) Customer Average Interruption<br>Duration Index (CAIDI), inclusive of major event days  |
|  | Managing Systemic Risks from   | (1) System average interruption frequency and (2) customer average interruption duration  |

|      | Technology Interruptions   | Discussion of systems to provide unimpeded service during service interruptions   |
|------|--|---|
| TCFD | Risk Adaptation & Mitigation   | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)   |
|      |  | Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)   |
|      |  | Proportion of capital allocation to long-lived assets versus short-term assets  |
|      |  | Capital payback periods or return on capital deployed   |
|      | Location   | Area of buildings, plants or properties located in designated flood hazard areas  |
| NFRD | Physical risks   | Assets committed in regions likely to become more exposed to acute or chronic physical climate risks  |
|      | Products and services  | Percent turnover in the reporting year from products or services associated<br>with activities that meet the criteria for substantially contributing to<br>mitigation of or adaptation to climate change as set out in the Regulation<br>on the establishment of a framework to facilitate sustainable investment<br>(EU taxonomy).<br>And / or<br>Percent investment (CapEx) and/or expenditures (OpEx) in the reporting<br>year for assets or processes associated with activities that meet the criteria<br>for substantially contributing to mitigation of or adaptation to climate<br>change as set out in the Regulation on the establishment of a framework to<br>facilitate sustainable investment (EU taxonomy). |
|      | Opportunities of efforts   | Revenues from low-carbon products   |
|      | engaging with a transition to a<br>low carbon and climate-resilient  | Revenues from product or services applying to the circular economy model,   |
|      | economy, aligned with key EU   | R&D expenditures in circular economy production   |
|      | change mitigation / adaptation<br>activities.  |   |
|      | Disclosure on natural capitals (e.g.<br>water, soil productivity or<br>biodiversity) for companies whose<br>business models are dependent on<br>natural capitals threatened by<br>climate change |   |
| SFDR | Exposure to fossil fuels through real estate assets  | Share of investments in real estate assets involved in the extraction, storage, transport or manufacture of fossil fuels  |
|      | Exposure to companies active in the fossil fuel sector   | Share of investments in companies active in the fossil fuel sector  |

### **Regarding GHG emissions**

When referring to GHG emissions, AISI similar to the majority of the systems requires evidence on Scope 1, 2 & 3 emissions. SASB has adopted a different approach. It requires the disclosure of direct emissions (Scope 1) and accounts for indirect emissions by capturing operational and/or strategic factors that give rise to such emissions: 'Energy Management' (Scope 2) and 'Product Design & Lifecycle Management', 'Supply Chain Management Materials Sourcing & Efficiency' (Scope 3). According to SASB "these factors are the actionable "levers" that company management is likely to pull to reduce Scope 2 and 3 emissions. Reporting on these "levers" enables investors to evaluate whether a company is adapting its business operations and strategy to mitigate climate-related risks, realize climate-related opportunities, and enable achievement of society's GHG emission targets."<sup>63</sup>

So, SASB includes metrics that capture information about the energy consumed by the reporting entity as a surrogate for Scope 2 emissions and similarly, rather than calling for Scope 3 emissions disclosure— which relates to issues beyond the control of reporting entities—SASB calls for the disclosure of industry-specific metrics related to the direct risks and opportunities companies face which drive Scope 3 emissions both up and down the value chain.<sup>64</sup>

|      | TCFD implementation         | Fully implement the recommendations of the Task Force on Climate-related                |
|------|-----------------------------|---|
| W/FE |                             | Financial Disclosures (TCFD). If necessary, disclose a timeline of at most three        |
| VVLI |                             | years for full implementation. Disclose whether you have set, or have                   |
|      |                             | committed to set, GHG emissions targets that are in line with the goals of the          |
|      |                             | Paris Agreement – to limit global warming to well below 2°C above pre-                  |
|      |                             | industrial levels and pursue efforts to limit warming to $1.5^\circ$ C – and to achieve |
|      |                             | net-zero emissions before 2050.   |
|      | Paris-aligned GHG emissions | Define and report progress against time-bound science-based GHG emissions               |
|      | targets                     | targets that are in line with the goals of the Paris Agreement – to limit global        |
|      |                             | warming to well below 2°C above pre-industrial levels and pursue efforts to             |
|      |                             | limit warming to 1.5°C. This should include defining a date before 2050 by              |
|      |                             | which you will achieve net-zero greenhouse gas emissions, and interim                   |
|      |                             | reduction targets based on the methodologies provided by the Science Based              |
|      |                             | Targets initiative, if applicable.  |
|      |                             | If an alternative approach is taken, disclose the methodology used to                   |
|      |                             | calculate the targets and the basis on which they deliver on the goals of the           |
|      |                             | Paris Agreement.  |

#### Table 83: GHG emissions- related indicators/metrics not included in AISI

<sup>&</sup>lt;sup>63</sup> Sustainability Accounting Standards Board. (September 2020) SASB Implementation Supplement: Greenhouse Gas Emissions and SASB Standards.

<sup>&</sup>lt;sup>64</sup> Ibid.

|      | Impact of GHG emissions  | Report wherever material along the value chain (GHG Protocol Scope 1, 2 & 3) the valued impact of greenhouse gas emissions.  |
|------|--|--|
|      |  | Disclose the estimate of the <b>societal cost of carbon</b> used and the source or basis for this estimate.  |
| GRI  | 305-4 GHG emissions intensity  | <ul> <li>a. GHG emissions intensity ratio for the organization.</li> <li>b. Organization-specific metric (the denominator) chosen to calculate the ratio</li> </ul>  |
|      |  | <ul> <li>c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>d. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> </ul>   |
|      | 305-5 Reduction of GHG emissions   | <ul> <li>a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO2 equivalent.</li> <li>b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs,</li> </ul>  |
|      |  | <ul> <li>SF6, NF3, or all.</li> <li>c. Base year or baseline, including the rationale for choosing it.</li> <li>d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2), and/or other indirect (Scope 3).</li> <li>e. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul> |
| SASB | Emissions Reduction Services &   | Discussion of strategies or plans to address air-emissions related risks,  |
|      | Fuels management   | opportunities and impacts<br>Percentage of engines in service that meet Tier 4 compliance for non-road<br>diesel engine emissions  |
|      | Greenhouse emissions   | Discussion of long-term and short-term strategy or plan to manage Scope 1<br>and lifecycle emissions, emissions reduction targets, and an analysis of<br>performance against those targets   |
|      |  | emission of a specific (per industry) substance  |
| TCFD | GHG Emissions  | Describe current carbon price or range of prices used  |
|      |  | GHG emissions intensity from buildings (by occupants or square area) and from new construction and redevelopment   |
| NFRD | Direct and indirect atmospheric<br>emissions                                 | GHG absolute emissions target  |
|      |  | Emissions of other pollutants (measured in absolute value and as intensity)  |
| SFDR | GHG intensity of investee<br>companies                                       | GHG intensity of investee companies  |
|      | Investments in companies without<br>carbon emission reduction<br>initiatives | Share of investments in investee companies without carbon emission reduction initiatives aimed at aligning with the Paris Agreement  |

# **Regarding Energy**

AISI addresses energy management through its 'efficient use of energy' indicator. Though the indicator's description refers to the importance of energy consumption savings, the metric 'amount of energy

#### DRAFT, April 30, 2021

# PPIAF's ASSI MAPPING ON ESG SYSTEMS Final Report

consumed by the project' does not highlight the reduced energy objective of the indicators as in other ESG systems where clear reference is made on 'energy intensity', reduction targets, efficiency targets or considerations etc., as shown in the table below.

|      | 302-3 Energy intensity           | a. Energy intensity ratio for the organization.                                 |
|------|----------------------------------|---|
|      |                                  | b. Organization-specific metric chosen to calculate the ratio.                  |
|      |                                  | c. Types of energy included in the intensity ratio: whether fuel, electricity.  |
|      |                                  | heating, cooling, steam, or all.  |
|      |                                  | d. Whether the ratio uses energy consumption within the organization.           |
|      |                                  | outside of it. or both.   |
|      | 302-4 Reduction of energy        | a. Amount of reductions in energy consumption achieved as a direct result of    |
|      | consumption                      | conservation and efficiency initiatives, in joules or multiples.                |
|      | consumption                      | b. Types of energy included in the reductions: whether fuel, electricity.       |
| GRI  |                                  | heating, cooling, steam, or all.  |
|      |                                  | c. Basis for calculating reductions in energy consumption, such as base year or |
|      |                                  | baseline, including the rationale for choosing it.                              |
|      |                                  | d. Standards, methodologies, assumptions, and/or calculation tools used.        |
|      | 302-5 Reduction in energy        | a. Reductions in energy requirements of sold products and services achieved     |
|      | requirements of products and     | during the reporting period, in joules or multiples.                            |
|      | services                         | b. Basis for calculating reductions in energy consumption, such as base year or |
|      |                                  | baseline, including the rationale for choosing it.                              |
|      |                                  | c. Standards, methodologies, assumptions, and/or calculation tools used.        |
|      |                                  | Discussion of process to incorporate operational-phase energy and water         |
|      | Lifecycle Impacts of Buildings & | efficiency considerations into project planning and design (engineering &       |
| SASR | Infrastructure                   | construction services)  |
| 3730 | Energy management                | certified to ENERGY STAR, by property subsector                                 |
|      |                                  | Certifica to Energy Subsector   |
|      | Fleet fuel management            | Percentage of alternative fuel vehicles in fleet                                |
| TCFD | Energy/Fuel                      | Indicative costs of supply for current and committed future projects (e.g.,     |
| -    |                                  | through a cost curve or indicative price range. This could be broken down by    |
|      |                                  | product, asset, or geography)   |
|      |                                  | Sales-weighted average fleet fuel economy, by region and weight/number          |
|      |                                  | of people transported   |
|      |                                  |   |
|      |                                  | Total energy intensity—by tons of product, amount of sales, number of           |
|      |                                  | products depending on informational value                                       |
|      |                                  | Duilding opergy intensity (by ecourants or course area)                         |
|      |                                  | building energy intensity (by occupants of square area)                         |
| NERD | Energy                           | Energy efficiency target  |
|      | 5,                               |   |
|      |                                  | Renewable energy production target.   |
|      |                                  | Energy performance and improvements in energy performance                       |
|      |                                  | Energy consumption from non-renewable sources and energy intensity              |

# Table 84: Energy-related Indicators/ metrics not included in AISI

| SFDR | Energy consumption intensity per | Energy consumption in GWh per million EUR of revenue of investee |
|------|----------------------------------|--|
|      | high impact climate sector       | companies, per high impact climate sector                        |

### Regarding water (quantity and quality)

AlSI's approach to capture sustainable water management in quantity and quality is reflected in two indicators, the 'freshwater withdrawal' and the 'watershed management' indicators. The two indicators capture sufficiently sustainable water management, as also identified in other ESG systems. However, in the table below some additional indicators and metrics identified in the other systems are presented for potential enhancing the description of AISI indicators. For example, SFDR requests information on the recycling or reuse of water.

### Table 85: Water-related Indicators/ metrics not included in AISI

| WEF  | Impact of freshwater<br>consumption and withdrawal | Report wherever material along the value chain: the valued impact of freshwater consumption and withdrawal.  |
|------|--|--|
| GRI  | 303-1 Interactions with water as a shared resource | <ul> <li>a. A description of how the organization interacts with water, including how and where water is withdrawn, consumed, and discharged, and the water-related impacts caused or contributed to, or directly linked to the organization's activities, products or services by a business relationship (e.g., impacts caused by runoff).</li> <li>b. A description of the approach used to identify water-related impacts, including the scope of assessments, their timeframe, and any tools or methodologies used.</li> <li>c. A description of how water-related impacts are addressed, including how the organization works with stakeholders to steward water as a shared resource, and how it engages with suppliers or customers with significant water-related impacts.</li> <li>d. An explanation of the process for setting any water-related goals and targets that are part of the organization's management approach, and how they relate to public policy and the local context of each area with water stress.</li> </ul> |
| SASB | Water Supply Resilience                            | Discussion of strategies to manage risks associated with the quality and availability of water resources   |
|      |  | Volume of recycled water delivered to customers  |
|      | Lifecycle Impacts of Buildings &<br>Infrastructure | Discussion of process to incorporate operational-phase energy and water efficiency considerations into project planning and design (engineering & construction services)   |
|      | Effluent Quality Management                        | Number of incidents of non-compliance associated with water effluent quality permits, standards, and regulations   |
|      |  | Water main replacement rate  |
|      | Distribution Network Efficiency                    | Volume of non-revenue real water losses  |

**Final Report** 

| TCFD | Water                     | Assets committed in regions with high or extremely high baseline water stress  |
|------|---------------------------|--|
|      |                           | Building water intensity (by occupants or square area)                         |
| SFDR | Water usage and recycling | Weighted average percentage of water recycled and reused by investee companies |

### **Regarding Waste**

Other systems address hazardous waste as an indicator, while AISI has encompassed it in the indicator 'public health and safety management plan.'

| <b>Table 86: Waste-related Indicators</b> | / metrics not included in AISI |
|---|--------------------------------|
|---|--------------------------------|

| WEF             | Impact of solid waste disposal                                | Report wherever material along the value chain, the valued societal impact of solid waste disposal, including plastics and other waste streams.   |
|-----------------|---|---|
| GRI             | 306-1 Waste generation and significant waste- related impacts | a. For the organization's significant actual and potential waste-related impacts,<br>a description of: (i). the inputs, activities, and outputs that lead or could lead to<br>these impacts; (ii). whether these impacts relate to waste generated in the<br>organization's own activities or to waste generated upstream or downstream<br>in its <b>value chain.</b> |
| SASB            | Management of Leachate 8                                      | Number of corrective actions implemented for landfill releases  |
| Hazardous Waste | Hazardous Waste   | Number of incidents of non-compliance associated with environmental impacts   |
|                 | Hazardous Waste Management                                    | Number and aggregate quantity of reportable spills, quantity recovered  |
| SFDR            | Waste production in operations                                | Share of real estate assets not equipped with facilities for waste sorting and not covered by a waste recovery or recycling contract  |

### **Regarding Air Quality**

AISI has selected Particulate Matter (PM) emissions (specifically  $PM_{2.5}$  and  $PM_{10}$ ) as the proxy indicator for air quality and presents its rationale for this indicator selection as representative of the topic. The approach of other systems in relation to air quality is different.

The 'air pollutants' definition of For EU SFDR is based on related EU Directives and means direct sulphur dioxides (SOx/SO2) emissions, direct nitrogen oxides (NOx/NO2) emissions, direct non-methane volatile organic compounds (NMVOC) emissions and direct particulate matter (PM<sub>2.5</sub>) emissions, as well as direct ammonia (NH3) and direct total heavy metals (HM) emissions (encompassing cadmium, mercury and lead). The other ESG standards (WEF, GRI and SASB) also request disclosure on all these types of air pollutants. Moreover, they include additional metrics to the calculation of emissions:

| WEF  | Impact of air pollution                                 | Report wherever material along the value chain: the valued impact of air pollution, including nitrogen oxides (NOx), sulphur oxides (SOx), particulate matter and other significant air emissions.  |
|------|---|---|
| GRI  | 305-6 Emissions of ozone-<br>depleting substances (ODS) | <ul> <li>a. Production, imports, and exports of ODS in metric tons of CFC-11<br/>(trichlorofluoromethane) equivalent.</li> <li>b. Substances included in the calculation.</li> <li>c. Source of the emission factors used.</li> <li>d. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul> |
| SASB | Air quality   | Percentage of each pollutant emission in or near areas of dense population  |
|      |   | Number of facilities in or near areas of dense population   |
|      |   | Number of incidents of non-compliance associated with air emissions   |
| NFRD | Direct and indirect atmospheric emissions               | Emissions of other pollutants (measured in absolute value <b>and as intensity</b> )   |
| SFDR | Emissions of inorganic pollutants                       | Tonnes of inorganic pollutants equivalent per million EUR invested, expressed as a weighted average   |
|      | Emissions of ozone depletion<br>substances              | Tonnes of ozone depletion substances equivalent per million EUR invested, expressed as a weighted average   |

### Table 87: Air-quality related Indicators/ metrics not included in AISI

## Regarding Biodiversity (ecosystem health)

AlSI's has selected three indicators for addressing biodiversity, the 'threatened species', 'watershed management' and 'previously disturbed land.' Together, they capture sufficiently the preservation of the ecosystem's health. Some additional indicators and metrics are presented in the table below for potential consideration to enhance the description of the AlSI indicators.

# Table 88: Ecosystem health- related Indicators/ metrics not included in AISI

| WEF Land use and ecological sensitivity | <ul> <li>Report for operations (if applicable) and full supply chain (if material):</li> <li>Area of land used for the production of basic plant, animal or mineral commodities (e.g. the area of land used for forestry, agriculture or mining activities).</li> <li>Year-on-year change in the area of land used for the production of basic plant, animal or mineral commodities.</li> <li>Note: Supply-chain figures can initially be estimated where necessary based on the mass of each commodity used and the average mass produced per unit of land in different sourcing locations.</li> <li>Percentage of land area in point 1 above or of total plant, animal and mineral commodity inputs by mass or cost, covered by a sustainability certification standard or formalized sustainable management programme. Disclose the certification standards or description of sustainable management programmes along with the percentage of total land area, mass or cost covered by each certification standard/programme.</li> </ul> |
|---|--|
|---|--|

| SASB | Land use & Ecological impacts                   | Total amount of monetary losses as a result of legal proceedings associated with environmental regulations   |  |
|------|---|--|--|
|      | Environmental impacts of project<br>development | Terrestrial acreage disturbed, percentage of impacted area restored  |  |
| SFDR | Natural species and protected areas             | Share of investments in investee companies without a biodiversity protection policy covering operational sites owned, leased, managed in, or adjacent to, a protected area or an area of high biodiversity value outside protected areas |  |
|      | Deforestation                                   | Share of investments in companies without a policy to address deforestation  |  |
|      | Land artificialisation                          | Share of non-vegetated surface area (surfaces that have not been vegetated in ground, as well as on roofs, terraces and walls) compared to the total surface area of the plots of all assets   |  |

Regarding human capital -related issues

AISI sufficiently addresses workforce related issues in its 'working condition' topic and related indicators, which are also identified in other systems. However, an additional indicator was identified in GRI and WEF, which include "workforce training and skill upgrading" as part of their human capital-related topics. Human capital management is of growing interest to investors because of evolving evidence of its financial impact.

| WEF | Skills for the<br>future | Training provided (#, \$)   |  |
|-----|--------------------------|---|--|
|     |                          | Number of unfilled skilled positions (#, %)   |  |
|     |                          | Monetized impacts of training – Increased earning capacity as a result of training intervention (%, \$) |  |
| GRI | Training &<br>Education  | 404-1 Average hours of training per<br>year per employee  | a. Average hours of training that the organization's employees have undertaken during the reporting period, by gender and employee category.   |
|     |                          | 404-2 Programs for upgrading employee skills and transition assistance programs                         | <ul> <li>a. Type and scope of programs implemented and<br/>assistance provided to upgrade employee skills.</li> <li>b. Transition assistance programs provided to facilitate<br/>continued employability and the management of career<br/>endings resulting from retirement or termination of<br/>employment.</li> </ul> |
|     |                          | 404-3 Percentage of employees receiving regular performance and career development reviews              | a. Percentage of total employees by gender and by<br>employee category who received a regular<br>performance and career development review during<br>the reporting period.   |

# Table 89: Workforce training and skill upgrading-related Indicators/ metrics not included in AISI

SASB does not include workforce training-related indicators in its standards, however, in 2019, it initiated a research project to review its human capital dimension and strengthen its approach with additional

indicators. Though not a final proposition of indicators, SASB's research highlighted the growing importance of 'workforce investment:'<sup>65</sup>

- Workforce Culture: Evidence highlights the increasing importance of organizational culture. This broad concept embodies the values, processes, and outcomes of an organization and can drive its ability to produce a more productive, fair, and respectful work environment and therefore its ability to acquire, develop, and retain talent.
- Workforce Investment (including career and wealth-building opportunities): The role of business in providing employees with career-building and wealth-building opportunities is becoming increasingly critical, and is associated with increased worker engagement and retention. It may also be associated with an ability to reskill or upskill workers to address labor shortages in some industries, and/or improve employee performance and productivity within others.
- Mental Health & Health-Related Benefits: Several trends highlight the impact of employee mental health on business performance, through factors like productivity. These issues include the increasing prevalence of stress, depression, and anxiety. In addition to mental health, the role of health benefits for workers, including benefits such as paid sick leave, may be associated with factors like job turnover, recruitment and retention, productivity, and lower rates of absenteeism.
- Alternative Workforce (contingent and contract labor): Greater prevalence of alternative workforces has highlighted the potential to more effectively account for this multifaceted issue within SASB standards and consider the potential implications of this issue within our general issue taxonomy. This trend relates to the growing size of this worker classification and the expansion of the use of alternative workforces by a range of businesses.

