

Item 02 – GRI Topic Standard Project for Climate Change – Climate Change **Exposure draft**

For GSSB approval

2 November 2023
16 November 2023
GRI Topic Standard Project for Climate Change
This document sets out the exposure draft of GRI Climate Change Standard, including the explanatory memorandum summarizing the objectives of the project and the significant proposals contained within the draft. These are submitted for GSSB approval for public exposure.
If approved, it is proposed that public exposure commence in late November 2023 and run until the end of February 2024.
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This document has been prepared by the GRI Standards Division and is made available to observers at meetings of the Global Sustainability Standards Board (GSSB). It does not represent an official position of the GSSB. Board positions are set out in the GRI Sustainability Reporting Standards. The GSSB is the independent standard setting body of GRI. For more information visit www.globalreporting.org.

Explanatory memorandum

2 This explanatory memorandum sets out the objectives for the project to develop new disclosures

3 related to Climate Change, including the review of the <u>GRI 305: Emissions 2016 (Disclosures 305-1 to</u>

4 <u>305-5</u>), <u>GRI 302: Energy 2016</u>, and <u>GRI 201: Economic Performance 2016 (Disclosure 201-2)</u>, the

5 significant proposals resulting from this project, and a summary of the GSSB's involvement and views

6 on the development of the draft.

7 **Objectives for the project**

8 The primary objective of this project is to review and revise GRI climate change-related Standards

9 and to incorporate new issues to reflect the stakeholder expectations on reporting climate change-

10 related impacts, that go beyond GHG emissions and energy consumption. As outlined in the GSSB's

11 <u>Due Process Protocol</u>, a multi-stakeholder technical committee was established in May 2023 to

12 contribute to the review of the climate change-related disclosures.

13 The aim is to align with internationally agreed best practice, latest developments, and relevant

14 authoritative intergovernmental instruments related to climate change, greenhouse gas (GHG)

15 emissions, and energy. The scope of the revision includes both reviewing the GHG emissions and

16 energy-related disclosures, as using energy more efficiently and opting for renewable energy sources

- is essential for combating climate change and reducing an organization's overall environmentalfootprint.
- 19 <u>Disclosures 305-6 and 305-7 from *GRI 305: Emissions 2016* on non-GHG emissions related issues</u>

20 are excluded from the scope of the project and will be addressed in the future revision of pollution-

- 21 related disclosures. The review of the <u>GRI 201: Economic Performance 2016 (disclosure 201-1, 201-</u>
- 22 <u>3, and 201-4)</u> disclosures will be addressed in the economic-related Standards project commenced in
- 23 2023.
- 24 The project is not limited to reviewing the current contents of existing GRI climate change-related
- 25 disclosures. It also incorporates new issues to reflect the stakeholders' expectations related to
- 26 reporting climate change-related impacts beyond GHG emissions and energy reporting.
- Specifically, the revised climate change-related disclosures will enable an organization to disclosepublicly:
- its most significant impacts on climate change and how the organization manages these impacts,
 enhancing transparency of the organization's impacts and increasing organizational
 accountability;
- its climate change-related impacts beyond GHG emissions, including impacts related to just
- transition, climate transition and adaptation plans, GHG removals in the value chain, and carbon
 credits.
- For more information on the project, consult the <u>Project Proposal</u> and the <u>Technical Committee</u>
 <u>biographies</u>.

37 Significant proposals

38 An exposure draft including new disclosures related to climate change, as well as the review of <u>GRI</u>

39 <u>305: Emissions 2016 (Disclosures 305-1 to 305-5)</u> and <u>GRI 201: Economic Performance 2016</u>

- 40 (Disclosure 201-2) has been developed in line with the project objectives as set out above. Notable 41 changes and inclusions in this exposure draft are summarized below.
- 42 Incorporation of just transition principles
- The Climate Change draft covers a dedicated disclosure on just transition metrics, including the number of jobs created, eliminated, and redeployed due to the transition plan, the number of

- 45 employees that received training for up- and reskilling and the locations where the organization's
 46 transition plan has impacts on local communities and Indigenous Peoples.
- 47 Moreover, the concept of the just transition is present throughout the Climate Change exposure
 48 draft. The draft includes multiple requirements urging organizations to disclose their impacts on
 49 workers, local communities, vulnerable groups associated with the adaptation plan, and the use of
 50 GHG removals and carbon credits.

• New disclosure on transition plan for climate change mitigation

- 52 The Climate Change exposure draft includes a new management disclosure focused on the 53 development of a transition plan for climate change mitigation. The disclosure requires 54 organizations to report information on policies and actions, alignment with latest scientific 55 evidence and relevant goals and targets. In addition to GHG emissions reduction targets, 56 organizations are required to report targets to phase out fossil fuels and any other climate change 57 mitigation targets set. Organizations are also required to report on governance-related aspects, 58 investment allocated to the implementation of the transition plan, integration within the 59 organization's overall business strategy, public policy and stakeholder engagement processes 60 that organizations perform to shape their transition plans.
- 61 Under this disclosure, organizations report the impacts that result from the implementation of the 62 transition plan. Specifically, the disclosure integrates the principles of just transition, and requires 63 organizations to disclose impacts especially on workers, local communities and vulnerable 64 groups. Furthermore, given the interconnection of climate change with biodiversity, organizations 65 are required to report impacts of the transition plan on biodiversity.

• New disclosure on climate change adaptation

67 This management disclosure focuses on the development of a climate change adaptation plan and the impacts including on local communities, vulnerable groups, workers, and biodiversity 68 69 associated with the implementation and outcome of the plan. The disclosure also requires 70 organizations to report any impacts associated with climate change-related risks and 71 opportunities that have been identified to inform the development of the adaptation plan. 72 The disclosure covers details on policies and actions, the scenarios used for the development of 73 the adaptation plan, and information on investment allocated for the implementation of the 74 adaptation plan, governance, targets and stakeholder engagement. As stakeholder engagement 75 is a critical aspect of adaptation planning, relevant processes that were implemented in order to 76 develop the adaptation plan are reported.

77 • New disclosure on emissions reduction targets and progress

Under this disclosure, organizations report their GHG emissions reduction targets for scope 1, 2,
and 3 separately or combined and how they align with the latest scientific evidence. Furthermore,
organizations shall disclose their targets revision policies, the base year they have set, and
recalculations of base year emissions. Importantly, organizations are required to report their
progress towards each target using the inventory method and explain how that progress was
achieved, including whether it is due to the organization's initiatives, secondary effects due to
other initiatives carried out by the organization, or changes due to external factors.

• New disclosure on removals within the value chain

This disclosure aims to increase transparency on the use of GHG removals. Organizations
account and report the total GHG removals and how quality criteria are monitored. They shall also
report the intended use of removals. When reporting under this disclosure, organizations report
impacts associated with GHG removals including on local communities, vulnerable groups,
workers, biodiversity, and the actions taken to manage these impacts.

91 • New disclosure on carbon credits

92 The aim of this disclosure is to increase transparency regarding the use of carbon credits. 93 Organizations shall disclose the total amount of carbon credits cancelled and provide information 94 on the projects they purchase the carbon credits from. Organizations shall report details on the 95 adherence to quality criteria and on the purpose of the carbon credit cancellation. As carbon 96 credits projects may result in positive and negative impacts, organisations are expected to report 97 on the evaluation and continuous monitoring of such impacts.

98 • New terms and relevant definitions

- Along with the introduction of new disclosures and terms, new definitions have been included in
 the GRI Glossary, including the following terms:
- 101 carbon credit

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- greenhouse gas (GHG) removal
- 103 Where necessary, definitions and explanations for other terms have been modified or included in 104 the guidance of each relevant disclosure (e.g. adaptation, just transition).

105 • More extensive guidance throughout the drafts

Extensive guidance has been provided within the exposure draft for the new disclosures as well
 as for the revised disclosures (e.g. disclosures on Scope 1, 2 and 3 GHG emissions). In addition,
 the exposure drafts include example templates for presenting the information for selected
 disclosures.