<sup>&</sup>lt;sup>65</sup> Sustainability Accounting Standards Board. (December 2020) RESEARCH PROJECT Human Capital: Preliminary Framework on Human Capital and the SASB Standards.

# **ABBREVIATIONS**

| CapEx     | _Capital Expenditures   |
|-----------|---|
| CDP       | _(former Carbon Disclosure)   |
| CDSB      | _Climate Disclosure Standards Board                                   |
| EU        | _European Union   |
| EU NFRD   | _EU Non-financial Reporting Directive                                 |
| EU SFDR   | _EU Sustainable Finance Disclosure Regulation                         |
| ESG       | Environmental Social Governance                                       |
| GHG       | _Greenhouse Gas   |
| GRI       | _Global Reporting Initiative  |
| IBC       | International Business Council  |
| IFRS      | International Financial Reporting Standards                           |
| ILO       | International Labor Organization                                      |
| <ir></ir> | Integrated Reporting  |
| IRCC      | International Integrated Reporting Council                            |
| ISO       | International Organization for Standardization                        |
| ISO/TCs   | International Organization for Standardization's Technical Committees |
| LCA       | _Lifecycle Assessment   |
| ODS       | _ozone-depleting substances   |
| OECD      | Economic Co-operation and Development                                 |
| OpEx      | _Operating Expenditures   |
| R&D       | Research and Development  |
| ROI       | _Return on Investment   |
| SASB      | _Sustainability Accounting Standards Board                            |
| SDGs      | _Sustainable Development Goals  |
| TCFD      | Task Force on Climate-related Financial Disclosures                   |
| UN        | _United Nations   |
| VOC       | _Volatile Organic Compound  |
| WEF       | _World Economic Forum   |
| 5ISS      | _Group of five joint effort (CDP, CDSB, GRI, <ir> and SASB)</ir>      |

# APPENDIX A. Reference Documents per ESG System

| SYSTEM   | STATUS/<br>DATE OF<br>PUBLICATION | TOTAL NO. OF<br>DOCUMENTS | DOCUMENT TITLE   |  |
|--|-----------------------------------|---------------------------|--|--|
| EU ESG Regulations   | 2020                              | 1                         | 1. EU Environmental Social Governance (ESG) Regulations guide  |  |
| EU Taxonomy<br>Regulation  | March 2020                        | 2                         | <ol> <li>Taxonomy: Final report of the Technical Expert Group on<br/>Sustainable Finance</li> <li>Taxonomy Report: Technical annex. Updated methodology &amp;<br/>Updated Technical Screening Criteria</li> </ol>  |  |
| EU SFDR<br>Disclosure<br>Regulation                                |                                   | 2?                        | <ol> <li>Joint Consultation Paper on ESG disclosures: Draft technical,<br/>regulatory standards concerning the content, methodologies,<br/>and presentation of disclosures according to Article 2a, 4(6) and<br/>(7), Article 8(3), Article 9(5), Article 10(2) and Article 11(4) of<br/>Regulation (EU) 2019/2088</li> <li>REGULATION (EU) 2019/2088 OF THE EUROPEAN PARLIAMENT<br/>AND OF THE COUNCIL of 27 November 2019 on<br/>sustainability-related disclosures in the financial services sector</li> </ol>  |  |
| EU NFRD<br>Non-Financial<br>Reporting Directive                    |                                   | 4                         | <ol> <li>Communication from the Commission: Guidelines on non-<br/>financial reporting (methodology for reporting non-financial<br/>information), July 5, 2017</li> <li>Communication from the Commission: Guidelines on non-<br/>financial reporting: Supplement on reporting climate-related<br/>information, June 2019</li> <li>Consultation Document: Review of the Non-Financial Reporting<br/>Directive, February 20, 2020</li> <li>Summary Report of the Public Consultation on the Review of the<br/>Non-Financial Reporting Directive, 20 February 2020 - 11 June<br/>2020</li> </ol> |  |
| <b>5ISS</b> (CDP, CDSB,<br>GRI, IR & SASB)                         | September<br>2020                 | 2                         | <ol> <li>Statement of Intent to Work Together Towards Comprehensive<br/>Corporate Reporting</li> <li>Reporting on enterprise value: Illustrated with a prototype<br/>climate-related financial disclosure standard. Progress towards a<br/>comprehensive corporate reporting system, from leading<br/>sustainability and integrated reporting organisations CDP, CDSB,<br/>GRI, IIRC and SASB, December 2020</li> </ol>  |  |
| <b>CDP</b> (Carbon<br>Disclosure Project)<br><b>Questionnaires</b> | January<br>2021                   | 4                         | <ol> <li>Climate Change questionnaire</li> <li>Forests questionnaire</li> <li>Water Security Questionnaire</li> <li>List of CDP-ACS: The full list of classifications for CDP's Activity<br/>Classification System (CDP-ACS)</li> </ol>  |  |

Final Report

| CDSB (Climate<br>Disclosure<br>Standards Board)<br>Framework   | December<br>2019  | 1       | <ol> <li>CDSB Framework for reporting environmental &amp; climate change<br/>information: Advancing and aligning disclosure of environmental<br/>information in mainstream reports</li> </ol>   |
|--|-------------------|---------|---|
| <b>GRI</b> (Global<br>Reporting<br>Initiative)<br><b>Standards</b>                                   | Various<br>dates  | various | GRI Standards 2020<br>Three universal Standards:<br>GRI 101 Foundation<br>- GRI 102 General disclosures<br>- GRI 103 Management Approach<br>34 topic-specific Standards<br>GRI 200 series (Economic topics)<br>GRI 300 series (Environmental issues)<br>GRI 400 series (Social issues)<br>GSSB. (11 June 2020). GRI Universal Standards: GRI 101, GRI<br>102, and GRI 103 – Exposure draft  |
| IIRC's<br>(International<br>Integrated<br>Reporting Council)<br>INTERNATIONAL<br><ir> FRAMEWORK</ir> | January<br>2021   | 1       | INTERNATIONAL <ir> FRAMEWORK JANUARY 2021</ir>  |
| SASB<br>(Sustainability<br>Accounting<br>Standards Board)<br>Standards                               | various<br>dates  | 7       | <ol> <li>SASB Conceptual Framework (Feb 2017)</li> <li>SASB Standards Application Guidance, VERSION 2018-10</li> <li>SASB Materiality Map® (interactive table with Disclosure topics<br/>&amp; Accounting metrics)</li> <li>Industry Guide to the Sustainable Development Goals (June<br/>2020)</li> <li>SASB Human Capital Bulletin (Nov 2020)</li> <li>SASB Implementation Supplement: Greenhouse Gas Emissions<br/>and SASB Standards (Sep 2020)</li> <li>Sustainable Industry Classification System® (SICS®)</li> </ol> |
| WEF IBC ESG<br>Reporting Metrics<br>And Disclosure<br>Standards                                      | September<br>2020 | 1       | 1. Measuring Stakeholder Capitalism Towards Common Metrics and Consistent Reporting of Sustainable Value Creation   |
| ISO TC 322<br>Sustainable Finance  |                   | 2       | <ol> <li>ISO/TC 332 Sustainable Finance: Scope and Supporting<br/>statement, September 2019</li> <li>ISO/TC 322 Strategic Business Plan v1, April 2020</li> </ol>   |
| IFRS Foundation  | September<br>2020 | 1       | 1. Consultation Paper on Sustainability Reporting, September 2020   |

**Final Report** 

| TCFD<br>Recommendations | June 2017 | 6 | <ol> <li>Recommendations of the Task Force on Climate-related Financial<br/>Disclosures(Final Report), June 2017</li> <li>Implementing the Recommendations of the Task Force on<br/>Climate related Financial Disclosures, June 2017</li> </ol> |
|-------------------------|-----------|---|---|
|                         |           |   | 3. TCFD. Guidance on Scenario Analysis for Non-Financial  |
|                         |           |   | <ul> <li>4. TCFD Technical Supplement_ The Use of Scenario Analysis in<br/>Disclosure of Climate - Related Risks and Opportunities, June<br/>2017</li> </ul>  |
|                         |           |   | <ol> <li>5. TCFD_ Forward - Looking Financial Sector Metrics Consultation,<br/>October 2020</li> <li>6. TCFD 2020 Status Report, October 2020</li> </ol>  |

# **APPENDIX B. Timeline of ESG Systems Evolution**

| December 2014     | Directive 2014/95/EU of the European Parliament and of the Council on disclosure of<br>non-financial and diversity information by certain large undertakings and groups ('the<br>Directive') entered into force. The Directive would start applying as of 2018 for<br>concerned companies, on information relating to the 2017 financial year.  | EU NFRD   |
|-------------------|---|---|
| June 2014         | The Corporate Reporting Dialogue is an initiative, convened in June 2014 by the<br>International Integrated Reporting Council, designed to respond to market calls for<br>greater coherence, consistency and comparability between corporate reporting<br>frameworks, standards and related requirements.   | 5ISS [CDP,<br>CDSB, GRI,<br><ir>, SASB] &amp;<br/>ISO, IFRS's<br/>IASB, and<br/>FASB as<br/>Observer</ir> |
| June 2017         | The Task Force for Climate- related Disclosures (TCFD) published its<br>Recommendations on Climate-related disclosures along with an Implementation<br>guide for companies, including example metrics.  | TDFD  |
| July 2017         | EU Commission publishes non-binding Guidelines on non-financial reporting(methodology for reporting non-financial information)  | EU NFRD   |
| September<br>2017 | CDSB and SASB collectively publish 'Converging on Climate Risk: CDSB, the SASB, and<br>the TCFD: The Emerging Alignment of Market-Based Approaches to Climate-Related<br>Financial Disclosure'; to document how the two systems are already well-aligned<br>with the recommendations of the Task Force and also as a statement of agreement<br>by CDSB and the SASB to further this harmonization, working to deliver a TCFD-ready<br>framework to facilitate consistent, quality implementation. | SASB & CDSB   |

| March 2018           | EU Commission issues its Action plan on Financing Sustainable Growth   |  |  |
|----------------------|--|--|--|
| June 2018            | The European Commission set up a Technical Expert Group on Sustainable Finance (TEG) to assist in four key areas of the Action Plan through the development of: 1) a unified classification system for sustainable economic activities (taxonomy), 2) an EU green bond standard, 3) benchmarks for low-carbon investment strategies, and 4) new guidelines on the reporting of climate-related information.  | EU ACTION<br>PLAN                            |  |
| 2018                 | The structure of the CDP climate change questionnaire was redesigned in 2018 in<br>response to market needs and trends in corporate climate change reporting.<br>Revisions included the inclusion of the TCFD recommendations, an increased<br>emphasis on forward-looking metrics, a new requirement around climate scenario<br>analysis, improved alignment with other reporting frameworks, and the integration<br>of sector-specific questions.<br>For climate change, CDP has incorporated sector-specific questions for 16 high-<br>impact sectors.  | CDP  |  |
| 2018                 | ISO forms the ISO/TC 322, a technical committee on Sustainable Finance to establish<br>a framework under which new standards may be developed to define and guide<br>certain sustainable finance activities  | ISO  |  |
| September 26<br>2018 | The Impact Management Project launches a new network, the IMP Structured<br>Network, bringing together leading global organisations in an ambitious initiative to<br>provide coherent and end-to-end 'rules of the road' for impact management. Initial<br>members of the network were:The United Nations Development Programme (UNDP),<br>the International Finance Corporation (IFC), the Organisation for Economic Co-<br>operation and Development (OECD), Social Value International (SVI), The Global<br>Impact Investing Network (GIIN), the Principles for Responsible Investment (PRI), the<br>World Benchmarking Alliance (WBA), the Global Steering Group for Impact<br>Investment (GSG) and the GRI. Gradually CDP, CDSB, SASB and IIRC joined the<br>network. | 5ISS [CDP,<br>CDSB, GRI,<br><ir>, SASB]</ir> |  |
| November 2018        | The SASB Standards are released after extensive research and market consultation.<br>(SASB published Provisional Standards for a set of 79 Industry Standards across 10<br>sectors - published sequentially by sector- between July 2013-March 2016. The<br>provisional Standards were published to seek feedback from stakeholders on the<br>relevance and decision-usefulness of the Standards and the feasibility and cost-<br>effectiveness of their implementation.   | SASB   |  |
| January 2019         | The EU Technical Group on Sustainable Finance (TEG) publishes the Report on<br>Climate-related Disclosures (presenting its recommendations on climate-related<br>reporting integrating the recommendations of the Task Force on Climate-related  | EU NFRD                                      |  |

|                                | Financial Disclosures (TCFD)) and invites feedback on its report by 1 February 2019   |   |
|--------------------------------|---|---|
| 20 February –<br>20 March 2019 | Targeted online Consultation with interested stakeholders on the Update of the Non-<br>Binding Guidelines on Non-Financial Reporting. The consultation document took<br>account of the January 2019 TEG report and of stakeholder feedback on that report.  | EU NFRD   |
| May 2019                       | SASB and CDSB produced the TCFD Implementation Guide showing how both the SASB Standards and CDSB Framework can be used by report preparers to make the 11 recommended disclosures of the TCFD.   | SASB & CDSB   |
| June 2019                      | As part of the Sustainable Finance Action Plan, the Commission publishes<br>Supplemental Guidelines on reporting climate-related information which integrate<br>the recommendations of the TCFD.<br>The guidelines took account of stakeholder feedback on the recommendations of the<br>TEG and of the results of the targeted online consultation carried out in February-<br>March 2019. | EU NFRD   |
| Summer 2019                    | At its summer 2019 meeting in Geneva, the IBC launches a project to develop a proposal for consideration at its winter 2020 meeting for how its members could measure and disclose meaningful and relevant aspects of their performance on environmental, social and governance matters and their contribution to progress on the SDGs on a consistent and comparable basis.                | WEF IBC   |
| September<br>2019              | Supporting statement to ISO/TC 322 scope is released  | ISO TC 322  |
| September<br>2019              | Corporate Reporting Dialogue Driving Alignment in Climate-related Reporting Year<br>One of the Better Alignment Project Report  | 5ISS [CDP,<br>CDSB, GRI,<br><ir>, SASB] &amp;<br/>ISO, IFRS's<br/>IASB, and<br/>FASB as<br/>Observer</ir> |
| December 2019                  | Regulation on sustainability-related disclosures in the financial services sector Level 1 published to be implemented on March 2021   | EU SFDR   |
| December 2019                  | In its Communication on the European Green Deal, the Commission committed to review the NFRD as part of the strategy to strengthen the foundations for sustainable investment.  | EU NFRD   |
| December 2019                  | CDSB Framework for reporting environmental & climate change information:<br>Advancing and aligning disclosure <sup>®</sup> of environmental information in mainstream<br>reports  | CDSB  |

Final Report

| January 2020                      | Consultation Draft Toward Common Metrics and Consistent Reporting of Sustainable Value Creation  | WEF-IBC     |
|-----------------------------------|--|-------------|
| February 20-<br>June 11 2020      | EU Consultation to collect stakeholders' views on the review of NFRD   | EU NFRD     |
| March 2020                        | Taxonomy (PHASE 1): Final report of the Technical Expert Group on Sustainable<br>Finance<br>Technical Screening criteria for Environmental Objectives 1 &2 (climate change<br>mitigation & climate change adaptation)  | EU Taxonomy |
| April 2020                        | the ISO/TC 322 Strategic Business Plan v1 became publicly available in April 2020.<br>The under development work is estimated to be completed in a 4 to 8 years period.  | ISO TC 322  |
| April 2020-<br>August 2020        | Joint Consultation Paper ESG disclosures / for draft Regulatory Technical Standards<br>(RTS) with regard to the content, methodologies and presentation of sustainability-<br>related disclosures. Six of these RTS must be delivered by 30 December 2020 and one<br>must be delivered by 30 December 2021.<br>The purpose of RTS is to provide further detail and guidance to ensure that firms take<br>a similar approach in their sustainability disclosure.  | EU SFDR     |
| June 2020-<br>September 9<br>2020 | <ul> <li>GRI is undergoing a revision of its Universal standards. An exposure draft was made available for public comment. The revision includes: <ul> <li>New disclosures on responsible business conduct, due diligence, human rights and governance;</li> <li>Updated reporting model that replaces the 'Core' and 'Comprehensive' options;</li> <li>Greater clarity and new guidance on the key concepts of reporting – including 'impact', 'material topic' and 'stakeholder'; and</li> <li>Revised reporting principles that increase the focus on high quality and well-presented information.</li> </ul> </li> <li>Release of updated Universal Standards is scheduled for the 2nd half of 2021</li> </ul> | GRI         |
| July 8 - October<br>6 2020        | Global Sustainability Standards Board (GSSB), the independent standard setting body<br>of GRI, has published an exposure draft of the Sector Standard: Oil and Gas for public<br>comment between 8 July and 6 October 2020.<br>This is the first pilot Standard of the GRI Sector Program, and as such, it will help<br>define the structure, format and language of future GRI Sector Standards (Sector<br>Standards) and the approach to their implementation  | GRI         |
| July 13 2020                      | GRI and SASB announce collaboration for Promoting Clarity and Compatibility in the<br>Sustainability Landscape. Initially the collaboration will focus on delivering<br>communication materials (examples based on real-world reports) to help<br>stakeholders better understand how the standards may be used concurrently. These<br>resources are planned to be delivered before the end of 2020. It is expected that this<br>can lead to the identification of further collaboration<br>opportunities.  | GRI & SASB  |
| July 29 2020                      | EU publishes a Summary Report of the Public Consultation on the Review of the Non-<br>Financial Reporting Directive 20 February 2020 - 11 June 2020  | EU NFRD     |

| August 28 2020-<br>November 30<br>2020 | SASB held public comment period on proposed changes(exposure drafts) to the SASB<br>Conceptual Framework & SASB Rules of Procedure  | SASB        |
|--|---|-------------|
| September<br>2020                      | SASB releases a SASB implementation supplement for Greenhouse emissions that<br>provides an overview of SASB's approach to greenhouse gas emissions and related<br>topics in the SASB Standards.<br>Moreover, SASB Climate Risk Bulletin is in process of updating  | SASB        |
| September<br>2020                      | Measuring Stakeholder Capitalism Towards Common Metrics and Consistent<br>Reporting of Sustainable Value Creation   | WEF-IBC     |
| September-<br>December 2020            | IFRS Consultation   | IFRS        |
| September<br>2020                      | 5ISS (or 'group of five') Statement of Intent   | 5ISS        |
| October 2020                           | TCFD publishes Guidance on Scenario Analysis for Non-Financial Companies  | TCFD        |
| October 2020-<br>January 2021          | Consultation to determine whether further TCFD financial sector guidance on forward-looking metrics is needed.  | TCFD        |
| November 25<br>2020                    | IIRC and SASB announce intent to merge into a unified organization, the <b>Value</b><br><b>Reporting Foundation</b> , providing investors and corporates with a comprehensive<br>corporate reporting framework across the full range of enterprise value drivers and<br>standards to drive global sustainability performance.   | SASB & IIRC |
| December 2020                          | SASB's presents a Preliminary Framework on Human Capital and the SASB Standards as part of its research project on Human Capital.   |             |
| December 2020                          | Reporting on enterprise value: Illustrated with a prototype climate-related financial disclosure standard   | 5ISS        |
| 2020                                   | For the 2020 reporting cycle, the CDP questionnaires are aiming to have complete<br>sector alignment with the TCFD (Taskforce for Climate related Financial Disclosure).<br>There will also be a new specific questionnaire within CDP Climate Change for the<br>Financial Services (FS) sector. The addition of the new FS sector questions aims to<br>move the sector from purely operationally focussed emissions reporting, towards<br>reporting indirect financial impacts. The FS questions will be focussed on activities<br>within banking, insurance, asset ownership and asset management.<br>As CDP are still aligning to the TCFD recommendations, no major changes are expected<br>to the other disclosure questionnaires in 2020. | CDP         |
| January 2021                           | IIRC publishes revisions to the International <ir> Framework :INTERNATIONAL <ir> FRAMEWORK JANUARY 2021; the first revisions since the <ir> Framework was originally published in 2013, with purpose to clarify concepts, simplify guidance for report preparers and underpin better quality integrated reports.</ir></ir></ir>   | <ir></ir>   |

| March 22 2021        | IFRS Foundation Trustees announce working group to accelerate convergence in global sustainability reporting standards focused on enterprise value  | IFRS                      |
|----------------------|---|---------------------------|
| February 26,<br>2021 | The European Securities and Markets Authority (ESMA), the EU's securities markets<br>regulator publishes its Final Report on advice under Article 8 of the Taxonomy<br>Regulation, which covers the information to be provided by non-financial<br>undertakings and asset managers to comply with their disclosure obligations under<br>the Non-Financial Reporting Directive (NFRD). | EU NFRD<br>EU<br>TAXONOMY |
| February 2021        | EFRAG publishes a final report on 'Proposals for a relevant and dynamic EU<br>Sustainability Reporting Standard-setting   | EU NFRD                   |
| April 2021           |   | EU NFRD                   |
| Jun 2021             | Specificities of NFRD Taxonomy Related Disclosures  | EU<br>TAXONOMY            |
| December 31<br>2021  | Technical Screening criteria for Environmental Objectives 3,4,5 & 6 (Water, Circular Economy, Pollution & Ecosystems)   | EU<br>TAXONOMY            |

# APPENDIX C. The ESG Systems Matrix

**ESG System General Data** 

|   | SYSTEMS GENERAL DATA                   |                                 |  |                                      |  |  |  |  |  |
|---|--|---------------------------------|--|--------------------------------------|--|--|--|--|--|
|   | NAME OF ESG SYSTEM                     | DEVELOPED BY                    | DEVELOPMENT STATUS   | AMENDMENT OF PRIOR<br>VERSION OR NOT |  |  |  |  |  |
| 0 | AISI                                   | PPIAF                           | Under Review   | NO                                   |  |  |  |  |  |
|   | EU TAXONOMY<br>(PHASE 1)               | EU                              | Phased agenda:<br>from June 2020 to December 2022<br>PHASE 1- Completed (March 2020)<br>PHASE 2 -Pending | YES                                  |  |  |  |  |  |
| 1 | EU DISCLOSURES<br>REGULATION (EU SFDR) | EU                              | Level 1 published on December 2019<br>to be implemented on March 2021<br>Level 2 not finalized (delayed) |                                      |  |  |  |  |  |
|   | EU NFRD                                | EU                              | July 2017 & June 2019<br>(Revision expected)   | YES                                  |  |  |  |  |  |
| 2 | 5ISS joint initiative                  | CDP, CDSB, GRI, IIRC, SASB      | Under development<br>Statement of intent published in<br>September 2020                                  | NO                                   |  |  |  |  |  |
|   | CDP Questionnaires                     | Carbon Disclosure Project (CDP) | January 2021   | YES                                  |  |  |  |  |  |

### **Final Report**

|   | CDSB Framework   | Climate Disclosure Standards<br>Board (CDSB)                            | Published in December 2019   |     |
|---|--|---|--|-----|
|   | GRI Standards  | Global Reporting Initiative (GRI)                                       | Various completion dates:<br>2016,2018,2019,2020   | YES |
|   | INTERNATIONAL <ir><br/>FRAMEWORK</ir>                        | International Integrated<br>Reporting Council (IIRC)                    | Published in January 2021  | YES |
|   | SASB<br>Standards  | Sustainability Accounting<br>Standards Board (SASB)                     |  | YES |
| 3 | WEF-IBC ESG Reporting<br>Metrics and Disclosure<br>Standards | World Economic Forum (WEF)<br>& International Business Council<br>(IBC) | Published in September 2020  | NO  |
| 4 | ISO TC 322   | International Organization for<br>Standardization (ISO)                 | Under Development<br>(4-8 years to completion <sup>66</sup> )  | NO  |
| 5 | IFRS Consultation  | International Financial<br>Reporting Standards (IFRS)<br>Foundation     | Consultation completed (September -<br>December 2020)<br>Consultation results not published  | NO  |
| 6 | TCFD Framework   | Task Force on climate-<br>related financial disclosures<br>(TCFD)       | Framework published in June 2017<br>along with Implementation guide.<br>Consultation held October 2020-<br>January 2021 focused on forward-<br>looking metrics |     |

# **ESG System Structure Data**

|        | SYSTEM STRUCTURE                |   |                                 |                                      |   |                         |  |  |  |
|--------|---------------------------------|---|---------------------------------|--------------------------------------|---|-------------------------|--|--|--|
| SYSTEM | No. of<br>GUIDANCE<br>DOCUMENTS | MAIN STRUCTURE<br>COMPONENTS                      | ECONOMY<br>SECTORS-<br>SPECIFIC | TARGET ECONOMY<br>SECTORS/INDUSTRIES | SUSTAINABILITY TOPICS   | NUMBER OF<br>INDICATORS |  |  |  |
| AISI   | 1                               | Indicators grouped under<br>sustainability topics | NO                              | -                                    | <ol> <li>Option Assessment</li> <li>Sustainability Management</li> <li>System</li> <li>Gender</li> <li>Resilience</li> <li>Stakeholder Engagement</li> <li>Water</li> <li>Energy/GHG</li> <li>Materials Lifecycle approach</li> <li>Air quality</li> <li>Biodiversity</li> <li>Sustainable supply chain</li> <li>Anti-corruption</li> <li>Procurement Procurement</li> <li>Working Conditions</li> <li>Service affordability</li> </ol> | 28                      |  |  |  |

<sup>&</sup>lt;sup>66</sup> Source:ISO/TC 322. (April 2020 ) Strategic Business plan v1 ISO/TC 322 Sustainable Finance

**Final Report** 

| EU<br>TAXONOM<br>Y<br>(PHASE 1) | 2+1<br>spreadsheet | Technical screening<br>criteria for activities'<br>(1) substantial<br>contribution to 6<br>environmental objectives<br>(2) Significant harm to 6<br>environmental objectives<br>(3)'Do not do significant<br>harm' or minimum social<br>safeguards  | YES | Priority Sectors (High-emitting<br>macro sectors + Enabling sectors):<br>1. Forestry<br>2. Agriculture<br>3. Manufacturing<br>4. Electricity, gas, steam and air<br>conditioning supply<br>5. Water, sewerage, waste and<br>remediation<br>6. Transportation and storage<br>7. Information and<br>communications<br>8. Construction and real estate<br>activities | 6 environmental objectives:<br>1. climate change mitigation<br>2. climate change adaptation<br>3. sustainable and protection<br>4. transition to a circular economy<br>5. pollution prevention and control<br>6. protection and restoration of<br>biodiversity and ecosystems  |   |
|---------------------------------|--------------------|---|-----|---|--|---|
| EU SFDR                         | 1                  | Two broad categories of<br>adverse impacts:<br>1. Principal and<br>2. Additional<br>And further breakdown<br>per category into:<br>- Climate and other<br>environmental-related<br>impacts<br>- Social and employee,<br>respect for human rights,<br>anti-corruption and anti-<br>bribery matters | NO  |   | <ol> <li>Principal Adverse Impacts (PAI)</li> <li>1.1 Climate and other environment-<br/>related impacts         <ul> <li>Greenhouse gas emissions</li> <li>Energy performance</li> <li>Biodiversity</li> <li>Water</li> <li>Waste</li> </ul> </li> <li>2. Social and employee, respect for<br/>human rights, anti-corruption and<br/>anti-bribery matters</li> <li>Social and employee matters</li> <li>Human rights</li> <li>Anti-corruption and anti-bribery</li> <li>2. Additional Adverse Impacts</li> <li>2.1 Additional Climate and other<br/>environment-related impacts</li> <li>Emissions</li> <li>Water, waste and material</li> <li>Green securities</li> <li>2.2 Additional Social &amp; employee,<br/>respect for human rights, anti-<br/>corruption &amp; anti-bribery matters</li> <li>Social and employee matters</li> <li>Social and employee matters</li> </ol> | 32 mandatory<br>adverse<br>sustainability<br>indicators<br>+<br>16 voluntary<br>adverse<br>sustainability<br>indicators |
| EU NFRD                         | 2                  | 5 REPORTING AREAS:<br>1. Business model<br>2. Policies and due<br>diligence<br>3. Outcome of policies<br>4. Principal risks and risk<br>management<br>5. Key performance<br>indicators  | NO  |   | Environmental matters<br>1.material disclosures on pollution<br>prevention and control;<br>2.environmental impact from energy<br>use;<br>3.direct & indirect atmospheric<br>emissions<br>4.use and protection of natural<br>resources (e.g. water, land) and<br>related protection of biodiversity<br>5.waste management<br>6.environmental impacts from<br>transportation or from the use and<br>disposal of products and services;<br>7.development of green products<br>and services.<br>Social and employee matters<br>1.the implementation of   | 34 examples of<br>KPIs &<br>12 examples of<br>Climate-related<br>KPIs <sup>67</sup>                                     |

<sup>67</sup> The 34 examples of KPIs as part of the EU Guidelines on non-financial reporting (2017) and the 12 examples as part of the Supplement on reporting Climate-related (2019)

|      |   |   |    | fundamental conventions of the<br>International Labour Organisation;<br>2.diversity issues, such as gender<br>diversity and equal treatment in<br>employment and occupation<br>(including age, gender, sexual<br>orientation, religion, disability, ethnic<br>origin and other relevant aspects<br>3.employment issues, including<br>employee consultation and/or<br>participation, employment and<br>working conditions;<br>4.trade union relationships, including<br>respect of trade union rights;<br>5.human capital management<br>including management of<br>restructuring, career management<br>and employability, remuneration<br>system, training;<br>6.health and safety at work;<br>7.consumer relations, including<br>consumer satisfaction, accessibility,<br>products with possible effects on<br>consumers' health and safety;<br>8.impacts on vulnerable consumers;<br>9.responsible marketing and<br>research;<br>10.community relations, including<br>social and economic development of<br>local communities.<br><b>Respect for human rights</b><br>1.human rights due diligence, and<br>2.processes and arrangements<br>implemented to prevent human<br>rights abuses<br><b>Anti-corruption and bribery matters</b><br>1. management anti-corruption and<br>bribery matters and occurrences<br><b>other</b><br>1. Supply chains<br>2. Conflict minerals<br>(supplement climate-related<br>matters)<br>1. GHG Emissions<br>2. Energy<br>3. Physical risks<br>4. Products and services<br>5. Green Finance |   |
|------|---|---|----|---|---|
| 5155 | ? | 4 PILLARS (of TCFD)<br>1. Governance<br>2. Strategy<br>3. Risk Management<br>4. Metrics & Targets | NO |   | 11<br>Recommended<br>Disclosures<br>+ Mapped<br>disclosures |

#### **Final Report**

### DRAFT, April 30, 2021

| CDP  | 4 | <ul> <li>3 QUESTIONNAIRES:</li> <li>1. Climate Change<br/>questionnaire</li> <li>2. Forests questionnaire</li> <li>3. Water Security<br/>Questionnaire</li> <li>12 modules (for Climate<br/>change:)</li> <li>1. Governance</li> <li>2. Risks and<br/>opportunities</li> <li>3. Business strategy</li> <li>4. Targets and<br/>performance</li> <li>5. Emissions<br/>methodology</li> <li>6. Emissions breakdown</li> <li>8. Energy</li> <li>9. Additional metrics</li> <li>10. Verification</li> <li>11. Carbon pricing</li> <li>12. Engagement</li> </ul> | YES <sup>68</sup>            | Sectors:<br>1. Agriculture<br>2. Energy:(Coal; Electric utilities;<br>Oil & gas)<br>3. Financial: Financial service<br>4. Materials (Cement; Capital<br>goods; Chemicals; Construction;<br>Metals & mining; Real estate;<br>Steel)<br>5. Transport(Transport services;<br>Transport OEMs) | <ol> <li>Board oversight</li> <li>Management responsibility</li> <li>Employee incentives</li> <li>Management processes</li> <li>Risk disclosure</li> <li>Opportunity disclosure</li> <li>Business strategy</li> <li>Emissions targets</li> <li>Other climate-related targets</li> <li>Low-carbon products</li> <li>Base year emissions</li> <li>Emissions methodology</li> <li>Scope 1 emissions data</li> <li>Scope 1 breakdown: country</li> <li>Scope 1 breakdown: country</li> <li>Scope 2 breakdown: country</li> <li>Scope 3 breakdown: country</li> <li>Scope 4 breakdown: country</li> <li>Scope 5 breakdown: country</li> <li>Scope 7 breakdown: country</li> <li>Scope 9 breakdown: country</li></ol> |  |
|------|---|--|------------------------------|---|---|--|
| CDSB | 1 | 12 Reporting<br>Requirements<br>1. Governance<br>2. Management's<br>environmental policies,<br>strategy and targets<br>3. Risks and opportunities<br>4. Sources of<br>environmental impacts<br>5. Performance and<br>comparative analysis<br>6. Outlook<br>7. Organisational<br>boundary<br>8. Reporting policies<br>9. Reporting period<br>10. Restatements<br>11. Conformance<br>12. Assurance   | NO<br>(Industry<br>agnostic) |   |   |  |

<sup>&</sup>lt;sup>68</sup> The questionnaires have Full and Minimum versions) high-impact sector companies have additional sector-specific questions

# Final Report

# DRAFT, April 30, 2021

| GRI       | 37 | 3 Universal standards:<br>- GRI 101 Foundation<br>- GRI 102 General<br>disclosures<br>- GRI 103 Management<br>Approach<br>& 34 Topic- specific<br>standards:<br>- GRI 200 series<br>(Economic topics)<br>- GRI 300 series<br>(Environmental topics)<br>- GRI 400 series (Social<br>topics)   | NO | GRI 103 Management approach<br>GRI 201 Economic performance<br>GRI 202 Market presence<br>GRI 203 Indirect economic impacts<br>GRI 204 Procurement practices<br>GRI 205-Anti-corruption<br>GRI 206 Anti-competitive behavior<br>GRI 207 Tax<br>GRI 301 Materials<br>GRI 302 Energy<br>GRI 303 Water and effluents<br>GRI 304 Biodiversity<br>305 Emissions<br>GRI 306 Waste<br>GRI 307 Environmental compliance<br>GRI 308 Supplier environmental<br>assessment<br>GRI 401 Employment<br>GRI 402 Labor management relations<br>GRI 403 Occupational health and<br>safety<br>GRI 404 Training and education<br>GRI 405 Diversity and equal<br>opportunity<br>GRI 406 Non-discrimination<br>GRI 407 Freedom of- association and<br>collective bargaining<br>GRI 408 Child labor<br>GRI 409 Forced or compulsory labor<br>GRI 411 Rights of indigenous people<br>GRI 411 Rights of indigenous people<br>GRI 414 Supplier social assessment<br>GRI 415 Public policy<br>GRI 416 Customer health and safety<br>GRI 417 Marketing and labelling<br>GRI 418 Customer privacy<br>GRI 419 Socioeconomic compliance | Various per<br>topic                            |
|-----------|----|--|----|---|---|
| <ir></ir> | 1  | An integrated report<br>includes 8 Content<br>Elements, posed in the<br>form of questions:<br>1. Organizational<br>overview and external<br>environment<br>2. Governance<br>3. Business model<br>4. Risks and opportunities<br>5. Strategy and resource<br>allocation<br>6. Performance<br>7. Outlook<br>8. Basis of preparation<br>and presentation |    | No prescribed individual matters for<br>disclosure  | No<br>prescribed<br>specific key<br>performance |