110 GSSB involvement and views on the development of

111 this draft

- 112 The GSSB appointed three of its members as sponsors for this project.
- 113 The GSSB sponsors observed the TC process and attended most of their meetings.
- The exposure draft is scheduled to be presented for approval to the GSSB at its meeting on 16November 2023.
- 116 The recording of the meeting can be accessed on the <u>GSSB website</u>.

117 Note on reading this document

- 118 This document includes generic text used in all GRI Standards. This text is highlighted in grey and 119 cannot be changed – please do not comment on this text.
- 120 Underlined terms in the draft Standard indicate terms for which definitions have been provided. Most
- 121 of these terms are already defined in the <u>GRI Standards Glossary 2022</u> these definitions are
- highlighted in grey in the Glossary and cannot be changed. The proposed new definition is not
- 123 highlighted in grey and is open for review.

124 GRI CC: Climate Change 202X

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146 Introduction

147 *GRI CC: Climate Change 202X* contains disclosures for organizations to report information about their
 148 climate change-related <u>impacts</u>, and how they manage these impacts.

- 149 The Standard is structured as follows:
- Section 1 contains two disclosures, which provide information about how the organization manages its climate change-related impacts.
- Section 2 contains eight disclosures, which provide information about the organization's climate change-related impacts.
- The <u>Glossary</u> contains defined terms with a specific meaning when used in the GRI
 Standards. The terms are <u>underlined</u> in the text of the GRI Standards and linked to the
 definitions.
 - The <u>Bibliography</u> lists authoritative intergovernmental instruments and additional references used in developing this Standard.

159 The rest of the Introduction section provides a background on the topic, an overview of the system of 160 GRI Standards, and further information on using this Standard.

161 Background on the topic

- 162 This Standard addresses the topic of climate change.
- 163 The single biggest contributor to climate change is GHG emissions, the impacts of which are
- 164 occurring at an accelerated rate. Consequently, the United Nations Framework Convention on
- 165 Climate Change (UNFCCC) and the subsequent Kyoto Protocol and Paris Agreement were
- 166 implemented to govern the rate of GHG emissions.
- 167 By taking on the challenge of climate change, organizations have the responsibility of contributing to
- 168 climate change mitigation and adaptation. Organizations must address the impacts of their mitigation
- and adaptation actions, such as securing a just transition. In this context, organizations are expected
- to develop and implement transition and adaptation plans and ensure they align with just transition
- 171 principles.

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- 172 Climate change mitigation requires actions that reduce the rate of climate change and limit global
- warming to well below 2°C while pursuing efforts to limit it to 1.5°C above pre-industrial levels, as per
 the Paris Agreement.
- 175 Climate change adaptation refers to an organization's adjustments to current and anticipated climate 176 change stimuli and their effects.
- 177 Organizations are expected to apply the climate change mitigation hierarchy to inform their actions to
- 178 mitigate climate change. The mitigation hierarchy consists of a hierarchy of steps, in the following
- order of priority: avoidance, GHG emissions reduction, contribution to climate mitigation beyond the
- value chain, and counterbalancing residual GHG emissions. An organization should prioritize actions
 to avoid releasing GHG emissions into the atmosphere and reduce GHG emissions when avoidance
- 181 to avoid releasing GHG emission182 is not possible.
- 182 is not possible.
- 183 According to the Intergovernmental Panel on Climate Change (IPCC), organizations should urgently
- 184 implement all feasible technical and scientific actions across all sectors to limit global warming to
- 185 1.5°C. As such, organizations are expected to set and report short- and long-term GHG emissions
- reduction targets and, on an annual basis, disclose emissions inventories and transition plan
- 187 progress.
- 188 Organizations are also expected to consider the interrelations of climate change with other
- 189 sustainable development topics, such as biodiversity or just transition. For example, climate change is
- 190 a direct driver of biodiversity loss, which in turn accelerates climate change processes. Moreover,

- addressing the challenge of climate change will result in fundamental restructuring in certain sectors
- 192 with shifts within and between economic sectors and regions. Organizations are expected to ensure
- 193 that their transition plans are in line with the principles of just transition.

194 System of GRI Standards

- 195 This Standard is part of the GRI Sustainability Reporting Standards (GRI Standards). The GRI
- 196 Standards enable an organization to report information about its most significant impacts on the
- economy, environment, and people, including impacts on their <u>human rights</u>, and how it manages
- 198 these impacts.
- 199 The GRI Standards are structured as a system of interrelated standards that are organized into three
- 200 series: GRI Universal Standards, GRI Sector Standards, and GRI Topic Standards (see Figure 1 in
- this Standard).

202 Universal Standards: GRI 1, GRI 2 and GRI 3

- 203 GRI 1: Foundation 2021 specifies the requirements that the organization must comply with to report in
- accordance with the GRI Standards. The organization begins using the GRI Standards by consulting
 GRI 1.
- 206 GRI 2: General Disclosures 2021 contains disclosures that the organization uses to provide
- information about its reporting practices and other organizational details, such as its activities,
 governance, and policies.
- 209 GRI 3: Material Topics 2021 provides guidance on how to determine material topics. It also contains
- 210 disclosures that the organization uses to report information about its process of determining material
- 211 topics, its list of material topics, and how it manages each topic.

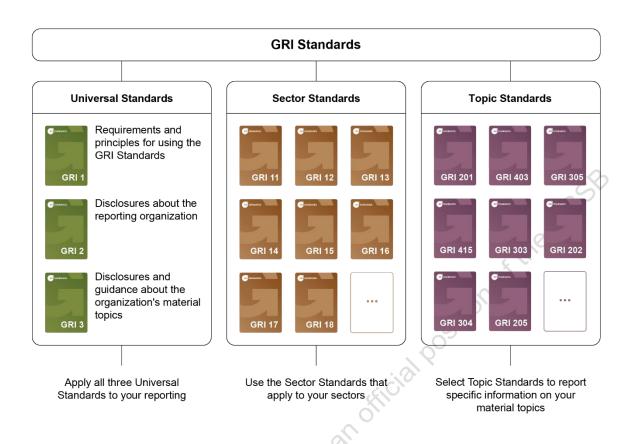
212 Sector Standards

- 213 The Sector Standards provide information for organizations about their likely material topics. The
- 214 organization uses the Sector Standards that apply to its sectors when determining its material topics
- and when determining what to report for each material topic.

216 **Topic Standards**

This doct

- 217 The Topic Standards contain disclosures that the organization uses to report information about its
- 218 impacts in relation to particular topics. The organization uses the Topic Standards according to the list
- 219 of material topics it has determined using <u>GRI 3</u>.
- 220 Figure 1. GRI Standards: Universal, Sector and Topic Standards



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Using this Standard 222

This Standard can be used by any organization - regardless of size, type, sector, geographic location, 223 224 or reporting experience - to report information about its Climate Change-related impacts. In addition 225 to this Standard, disclosures that relate to this topic can be found in GRI EN: Energy 202X, GRI 101: 226 Biodiversity 202X.

227 An organization reporting in accordance with the GRI Standards is required to report the following 228 disclosures if it has determined Climate Change to be a material topic:

- 229 Disclosure 3-3 in GRI 3: Material Topics 2021. 230 Any disclosures from this Topic Standard that are relevant to the organization's 231
 - Climate Change-related impacts (Disclosure CC-1 through CC-6).
- 232 See Requirements 4 and 5 in GRI 1: Foundation 2021.
- Reasons for omission are permitted for these disclosures. 233
- 234 If the organization cannot comply with a disclosure or with a requirement in a disclosure (e.g.,
- 235 because the required information is confidential or subject to legal prohibitions), the organization is
- 236 required to specify the disclosure or the requirement it cannot comply with, and provide a reason for
- 237 omission together with an explanation in the GRI content index. See Requirement 6 in GRI 1 for more
- 238 information on reasons for omission.

239 If the organization cannot report the required information about an item specified in a disclosure

240 because the item (e.g., committee, policy, practice, process) does not exist, it can comply with the 241 requirement by reporting this to be the case. The organization can explain the reasons for not having

- this item, or describe any plans to develop it. The disclosure does not require the organization to
- 243 implement the item (e.g., developing a policy), but to report that the item does not exist.
- 244 If the organization intends to publish a standalone sustainability report, it does not need to repeat
- 245 information that it has already reported publicly elsewhere, such as on web pages or in its annual
- report. In such a case, the organization can report a required disclosure by providing a reference in
- the GRI content index as to where this information can be found (e.g., by providing a link to the web
- 248 page or citing the page in the annual report where the information has been published).
- 249 **Requirements, guidance and defined terms**
- 250 The following apply throughout this Standard:
- 251 Requirements are presented in **bold font** and indicated by the word 'shall'. An organization must
- comply with requirements to report in accordance with the GRI Standards.
- 253 Requirements may be accompanied by guidance.
- 254 Guidance includes background information, explanations, and examples to help the organization
- better understand the requirements. The organization is not required to comply with guidance.
- 256 The Standards may also include recommendations. These are cases where a particular course of
- action is encouraged but not required.
- 258 The word 'should' indicates a recommendation, and the word 'can' indicates a possibility or option.
- 259 Defined terms are <u>underlined</u> in the text of the GRI Standards and linked to their definitions in the 260 Glossary. The organization is required to apply the definitions in the Glossary.

1. Topic management disclosures 261

- 262 An organization reporting in accordance with the GRI Standards is required to report how it manages 263 each of its material topics. An organization that has determined Climate Change to be a material topic is required to report how it 264 265 manages the topic using Disclosure 3-3 in GRI 3: Material Topics 2021. The organization is also required to report any disclosures from this section (Disclosure CC-1 and Disclosure CC-2) that are 266 267 relevant to its climate change-related impacts.
- This section is, therefore, designed to supplement and not replace Disclosure 3-3 in GRI 3. 268

Disclosure CC-1 Transition plan for climate change 269 ition of th

- mitigation 270
- REQUIREMENTS 271
- 272 The organization shall:
- a. report transition plan-related policies and actions; 273
- 274 b. describe how the transition plan is in line with the latest scientific evidence on the global effort needed to limit global warming to 1.5° C, including methodologies and assumptions 275 276 used:
- 277 c. report the investment allocated to the implementation of the transition plan during the reporting period as the total amount and as a percentage of the total investment in the 278 279 reporting period;
- d. report the bodies or individual roles responsible for overseeing and implementing the 280 transition plan, including a description of their responsibilities; 281
- 282 e. describe how the transition plan is embedded in the organization's overall business strategy;
- 283 f. report the targets set to achieve the transition plan and progress toward the targets, 284 including:
 - i. Gross GHG emission reduction targets to be reported according to Disclosure CC-4 of this Standard:
 - ii. Targets to phase out fossil fuels, including the base year and standards, methodologies, and assumptions used to calculate the targets;
 - iii. If any other climate change mitigation targets are set, describe how these were set, the boundaries, the base year, and their role within the transition plan;
- 291 g. describe how engagement with stakeholders has informed the transition plan;
- 292 h. describe the impacts that may result from the organization's transition plan, and the 293 actions taken to manage the impacts, including:
 - i. on workers, local communities, and vulnerable groups to be reported according to **Disclosure CC-3** of this Standard;
 - ii. on biodiversity;
- 297 describe how its public policy activities, including lobbying activities, are consistent with i. 298 the transition plan;
- describe the reasons why a transition plan is not in place, if applicable, and explain the 299 i. steps being taken and the expected time frame to develop it. 300
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302 GUIDANCE

The transition plan for climate change mitigation is an organization's overall strategy, containing actions, policies, resources, accountability mechanisms, and targets concerning the global effort needed to limit global warming.

306 Guidance to CC-1-a

- 307 This requirement covers a high-level overview of actions taken relating to the transition plan.
- 308

309 Transition plan-related policies can include:

- opolicy on energy usage;
- 911 policy on deforestation;
- policy on climate-related requirements for suppliers;
- review policy of the plan.
- 314 <u>Disclosure 2-23 in *GRI 2: General Disclosures 2021* requires reporting the organization's policy</u>

commitments. If the organization has described the policies linked to its transition plan under
 Disclosure 2-23, it can provide a reference to this information.

- In addition, the organization should describe how its transition plan is intended to address impacts on
 the economy, environment, and people associated with transition risks and opportunities.
- 319 Transition risks can include changes in customer behaviors, enhanced regulatory landscape, and
- 320 increased costs. Transition opportunities can include diversification of business activities, the use of
- 321 more efficient production and transportation processes, and the use of new technologies.
- The climate change-related risks and opportunities covered in this disclosure can be informed by analysis already performed by the organization for other regulatory frameworks and standards.
- 324 Transition risks can have negative impacts on people, such as on workers and local communities. For
- 325 example, changes in consumer behavior can lead to a reduction in sales volume and a loss of
- 326 revenue for the organization, resulting in job loss. To mitigate these potential impacts, organizations
- 327 can align with consumer preferences toward more sustainable products and plan changes to their
- 328 product portfolios, avoiding revenue loss and protecting jobs. Furthermore, transition risks can have 329 negative impacts also on biodiversity.

330 Guidance to CC-1-b

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- When describing how the plan aligns with the latest scientific evidence on the global effort needed to limit global warming to 1.5°C, the organization should disclose how the transition plan is aligned with the mitigation hierarchy, including:
- avoiding emitting GHGs by transitioning from fossil fuels to non-emitting energy sources,
 such as renewables;
 - reducing GHG emissions by, for example, improving energy efficiency;
 - deploying GHG removal methods to counterbalance residual GHG emissions after the organization has reduced its gross GHG emissions by at least 90%.
- In addition, the organization should disclose which climate and policy scenarios were used to develop
 the transition plan. When developing a transition plan, organizations should include at least a scenario
 compatible with the Paris Agreement. A scenario compatible with the Paris Agreement will require a
 temperature rise well below 2°C while pursuing efforts to limit the temperature rise to 1.5°C. See The
 Use of Scenario Analysis in Disclosure of Climate-Related Risks and Opportunities from the Task
 Force on Climate-related Financial Disclosures (TCFD) for more guidance.
- The organization should also explain if it assesses and considers how transition risks and future developments, such as changes in sales volumes or mergers and acquisitions, can have impacts on the organization's transition plan compatibility with the 1.5°C pathway.

348 Guidance to CC-1-c

- 349 The organization should report the investment allocated for the transition plan implementation as the
- total amount of capital expenditure (CapEx) and as the percentage of CapEx allocated for implementing the transition plan of the total CapEx planned.
- To calculate the percentage of CapEx allocated for the implementation of the transition plan, an organization can apply the following formula:
- 354 $\% = \frac{CapEx \ allocated \ to \ the \ transition \ plan}{Total \ CapEx \ planned \ in \ the \ reporting \ period}$
- The organization can also develop different investment metrics, including operational expenditure (OpEx) information or other relevant information.
- The organization should explain how the transition plan is factored into the organization's financial planning and whether the highest governance body and senior executives have approved the funding.
- In addition, to ensure transparency on the weight of the investments for the implementation of the transition plan within an organization's overall investment strategy, the organization can report:
- CapEx amounts invested in fossil fuel-related activities.
- Total CapEx planned in the reporting period.

363 Guidance to CC-1-d

- 364 Under this requirement, the organization should report:
- whether the highest governance body is responsible for overseeing the transition plan and what is included in this responsibility, for example, approving the transition plan, reviewing and monitoring it, and ensuring that the transition plan aligns with the principles of just transition (see <u>Disclosure CC-3 Just transition</u> for further information);
- whether senior executives are responsible for implementing the transition plan and what this
 responsibility includes.
- Disclosure 2-12 and Disclosure 2-13 in *GRI 2: General Disclosures 2021* require reporting the highest
 governance body's role in overseeing the management of impacts and the delegation of responsibility
 for managing impacts. If the organization has described the roles and responsibilities of the bodies
 involved in overseeing and implementing the transition plan under Disclosures 2-12 and 2-13, it can
 provide a reference to this information.