# Final Report

# DRAFT, April 30, 2021

| SASB      | 7 | 5 SUSTAINABILITY<br>DIMENSIONS:<br>1. Environment<br>2. Social capital<br>3. Human capital<br>4. Business model &<br>Innovation<br>5. Leadership and<br>Governance | YES<br>(Industry<br>specific) | <ul> <li>77 Industries in 11 Sectors</li> <li>1. Consumer goods</li> <li>2. Extractives &amp; Minerals</li> <li>Processing</li> <li>3. Financials</li> <li>4. Food &amp; Beverage</li> <li>5. Healthcare</li> <li>6. Infrastructure</li> <li>7. Renewable Resources &amp; Alternative Energy</li> <li>8. Resource Transformation</li> <li>9. Services</li> <li>10. Technology &amp; Communications</li> <li>11. Transportation</li> </ul> | (26 General issue categories)<br>1.GHG Emissions<br>2.Air Quality<br>3.Energy Management<br>4.Water & Wastewater Management<br>5.Waste & Hazardous Materials<br>Management<br>6. Ecological Impacts<br>7.Human Rights & Community<br>Relations<br>8.Customer Privacy<br>9.Data Security<br>10.Access & Affordability<br>11.Product Quality & Safety<br>12.Customer Welfare<br>13. Selling Practices & Product<br>Labelling<br>14. Labor Practices<br>15. Employee Health & Safety<br>16. Employee Engagement, Diversity<br>& Inclusion<br>17.Product Design & Lifecycle<br>Management<br>18. Business Model Resilience<br>19. Supply Chain Management<br>20. Materials Sourcing & Efficiency<br>21. Physical Impacts of Climate<br>Change<br>22. Business Ethics<br>23. Competitive Behavior<br>24. Management of the Legal &<br>Regulatory Environment<br>25. Critical Incident Risk Management<br>26. Systemic Risk Management | Disclosure<br>topics per sector                               |
|-----------|---|--|-------------------------------|---|--|---|
| WEF-IBC   | 1 | <b>4 PILLARS:</b><br>1. Principles of<br>Governance<br>2. Planet<br>3. People<br>4. Prosperity   | NO                            |   | <ul> <li>(18 THEMES)</li> <li>1. Governing purpose</li> <li>2. Quality of governing body</li> <li>3. Stakeholder engagement</li> <li>4. Ethical behaviour</li> <li>5. Risk and opportunity oversight</li> <li>6. Climate change</li> <li>7. Nature loss</li> <li>8. Freshwater availability</li> <li>9. Air pollution</li> <li>10. Water pollution</li> <li>11. Solid waste</li> <li>12. Resource availability</li> <li>13. Dignity and equality</li> <li>14. Health and wellbeing</li> <li>15. Skills for the future</li> <li>16. Employment and wealth generation</li> <li>17. Innovation of better products and services</li> <li>18. Community and social vitality</li> </ul>  | TOTAL: 55<br>(21 core metrics<br>+<br>34 expanded<br>metrics) |
| ISO TC322 | ? |  |                               |   |  |   |
| IFRS      | ? | -  |                               |   | -  | -   |

**Final Report** 

## DRAFT, April 30, 2021

| TCFD | 4 | STRUCTURE OF<br>DISCLOSURES IN THEMES:<br>1. Governance<br>2. Strategy<br>3. Risk Management<br>4. Metrics & Targets | YES | FINANCIAL SECTOR<br>NON FINANCIAL SECTOR<br>1. Energy<br>2. Materials and Buildings;<br>3. Transportation;<br>4. Agriculture, Food, and Forest<br>Products | (Climate-related categories across<br>Non-financial sectors)<br>1.Carbon footprinting<br>2.Exposure to carbon-related assets<br>3.GHG Emissions<br>4. Energy/Fuel<br>5. Water<br>6. Risk Adaptation & Mitigation | 11<br>recommended<br>disclosures<br>Metrics per<br>sector |
|------|---|--|-----|--|--|---|
|      |   |  |     |  | 6. KISK AUAPTATION & MITTIGATION   |   |

# **APPENDIX D. GRI Reporting Requirements for Disclosure**

| GRI Universal-topic Disclosures                                    | Reporting Requirements  |
|--|---|
| REP-5 External assurance   | <ul> <li>a. describe its policy and practice with regard to seeking external assurance, including whether and how the highest governance body and senior executives are involved;</li> <li>b. if the organization's sustainability reporting has been externally assured:</li> <li>i. provide a reference to the external assurance report(s), conclusions, or opinions;</li> <li>ii. describe what has and what has not been assured, the assurance standards used, the level of assurance obtained, and the limitations of the assurance process;</li> <li>iii. describe the relationship between the organization and the assurance provider.</li> </ul>   |
| ACT-1 Activities, value chain, and other<br>business relationships | <ul> <li>a. report its sector;</li> <li>b. describe its value chain, including:</li> <li>i. the organization's main activities, products, services, and markets served;</li> <li>ii. characteristics of the entities upstream from the organization and their activities related to the organization's products and services, i.e., its supply chain;</li> <li>iii. characteristics of the entities downstream from the organization and their activities related to the organization's products and services;</li> <li>c. report other relevant business relationships;</li> <li>d. describe significant changes in ACT-1-a, ACT-1-b and ACT-1-c since the previous reporting period.</li> </ul>   |
| ACT-2 Employees and other workers                                  | <ul> <li>a. report the total number of employees, and provide a breakdown of this total by:</li> <li>i. employment contract (permanent and temporary), by gender;</li> <li>ii. employment contract (permanent and temporary), by region;</li> <li>iii. employment type (full-time and part-time), by gender;</li> <li>iv. employment type (full-time and part-time), by region;</li> <li>b. provide contextual information to understand the data reported under ACT-2-a;</li> <li>c. report the total number of workers who are not employees and whose work is controlled by the organization, including:</li> <li>i. the most common types of worker and their contractual relationship with the organization;</li> <li>ii. the work they perform;</li> <li>d. describe significant fluctuations in the number of employees and workers who are not employees during the reporting period and between reporting periods;</li> <li>describe the assumptions and methodologies used to compile the data, including whether the number of employees are reported:</li> <li>i. in head count, full-time equivalent (FTE), or using another methodology;</li> <li>ii. at the end of the reporting period, as an average across the reporting period, or using another methodology.</li> </ul> |

| GOV-1 Governance structure and composition  | <ul> <li>a. describe its governance structure, including committees of the highest governance body;</li> <li>b. report the committees of the highest governance body responsible for decision- making on and overseeing the management of sustainable development topics;</li> <li>c. describe the composition of the highest governance body and its committees by: <ul> <li>i. executive and non-executive members;</li> <li>ii. independence;</li> <li>iii. tenure of members on the governance body;</li> <li>iv. number of each member's other significant positions and commitments, and the nature of the commitments;</li> <li>v. gender;</li> <li>vi. membership of under-represented social groups;</li> <li>vii. competencies relating to sustainable development topics that are relevant tothe organization and the sector in which it operates;</li> </ul> </li> </ul> |
|---|--|
| GOV-2 Nomination and selection of the highest governance body                                       | <ul> <li>a. describe the nomination and selection processes for the highest governance body and its committees</li> <li>b. describe the criteria used for nominating and selecting highest governance body members, including whether and how: <ol> <li>stakeholders (including shareholders) are involved</li> <li>diversity is considered;</li> <li>independence is considered;</li> <li>expertise and experience relating to sustainable development topics are considered.</li> </ol> </li> </ul>  |
| GOV-3 Responsibilities for sustainable<br>development topics and delegation                         | <ul> <li>a. describe the role and responsibilities of the highest governance body with regard to decision-making for sustainable development topics;</li> <li>b. report whether the organization has appointed any senior executives with responsibility for sustainable development topics;</li> <li>c. describe how management of sustainable development topics is delegated from the highest governance body to senior executives and other employees;</li> <li>d. describe the internal resources that the organization has for managing sustainable development topics;</li> <li>e. describe the process and specify the frequency for reporting to the highest governance body on sustainable development topics.</li> </ul>  |
| GOV-4 Stakeholder consultation on sustainable development topics                                    | <ul> <li>a. describe the processes for consultation between stakeholders and the highest governance<br/>body on sustainable development topics;</li> <li>b. if responsibility for stakeholder consultation is delegated, report to whom it is delegated, and<br/>how the feedback received is provided to the highest governance body.</li> </ul>  |
| Disclosure GOV-6 Conflicts of interest  | <ul> <li>a. describe the processes for the highest governance body to ensure that conflicts of interest are avoided and managed;</li> <li>b. report whether conflicts of interest are disclosed to stakeholders, including, as a minimum, the following conflicts of interest: <ol> <li>Cross-board membership;</li> <li>Cross-shareholding with suppliers and other stakeholders;</li> <li>Existence of controlling shareholder;</li> <li>Related parties, their relationships, transactions, and outstanding balances.</li> </ol> </li> </ul>  |
| Disclosure GOV-7 Role of the highest<br>governance body in setting purpose,<br>values, and strategy | a. describe the role of the highest governance body and of senior executives in the development, approval, and updating of the organization's purpose, value or mission statements, strategies, policies, and goals related to sustainable development topics.   |

| Disclosure GOV-10 Identification and management of impacts | <ul> <li>a. describe the role of the highest governance body in overseeing the organization's processes to identify and manage sustainable development topics and their related impacts, including: <ol> <li>the role of the highest governance body in due diligence processes;</li> <li>the role of any committees of the highest governance body with specific responsibilities for these processes;</li> <li>how the highest governance body considers and reviews the outcomes of these processes;</li> <li>report whether stakeholder consultation is used to support the role of the highest governance body as described in GOV-10-a;</li> <li>specify the frequency of reporting to the highest governance body on the organization's processes as described in GOV-10-a;</li> <li>d. describe the role of the highest governance body in reviewing the effectiveness of the organization's processes as described in GOV-10-a;</li> </ol> </li> </ul> |
|--|---|
| Disclosure GOV-13 Remuneration<br>policies                 | <ul> <li>a. describe the remuneration policies for highest governance body members and senior executives, including:</li> <li>i. fixed pay and variable pay, such as performance-based pay, equity-based pay, bonuses, and deferred and vested shares;</li> <li>ii. sign-on bonuses or recruitment incentive payments;</li> <li>iii. termination payments;</li> <li>iv. clawbacks;</li> <li>v. retirement benefits, such as the difference between benefit schemes and contribution rates for the highest governance body members, senior executives, and all other employees;</li> <li>b. describe how performance criteria in the remuneration policies for highest governance body members and senior executives relate to their objectives for sustainable development topics.</li> </ul>   |
| Disclosure GOV-14 Process for<br>determining remuneration  | <ul> <li>a. describe its process for determining remuneration, including its remuneration policies;</li> <li>b. report whether independent members of the highest governance body or an independent remuneration committee oversee the remuneration process;</li> <li>c. describe how the views of stakeholders (including shareholders) regarding remuneration are sought and taken into account;</li> <li>d. report the results of votes on remuneration policies and proposals, if applicable;</li> <li>e. report whether remuneration consultants are involved in determining remuneration and, if so, report any relationships that the remuneration consultants have with the organization, its highest governance body, or senior executives.</li> </ul>   |
| GOV-15 Annual total compensation ratio                     | <ul> <li>a. report the ratio of the annual total compensation for the organization's highest- paid individual in each country of significant operations to the median annual total compensation for all employees (excluding the highest-paid individual) in the same country;</li> <li>b. report the ratio of the percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for the organization's highest-paid individual in each country of significant operations to the median percentage increase in annual total compensation for all employees (excluding the highest-paid individual) in the same country.</li> </ul>   |
| RBC-1 Statement on sustainable development strategy        | a. provide a statement from the highest governance body or most senior executive of the organization about the relevance of sustainable development to the organization and its strategy for contributing to sustainable development.   |

| RBC-2 Policy commitments   | <ul> <li>a. describe its policy commitments for responsible business conduct, including: <ol> <li>the internationally recognized instruments that the commitments reference;</li> <li>whether the commitments stipulate conducting due diligence;</li> <li>whether the commitments stipulate applying the precautionary principle;</li> <li>whether the commitments stipulate respecting human rights;</li> <li>describe its specific policy commitment to respect human rights, including: <ol> <li>the internationally recognized human rights that the commitment covers;</li> <li>the internationally recognized human rights that the commitment covers;</li> <li>the categories of stakeholders, including at-risk or vulnerable groups, that the organization gives particular attention to in the commitment;</li> <li>provide links to the policy commitments if publicly available, or, if the policy commitments are not publicly available, explain the reason for this;</li> <li>report the level at which each of the policy commitments was approved within the organization, including whether this is the most senior level, and the date of approval;</li> <li>report whether the policy commitments apply solely to the organization's own activities or whether they also stipulate the organization's expectations of those with which it has business</li> </ol> </li> </ol></li></ul> |
|--|--|
|  | relationships and, if so, describe what those expectations are;<br>f. describe how the policy commitments are communicated to workers, business partners, and<br>other relevant parties;<br>g. if the organization does not have any of the policy commitments in RBC-2-a, explain the reason<br>for not having them or describe any plans to develop them.  |
| RBC-3 Embedding the policy<br>commitments throughout the<br>organization | <ul> <li>a. describe how the organization embeds each of its policy commitments for responsible business conduct throughout its activities and business relationships, including: <ol> <li>how the organization allocates responsibility for implementing the commitments across different levels within the organization;</li> <li>how the organization integrates the commitments into organizational strategies and operational policies and procedures;</li> <li>how the organization works with those with which it has business relationships, to implement the commitments;</li> </ol> </li> </ul>  |
| RBC-4 Grievance mechanisms and<br>other remediation processes            | <ul> <li>a. describe its commitments to provides on implementing the commitments.</li> <li>a. describe its commitments to provide for or cooperate in the remediation of negative impacts that the organization identifies it has caused or contributed to;</li> <li>b. describe its approach to identify and address grievances, including: <ol> <li>the grievance mechanisms that the organization has established or participates in;</li> <li>other processes by which the organization provides for or cooperates in the remediation of negative impacts that it identifies it has caused or contributed to;</li> <li>c. describe how the stakeholders who are the intended users of the grievance mechanisms and other remediation processes are involved in the design, review, operation, and improvement of these mechanisms and processes;</li> <li>d. describe how the organization tracks the effectiveness of the grievance mechanisms and other remediation processes and provide examples of their effectiveness, including stakeholder feedback.</li> </ol> </li> </ul>  |
| RBC-5 Mechanisms for seeking advice<br>and raising concerns              | <ul> <li>a. describe the mechanisms for individuals to:</li> <li>i. seek advice on implementing the organization's policies and practices for responsible business conduct;</li> <li>ii. raise concerns about the organization's responsible business conduct.</li> </ul>  |
| RBC-6 Compliance with laws and regulations                               | <ul> <li>a. report instances of non-compliance with laws or regulations for which significant fines or non-monetary sanctions were incurred during the reporting period, including: <ol> <li>total monetary value of the significant fines incurred;</li> <li>total number of significant fines and total number of non-monetary sanctions incurred;</li> <li>the nature of each instance of non-compliance for which a significant fine or non-monetary sanction was incurred;</li> <li>report instances of non-compliance with laws or regulations raised through dispute resolution mechanisms during the reporting period, including the nature of each instance of non-compliance.</li> </ol> </li> </ul>   |

|  | a. describe its approach to engaging with stakeholders, including:                                 |
|--|--|
| SE-1 Approach to stakeholder           | i. the categories of stakeholders it engages with, and how they are identified;                    |
| engagement                             | ii. the purpose of the stakeholder engagement;   |
|  | iii. how the organization seeks to ensure meaningful engagement with stakeholders.                 |
|  | a. report the percentage of total employees covered by collective bargaining agreements;           |
|  | b. for employees not covered by collective bargaining agreements, report whether it determines     |
|  | their working conditions and terms of employment based on its existing collective bargaining       |
|  | agreements that cover other employees or based on collective bargaining agreements from            |
| SE-2 Collective bargaining agreements  | other organizations.   |
|  | a. report how it has identified its material topics, including:                                    |
|  | i. how it has identified actual and potential, negative and positive impacts on the economy,       |
| MT-1 Identification of material topics | environment, and people, including impacts on human rights, across its own activities and          |
| and related impacts                    | business relationships;  |
|  | ii. how it has prioritized impacts for reporting based on their significance;                      |
|  | iii. the stakeholders and experts whose views have informed the identification of material topics; |
|  | b. report changes in the material topics compared to the previous reporting period.                |
|  | a. report the material topics it has identified;   |
|  | b. for each material topic:  |
| MT-2 Material topics and related       | i. describe the actual and potential, negative and/or positive impacts identified on the economy,  |
| impacts                                | environment, and people, including impacts on human rights;  |
|  | ii. report whether the organization is involved with the negative impacts through its own          |
|  | activities or as a result of its business relationships.   |
|  | For each material topic reported under Disclosure MT-2:  |
|  | a.describe its policies or commitments for the topic;  |
|  | b.describe actions taken to manage the topic and related impacts, in particular:                   |
|  | i.actions taken to prevent or mitigate potential negative impacts;                                 |
|  | in actions taken to address actual negative impacts, including actions to provide for or cooperate |
|  | in their remediation,  |
|  | i processes used to track the effectiveness of the actions taken.                                  |
| MT-3 Management of material topics     | ii goals targets and indicators used to evaluate progress:   |
| and related impacts                    | iii evidence of the extent to which the actions taken have been effective including progress       |
|  | toward the goals and targets:  |
|  | iv lessons learned and how these have been incorporated into the organization's operational        |
|  | policies and procedures;   |
|  | d.describe how engagement with stakeholders has informed the actions taken (MT-3-b)and             |
|  | whether the actions taken have been effective (MT-3-c);  |
|  | e.if the organization does not manage a material topic, explain the reason for not managing the    |
|  | topic or describe any plans to manage it.  |
| GRI Topic-specific Disclosures         | Reporting requirements   |
|  | a. Direct economic value generated and distributed (EVG&D) on an accruals basis, including the     |
|  | basic components for the organization's global operations as listed below. If data are presented   |
|  | on a cash basis, report the justification for this decision in addition to reporting the following |
|  | basic components:  |
| 201-1 Direct economic value generated  | i. Direct economic value generated: revenues;  |
| and distributed                        | ii. Economic value distributed: operating costs, employee wages and benefits, payments to          |
|  | providers of capital, payments to government by country, and community investments;                |
|  | iii. Economic value retained: 'direct economic value generated' less 'economic value distributed'. |
|  | b. Where significant, report EVG&D separately at country, regional, or market levels, and the      |
|  | criteria used for defining significance.   |