376 Guidance to CC-1-e

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- 377 The organization should report the following:
- whether and how the responsibility to manage climate change-related impacts is linked to performance assessments or incentive mechanisms. This includes whether and how the remuneration policies for the highest governance body members and senior executives are linked to the management of impacts that result from the organization's transition plan. In addition, the organization can disclose whether the performance of the highest governance body members is assessed against the GHG emissions reduction targets reported under Disclosure CC-3 and if dividend distribution is subject to the achievement of the targets;
 - Now research and development activities are aligned with its transition plan;
- planned changes to the organization's portfolio of products and services to deliver the
 transition plan. This includes plans to reduce the portfolio of high-carbon products and
 services and increase the portfolio of low-carbon products and services that it provides, either
 directly or indirectly;
- actions taken to build a culture aligned with its transition plan, including how leadership and training programs, human resources policies and procedures, workforce engagement, human rights due diligence, and remedy processes are aligned to its transition plan and in consideration of its impacts;

if an internal carbon pricing scheme is in place, a description of it, including which of the
 organization's GHG emissions sources are covered by the scheme and the prices used per
 metric ton of CO₂.

397 <u>Disclosure 2-19 in *GRI 2: General Disclosures 2021* requires reporting the remuneration policies for 398 members of the highest governance body and senior executives. If the organization has described the 399 incentive mechanisms linked to the management of impacts that result from the organization's 400 transition plan under Disclosure 2-19, it can provide a reference to this information.</u>

401 Guidance to CC-1-f

- 402 When reporting progress toward the goals and targets, the organization should include known gaps or 403 barriers in target achievement and, if applicable, the role of locked-in emissions.
- 404 Locked-in emissions are estimates of future GHG emissions likely caused by an organization's key 405 assets or products sold within its operating lifetime. The organization should:
- report a qualitative assessment of the potential locked-in GHG emissions from its key assets and products;
- 408
 if applicable (e.g., in the oil and gas sector), report a quantitative assessment of the locked-in
 409
 GHG emissions from its assets and products; and
- report how these emissions may jeopardize the achievement of GHG emissions reduction
 targets and plans to manage GHG-intensive assets and products.

412 Guidance to CC-1-f-iii

- The organization can report under <u>CC-1-f-iii</u>, for example, net-zero emissions, energy efficiency, and renewable energy targets.
- 415 If the organization reports net-zero targets, GHG removals within and beyond the value chain must
- 416 only be used to counterbalance residual emissions as the last step of the mitigation hierarchy.
- 417 According to the Corporate Net Zero Standard from the Science Based Targets initiative (SBTi),
- 418 organizations are expected to counterbalance residual emissions at the net-zero target year or after
- 419 having reduced at least 90% of their GHG emissions when further reduction is not possible.
- 420 According to the Net Zero Scenario from the IEA and Corporate Net Zero Standard from the SBTi,
- 421 residual emissions refer to the unabated GHG emissions after the organization has reduced at least
- 422 90% of its GHG emissions. If an organization is subjected to sectorial decarbonization pathways, it
- 423 may be subjected to a different percentage of GHG emissions reduction.
- Organizations can finance and contribute to additional climate change mitigation, for example, via
 GHG removals or carbon credits, in addition to their GHG emission reduction targets. These
 contributions are one of the steps of the mitigation hierarchy and are often referred to as beyond
 value chain mitigation or climate contributions. Such contributions cannot be accounted for in the
 GHG emissions reduction targets setting and progress reported under Disclosure CC-4 nor used to
- 428 GHG emissions reduction targets setting and progress reported under <u>Disclosure CC-4</u> nor used to 429 counterbalance residual emissions for reaching net-zero targets.
- For further information, see <u>Disclosure CC-5 Removals in the value chain</u> and <u>Disclosure CC-6</u>
 <u>Carbon credits of this Standard</u> and Corporate Net Zero Standard from the Science Based Targets
 initiative (SBTi).

433 Guidance to CC-1-g

- 434 The organization should report:
- how it identifies the stakeholders whose human rights, health, socio-economic well-being, or
 other interests may be affected as a result of implementing the transition plan;

- 437 how the organization engages with the identified stakeholders or their legitimate 438 representatives to understand their concerns and interests;
- how the insights from stakeholder engagement and possible partnerships with workers, trade 439 unions, worker representatives, suppliers, Indigenous Peoples, local communities, and 440 441 governments have informed strategies to prevent or mitigate negative impacts and maximize positive impacts resulting from the transition plan. 442

443 Guidance to CC-1-h

- 444 This requirement covers impacts on biodiversity and people, including human rights and 445 intergenerational equity, resulting from the organization's transition plan. The aim is to increase
- 446 transparency on how an organization's transition plan incorporates the principles of a just transition.
- 447 Requirements 3-3-a and 3-3-c in GRI 3: Material Topics 2021 entail the description of the
- 448 organization's impacts and the actions taken to manage the impacts. If the organization has described
- the impacts on the environment and people that may result from the organization's transition plan and 449
- the actions taken to manage them under requirements 3-3-a and 3-3-c, it can provide a reference to 450
- 451 this information.
- 452 The organization should also disclose any impacts associated with the failure to implement its 453 transition plan.

454 Guidance to CC-1-h-i

- According to the International Labour Organization (ILO), a just transition involves greening the 455
- 456 economy in a way that is as fair and inclusive as possible to everyone concerned, creating decent
- 457 work opportunities and leaving no one behind. A Just Transition involves maximizing the social and
- 458 economic opportunities of climate action, while minimizing and carefully managing any challenges -
- 459 including through effective social dialogue among all groups impacted, and respect for fundamental 460 labour principles and rights.

461 Guidance to CC-1-h-ii

- Actions to mitigate climate change can have positive impacts on biodiversity. For example, planting 462 463 mangroves can contribute to climate change mitigation by capturing and storing carbon and protecting 464 biodiversity by increasing wildlife populations. Actions to mitigate climate change can also result in 465 biodiversity loss. For example, forestation of an area with non-native species can mitigate climate
- 466 change by absorbing greenhouse gases, but it may also result in biodiversity loss.
- 467 Disclosure 101-2 in GRI 101: Biodiversity 202X requires describing how the organization enhances 468 synergies and reduces trade-offs between actions taken to manage its biodiversity impacts and its 469 climate change impacts. If the organization has described the impacts on biodiversity resulting from 470 its transition and the actions taken to manage those impacts under Disclosure 101-2, it can provide a 471 reference to this information.

472 Guidance to CC-1-i

- 473 The organization should report:
- 474 its stance on issues related to the transition plan, e.g., phasing out fossil fuels addressed in its 475 public policy activities;
- 476 • any differences between its public policy activities and its stated policies, goals, or other 477 public positions on issues related to its transition plan;
- 478 whether it is a member of or contributes to any representative associations or committees that 479 participate in public policy activities on issues related to its transition plan, including: 480
 - the nature of this contribution;

- 481 o any differences between the organization's stated policies, goals, or other public
 482 positions on significant issues related to its transition plan and the positions of the
 483 representative associations or committees.
- 484 Requirement CC-1-i is related to the recommendations in <u>GRI 415: Public Policy 2016</u>. The
- 485 organization can provide a reference to public policy activities related to its transition plan for climate 486 change mitigation when it has determined public policy to be a material topic and has reported This document does not represent an official position of the cases 487 information in GRI 415.

488 **Disclosure CC-2 Climate change adaptation**

- 489 **REQUIREMENTS**
- 490 **The organization shall**:
- 491 a. describe its impacts on the economy, environment, and people, associated with its climate
 492 change-related risks and opportunities;
- 493 b. describe its climate change adaptation plan, including:
- 494 i. policies and actions;
 - ii. the climate change-related scenarios, methodologies, and assumptions used;
 - iii. the investment allocated for the implementation of the adaptation plan during the reporting period as the total amount and as a percentage of the total investment in the reporting period;
 - iv. the bodies or individual roles responsible for overseeing and implementing the adaptation plan, including a description of their responsibilities;
- 501v. the targets set to achieve the adaptation plan and progress toward the goals and
targets;502targets;
 - vi. how engagement with stakeholders has informed the plan;
- 504 c. describe the impacts that may result from the organization's adaptation plan, and the 505 actions taken to manage the impacts, including:
 - i. on workers, local communities, vulnerable groups;
- 507 ii. on biodiversity;
- 508 **d.** describe the reasons why an adaptation plan is not in place, if applicable, and explain the 509 steps being taken and the expected time frame to develop it.
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- 511 GUIDANCE
- 512 Organizations contribute to climate change and are simultaneously affected by it. This disclosure 513 covers:
- impacts on the economy, environment, and people, associated with an organization's climate
 change-related risks and opportunities, for example, impacts on workers, local communities,
 and biodiversity.
 - an organization's adaptation plan;
- impacts of the implementation of the adaptation plan, as for example on workers, local communities, biodiversity.
- Adaptation refers to changes in processes, practices, and structures in response to actual or potential
 climate-related events and their impacts. Adaptation aims to mitigate potential negative impacts or
 leverage opportunities associated with climate change. For example, adaptation can include building
 flood defenses and redesigning business operations.
- 524 Under this disclosure, different impacts are reported in CC-2-a and CC-2-c:
- Under CC-2-a, the organization reports impacts associated with climate change-related risks
 and opportunities used to inform the adaptation plan.
- 527 Under CC-2-c, the organization reports the impacts associated with implementing the adaptation plan.

529 Guidance to CC-2-a

530 Under this requirement, the organization reports the impacts associated with its climate change-531 related risks and opportunities.

- 532 Climate change-related risks can be classified as physical or transition risks.
- 533 Physical risks can include increased frequency and severity of flooding and storms, rising mean 534 temperatures, precipitation and sea level changes, and drought.
- 535 Transition risks can include changes in customer behaviors, enhanced regulatory landscape, and 536 increased costs.
- 537 Impacts associated with physical risks are reported under this requirement. Examples of impacts 538 associated with physical risks include:
- impacts on workers' health due to extreme weather events (e.g., heat-related illness or disease);
- extreme weather events (e.g. hurricane) affecting energy companies and subsequetially
 resulting in lack of access to energy for the population;
- the loss of employment due to the need to relocate operations to a less flood-prone area.

544 In addition, only impacts associated with transition risks and opportunities relevant to the adaptation 545 plan are required to be reported under this disclosure. For example, regulatory changes such as 546 upcoming legislation are a type of transition risk that may influence the adaptation plan.

- 547 Opportunities related to climate change can include increased efficiency of production processes,
- reduced consumption of resources, access to new markets, integration of new technologies, and
- 549 diversification of the business portfolio. Impacts related to opportunities may include job creation,
- redefinition of existing jobs resulting in reskilling, and improvements in income through investments in environmentally sustainable production.
- 552 The climate change-related risks and opportunities covered in this disclosure can be informed by
- analysis already performed by the organization for other regulatory frameworks and standards.

554 Guidance to CC-2-b-i

- 555 The organization should include a description of the policies it has developed specifically to achieve 556 the adaptation plan and a high-level overview of actions taken.
- 557 The organization can report key adaptation actions by type, such as nature-based adaptation, 558 engineering, or technological solutions.
- 559 <u>Disclosure 2-23 in *GRI 2: General Disclosures 2021* requires reporting the organization's policy 560 commitments. If the organization has described the policies linked to its adaptation plan under 561 Disclosure 2-23, it can provide a reference to this information.</u>
- 562 In addition, the organization can describe how its adaptation plan contributes to sectoral, regional, or 563 national adaptation plans.

564 Guidance to CC-2-b-ii

- 565 Scenario analysis allows for the simultaneous consideration of alternative forms of future states
- 566 affected by climate change and can be used to explore climate change-related risks. Organizations
- 567 typically define scenarios according to the transition speed, expressed in the average global
- temperature changes. When developing an adaptation plan, organizations are expected to include a
- range of climate scenarios, including at least a high-emissions scenario and a scenario compatible
- 570 with the Paris Agreement. A scenario compatible with the Paris Agreement will require a temperature
- 571 rise well below 2°C while pursuing efforts to limit the temperature rise to 1.5°C. Other scenarios can
- be defined according to an organization's national context.
- 573 See The Use of Scenario Analysis in Disclosure of Climate-Related Risks and Opportunities from the 574 Task Force on Climate-related Financial Disclosures (TCFD) for more guidance.

- 575 Conducting climate change scenario analysis enhances transparency and assists organizations in
- 576 planning effective actions to prevent and mitigate potential negative impacts on the economy,
- 577 environment, and people, including on their human rights.
- 578 The impacts identified and reported under $\underline{CC-2-a}$ and the climate change scenario analysis inform 579 the organization's adaptation plan, reported under $\underline{CC-2-c}$.

580 Guidance to CC-2-b-iii

- 581 The organization should report the investment allocated for the adaptation plan implementation as the
- total amount of capital expenditure (CapEx) and as the percentage of CapEx allocated for
- 583 implementing the adaptation plan of the total CapEx planned.
- 584 To calculate the percentage of CapEx allocated for the implementation of the adaptation plan, an 585 organization can apply the following formula:
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 $\% = \frac{CapEx \ allocated \ to \ the \ adaptation \ plan}{Total \ CapEx \ planned \ in \ the \ reporting \ period}$

587 The organization can also develop different investment metrics, including operational expenditure 588 (OpEx) information or other relevant information.

589 Guidance to CC-2-b-iv

- 590 Under this requirement, the organization should report:
- whether the highest governance body is responsible for overseeing the adaptation plan and what is included in this responsibility, for example, approving the adaptation plan, reviewing it and monitoring it, implementing remedial actions if necessary, ensuring that the adaptation plan aligns with the principles of just transition (see <u>Disclosure CC-3 Just transition</u> for further information);
- whether senior executives are responsible for implementing the adaptation plan and what this responsibility includes.
- 598 <u>Disclosures 2-12 and 2-13 in *GRI 2: General Disclosures 2021* require reporting the highest 599 governance body's role in overseeing the management of impacts and the delegation of responsibility 600 for managing impacts. If the organization has described the roles and responsibilities of the bodies 601 involved in overseeing and implementing the adaptation plan under Disclosures 2-12 and 2-13, it can 602 provide a reference to this information.</u>

603 Guidance to CC-2-b-v

- 604 The organization should report how:
 - it identifies the stakeholders whose human rights, health, socio-economic well-being, or wider interests may be impacted as a result of implementing the adaptation plan;
- it engages with the identified stakeholders or their legitimate representatives to understand
 their concerns and interests;
- the outcomes from stakeholder engagement and possible partnerships with workers, trade
 unions and worker representatives, local communities, and suppliers have informed the
 development of the adaptation plan.

612 Guidance to CC-2-c

- 613 This requirement covers positive or negative impacts that may result from implementing the
- adaptation plan. If an adaptation plan is well managed, this can translate into positive impacts such as
- 615 economic development and local employment. However, an adaptation plan can also result in
- 616 negative impacts on the economy, environment, and people, including on their human rights.
- 617 Negative impacts associated with adaptation plans can include the relocation of a production site to a

- jurisdiction less prone to climatic weather events such as flooding. Jobs from the original productionsite will be eliminated due to the relocation.
- 620 The organization should also report any impacts associated with the failure to implement its
- adaptation plan. For example, an organization's failure to implement its adaptation plan may
- 622 exacerbate impacts such as disruptions in operations, increased occupational health and safety 623 impacts, loss of livelihood, and food insecurity.
- 624 Under <u>Requirements 3-3-a and 3-3-c in *GRI* 3: *Material Topics* 2021</u>, the organization is required to 625 describe the organization's impacts and the actions taken to manage the impacts. If the organization 626 has described the impacts on the economy, environment, and people that may result from the 627 organization's adaptation plan and the actions taken to manage them under 3-3-a and 3-3-c, it can
- 628 provide a reference to this information.