| 201-2 Financial implications and other<br>risks and opportunities due to climate<br>change | <ul> <li>a. Risks and opportunities posed by climate change that have the potential to generate substantive changes in operations, revenue, or expenditure, including: <ol> <li>a description of the risk or opportunity and its classification as either physical, regulatory, or other;</li> <li>a description of the impact associated with the risk or opportunity;</li> </ol> </li> <li>iii. the financial implications of the risk or opportunity before action is taken; iv. the methods used to manage the risk or opportunity;</li> <li>v. the costs of actions taken to manage the risk or opportunity.</li> </ul>   |
|--|--|
| 202-1 Ratios of standard entry level<br>wage by gender compared to local<br>minimum wage   | <ul> <li>a. When a significant proportion of employees are compensated based on wages subject to minimum wage rules, report the relevant ratio of the entry level wage by gender at significant locations of operation to the minimum wage.</li> <li>b. When a significant proportion of other workers (excluding employees) performing the organization's activities are compensated based on wages subject to minimum wage rules, describe the actions taken to determine whether these workers are paid above the minimum wage.</li> <li>c. Whether a local minimum wage is absent or variable at significant locations of operation, by gender. In circumstances in which different minimums can be used as a reference, report which minimum wage is being used.</li> <li>d. The definition used for 'significant locations of operation'.</li> </ul>   |
| 202-2 Proportion of senior<br>management hired from the local<br>community                 | <ul> <li>a. Percentage of senior management at significant locations of operation that are hired from the local community.</li> <li>b. The definition used for 'senior management'.</li> <li>c. The organization's geographical definition of 'local'.</li> <li>d. The definition used for 'significant locations of operation'.</li> </ul>  |
| 203-1 Infrastructure investments and<br>services supported                                 | <ul> <li>a. Extent of development of significant infrastructure investments and services supported.</li> <li>b. Current or expected impacts on communities and local economies, including positive and negative impacts where relevant.</li> <li>c. Whether these investments and services are commercial, in-kind, or pro bono engagements</li> </ul>   |
| 203-2 Significant indirect economic<br>impacts   | <ul> <li>a. Examples of significant identified indirect economic impacts of the organization, including positive and negative impacts.</li> <li>b. Significance of the indirect economic impacts in the context of external benchmarks and stakeholder priorities, such as national and international standards, protocols, and policy agendas.</li> </ul>   |
| 204-1 Proportion of spending on local suppliers  | <ul> <li>a. Percentage of the procurement budget used for significant locations of operation that is spent<br/>on suppliers local to that operation (such as percentage of products and services purchased<br/>locally).</li> <li>b. The organization's geographical definition of 'local'.</li> <li>c. The definition used for 'significant locations of operation'.</li> </ul>   |
| 205-1 Operations assessed for risks related to corruption                                  | <ul> <li>a. Total number and percentage of operations assessed for risks related to corruption.</li> <li>b. Significant risks related to corruption identified through the risk assessment.</li> </ul>   |
| 205-2 Communication and training<br>about anti-corruption policies and<br>procedures       | <ul> <li>a. Total number and percentage of governance body members that the organization's anti-corruption policies and procedures have been communicated to, broken down by region.</li> <li>b. Total number and percentage of employees that the organization's anti-corruption policies and procedures have been communicated to, broken down by employee category and region.</li> <li>c. Total number and percentage of business partners that the organization's anti-corruption policies and procedures have been communicated to, broken down by employee category and region.</li> <li>c. Total number and percentage of business partners that the organization's anti-corruption policies and procedures have been communicated to, broken down by type of business partner and region. Describe if the organization's anti-corruption policies and procedures have been communicated to any other persons or organizations.</li> <li>d. Total number and percentage of governance body members that have received training on anti-corruption, broken down by region.</li> <li>e. Total number and percentage of employees that have received training on anti-corruption, broken down by region.</li> </ul> |

|  | a. Total number and nature of confirmed incidents of corruption.                                    |
|--|---|
|  | b. Total number of confirmed incidents in which employees were dismissed or disciplined for         |
| 205-2 Confirmed incidents of             | corruption.   |
| 205-5 commed incidents of                | c. Total number of confirmed incidents when contracts with business partners were terminated        |
| corruption and actions taken             | or not renewed due to violations related to corruption.   |
|  | d. Public legal cases regarding corruption brought against the organization or its employees        |
|  | during the reporting period and the outcomes of such cases.   |
| 206-1 Legal actions for anti-competitive | a Number of legal actions pending or completed during the reporting period regarding anti-          |
| behavior anti trust and monoraly         | competitive behavior and violations of anti-trust and monopoly legislation in which the             |
| benavior, anti-trust, and monopoly       | organization has been identified as a participant.  |
| practices                                | b. Main outcomes of completed legal actions, including any decisions or judgments.                  |
|  | a. A description of the approach to stakeholder engagement and management of stakeholder            |
|  | concerns related to tax, including:   |
| 207-3 Stakeholder engagement and         | i. the approach to engagement with tax authorities;   |
| management of concerns related to tax    | ii. the approach to public policy advocacy on tax;  |
|  | iii. the processes for collecting and considering the views and concerns of stakeholders, including |
|  | external stakeholders.  |
|  | Total weight or volume of materials that are used to produce and package the organization's         |
| 301-1 Materials used by weight or        | primary products and services during the reporting period, by:                                      |
| volume                                   | i. non-renewable materials used;  |
|  | ii. renewable materials used.   |
| 301-2 Recycled input materials used      | Percentage of recycled input materials used to manufacture the organization's primary products      |
|  | and services.   |
| 301-3 Reclaimed products and their       | a. Percentage of reclaimed products and their packaging materials for each product category.        |
| packaging materials                      | b. How the data for this disclosure have been collected.  |
|  | a. Total fuel consumption within the organization from non-renewable sources, in joules or          |
|  | multiples, and including fuel types used.   |
|  | b. Total fuel consumption within the organization from renewable sources, in joules or multiples,   |
|  | and including fuel types used.  |
|  | c. In joules, watt-hours or multiples, the total:   |
|  | i. electricity consumption  |
|  | ii. heating consumption   |
| 302-1 Energy consumption within the      | iii. cooling consumption  |
| organization                             | iv. steam consumption   |
|  | d. In joules, watt-hours or multiples, the total:   |
|  | i. electricity sold   |
|  | II. heating sold  |
|  | in cooling sold   |
|  | a. Total energy consumption within the organization, in joules or multiples                         |
|  | f Standards methodologies assumptions and/or calculation tools used                                 |
|  | $\sigma$ Source of the conversion factors used  |
|  | a. Energy consumption outside of the organization, in joules or multiples.                          |
| 302-2 Energy consumption outside of      | b. Standards, methodologies, assumptions, and/or calculation tools used.                            |
| the organization                         | c. Source of the conversion factors used.   |
|  | a. Energy intensity ratio for the organization.   |
|  | b. Organization-specific metric (the denominator) chosen to calculate the ratio.                    |
| 302-3 Energy intensity                   | c. Types of energy included in the intensity ratio; whether fuel, electricity, heating, cooling,    |
|  | steam, or all.  |
|  | d. Whether the ratio uses energy consumption within the organization, outside of it, or both.       |
| 302-4 Reduction of energy consumption    | a. Amount of reductions in energy consumption achieved as a direct result of conservation and       |
|  | efficiency initiatives, in joules or multiples.   |
|  | b. Types of energy included in the reductions; whether fuel, electricity, heating, cooling, steam,  |
|  | or all.   |
|  | c. Basis for calculating reductions in energy consumption, such as base year or baseline, including |
|  | the rationale for choosing it.  |

|   | d. Standards, methodologies, assumptions, and/or calculation tools used.  |
|---|---|
| 302-5 Reduction in energy requirements of products and services | <ul> <li>a. Reductions in energy requirements of sold products and services achieved during the reporting period, in joules or multiples.</li> <li>b. Basis for calculating reductions in energy consumption, such as base year or baseline, including the rationale for choosing it.</li> <li>c. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul>  |
| 303-1 Interactions with water as a shared resource              | <ul> <li>a. A description of how the organization interacts with water, including how and where water is withdrawn, consumed, and discharged, and the water-related impacts caused or contributed to, or directly linked to the organization's activities, products or services by a business relationship (e.g., impacts caused by runoff).</li> <li>b. A description of the approach used to identify water-related impacts, including the scope of assessments, their timeframe, and any tools or methodologies used.</li> <li>c. A description of how water-related impacts are addressed, including how the organization works with stakeholders to steward water as a shared resource, and how it engages with suppliers or customers with significant water-related impacts.</li> <li>d. An explanation of the process for setting any water-related goals and targets that are part of the organization's management approach, and how they relate to public policy and the local context of each area with water stress.</li> </ul>  |
| 303-2 Management of water discharge-<br>related impacts         | <ul> <li>A description of any minimum standards set for the quality of effluent discharge, and how these minimum standards were determined, including: <ol> <li>how standards for facilities operating in locations with no local discharge requirements were determined;</li> <li>any internally developed water quality standards or guidelines;</li> <li>any sector-specific standards considered;</li> <li>weter the profile of the receiving waterbody was considered.</li> </ol> </li> </ul>  |
| 303-3 Water withdrawal  | <ul> <li>a. Total water withdrawal from all areas in megaliters, and a breakdown of this total by the following sources, if applicable: <ol> <li>Surface water;</li> <li>Groundwater;</li> <li>Groundwater;</li> <li>Seawater;</li> <li>Produced water;</li> <li>Third-party water.</li> </ol> </li> <li>b. Total water withdrawal from all areas with water stress in megaliters, and a breakdown of this total by the following sources, if applicable: <ol> <li>Surface water;</li> <li>Seawater;</li> <li>Surface water;</li> <li>Surface water;</li> <li>Surface water;</li> <li>Surface water;</li> <li>Surface water;</li> <li>Surface water;</li> <li>Seawater;</li> <li>Surface water;</li> <li>Surface water;</li></ol></li></ul> |
| 303-4Water discharge                   | a. Total water discharge to all areas in megaliters, and a breakdown of this total by the following types of destination, if applicable:<br>. Surface water;<br>i. Groundwater;<br>iii. Seawater;<br>iv. Third-party water, and the volume of this total sent for use to other organizations, if applicable.<br>b. A breakdown of total water discharge to all areas in megaliters by the following categories:<br>i. Freshwater (≤1,000 mg/L Total Dissolved Solids);<br>ii. Other water (>1,000 mg/L Total Dissolved Solids).<br>c. Total water discharge to all areas with water stress in megaliters, and a breakdown of this total by the following categories:<br>i. Freshwater (≤1,000 mg/L Total Dissolved Solids).<br>c. Total water discharge to all areas with water stress in megaliters, and a breakdown of this total by the following categories:<br>i. Freshwater (≤1,000 mg/L Total Dissolved Solids);<br>ii. Other water (>1,000 mg/L Total Dissolved Solids).<br>d. Priority substances of concern for which discharges are treated, including:<br>i. how priority substances of concern were defined, and any international standard, authoritative list, or criteria used;<br>ii. the approach for setting discharge limits for priority substances of concern: |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  | e Any contextual information necessary to understand how the data have been compiled such  |  |  |  |  |  |
|  | as any standards, methodologies, and assumptions used.   |  |  |  |  |  |
|  | a. Total water consumption from all areas in megaliters.   |  |  |  |  |  |
|  | b. Total water consumption from all areas with water stress in megaliters.   |  |  |  |  |  |
|  | c. Change in water storage in megaliters, if water storage has been identified as having a   |  |  |  |  |  |
|  | significant  |  |  |  |  |  |
| 303-5Water consumption                 | water-related impact.  |  |  |  |  |  |
|  | d. Any contextual information necessary to understand how the data have been compiled, such  |  |  |  |  |  |
|  | as any standards, methodologies, and assumptions used, including whether the information is  |  |  |  |  |  |
|  | for this, such as the use of any sector-specific factors.  |  |  |  |  |  |
|  | a. For each operational site owned, leased, managed in, or adjacent to, protected areas and  |  |  |  |  |  |
|  | areas of high biodiversity value outside protected areas, the following information:   |  |  |  |  |  |
|  | i. Geographic location;  |  |  |  |  |  |
|  | ii. Subsurface and underground land that may be owned, leased, or managed by the   |  |  |  |  |  |
| 304-1 Operational sites owned, leased, | liji Position in relation to the protected area (in the area, adjacent to, or containing portions of   |  |  |  |  |  |
| managed in, or adjacent to, protected  | the protected area) or the high biodiversity value area outside protected areas;   |  |  |  |  |  |
| areas and areas of high biodiversity   | iv. Type of operation (office, manufacturing or production, or extractive);  |  |  |  |  |  |
| value outside protected areas          | v. Size of operational site in km2 (or another unit, if appropriate);  |  |  |  |  |  |
|  | vi. Biodiversity value characterized by the attribute of the protected area or area of high  |  |  |  |  |  |
|  | biodiversity value outside the protected area (terrestrial, freshwater, or maritime ecosystem);  |  |  |  |  |  |
|  | Management Categories, Ramsar Convention, national legislation)  |  |  |  |  |  |
|  |  |  |  |  |  |  |

| 304-2 Significant impacts of activities,<br>products, and services on biodiversity  | <ul> <li>a. Nature of significant direct and indirect impacts on biodiversity with reference to one or more of the following: <ol> <li>Construction or use of manufacturing plants, mines, and transport infrastructure;</li> <li>Pollution (introduction of substances that do not naturally occur in the habitat from point and non-point sources);</li> <li>Introduction of invasive species, pests, and pathogens;</li> <li>Reduction of species;</li> <li>Habitat conversion;</li> <li>Changes in ecological processes outside the natural range of variation (such as salinity or changes in groundwater level).</li> <li>Significant direct and indirect positive and negative impacts with reference to the following:</li> <li>Species affected;</li> <li>Extent of areas impacted;</li> <li>Duration of impacts;</li> <li>Reversibility or irreversibility of the impacts.</li> </ol> </li> </ul>           |
|---|---|
| 304-3 Habitats protected or restored  | <ul> <li>a. Size and location of all habitat areas protected or restored, and whether the success of the restoration measure was or is approved by independent external professionals.</li> <li>b. Whether partnerships exist with third parties to protect or restore habitat areas distinct from where the organization has overseen and implemented restoration or protection measures.</li> <li>c. Status of each area based on its condition at the close of the reporting period.</li> <li>d. Standards, methodologies, and assumptions used.</li> </ul>  |
| 304-4 IUCN Red List species and<br>national conservation list species with<br>habitats in areas affected by<br>operations | <ul> <li>a. Total number of IUCN Red List species and national conservation list species with habitats in areas affected by the operations of the organization, by level of extinction risk:</li> <li>i. Critically endangered</li> <li>ii. Endangered</li> <li>iii. Vulnerable</li> <li>iv. Near threatened</li> <li>v. Least concern</li> </ul>   |
| 305-1 Direct (Scope 1) GHG emissions  | <ul> <li>a. Gross direct (Scope 1) GHG emissions in metric tons of CO2 equivalent.</li> <li>b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> <li>c. Biogenic CO2 emissions in metric tons of CO2 equivalent.</li> <li>d. Base year for the calculation, if applicable, including: <ul> <li>i. the rationale for choosing it;</li> <li>ii. emissions in the base year;</li> <li>iii. the context for any significant changes in emissions that triggered recalculations of base year emissions.</li> <li>e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source.</li> <li>f. Consolidation approach for emissions; whether equity share, financial control, or operational control.</li> <li>g. Standards, methodologies, assumptions, and/or calculation tools used.</li> </ul> </li> </ul>             |
| 305-2 Energy indirect (Scope 2) GHG<br>emissions  | <ul> <li>a. Gross location-based energy indirect (Scope 2) GHG emissions in metric tons of CO2 equivalent.</li> <li>b. If applicable, gross market-based energy indirect (Scope 2) GHG emissions in metric tons of CO2 equivalent.</li> <li>c. If available, the gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.</li> <li>d. Base year for the calculation, if applicable, including: <ul> <li>i. the rationale for choosing it;</li> <li>ii. emissions in the base year;</li> <li>iiii. the context for any significant changes in emissions that triggered recalculations of base year emissions.</li> <li>e. Source of the emission factors and the global warming potential (GWP) rates used, or a reference to the GWP source.</li> <li>f. Consolidation approach for emissions; whether equity share, financial control, or operational control.</li> </ul> </li> </ul> |

|   | g. Standards, methodologies, assumptions, and/or calculation tools used.                             |
|---|--|
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   |  |
|   | a Grass other indirect (Scope 2) GHG emissions in metric tens of CO2 equivalent                      |
|   | b. If available, the gases included in the calculation: whether CO2, CH4, N2O, HECs, SE6             |
|   | NF3. or all.   |
|   | c. Biogenic CO2 emissions in metric tons of CO2 equivalent.  |
|   | d. Other indirect (Scope 3) GHG emissions categories and activities included in the calculation.     |
| 305-3 Other indirect (Scone 3) GHG      | e. Base year for the calculation, if applicable, including:  |
| amissions                               | i. the rationale for choosing it;  |
|   | ii. emissions in the base year;  |
|   | iii. the context for any significant changes in emissions that triggered recalculations of base year |
|   | emissions.   |
|   | r. Source of the emission factors and the global warming potential (GWP) rates used, or a            |
|   | g Standards methodologies assumptions and/or calculation tools used                                  |
|   | a. GHG emissions intensity ratio for the organization.   |
|   | b. Organization-specific metric (the denominator) chosen to calculate the ratio.                     |
| 305-4 GHG emissions intensity           | c. Types of GHG emissions included in the intensity ratio; whether direct (Scope 1), energy          |
|   | indirect (Scope 2), and/or other indirect (Scope 3).   |
|   | d. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.           |
|   | a. GHG emissions reduced as a direct result of reduction initiatives, in metric tons of CO2          |
|   | equivalent.  |
|   | b. Gases included in the calculation; whether CO2, CH4, N2O, HFCs, PFCs, SF6, NF3, or all.           |
| 305-5 Reduction of GHG emissions        | c. Base year or baseline, including the rationale for choosing it.                                   |
|   | d. Scopes in which reductions took place; whether direct (Scope 1), energy indirect (Scope 2),       |
|   | and/or other indirect (Scope 3).   |
|   | e. Standards, methodologies, assumptions, and/or calculation tools used.                             |
|   | equivalent   |
| 305-6 Emissions of ozone-depleting      | b. Substances included in the calculation.   |
| substances (ODS)                        | c. Source of the emission factors used.  |
|   | d. Standards, methodologies, assumptions, and/or calculation tools used.                             |
|   | a. Significant air emissions, in kilograms or multiples, for each of the following:                  |
|   | i. NOX   |
|   | II. SUX  |
| 305-7 Nitrogen oxides (NOX), sulfur     | iii. Persistent organic pollutants (POP)   |
| oxides (SOX), and other significant air | v. Hazardous air pollutants (HAP)  |
| emissions                               | vi. Particulate matter (PM)  |
|   | vii. Other standard categories of air emissions identified in relevant regulations                   |
|   | b. Source of the emission factors used.  |
|   | c. Standards, methodologies, assumptions, and/or calculation tools used.                             |
| 306-1 Waste generation and significant  | a. For the organization's significant actual and potential waste-related impacts, a description of:  |