629 Guidance to CC-2-c-i

- 630 Examples of actions taken to manage the impacts on people that may result from the organization's 631 adaptation plan may include:
- supporting workers who lost their jobs due to relocation of operations to find new
 employment;
- investing and utilizing nature-based or technological solutions on-site, rather than production
 relocation, to prevent job elimination.

636 Guidance to CC-2-c-ii

637 Actions to adapt to climate change can have positive impacts on biodiversity. For example, planting

- 638 mangroves can contribute to climate change adaptation by controlling floods and protecting
- biodiversity by increasing wildlife populations. Actions to adapt to climate change can also result in
- 640 biodiversity loss. For example, forestation of an area with non-native species can contribute to climate

641 change adaptation by controlling erosion and flooding, but it may also result in biodiversity loss.

Disclosure 101-2 in *GRI 101: Biodiversity 202X* requires describing how the organization enhances

643 synergies and reduces trade-offs between actions taken to manage its biodiversity impacts and its

644 climate change impacts. If the organization has described the impacts on biodiversity resulting from

- its adaptation plan and the actions taken to manage those impacts under Disclosure 101-2, it can
- 646 provide a reference to this information.

647 **2. Topic disclosures**

An organization reporting in accordance with the GRI Standards is required to report any disclosures from this section (Disclosure CC-3 Just transition, Disclosure CC-4 GHG emissions reduction targets, Disclosure GH-1 Scope 1 Emissions, Disclosure GH-2 Scope 2 Emissions, Disclosure GH-3 Scope 3 Emissions, Disclosure GH-4 GHG Emissions intensity, Disclosure CC-5 GHG removals in the value

652 chain, Disclosure CC-6 Carbon Credits) that are relevant to its Climate Change-related impacts.

653 **Disclosure CC-3 Just transition**

- 654 **REQUIREMENTS**
- 655 The organization shall:



- 656a. report the total number of jobs created as a result of the organization's transition plan657and provide a breakdown of this total by temporary and permanent jobs and describe658the actions taken to determine that adequate remuneration is paid;
- 659 b. report the total number of jobs eliminated as a result of the organization's transition 660 plan and provide a breakdown of this total by temporary and permanent jobs;
- c. report the ratio of the total number of jobs that have been redeployed as a result of the
 organization's transition plan to the total number of jobs eliminated as a result of the
 organization's transition plan;
- 664 d. report the number of employees that received training for up- and reskilling as a result 665 of the implementation of the transition plan;
- 666 e. list the locations where the organization's transition plan has impacts on local 667 communities and Indigenous Peoples;
- 668 f. report the percentage of locations listed in CC-3-e in which an agreement has been 669 reached with local communities and Indigenous Peoples to safeguard their interests.
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- 671 GUIDANCE
- This disclosure covers both employment aspects that are relevant for workers and implications for other stakeholder groups such as local communities and Indigenous Peoples.

674 This disclosure enables organizations to report on the quantitative and qualitative aspects of jobs as a

675 result of the transition plan. Under the quantitative aspect, organizations report the jobs created,

- 676 eliminated, and redeployed. Under the qualitative aspect, organizations can report on the quality of 677 jobs by indicating whether they are permanent or temporary and if they provide adequate
- 678 remuneration.
- 679 Permanent jobs are those where a contract for an indeterminate period is given for full-time or part-680 time work. Temporary jobs are when a contract is given for a limited period and it ends when the 681 specific time period expires, or when the specific task or event that has an attached time estimate is
- 681 specific time period exp682 completed.
- 683 Several benchmarks are available for organizations to determine adequate remuneration, for 684 example, the minimum wage set by a competent national authority, cost of living estimates, wages set
- by collective bargaining agreements, or industry-standard wages applicable for a specific sector.

686 It is important that just transition safeguards the needs of local communities and Indigenous Peoples 687 and therefore, this disclosure also enables organizations to report if they have participated in the 688 emerging opportunities for the transition to a greener economy.

689 Guidance to CC-3-a

As a result of the organization's transition plan, jobs may be created due to the development of new
 low-carbon-intensive products, services, and infrastructure. Examples include jobs in renewable
 energy, energy efficiency, and adaptation projects.

Jobs created in the transition to a low-carbon economy are expected to provide adequate
 remuneration and ensure equal pay for work of equal value. When reporting the actions taken to
 determine whether adequate remuneration is provided, the organization can report that it:

- consults with worker representatives and employer organizations;
- relies on external research; or
- is part of local civil society initiatives to determine the cost of living estimates and compare it
 with the actual remuneration.

700 When reporting the information under CC-3-a, the organization should provide additional relevant

- When reporting the information under CC-3-a, the organization should provide additional relevant
 breakdowns, for example, by gender of those who fulfill the jobs created, the significant locations of
 operation
- 702 operation.

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703 Guidance to CC-3-b

Jobs may be eliminated – either phased out or massively reduced in numbers – without direct
 replacement as a result of the organization's transition plan. For example, when emitting and energy intensive economic activities are reduced or phased out entirely.

- A breakdown of temporary and permanent jobs eliminated will allow for comparison with the
- temporary and permanent jobs created and reported under CC-3-a.

709 When reporting the information required by CC-3-b, the organization should provide relevant

breakdowns, for example, by gender of those whose jobs have been eliminated and significant

711 locations of operation. The breakdown of jobs eliminated by location will allow comparison with jobs

712 created in those locations and reported under CC-3-a and enable an understanding of the net change

713 in employment in that location.

714 Guidance to CC-3-c

715 Redeployment occurs when, for example, existing employees working in emissions-intensive

- 716 economy are up-and-reskilled with the direct assistance of the organizations they work for, and
- 717 therefore they are able to continue working for those organizations in less emissions-intensive

718 activities. For example, an existing employee in automobile manufacturing can work in the production

719 line of electric cars. Redeployment can help organizations to reduce job elimination.

720 The following formula can be used to calculate the ratio required by CC-3-iii:

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$$Ratio = \frac{Number \ of \ jobs \ redeployed}{Number \ of \ jobs \ eliminated}$$

- 722 When reporting the information required by CC-3-c, the organization should provide relevant
- 523 breakdowns, for example, by gender of those who their jobs redeployed or eliminated and significant

724 locations of operation.

725 Guidance to CC-3-d

- 726 When reporting the information required by CC-3-d, the organization should provide relevant breakdowns, for example, by gender and significant locations of operation. 727
- 728 In addition to reporting the number of employees trained, the organization can also describe the
- 729 impact of the training. For an organization, the impacts of the training can include improved employee retention and improved market competitiveness, due to a skilled workforce to implement the transition 730 731 plan.

732 Guidance to CC-3-e

733 The organization provides specific locations within the countries (e.g., states, cities) where it has 734 operations, and its transition plan impacts the rights of local communities and Indigenous Peoples as set out in the UN Declaration on the Rights of Indigenous Peoples. 735

736 Guidance to CC-3-f

- 737 In the context of just transition, organizations need to engage with local communities and Indigenous
- 738 Peoples to prevent and mitigate potential and actual negative impacts. Agreements through free, prior
- 739 and informed consent (FPIC) that uphold rights and reflect the interests of Indigenous Peoples and
- local communities provide clear, sustainable and accountable outcomes of such engagements. This 740
- 741 requirement aims to understand the effectiveness of the organization's engagement actions with local
- 742 communities and Indigenous People. When reporting this requirement, the organization calculates the ad un ad un offici helpesent an offici tris document does not represent an offici tris document document document document document document tris document document document document document document tris document document document document document document document tris document docume
- 743 percentage of locations based on the list of locations reported under CC-3-e.

744 Disclosure CC-4 GHG emissions reduction target 745 setting and progress

746 **REQUIREMENTS**

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- 747 **The organization shall:**
- 748a. report gross GHG emissions reduction short-term and long-term targets in metric tons749of CO2 equivalent and as a percentage of the emissions of a base year, where:
 - i. Scope 1, Scope 2, and Scope 3 GHG emissions targets are reported separately or combined;
 - ii. A list of Scope 3 categories covered in the Scope 3 GHG emissions targets is included;
 - iii. A list of the gases covered in the targets is included;
 - iv. GHG removals, GHG trades, and avoided emissions are excluded;
- b. explain how the targets are in line with the latest scientific evidence on the global effort
 needed to limit global warming to 1.5° C;
- 758 c. report its target revision policy;
- 759 d. report the base year for the targets, including:
 - 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;
- 764iv. when there are recalculations of the base year emissions, and the current and765previously reported values;
- 766e. report the progress toward the targets using the inventory method, in metric tons of767CO2 equivalent and as a percentage of the emissions of a base year;
- 768f. explain how the progress for the targets was achieved, relative to the base year,769including whether it is due to:
 - i. reductions through the organization's initiatives;
 - ii. secondary effects through other organization's initiatives;
 - iii. external factors;
- 773g. report standards, methodologies, and assumptions used to calculate the targets and774progress, including a reference to any calculation tool used.
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776 GUIDANCE

- 777 This disclosure should be used in combination with <u>Disclosures GH-1</u>, <u>GH-2</u>, and <u>GH-3</u> of this
- Standard. The organization should ensure consistency between the target boundary and the inventoryboundary.
- 780 The organization should report whether an independent third party has validated the GHG emissions 781 reduction targets and the related emissions reduction progress.

782 Guidance to CC-4-a

- 783 The organization should include biogenic CO₂ emissions in the scope of its targets. The organization
- can refer to the GHG Protocol Corporate Accounting Standard and Land Sector and Removals
- 785 Guidance for further information.

- 786 In addition to reporting gross GHG emissions reduction targets for Scope 1, Scope 2, and Scope 3
- GHG emissions in metric tons of CO_2 equivalent and as a percentage of the emissions of a base year, 787
- 788 the organization can report intensity targets.
- 789 Organizations are expected to set short-term targets (e.g., for 2030), long-term targets (e.g., for
- 790 2050), and interim targets. For further information, the organization can refer to the United Nations
- 791 High-Level Expert Group on the Net Zero Emissions Commitments of Non-State Entities, 'Integrity
- 792 Matters: Net Zero Commitments by Businesses, Financial Institutions, Cities and Regions' Report.
- If significant changes could compromise the relevance and consistency of existing GHG emissions 793
- reduction targets, the organization should recalculate its targets to reflect those changes. For further 794
- 795 information, the organization can refer to SBTi Corporate Net Zero Standard.
- 796 The organization should also disclose the year in which the targets were set.

797 Guidance to CC-4-a-i

- When reporting combined GHG emissions reduction targets, the organization should specify which 798 799 scopes cover the combined target.
- 800 If the organization reports Scope 2 GHG emissions reduction targets using the market-based method,
- the organization is expected to also set and report separately Scope 2 GHG emissions reduction 801 802 targets using the location-based method.

803 Guidance to CC-4-a-ii

804 In the case a Scope 3 GHG emissions target does not cover all Scope 3 categories, the organization should report the percentage of Scope 3 categories covered by the target (reported under GH-3-a and 805 806 GH-3-c). The percentage can be calculated using the following formula:

807 Percentage (%) of Scope 3 emissions covered by the target

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Scope 3 emissions covered by the target

809 The organization should explain why any Scope 3 categories are excluded and describe actions taken to include all categories in the future. 810

 $= \frac{Gross Scope 3 emissions (GH - 3 - a) + Biogenic Scope 3 emissions (GH - 3 - c)}{100} * 100$

811 Guidance to CC-4-a-iv

- 812 GHG removals within the value chain, GHG trades, and avoided emissions cannot be included when
- 813 calculating an organization's gross GHG emissions reduction targets reported under this requirement. For further information, see Disclosures CC-5 GHG removals within the value chain and CC-6 Carbon 814
- 815 credits.
- 816 Avoided emissions fall under a separate accounting system from corporate inventories and do not 817 count toward GHG emission reduction targets.
- 818 The organization may be allowed to include GHG removals in the targets reported under this
- 819 requirement only if subjected to specific sector programs (e.g., the SBTi Forest, Land and Agriculture
- (FLAG) Guidance). The organization should report the sector program based on authoritative 820
- 821 scientific evidence.

822 Guidance to CC-4-b

- 823 The organization should report which guidance or framework has been used to determine the targets,
- including the underlying climate and policy scenarios. The organization should explain how it has 824
- considered future developments (e.g., changes in sales volumes, mergers, and acquisitions) and 825
- 826 transition risks (e.g., shifts in customer preferences and demand, regulatory factors, and new
- technologies) when setting the GHG emissions reduction targets. The organization should also 827
- explain how these developments and risks will potentially impact the ambition of the targets. 828

829 Guidance to CC-4-d-iii

- 830 Cases that should trigger a recalculation of base year emissions can include:
- structural changes in the reporting organization that have a significant impact on the organization's base year emissions, including mergers, acquisitions, divestments, outsourcing, and insourcing of emitting activities.
- changes in calculation methodology or improvements in the accuracy of emission factors or activity data that result in a significant impact on the base year emissions data.
- discovery of significant errors, or a number of cumulative errors, that are collectively
 significant. In such a case, the organization should also report the established processes to
 prevent such errors in future reporting.

839 Guidance to CC-4-e

- 840 When reporting the progress under CC-4-e, GHG removals, GHG trades, and avoided emissions are 841 excluded.
- Progress against GHG emissions targets can include reductions and increases in GHG emissions. To
 ensure transparency, an organization should report both reductions and increases in GHG emissions.
 When reporting separate targets for Scope 1, Scope 2, and Scope 3 GHG emissions, progress should
 be reported against each target the organization has set.
- 846 When calculating the progress against the targets, the inventory method is used, which compares 847 emissions to a base year.
- 848 When reporting the progress in metric tons of CO₂ equivalent, an organization should apply the 849 following formula:

Change in emissions = Current year emissions – Base year emissions

- 851 Further details on this method are available in the GHG Protocol Corporate Accounting Standard.
- When reporting the progress as a percentage of the emissions of a base year, an organization should apply the following formula:

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$$Progress (\%) = \frac{Change in emissions}{Base \ vear \ emissions} * 100$$

- The progress as a percentage can be reported as in the following example:
- 856 [Organization name] reduced Scope 1 and Scope 2 GHG emissions by 20% from a 2019 base year.
- In addition, the organization should also report the aggregated Scope 1, Scope 2, and Scope 3 GHG
 emissions changes relative to the aggregated base year Scope 1, Scope 2, and Scope 3 GHG
- 859 emissions.

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For an example of how to present information on requirements CC-4-a-i, CC-4-d-ii, and CC-4-e, see
 Table 1.

862 Table 1. Example template for presenting information on GHG emissions reduction targets

GHG emissions reduction targets	Scopes included	Scope 3 categories included	Gases	Base year	Base year emissions (MtCO ₂ e)	Target (%)	Progress (%)	Target (MtCO ₂ e)	Progress (MtCO ₂ e)	Target year
Gross emissions reduction targets 1										

Gross emissions reduction targets 2					
Gross emissions reduction targets 3					

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864 Guidance to CC-4-f

Progress in GHG inventory emissions can be reductions due to the organization's initiatives,
secondary effects due to other initiatives carried out by the organization, or changes due to external
factors.

- 868 Initiatives of the organization that result in reductions can include:
- process redesign;
- conversion and retrofitting of equipment;
- fuel switching;
- changes in behavior.
- 873 Secondary effects due to other initiatives of the organization that result in reductions or increases can 874 include:
- changes in production capacity;
- outsourcing.
- 877 Changes due to external factors that result in reductions or increases can include:
- decarbonization of the electricity grid caused by government policy;
- changes in consumer behavior, e.g., driving less;
 - decarbonization of purchased goods and services initiated by suppliers;
- reduced emissions from waste disposal due to waste governmental policies.