| waste-related impacts              | i. the inputs, activities, and outputs that lead or could lead to these impacts;                    |  |  |  |  |  |
|------------------------------------|---|--|--|--|--|--|
|                                    | ii. whether these impacts relate to waste generated in the organization's own activities or to      |  |  |  |  |  |
|                                    | waste generated upstream or downstream in its value chain.  |  |  |  |  |  |
|                                    | a. Actions, including circularity measures, taken to prevent waste generation in the organization's |  |  |  |  |  |
|                                    | own activities and upstream and downstream in its value chain, and to manage significant            |  |  |  |  |  |
| 206 2 Management of significant    | impacts from waste generated.   |  |  |  |  |  |
| 306-2 Management of Significant    | b. If the waste generated by the organization in its own activities is managed by a third party, a  |  |  |  |  |  |
| waste-related impacts              | description of the processes used to determine whether the third party manages the waste in         |  |  |  |  |  |
|                                    | line with contractual or legislative obligations.   |  |  |  |  |  |
|                                    | c. The processes used to collect and monitor waste-related data.                                    |  |  |  |  |  |
|                                    | a. Total weight of waste generated in metric tons, and a breakdown of this total by composition     |  |  |  |  |  |
| 306-3 Waste generated              | of the waste.   |  |  |  |  |  |
| J J                                | b. Contextual information necessary to understand the data and how the data has been compiled       |  |  |  |  |  |
|                                    | a Total weight of waste diverted from disposal in metric tons, and a breakdown of this total by     |  |  |  |  |  |
|                                    | composition of the waste  |  |  |  |  |  |
|                                    | b Total weight of hazardous waste diverted from disposal in metric tons, and a breakdown of         |  |  |  |  |  |
|                                    | this total by the following recovery operations:  |  |  |  |  |  |
|                                    | instation for rouce:  |  |  |  |  |  |
|                                    | i. Proveling:   |  |  |  |  |  |
|                                    | ii. Accycling,  |  |  |  |  |  |
|                                    | III. Other recovery operations.   |  |  |  |  |  |
|                                    | c. Total weight of hon-mazardous waste diverted from disposal in metric tons, and a breakdown       |  |  |  |  |  |
| 20C (1)Maste diverted from dispess | of this total by the following recovery operations:   |  |  |  |  |  |
| 306-4 waste diverted from disposal | i. Preparation for reuse;   |  |  |  |  |  |
|                                    | II. Recycling;  |  |  |  |  |  |
|                                    | III. Other recovery operations.   |  |  |  |  |  |
|                                    | d. For each recovery operation listed in Disclosures 306-4-b and 306-4-c, a breakdown of the        |  |  |  |  |  |
|                                    | total weight in metric tons of hazardous waste and of non-hazardous waste diverted from             |  |  |  |  |  |
|                                    | disposal:   |  |  |  |  |  |
|                                    | i. onsite;  |  |  |  |  |  |
|                                    | ii. offsite.  |  |  |  |  |  |
|                                    | e. Contextual information necessary to understand the data and how the data has been                |  |  |  |  |  |
|                                    | compiled.   |  |  |  |  |  |
|                                    | a. Total weight of waste directed to disposal in metric tons, and a breakdown of this total by      |  |  |  |  |  |
|                                    | composition of the waste.   |  |  |  |  |  |
|                                    | b. Total weight of hazardous waste directed to disposal in metric tons, and a breakdown of this     |  |  |  |  |  |
|                                    | total by the following disposal operations:   |  |  |  |  |  |
|                                    | i. Incineration (with energy recovery);   |  |  |  |  |  |
|                                    | ii. Incineration (without energy recovery);   |  |  |  |  |  |
|                                    | iii. Landfilling;   |  |  |  |  |  |
|                                    | iv. Other disposal operations.  |  |  |  |  |  |
|                                    | c. Total weight of non-hazardous waste directed to disposal in metric tons, and a breakdown of      |  |  |  |  |  |
| 306-5 Waste directed to disposal   | this total by the following disposal operations:  |  |  |  |  |  |
|                                    | i. Incineration (with energy recovery);   |  |  |  |  |  |
|                                    | ii. Incineration (without energy recovery);   |  |  |  |  |  |
|                                    | iii. Landfilling;   |  |  |  |  |  |
|                                    | iv. Other disposal operations.  |  |  |  |  |  |
|                                    | d. For each disposal operation listed in Disclosures 306-5-b and 306-5-c, a breakdown of the total  |  |  |  |  |  |
|                                    | weight in metric tons of hazardous waste and of non-hazardous waste directed to disposal:           |  |  |  |  |  |
|                                    | i. onsite;  |  |  |  |  |  |
|                                    | ii. offsite.  |  |  |  |  |  |
|                                    | e. Contextual information necessary to understand the data and how the data has been                |  |  |  |  |  |
|                                    | compiled.   |  |  |  |  |  |
|                                    | a. Significant fines and non-monetary sanctions for non-compliance with environmental laws          |  |  |  |  |  |
| 307-1 Non-compliance with          | and/or regulations in terms of:   |  |  |  |  |  |
| environmental laws and regulations | i. total monetary value of significant fines;   |  |  |  |  |  |
|                                    | ii. total number of non-monetary sanctions;   |  |  |  |  |  |

|                                       | iii. cacas brought through dispute resolution mechanisms   |  |  |  |  |  |  |
|---------------------------------------|--|--|--|--|--|--|--|
|                                       | In cases brought through dispute resolution mechanisms.  |  |  |  |  |  |  |
|                                       | In the organization has not identified any non-compliance with environmental laws and/or   |  |  |  |  |  |  |
| 200 1 Now compliant that ware         |  |  |  |  |  |  |  |
| 308-1 New suppliers that were         |  |  |  |  |  |  |  |
| screened using environmental criteria | a. Percentage of new suppliers that were screened using environmental criteria.  |  |  |  |  |  |  |
|                                       | a. Number of suppliers assessed for environmental impacts.   |  |  |  |  |  |  |
|                                       | b. Number of suppliers identified as having significant actual and potential negative  |  |  |  |  |  |  |
|                                       | environmental impacts.   |  |  |  |  |  |  |
| 308-2 Negative environmental impacts  | c. Significant actual and potential negative environmental impacts identified in the supply chain.   |  |  |  |  |  |  |
| in the supply chain and actions taken | d. Percentage of suppliers identified as having significant actual and potential negative  |  |  |  |  |  |  |
|                                       | environmental impacts with which improvements were agreed upon as a result of assessment.  |  |  |  |  |  |  |
|                                       | e. Percentage of suppliers identified as having significant actual and potential negative  |  |  |  |  |  |  |
|                                       | environmental impacts with which relationships were terminated as a result of assessment, and  |  |  |  |  |  |  |
|                                       | why.   |  |  |  |  |  |  |
|                                       | a. Total number and rate of new employee hires during the reporting period, by age group,  |  |  |  |  |  |  |
| 401-1 New employee hires and          | gender and region.   |  |  |  |  |  |  |
| employee turnover                     | b. Total number and rate of employee turnover during the reporting period, by age group,   |  |  |  |  |  |  |
|                                       | gender and region.   |  |  |  |  |  |  |
|                                       | a. Benefits which are standard for full-time employees of the organization but are not provided  |  |  |  |  |  |  |
|                                       | to temporary or part-time employees, by significant locations of operation. These include, as a  |  |  |  |  |  |  |
|                                       | minimum:   |  |  |  |  |  |  |
| 101.2 Depetite provided to full time  | i. life insurance;   |  |  |  |  |  |  |
| 401-2 Benefits provided to full-time  | ii. health care;   |  |  |  |  |  |  |
| employees that are not provided to    | II. disability and invalidity coverage;  |  |  |  |  |  |  |
| temporary or part-time employees      | iv. parental leave;  |  |  |  |  |  |  |
|                                       | v. retirement provision;   |  |  |  |  |  |  |
|                                       | vi. stock ownersnip;   |  |  |  |  |  |  |
|                                       | vii. otners.   |  |  |  |  |  |  |
|                                       | D. The definition used for significant locations of operation .  |  |  |  |  |  |  |
|                                       | A. Total number of employees that were entitled to parental leave, by gender.  |  |  |  |  |  |  |
|                                       | b. Total number of employees that took parental leave, by gender.  |  |  |  |  |  |  |
| 401 2 Darontal Japua                  | c. Total number of employees that returned to work in the reporting period after parental leave  |  |  |  |  |  |  |
| 401-5 Parentai leave                  | d. Total number of employees that returned to work after parental loave ended that were still  |  |  |  |  |  |  |
|                                       | a. Total number of employees that returned to work after parental leave ended that were still<br>comployed 12 months after their return to work, by gondor |  |  |  |  |  |  |
|                                       | e Return to work and retention rates of employees that took parental leave, by gender  |  |  |  |  |  |  |
|                                       | a. Minimum number of weeks' notice tynically provided to employees and their representatives   |  |  |  |  |  |  |
|                                       | a. Winnitian number of weeks focice typically provided to employees and their representatives  |  |  |  |  |  |  |
| Minimum notice periods regarding      | them   |  |  |  |  |  |  |
| operational changes                   | b. For organizations with collective bargaining agreements, report whether the notice period and   |  |  |  |  |  |  |
|                                       | provisions for consultation and negotiation are specified in collective agreements.  |  |  |  |  |  |  |
|                                       |  |  |  |  |  |  |  |
|                                       | a. A statement of whether an occupational health and safety management system has been   |  |  |  |  |  |  |
|                                       | implemented, including whether:  |  |  |  |  |  |  |
|                                       | i. the system has been implemented because of legal requirements and, if so, a list of the   |  |  |  |  |  |  |
| 403-1 Occupational health and safety  | requirements;  |  |  |  |  |  |  |
| management system                     | ii. the system has been implemented based on recognized risk management and/or management  |  |  |  |  |  |  |
|                                       | system standards/guidelines and, if so, a list of the standards/guidelines.  |  |  |  |  |  |  |
|                                       | b. A description of the scope of workers, activities, and workplaces covered by the occupational   |  |  |  |  |  |  |
|                                       | health and safety management system, and an explanation of whether and, if so, why any   |  |  |  |  |  |  |
|                                       | workers, activities, or workplaces are not covered.  |  |  |  |  |  |  |

| 403-2 Hazard identification, risk<br>assessment, and incident investigation  | <ul> <li>a. A description of the processes used to identify work-related hazards and assess risks on a routine and non-routine basis, and to apply the hierarchy of controls in order to eliminate hazards and minimize risks, including: <ol> <li>how the organization ensures the quality of these processes, including the competency of persons who carry them out;</li> <li>how the results of these processes are used to evaluate and continually improve the occupational health and safety management system.</li> <li>A description of the processes for workers to report work-related hazards and hazardous situations, and an explanation of how workers are protected against reprisals.</li> <li>A description of the policies and processes for workers to remove themselves from work situations that they believe could cause injury or ill health, and an explanation of how workers are protected against reprisals.</li> <li>A description of the processes used to investigate work-related incidents, including the processes to identify hazards and assess risks relating to the incidents, to determine corrective actions using the hierarchy of controls, and to determine improvements needed in the occupational health and safety management system.</li> </ol> </li> </ul>  |
|--|---|
| 403-3 Occupational health services   | a. A description of the occupational health services' functions that contribute to the identification and elimination of hazards and minimization of risks, and an explanation of how the organization ensures the quality of these services and facilitates workers' access to them.   |
| 403-4 Worker participation,<br>consultation, and communication on<br>occupational health and safety                          | <ul> <li>a. A description of the processes for worker participation and consultation in the development, implementation, and evaluation of the occupational health and safety management system, and for providing access to and communicating relevant information on occupational health and safety to workers.</li> <li>b. Where formal joint management–worker health and safety committees exist, a description of their responsibilities, meeting frequency, decision-making authority, and whether and, if so, why any workers are not represented by these committees.</li> </ul>   |
| 403-5 Worker training on occupational<br>health and safety   | a. A description of any occupational health and safety training provided to workers, including generic training as well as training on specific work-related hazards, hazardous activities, or hazardous situations.  |
| 403-6 Promotion of worker health   | <ul> <li>a. An explanation of how the organization facilitates workers' access to non-occupational medical and healthcare services, and the scope of access provided.</li> <li>b. A description of any voluntary health promotion services and programs offered to workers to address major non-work-related health risks, including the specific health risks addressed, and how the organization facilitates workers' access to these services and programs.</li> </ul>   |
| 403-7 Prevention and mitigation of<br>occupational health and safety impacts<br>directly linked by business<br>relationships | a. A description of the organization's approach to preventing or mitigating significant negative occupational health and safety impacts that are directly linked to its operations, products or services by its business relationships, and the related hazards and risks.  |
| 403-8 Workers covered by an<br>occupational health and safety<br>management system   | <ul> <li>a. If the organization has implemented an occupational health and safety management system based on legal requirements and/or recognized standards/guidelines: <ul> <li>i. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system;</li> <li>ii. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system;</li> <li>iii. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been internally audited;</li> <li>iii. the number and percentage of all employees and workers who are not employees but whose work and/or workplace is controlled by the organization, who are covered by such a system that has been audited or certified by an external party.</li> <li>b. Whether and, if so, why any workers have been excluded from this disclosure, including the types of worker excluded.</li> <li>c. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.</li> </ul> </li> </ul> |

| 403-9 Work-related injuries  | <ul> <li>a. For all employees:</li> <li>i. The number and rate of fatalities as a result of work-related injury;</li> <li>ii. The number and rate of high-consequence work-related injuries (excluding fatalities);</li> <li>iii. The number and rate of recordable work-related injuries;</li> <li>iv. The main types of work-related injury;</li> <li>v. The number of hours worked.</li> <li>b. For all workers who are not employees but whose work and/or workplace is controlled by th organization:</li> <li>i. The number and rate of fatalities as a result of work-related injury;</li> <li>iii. The number and rate of fatalities as a result of work-related injury;</li> <li>iii. The number and rate of fatalities as a result of work-related injury;</li> <li>iii. The number and rate of high-consequence work-related injuries (excluding fatalities);</li> <li>iii. The number and rate of recordable work-related injuries (excluding fatalities);</li> <li>iii. The number and rate of recordable work-related injuries;</li> <li>iv. The main types of work-related injury;</li> <li>v. The main types of work-related injury;</li> <li>v. The main types of work-related injury;</li> <li>v. The number of hours worked.</li> <li>c. The work-related hazards that pose a risk of high-consequence injury, including:</li> <li>i. how these hazards have been determined;</li> <li>ii. which of these hazards have caused or contributed to high-consequence injuries during the reporting period;</li> <li>iii. actions taken or underway to eliminate these hazards and minimize risks using the hierarchy</li> </ul> |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  | of controls.<br>d. Any actions taken or underway to eliminate other work-related hazards and minimize risks<br>using the hierarchy of controls.<br>e. Whether the rates have been calculated based on 200,000 or 1,000,000 hours worked.<br>f. Whether and, if so, why any workers have been excluded from this disclosure, including the<br>types of worker excluded.<br>g. Any contextual information necessary to understand how the data have been compiled, such<br>as any standards, methodologies, and assumptions used.  |  |  |  |  |  |  |
| 403-10 Work-related ill health   | <ul> <li>a. For all employees:</li> <li>i. The number of fatalities as a result of work-related ill health;</li> <li>ii. The number of cases of recordable work-related ill health;</li> <li>iii. The main types of work-related ill health.</li> <li>b. For all workers who are not employees but whose work and/or workplace is controlled by the organization:</li> <li>i. The number of fatalities as a result of work-related ill health;</li> <li>iii. The number of fatalities as a result of work-related ill health;</li> <li>iii. The number of fatalities as a result of work-related ill health;</li> <li>iii. The number of fatalities as a result of work-related ill health;</li> <li>iii. The number of cases of recordable work-related ill health;</li> <li>iii. The main types of work-related ill health.</li> <li>c. The work-related hazards that pose a risk of ill health, including:</li> <li>i. how these hazards have been determined;</li> <li>ii. which of these hazards have caused or contributed to cases of ill health during the reporting period;</li> <li>iii. actions taken or underway to eliminate these hazards and minimize risks using the hierarchy of controls.</li> <li>d. Whether and, if so, why any workers have been excluded from this disclosure, including the types of worker excluded.</li> <li>e. Any contextual information necessary to understand how the data have been compiled, such as any standards, methodologies, and assumptions used.</li> </ul>  |  |  |  |  |  |  |
| 404-1 Average hours of training per<br>year per employee   | <ul> <li>a. Average hours of training that the organization's employees have undertaken during the reporting period, by:</li> <li>i. gender;</li> <li>ii. employee category.</li> </ul>  |  |  |  |  |  |  |
| 404-2 Programs for upgrading<br>employee skills and transition<br>assistance programs            | <ul> <li>a. Type and scope of programs implemented and assistance provided to upgrade employee skills.</li> <li>b. Transition assistance programs provided to facilitate continued employability and the<br/>management of career endings resulting from retirement or termination of employment.</li> </ul>   |  |  |  |  |  |  |
| 404-3 Percentage of employees<br>receiving regular performance and<br>career development reviews | a. Percentage of total employees by gender and by employee category who received a regular performance and career development review during the reporting period.  |  |  |  |  |  |  |

| 405-1 Diversity of governance bodies<br>and employees   | <ul> <li>a. Percentage of individuals within the organization's governance bodies in each of the following diversity categories:</li> <li>i. Gender;</li> <li>ii. Age group: under 30 years old, 30-50 years old, over 50 years old;</li> <li>iii. Other indicators of diversity where relevant (such as minority or vulnerable groups).</li> <li>b. Percentage of employees per employee category in each of the following diversity categories:</li> <li>i. Gender;</li> <li>ii. Age group: under 30 years old, 30-50 years old, over 50 years old;</li> <li>b. Percentage of employees per employee category in each of the following diversity categories:</li> <li>i. Gender;</li> <li>ii. Age group: under 30 years old, 30-50 years old, over 50 years old;</li> <li>iii. Other indicators of diversity where relevant (such as minority or vulnerable groups).</li> </ul> |
|---|---|
| 405-2 Ratio of basic salary and remuneration of women to men  | <ul><li>a. Ratio of the basic salary and remuneration of women to men for each employee category, by significant locations of operation.</li><li>b. The definition used for 'significant locations of operation'.</li></ul>   |
| 406-1 Incidents of discrimination and corrective actions taken  | <ul> <li>a. Total number of incidents of discrimination during the reporting period.</li> <li>b. Status of the incidents and actions taken with reference to the following: <ol> <li>Incident reviewed by the organization;</li> <li>Remediation plans being implemented;</li> <li>Remediation plans that have been implemented, with results reviewed through routine internal management review processes;</li> <li>Incident no longer subject to action.</li> </ol> </li> </ul>  |
| 407-1 Operations and suppliers in<br>which the right to freedom of<br>association and collective bargaining<br>may be at risk | <ul> <li>a. Operations and suppliers in which workers' rights to exercise freedom of association or collective bargaining may be violated or at significant risk either in terms of: <ol> <li>type of operation (such as manufacturing plant) and supplier;</li> <li>countries or geographic areas with operations and suppliers considered at risk.</li> <li>Measures taken by the organization in the reporting period intended to support rights to exercise freedom of association and collective bargaining</li> </ol> </li> </ul>   |
| 408-1 Operations and suppliers at<br>significant risk for incidents of child<br>labor   | <ul> <li>a. Operations and suppliers considered to have significant risk for incidents of: <ol> <li>child labor;</li> <li>young workers exposed to hazardous work.</li> </ol> </li> <li>b. Operations and suppliers considered to have significant risk for incidents of child labor either in terms of: <ol> <li>type of operation (such as manufacturing plant) and supplier;</li> <li>countries or geographic areas with operations and suppliers considered at risk.</li> <li>Measures taken by the organization in the reporting period intended to contribute to the effective abolition of child labor.</li> </ol> </li> </ul>   |
| 409-1 Operations and suppliers at<br>ignificant risk for incidents of forced or<br>compulsory labor                           | <ul> <li>a. Operations and suppliers considered to have significant risk for incidents of forced or ompulsory labor either in terms of:</li> <li>i. type of operation (such as manufacturing plant) and supplier;</li> <li>ii. countries or geographic areas with operations and suppliers considered at risk.</li> <li>b. Measures taken by the organization in the reporting period intended to contribute to the elimination of all forms of forced or compulsory labor.</li> </ul>  |
| 410-1 Security personnel trained in human rights policies or procedures   | <ul> <li>a. Percentage of security personnel who have received formal training in the organization's human rights policies or specific procedures and their application to security.</li> <li>b. Whether training requirements also apply to third-party organizations providing security personnel.</li> </ul>   |
| 411-1 Incidents of violations involving rights of indigenous peoples  | <ul> <li>a. Total number of identified incidents of violations involving the rights of indigenous peoples during the reporting period.</li> <li>b. Status of the incidents and actions taken with reference to the following: <ol> <li>Incident reviewed by the organization;</li> <li>Remediation plans being implemented;</li> <li>Remediation plans that have been implemented, with results reviewed through routine internal management review processes;</li> <li>Incident no longer subject to action.</li> </ol> </li> </ul>  |
| 412-1 Operations that have been<br>subject to human rights reviews or<br>impact assessments                                   | a. Total number and percentage of operations that have been subject to human rights reviews or human rights impact assessments, by country.   |

| 412-2 Employee training on human rights policies or procedures | <ul> <li>a. Total number of hours in the reporting period devoted to training on human rights policies or procedures concerning aspects of human rights that are relevant to operations.</li> <li>b. Percentage of employees trained during the reporting period in human rights policies or procedures concerning aspects of human rights that are relevant to operations.</li> </ul> |
|--|--|
| 412-3 Significant investment                                   |  |
| agreements and contracts that include                          |  |
| agreements and contracts that include                          | a. Total number and percentage of significant investment agreements and contracts that include   |
| numan rights clauses or that                                   | human rights clauses or that underwent human rights screening.   |
| underwent human rights screening                               | b. The definition used for 'significant investment agreements'.  |
|  | a. Percentage of operations with implemented local community engagement, impact  |
|  | assessments, and/or development programs, including the use of:  |
|  | i, social impact assessments, including gender impact assessments, based on participatory  |
|  | nrnresses.   |
|  | ii environmental impact assessments and orgoing monitoring:  |
| 412-1 Operations with local community                          | iii. environmental impact assessments and ongoing monitoring,  |
| 413-1 Operations with local community                          | in public disclosure of results of environmental and social impact assessments;  |
| engagement, impact assessments, and                            | iv. local community development programs based on local communities' needs;  |
| development programs   | v. stakeholder engagement plans based on stakeholder mapping;  |
|  | vi. broad based local community consultation committees and processes that include ulnerable   |
|  | groups;  |
|  | vii, works councils, occupational health and safety committees and other worker representation   |
|  | bodies to deal with impacts:   |
|  | lyiji formal local community grievance processes   |
|  | on consistence with significant actual and netantial negative impacts on local communities   |
| 413-2 Operations with significant                              | a. Operations with significant actual and potential negative impacts on local communities,   |
| actual and potential negative impacts                          | Including:   |
| on local communities   | i. the location of the operations;   |
| on local communities   | ii. the significant actual and potential negative impacts of operations.   |
| 414-1 New suppliers that were                                  |  |
| corooned using social criteria                                 |  |
| screened using social criteria                                 | a. Percentage of new suppliers that were screened using social criteria.   |
|  | a. Number of suppliers assessed for social impacts.  |
|  | b. Number of suppliers identified as having significant actual and potential negative social   |
|  | impacts.   |
| 414-2 Negative social impacts in the                           | c. Significant actual and potential negative social impacts identified in the supply chain.  |
| supply chain and actions taken                                 | d. Percentage of suppliers identified as having significant actual and potential negative social   |
|  | impacts with which improvements were agreed upon as a result of assessment   |
|  | Percentage of suppliers identified as having significant actual and notential negative social  |
|  | impacts with which relationships were terminated as a result of assessment, and why  |
|  | Impacts with which relationships were terminated as a result of assessment, and why.   |
| 416-1 Assessment of the health and                             |  |
| safety impacts of product and service                          | a. Percentage of significant product and service categories for which health and safety impacts  |
| categories   | are assessed for improvement.  |
|  | a. Total number of incidents of non-compliance with regulations and/or voluntary codes   |
|  | concerning the health and safety impacts of products and services within the reporting period  |
|  | hv   |
| 416-2 Incidents of non-compliance                              | is incidents of non-compliance with regulations resulting in a fine or penalty:  |
| concerning the health and safety                               | i. incluents of non-compliance with regulations resulting in a line of penalty,  |
| impacts of products and services                               | II. Incidents of non-compliance with regulations resulting in a warning;   |
|  | III. Incidents of non-compliance with voluntary codes.   |
|  | b. If the organization has not identified any non-compliance with regulations and/or voluntary   |
|  | codes, a brief statement of this fact is sufficient.   |
|  | a. Whether each of the following types of information is required by the organization's  |
|  | procedures for product and service information and labeling:   |
|  | i. The sourcing of components of the product or service;   |
|  | ii. Content, particularly with regard to substances that might produce an environmental or social  |
| 417-1 Requirements for product and                             | impact:  |
| service information and labeling                               | iii Safe use of the product or service.  |
|  | iv. Disposal of the product and environmental or social impacts:   |
|  | v. Other (explain)   |
|  | V. Otter (cxpiaili).   |
|  | TO PERCENTAGE OF SIGNIFICATION OF SERVICE CATEGORIES COVERED by and assessed for compliance  |

| with such procedures.                  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|
|  | a. Total number of incidents of non-compliance with regulations and/or voluntary codes             |  |  |  |  |  |  |  |
|  | concerning product and service information and labeling, by:                                       |  |  |  |  |  |  |  |
| 417-2 Incidents of non-compliance      | i. incidents of non-compliance with regulations resulting in a fine or penalty;                    |  |  |  |  |  |  |  |
| concerning product and service         | ii. incidents of non-compliance with regulations resulting in a warning;                           |  |  |  |  |  |  |  |
| information and labeling               | iii. incidents of non-compliance with voluntary codes.   |  |  |  |  |  |  |  |
|  | b. If the organization has not identified any non-compliance with regulations and/or voluntary     |  |  |  |  |  |  |  |
|  | codes, a brief statement of this fact is sufficient.   |  |  |  |  |  |  |  |
|  | a. Total number of incidents of non-compliance with regulations and/or voluntary codes             |  |  |  |  |  |  |  |
|  | concerning marketing communications, including advertising, promotion, and sponsorship, by:        |  |  |  |  |  |  |  |
| 417-3 Incidents of non-compliance      | i. incidents of non-compliance with regulations resulting in a fine or penalty;                    |  |  |  |  |  |  |  |
| concorning marketing communications    | ii. incidents of non-compliance with regulations resulting in a warning;                           |  |  |  |  |  |  |  |
| concerning marketing communications    | iii. incidents of non-compliance with voluntary codes.   |  |  |  |  |  |  |  |
|  | b. If the organization has not identified any non-compliance with regulations and/or voluntary     |  |  |  |  |  |  |  |
|  | codes, a brief statement of this fact is sufficient.   |  |  |  |  |  |  |  |
|  | a. Total number of substantiated complaints received concerning breaches of customer privacy,      |  |  |  |  |  |  |  |
|  | categorized by:  |  |  |  |  |  |  |  |
| 418-1 Substantiated complaints         | i. complaints received from outside parties and substantiated by the organization;                 |  |  |  |  |  |  |  |
| concerning breaches of customer        | ii. complaints from regulatory bodies.   |  |  |  |  |  |  |  |
| privacy and losses of customer data    | b. Total number of identified leaks, thefts, or losses of customer data.                           |  |  |  |  |  |  |  |
|  | c. If the organization has not identified any substantiated complaints, a brief statement of this  |  |  |  |  |  |  |  |
|  | fact is sufficient.  |  |  |  |  |  |  |  |
|  | a. Significant fines and non-monetary sanctions for non-compliance with laws and/or regulations    |  |  |  |  |  |  |  |
|  | in the social and economic area in terms of:   |  |  |  |  |  |  |  |
| 419-1 Non-compliance with laws and     | i. total monetary value of significant fines;  |  |  |  |  |  |  |  |
| regulations in the social and economic | ii. total number of non-monetary sanctions;  |  |  |  |  |  |  |  |
| area                                   | iii. cases brought through dispute resolution mechanisms.  |  |  |  |  |  |  |  |
| aica                                   | b. If the organization has not identified any non-compliance with laws and/or regulations, a brief |  |  |  |  |  |  |  |
|  | statement of this fact is sufficient.  |  |  |  |  |  |  |  |
|  | c. The context against which significant fines and non-monetary sanctions were incurred.           |  |  |  |  |  |  |  |

## **APPENDIX E. SASB Relevance to Infrastructure**

SASB has established its own industry classification: the Sustainable Industry Classification System<sup>®</sup> (SICS<sup>®</sup>), which groups companies based on their sustainability-related risks and opportunities. It is "an impact-focused methodology categorizing companies under a sustainability lens. SICS builds on and complements traditional classification systems by grouping companies into sectors and industries in accordance with a fundamental view of their business model, their resource intensity and sustainability impacts, and their sustainability innovation potential. Each of the following 77 industries (across 11 sectors) has its own unique set of sustainability accounting standards in the SASB system."<sup>69</sup>

There is an 'Infrastructure sector' among SASB's 11 sectors. However, key infrastructure industries such as transportation, renewable energy, and telecommunications, which are within AISI's scope, are not included due to SASB's impact-based classification. Therefore a selection of those standards across different SASB sectors is necessary to form a complete list of indicators relevant to infrastructure projects.

<sup>&</sup>lt;sup>69</sup> Sustainability Accounting Standards Board, SASB'S SUSTAINABLE INDUSTRY CLASSIFICATION SYSTEM<sup>®</sup> (SICS<sup>®</sup>)

## Sectors/ Industries considered in SASB

| SECTORS                     | INDUSTRIES (a total of 77)                             | INFRASTRUCTURE<br>RELEVANT |
|-----------------------------|--|----------------------------|
| 1. Consumer goods           | 7 Industries   | NO                         |
|                             | 1. Coal Operations                                     | NO                         |
|                             | 2. Construction Materials                              | YES                        |
|                             | 3. Iron & Steel Producers                              | YES                        |
| . Extractives & Minerals    | 4. Metals & Mining                                     | NO                         |
| rocessing                   | 5. Oil & Gas - Exploration & Production                | NO                         |
|                             | 6. Oil & Gas — Midstream                               | NO                         |
|                             | 7. Oil & Gas - Refining & Marketing                    | NO                         |
|                             | 8. Oil & Gas - Services                                | NO                         |
| . Financials (7 Industries) | 7 Industries   | NO                         |
| . Food & Beverage           | 8 Industries   | NO                         |
| . Healthcare                | 6 Industries   | NO                         |
|                             | 1. Electric Utilities & Power Generators               | YES                        |
|                             | 2. Engineering & Construction Services                 | YES                        |
|                             | 3. Gas Utilities & Distributors                        | YES                        |
| . Infrastructure            | 4. Home Builders                                       | NO                         |
| 8 Industries)               | 5. Real Estate   | MAYBE?                     |
|                             | 6. Real Estate Services                                | MAYBE?                     |
|                             | 7. Waste Management                                    | YES                        |
|                             | 8. Water Utilities & Services                          | YES                        |
|                             | 1. Biofuels  | MAYBE?                     |
|                             | 2. Forestry Management                                 | NO                         |
| . Renewable Resources &     | 3. Fuel Cells & Industrial Batteries                   | NO                         |
| Iternative Energy           | 4. Pulp & Paper Products                               | NO                         |
| 6 Industries)               | 5. Solar Technology & Project Developers               | YES                        |
|                             | 6. Wind Technology & Project Developers                | YES                        |
| . Resource Transformation   | 5 Industries   | NO                         |
| . Services                  | 7 Industries   | NO                         |
|                             | 1. Electronic Manufacturing Services & Original Design | 12.040                     |
|                             | Manufacturing  | NO                         |
| 0. Technology &             | 2. Hardware  | NO                         |
| ommunications               | 3. Internet Media & Services                           | NO                         |
| 5 Industries)               | 4. Semiconductors                                      | NO                         |
|                             | 5. Software & IT Services                              | NO                         |
|                             | 6. Telecommunication Services                          | YES                        |
|                             | 1. Air Freight & Logistics                             | YES                        |
|                             | 2. Airlines  | NO                         |
|                             | 3. Auto Parts  | NO                         |
| 1 Transmittelien            | 4. Automobiles   | NO                         |
| 1. Transportation           | 5. Car Rental & Leasing                                | NO                         |
| 5 maustries)                | 6. Cruise Lines  | NO                         |
|                             | 7. Marine Transportation                               | YES                        |
|                             | 8. Rail Transportation                                 | YES                        |
|                             | 9. Road Transportation                                 | YES                        |

## **APPENDIX F. Additional Information on WEF IBC Standard Analysis**

## Existing disclosures used as sources

|         | WEF  | EXISTING DISCLOSURES USED AS SOURCES                              |       |  |                      |          |           |   |     |             |   |      |          |                                 |
|---------|--|---|-------|--|----------------------|----------|-----------|---|-----|-------------|---|------|----------|---------------------------------|
| PILLARS | THEMES   | SOURCES FOR CORE METRICS  |       |  |                      |          | so        | URCES FOR E   |     | METR        | ucs   |      |          |                                 |
|         |  | GPI   | 100   | CDSB                                     | SASB                 | TODE     | 150       | GPI   | 100 | CDSB        | SASB  | TODE | 150      | LIN .                           |
|         | Governing<br>purpose                             | GRI 102-26  | IR 4R |  |                      |          |           | GRI 102-26  |     | 000         |   |      |          |                                 |
| TINT    | governing body                                   | 405-1a,   |       |  |                      |          |           |   |     |             |   |      |          |                                 |
| WERNM   | engagement                                       | 102-43, GRI 102-<br>47  |       |  |                      |          |           | CDI 415   |     |             | C 4/20  |      |          |                                 |
| LE OF G | Ethical behaviour                                | 205-3, GRI 102-<br>17   |       |  |                      |          |           | GNI 413   |     |             | 510a.1  |      |          |                                 |
| PRINCIP | Risk and<br>opportunity<br>oversight             | GRI 102-15  | IK 40 |  |                      |          |           |   |     | CD38 KBU UZ |   |      |          |                                 |
|         | Climate drange                                   | GRI 305:1*3   |       | CDSB<br>R01, R02,<br>R03, R04<br>and R06 | SASE 110             | TCFD     |           |   |     |             |   |      | 15014008 |                                 |
| 6       | Nature loss                                      | GRI 304-1   |       |  | SASB<br>CG:HP:140a.1 |          |           |   |     |             |   |      | 15014008 |                                 |
| PLAN    | Freshwater<br>availability                       |   |       |  |                      |          |           |   |     |             |   |      | 15014008 |                                 |
|         | Air pollution                                    |   |       |  | CACD                 | <u> </u> | 1001400.8 | GRI 305+7   |     |             |   |      |          |                                 |
|         | Water pollution                                  |   |       |  | CN0101-11            |          | 15014008  |   |     |             |   |      |          |                                 |
|         | Solid waste<br>Resource<br>availability          |   |       |  |                      |          | 13014008  |   |     |             |   |      |          |                                 |
| PEOPLE  | Dignity and<br>equality                          | GRI 405-1b, GRI<br>405-2, GRI 202-1,<br>GRI 408-1b, GRI<br>409-1a |       |  |                      |          |           | GRI 102-38,<br>GRI 406-1, GRI<br>407-1, GRI<br>412-1,GRI<br>408-1a,<br>GRI 408-1a and<br>GRI 409-1, |     |             | SASB FR<br>310 a.4,<br>SASB<br>CN040 1<br>17, |      |          | UN<br>Guiding<br>Principle<br>S |
|         | Health and<br>well-being                         | GRI:2018<br>403:9a&b,<br>GRI:2018 403-6a                          |       |  |                      |          |           | GRI:2018<br>403-<br>10a&b,GRI:201<br>6<br>403-2a  |     |             |   |      |          |                                 |
|         | Skills for the<br>future                         | GRI 404-1,  |       |  | SAS8 HC<br>101-15    |          |           |   |     |             |   |      |          |                                 |
| È       | Employment and<br>wealth<br>generation           | GRI 401-1a&b,<br>GRI 201-1, GRI<br>201-4,                         |       |  |                      |          |           | GRI 203 1, GRI<br>203 2, GRI<br>(FIFS7 + FIFS8)   |     |             | SASB<br>FND 102-<br>16.a,                     |      |          |                                 |
| PROSPER | Innovation of<br>better products<br>and services |   |       |  |                      |          |           |   |     |             |   |      |          |                                 |
|         | Community and social vitality                    | GRI 201-1   |       |  |                      |          |           | GRI 201-1   |     |             |   |      |          |                                 |

## Number of Indicators per Topic

| AISI TOPICS       | No.of<br>Indicators<br>per topic | WEF THEMES        | No.of<br>Indicators<br>per theme |
|-------------------|----------------------------------|-------------------|----------------------------------|
| Option Assessment | 1                                | Governing purpose | 2                                |

Final Report

|                                  |   | Risk and opportunity oversight   | 2 |
|----------------------------------|---|----------------------------------|---|
| Gender                           | 1 | Dignity and equality             | 9 |
|                                  |   | Quality of governing body        | 3 |
| Resilience                       | 1 | Risk and opportunity oversight   | 2 |
|                                  |   | Climate change                   | 4 |
| Stakeholder Engagement           | 5 | Quality of governing body        | 3 |
|                                  |   | Stakeholder engagement           | 1 |
| Water pollution                  | 3 | Freshwater availability          | 2 |
|                                  |   | Water pollution                  | 2 |
| Air Quality                      | 1 | Air pollution                    | 2 |
| Energy / GHG                     | 2 | Climate change                   | 4 |
| Materials lifecycle approach     | 2 | Solid waste                      | 2 |
|                                  |   | Resource availability            | 1 |
| Ecosystem and land use           | 2 | Nature loss                      | 3 |
| Sustainability Management System | 2 | Dignity and equality             | 9 |
|                                  |   | Quality of governing body        | 3 |
|                                  |   | Risk and opportunity oversight   | 2 |
|                                  |   | Governing purpose                | 2 |
| Anti-corruption                  | 1 | Ethical behaviour                | 4 |
|                                  |   | Community and social vitality    | 4 |
| Procurement Process              | 1 | N/A                              |   |
|                                  |   | Dignity and equality             | 9 |
| Working Conditions               | 5 | Health and well-being            | 3 |
|                                  |   | Employment and wealth generation | 5 |

## APPENDIX G. TCFD-AISI Mapping for Each Non-financial Group

Mapping of AISI's indicators against TCFD's illustrative example metrics for the energy group

| ENERG                 | ENERGY   |                                    |  |              |                     |   |
|-----------------------|--|------------------------------------|--|--------------|---------------------|---|
|                       | TCFD   |                                    |  |              | AISI                |   |
| FINANCIAL<br>CATEGORY | EXAMPLE METRICS  | CLIMATE -<br>RELATED<br>CATEGORY   |  | TOPICS       | INDICATORS          | METRIC  |
| Revenues              | Estimated Scope 3 emissions,<br>including methodologies and<br>emission factors used                               | GHG<br>Emissions                   |  | Energy / GSG | 12 GHG<br>emissions | Volume of Greenhouse gas<br>emissions emitted by the<br>project |
|                       | Revenues/savings from investments<br>in low-carbon alternatives (e.g.,<br>R&D, equipment, products or<br>services) | Risk<br>Adaptation<br>& Mitigation |  | N/A          | N/A                 | N/A   |

**Final Report** 

| Expenditur<br>es | Describe current carbon price or range of prices used   | GHG<br>Emissions                   | N/A                                     | N/A                                      | N/A   |
|------------------|---|------------------------------------|---|--|---|
|                  | Expenditures (OpEx) for low carbon<br>alternatives (e.g., R&D, equipment,<br>products, or services)   | Risk<br>Adaptation<br>& Mitigation | N/A                                     | N/A                                      | N/A   |
|                  | Proportion of capital allocation to<br>long-lived assets versus short-term<br>assets  | Risk<br>Adaptation<br>& Mitigation | N/A                                     | N/A                                      | N/A   |
|                  | Percent water withdrawn in regions<br>with high or extremely high baseline<br>water stress  | Water                              | Water                                   | 11 Freshwater<br>withdrawal              | Annual volume of fresh<br>water used by the<br>infrastructure project |
|                  | Amount of gross global Scope 1<br>emissions from: (1) combustion, (2)<br>flared hydrocarbons, (3) process<br>emissions, (4) directly vented<br>releases, and (5) fugitive<br>emissions/leaks          | GHG<br>Emissions                   | Energy / GSG                            | 12 GHG<br>emissions                      | Volume of Greenhouse gas<br>emissions emitted by the<br>project       |
|                  | Indicative costs of supply for current<br>and committed future projects (e.g.,<br>through a cost curve or indicative<br>price range. This could be broken<br>down by product, asset, or<br>geography) | Energy/Fuel                        | N/A                                     | N/A                                      | N/A   |
| Assets           | Assets committed in regions with<br>high or extremely high baseline<br>water stress   | Water                              | Water                                   | 11 Freshwater<br>withdrawal              | Annual volume of fresh<br>water used by the<br>infrastructure project |
|                  | Investment (CapEx) in low carbon<br>alternatives (e.g., capital equipment<br>or assets)   | Risk<br>Adaptation<br>& Mitigation | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable management<br>system and reporting |
|                  | A breakdown of reserves by type and<br>an indication of associated emissions<br>factors to provide insight into<br>potential future emissions   | GHG<br>Emissions                   | Energy / GHG                            | 12 GHG<br>emissions                      | Volume of Greenhouse gas<br>emissions emitted by the<br>project       |
| Capital          | Capital payback periods or return on capital deployed   | Risk<br>Adaptation<br>& Mitigation | N/A                                     | N/A                                      | N/A   |

The mapping against the Energy group example metrics shows that half of the metrics are not covered by AISI. These are all metrics with economic values that are not required by any AISI indicator.

## Mapping of AISI's indicators against TCFD's illustrative example metrics for the transportation group

#### DRAFT, April 30, 2021

| TRANSPORTATION        |  |                                    |  |   |  |   |  |
|-----------------------|--|------------------------------------|--|---|--|---|--|
|                       | TCFD   |                                    |  | AISI                                    |  |   |  |
| FINANCIAL<br>CATEGORY | EXAMPLE METRICS  | CLIMATE -<br>RELATED<br>CATEGORY   |  | TOPICS                                  | INDICATORS                               | METRIC  |  |
| Revenues              | Sales-weighted average fleet fuel<br>economy, by region and<br>weight/number of people<br>transported  | Energy/Fuel                        |  | N/A                                     | N/A                                      | N/A   |  |
|                       | Revenues/savings from<br>investments in low-carbon<br>alternatives (e.g., R&D, equipment,<br>products or services)   | Risk<br>Adaptation &<br>Mitigation |  | N/A                                     | N/A                                      | N/A   |  |
|                       | Vehicle sales (historical, current<br>and projected) by category (e.g.,<br>gas vehicles, diesel vehicles,<br>battery electric vehicles, plug-in<br>hybrid electric vehicles,<br>alternative-powered vehicles (LPG,<br>CNG, fuel cells, compressed air) | Risk<br>Adaptation &<br>Mitigation |  | N/A                                     | N/A                                      | N/A   |  |
|                       | Energy Efficiency Design Index<br>(EEDI) for new ships   | Risk<br>Adaptation &<br>Mitigation |  | N/A                                     | N/A                                      | N/A   |  |
| Expenditure<br>s      | Expenditures (OpEx) for R&D for<br>low-carbon transportation<br>equipment or transportation<br>services  | Risk<br>Adaptation &<br>Mitigation |  | N/A                                     | N/A                                      | N/A   |  |
|                       | Total fuel consumed and percent<br>renewable for road, airlines,<br>marine, rail (?)   | Energy/Fuel                        |  | Energy / GSG                            | 13 Efficient use of<br>energy            | Amount of energy consumed by the project                              |  |
|                       | Road vehicles—Geographic<br>breakdown of GHG emissions:<br>emissions and/or emission<br>intensity of products for key<br>geographies against regulatory<br>requirements/targets  | GHG<br>Emissions                   |  | Energy / GSG                            | 12 GHG emissions                         | N/A   |  |
| Assets                | Life cycle reporting of GHG<br>emissions of Transportation<br>products (air, ship, rail, truck, auto)  | GHG<br>Emissions                   |  | Energy / GSG                            | 12 GHG emissions                         | Volume of Greenhouse<br>gas emissions emitted by<br>the project       |  |
|                       | Investments (CapEx) in low-carbon transportation equipment or transportation services  | Risk<br>Adaptation &<br>Mitigation |  | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable management<br>system and reporting |  |

The mapping against the Transportation group example metrics shows that the majority of TCFD metrics are not covered by AISI. This is either due to the economic values of metrics or due to the metric's focus on transportation infrastructure specific characteristics.<sup>70</sup>

# Mapping of AISI's indicators against TCFD's illustrative example metrics for the materials & buildings group

| MATERIALS & BUILDINGS |  |                                    |   |  |   |  |
|-----------------------|--|------------------------------------|---|--|---|--|
|                       | TCFD   |                                    |   | AISI                                     |   |  |
| FINANCIAL<br>CATEGORY | EXAMPLE METRICS  | CLIMATE -<br>RELATED<br>CATEGORY   | TOPICS                                  | INDICATORS                               | METRIC  |  |
| Revenues              | Revenues/savings from<br>investments in low-carbon<br>alternatives (e.g., R&D,<br>equipment, products or services)       | Risk<br>Adaptation<br>& Mitigation | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a<br>sustainable management<br>system and reporting |  |
| Expenditures          | Expenditures (OpEx) for low-<br>carbon alternatives (e.g., R&D,<br>technology, products, or services)                    | Risk<br>Adaptation<br>& Mitigation | N/A                                     | N/A                                      | N/A   |  |
|                       | Total energy consumed, broken<br>down by source (e.g., purchased<br>electricity and renewable sources)                   | Energy/Fuel                        | Energy / GSG                            | 13 Efficient use of energy               | Amount of energy<br>consumed by the project                           |  |
|                       | Total fuel consumed—percentage<br>from coal, natural gas, oil, and<br>renewable sources                                  | Energy/Fuel                        | Energy / GSG                            | 13 Efficient use of energy               | Amount of energy consumed by the project                              |  |
|                       | Total energy intensity—by tons of<br>product, amount of sales, number<br>of products depending on<br>informational value | Energy/Fuel                        | Energy / GSG                            | 13 Efficient use of energy               | N/A   |  |
|                       | Building energy intensity (by occupants or square area)  | Energy/Fuel                        | Energy / GSG                            | 13 Efficient use of energy               | N/A   |  |
|                       | Percent of fresh water withdrawn<br>in regions with high or extremely<br>high baseline water stress                      | Water                              | Water                                   | 11 Freshwater<br>withdrawal              | Annual volume of fresh<br>water used by the<br>infrastructure project |  |
|                       | Building water intensity (by occupants or square area)   | Water                              | Water                                   | 11 Freshwater<br>withdrawal              | N/A   |  |

<sup>&</sup>lt;sup>70</sup> Transportation -related products and fleet, which are mentioned in some metrics, are not considered part of infrastructure definition according to ASSI. ASSI, as mentioned, refers to infrastructure projects encompassed by the World Bank: 'infrastructure' includes economic, social, and government infrastructure—that is, the 'basic physical and organizational structures' needed to make economic, social, and government activity possible (using the Oxford English Dictionary definition).

**Final Report** 

|        | GHG emissions intensity from<br>buildings (by occupants or square<br>area) and from new construction<br>and redevelopment             | GHG<br>Emissions                   | Energy / GSG                            | 12 GHG emissions                         | N/A   |
|--------|---|------------------------------------|---|--|---|
| Assets | Area of buildings, plants or<br>properties located in designated<br>flood hazard areas  | Location                           | Resilience                              | 4 Climate Risk<br>Resilience             | N/A   |
|        | A breakdown of reserves and an<br>indication of associated emissions<br>factors to provide insight into<br>potential future emissions | GHG<br>Emissions                   | Energy / GSG                            | 12 GHG emissions                         | Volume of Greenhouse<br>gas emissions emitted by<br>the project |
|        | For each property type, the percentage certified as sustainable   | Risk<br>Adaptation<br>& Mitigation | N/A                                     | N/A                                      | N/A   |
|        | Investment (CapEx) in low-carbon<br>alternatives (e.g., capital<br>equipment or assets)   | Risk<br>Adaptation<br>& Mitigation | Materials<br>lifecycle<br>approach      | 15 Reduction of<br>Waste                 | N/A   |
|        |   |                                    | Project<br>Sustainability<br>Management | 2 Sustainability<br>management<br>system | Implementation of a sustainable management system and reporting |

The mapping against the Materials& Buildings group example metrics shows that the majority of TCFD metrics are not covered by AISI. This is either due to the economic values of TCFD example metrics or due to the metric's focus on transportation infrastructure specific characteristics.

# Example metrics of TCFD non-financial groups that are not covered by AISI's indicators/metrics (non-financial group)

|                | Describe current carbon price or range of prices used  |
|----------------|--|
|                | Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)  |
|                | Proportion of capital allocation to long-lived assets versus short-term assets   |
|                | Indicative costs of supply for current and committed future projects (e.g., through a cost curve or indicative price range. This could be broken down by product, asset, or geography) |
|                | Capital payback periods or return on capital deployed  |
| TRANSPORTATION | Sales-weighted average fleet fuel economy, by region and weight/number of people transported   |
| GROUP          | Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  |

|                 | Vehicle sales (historical, current and projected) by category (e.g., gas vehicles, diesel vehicles, battery electric vehicles, plug-in hybrid electric vehicles, alternative-powered vehicles (LPG, CNG, fuel cells, compressed air) |
|-----------------|--|
|                 | Energy Efficiency Design Index (EEDI) for new ships  |
|                 | Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   |
| MATERIALS &     | Expenditures (OpEx) for low-carbon alternatives (e.g., R&D, technology, products, or services)   |
| BUILDINGS GROUP | For each property type, the percentage certified as sustainable  |

## TCFD's example metrics mapping results - energy group

| ENERGY   |                            |                   |  |  |
|--|----------------------------|-------------------|--|--|
| TCFD EXAMPLE METRICS   | No of AISI's<br>indicators | COVERAGE<br>LEVEL |  |  |
| Estimated Scope 3 emissions, including methodologies and emission factors used   | 1                          | HIGH              |  |  |
| Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | 1                          | PARTIAL           |  |  |
| Describe current carbon price or range of prices used  | 0                          | NONE              |  |  |
| Expenditures (OpEx) for low carbon alternatives (e.g., R&D, equipment, products, or services)  | 0                          | NONE              |  |  |
| Proportion of capital allocation to long-lived assets versus short-term assets   | 0                          | NONE              |  |  |
| Percent water withdrawn in regions with high or extremely high baseline water stress   | 1                          | PARTIAL           |  |  |
| Amount of gross global Scope 1 emissions from: (1) combustion, (2) flared<br>hydrocarbons, (3) process emissions, (4) directly vented releases, and (5) fugitive<br>emissions/leaks    | 1                          | HIGH              |  |  |
| Indicative costs of supply for current and committed future projects (e.g., through a cost curve or indicative price range. This could be broken down by product, asset, or geography) | 0                          | NONE              |  |  |
| Assets committed in regions with high or extremely high baseline water stress  | 1                          | PARTIAL           |  |  |
| Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)  | 1                          | PARTIAL           |  |  |
| A breakdown of reserves by type and an indication of associated emissions factors to provide insight into potential future emissions   | 1                          | PARTIAL           |  |  |
| Capital payback periods or return on capital deployed  | 0                          | NONE              |  |  |

The above mapping table shows that 6 out of 12 example metrics of TCFD for energy group are covered by AISI's metrics. Each example metric is linked to either one or no indicators/metrics from AISI.

## TCFD's example metrics mapping results - transportation group

### TRANSPORTATION

| TCFD EXAMPLE METRICS   | No of<br>AISI's<br>indicators | COVERAG<br>E LEVEL |
|--|-------------------------------|--------------------|
| Sales-weighted average fleet fuel economy, by region and weight/number of people transported   | 0                             | NONE               |
| Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)  | 1                             | PARTIAL            |
| Vehicle sales (historical, current and projected) by category (e.g., gas vehicles, diesel vehicles, battery electric vehicles, plug-in hybrid electric vehicles, alternative-powered vehicles (LPG, CNG, fuel cells, compressed air) | 0                             | NONE               |
| Energy Efficiency Design Index (EEDI) for new ships  | 0                             | NONE               |
| Expenditures (OpEx) for R&D for low-carbon transportation equipment or transportation services   | 0                             | NONE               |
| Total fuel consumed and percent renewable for road, airlines, marine, rail (?)   | 1                             | FULL               |
| Road vehicles—Geographic breakdown of GHG emissions: emissions and/or emission intensity of products for key geographies against regulatory requirements/targets   | 0                             | NONE               |
| Life cycle reporting of GHG emissions of Transportation products (air, ship, rail, truck, auto)  | 0                             | NONE               |
| Investments (CapEx) in low-carbon transportation equipment or transportation services  | 1                             | PARTIAL            |

The above mapping table shows that only 3 out of 9 example metrics of TCFD for the transportation group are covered by AISI's metrics. Each example metric is linked to either one or no indicators/metrics from AISI.

## TCFD's example metrics mapping results - materials & buildings group

| MATERIALS & BUILDINGS  |                            |                    |  |  |
|--|----------------------------|--------------------|--|--|
| TCFD EXAMPLE METRICS   | No of AISI's<br>indicators | COVERA<br>GE LEVEL |  |  |
| Revenues/savings from investments in low-carbon alternatives (e.g., R&D, equipment, products or services)        | 1                          | PARTIAL            |  |  |
| Expenditures (OpEx) for low-carbon alternatives (e.g., R&D, technology, products, or services)                   | 0                          | NONE               |  |  |
| Total energy consumed, broken down by source (e.g., purchased electricity and renewable sources)                 | 1                          | PARTIAL            |  |  |
| Total fuel consumed—percentage from coal, natural gas, oil, and renewable sources                                | 1                          | PARTIAL            |  |  |
| Total energy intensity—by tons of product, amount of sales, number of products depending on informational value  | 0                          | NONE               |  |  |
| Building energy intensity (by occupants or square area)  | 0                          | NONE               |  |  |
| Percent of fresh water withdrawn in regions with high or extremely high baseline water stress                    | 1                          | PARTIAL            |  |  |
| Building water intensity (by occupants or square area)   | 0                          | NONE               |  |  |
| GHG emissions intensity from buildings (by occupants or square area) and from new construction and redevelopment | 0                          | NONE               |  |  |

| Area of buildings, plants or properties<br>located in designated flood hazard areas  | 0 | NONE    |
|--|---|---------|
| A breakdown of reserves and an indication of associated emissions factors to provide insight into potential future emissions | 1 | PARTIAL |
| For each property type, the percentage certified as sustainable  | 0 | NONE    |
| Investment (CapEx) in low-carbon alternatives (e.g., capital equipment or assets)  | 2 | PARTIAL |

The above mapping table shows that 6 out of 13 example metrics of TCFD for the Materials & Buildings group are covered by AISI's metrics.