Disclosure GH-1 Scope 1 GHG emissions

883	RE	QUIREMENTS
884	Th	e organization shall:
885 886	a.	report gross Scope 1 GHG emissions in metric tons of CO₂ equivalent, and in the calculation:
887 888 889 890 891 892		 include CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃; ii. include biogenic non-CO₂ GHG emissions from the combustion or biodegradation of biomass from owned or controlled operations; iii. exclude GHG trades, GHG removals, and avoided emissions; iv. use the global warming potential (GWP) values based on a 100-year timeframe from the latest IPCC assessment reports;
893 894	b.	provide a breakdown of gross Scope 1 GHG emissions by CO ₂ , CH ₄ , N ₂ O, HFCs, PFCs, SF ₆ , and NF ₃ , in metric tons and in metric tons of CO ₂ equivalent;
895 896 897	c.	report biogenic CO ₂ emissions from the combustion or biodegradation of biomass from owned or controlled operations in metric tons, separately from gross Scope 1 GHG emissions;
898	d.	report the base year for the calculation, including:
899 900 901 902 903 904		 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; iv. when there are recalculations of the base year emissions, and the current and formerly reported values;
905 906	e.	report the consolidation approach for emissions, whether equity share, financial control, or operational control;
907 908	f.	report standards, methodologies, and assumptions, including the source of the emission factors and calculation tools used.
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910	GL	IIDANCE S
911 912		oss Scope 1 GHG emissions include, but are not limited to, the CO ₂ emissions from energy nsumption as reported in Requirement EN-2-a in <i>GRI EN: Energy 20xx</i> .
913 914		oss Scope 1 GHG emissions can come from the following operations owned or controlled by an ganization:
915 916 917 918 919 920 921 922 923 924 925 926 927	~	 Generation of electricity, heating, cooling, and steam – these emissions result from the combustion of fuels in stationary sources, such as boilers, furnaces, and turbines – and from other combustion processes such as flaring; Physical or chemical processing – most of these emissions result from the manufacturing or processing of chemicals and materials, such as cement, steel, aluminum, ammonia, and waste processing; Transportation of materials, products, waste, workers, and passengers – these emissions result from the combustion of fuels in mobile combustion sources owned or controlled by the organization, such as trucks, trains, ships, airplanes, buses, and cars; Fugitive emissions – these emissions result from intentional or unintentional releases of GHGs. These include equipment leaks from joints, seals, packing, and gaskets; methane (CH₄) emissions from coal mines and venting; hydrofluorocarbon (HFC) emissions from refrigeration and air conditioning equipment; and CH₄ leakages.

928 Guidance to GH-1-a

- All seven gases covered by the Kyoto Protocol are included in the gross Scope 1 GHG emissions calculation.
- 931 Emissions from other GHGs, such as the Montreal Protocol gases, can be reported by the 932 organization separately from gross Scope 1 GHG emissions.
- 933 Where it aids transparency or comparability over time, the organization can provide additional 934 breakdowns of gross Scope 1 GHG emissions by, for example:
- business unit or facility;
- 936 country;
- type of source (stationary and mobile combustion, process emissions, fugitive emissions);
- type of activity.
- 939 To present the information for this requirement, see Table 5.
- 940 The gross Scope 1 GHG emissions calculation excludes GHG removals and GHG trades.
- 941 GHGs emitted during Scope 1 removal activities is reported under GH-1-a. If there are Scope 2 or
- Scope 3 emissions associated with Scope 1 removal activities, they are reported under GH-2-a and
- 943 GH-3-a.

944 Guidance to GH-1-a-iv

- 945 The organization is required to use the latest Intergovernmental Panel on Climate Change (IPCC)
- global warming potential (GWP) values. If the organization used different IPCC GWP values in
- 947 previous reporting periods, it should disclose the IPCC GWP values used in each reporting period.
- 948 The organization should consistently apply GWP values for the information disclosed.

949 Guidance to GH-1-b

- 950 The organization is required to report emissions data for all seven gases separately. If the
- 951 organization cannot report the emissions data for each gas, it is required to provide a reason for 952 omission. See Requirement 6 in *GRI 1 Foundation 2021*.
- 953 To present the information for this requirement, see Table 6.

954 Guidance to GH-1-c

As per the GHG Protocol Corporate Standard, biogenic non- CO_2 emissions, such as CH_4 and nitrous oxide (N₂O), from the combustion or biodegradation of biomass from owned or controlled operations are reported under GH-1-a as part of the gross Scope 1 GHG emissions. Biogenic CO_2 emissions from the combustion or biodegradation of biomass from owned or controlled operations are reported separately under GH-1-c and not included in the gross Scope 1 GHG emissions calculation in GH-1a.

961 To present the information for this requirement, see Table 5.

962 Guidance to GH-1-d

- As specified in the comparability principle in <u>*GRI 1: Foundation 2021*</u>, the organization should present the information for the current reporting period and at least two previous reporting periods.
- 965 The organization should report the emissions consistently according to the selected recalculation 966 policy when there are recalculations of the base year emissions.
- 967 Cases that should trigger a recalculation of base year emissions can include:

- 968 structural changes in the reporting organization that have a significant impact on the • 969 organization's base year emissions, including mergers, acquisitions, divestments, 970 outsourcing, and insourcing of emitting activities.
- changes in calculation methodology or improvements in the accuracy of emission factors or 971 972 activity data that result in a significant impact on the base year emissions data.
- discovery of significant errors, or a number of cumulative errors, that are collectively 973 • significant. In such a case, the organization should also report the established processes to 974 prevent such errors in future reporting. 975
- 976 For further information on recalculations of emissions in prior reporting periods, the organization can follow the approach in the GHG Protocol Corporate Standard. 977
- 978 In the case where the organization has reported the base year according to the Disclosure CC-4 GHG emissions reduction targets and progress, the organization can refer to that disclosure and does not 979 tion of the 980 need to repeat the information.

981 Guidance to GH-1-d-ii

- 982 This requirement covers separate base year emissions data for:
- 983 gross Scope 1 GHG emissions (GH-1-a);
- 984 biogenic CO₂ emissions (GH-1-c).

985 Guidance to GH-1-e

- The organization should select a consistent approach for consolidating gross Scope 1 GHG 986
- 987 emissions, choosing from the equity share, financial control, or operational control methods outlined in 988 the GHG Protocol Corporate Standard. The approach should be consistent throughout the GHG 989 inventory. The organization should explain the reason for choosing the consolidation approach.
- 990 The organization should report GHG emissions for the same group of entities included in its financial 991 reporting. If the group of entities included in its financial reporting differs from the one included in its 992 sustainability reporting, the organization is required to specify any differences in Disclosure 2-2 in GRI 993 2: General Disclosures 2021. See also section 5.1 in GRI 1: Foundation 2021.
- 994 If there are any changes in the organizational boundaries, the organization should report these 995 changes.

996 Guidance to GH-1-f

- 997 Methodologies used to calculate the gross Scope 1 GHG emissions can include:
- 998 direct measurements of GHG emissions; •
- 999 calculation of GHG emissions based on activity data (i.e., fuel use) and emission factors. •
- 1000 The organization should describe the reasons why the standards, methodologies, assumptions, and 1001 calculation tools used were chosen.
- 1002 The emission factors can originate from mandatory reporting requirements, voluntary reporting
- 1003 frameworks, industry groups, scientific papers, commercial data providers, or suppliers to the 1004 reporting organization.
- 1005 The organization should consistently apply emissions factors for the information disclosed.

1006 **Disclosure GH-2 Scope 2 GHG emissions**

- 1007 REQUIREMENTS 1008 The organization shall: 1009 report gross location-based and, if applicable, market-based Scope 2 GHG emissions in a. 1010 metric tons of CO₂ equivalent, and in the calculation: 1011 i. include CO₂, CH₄, N₂O; ii. include biogenic non-CO₂ emissions from electricity use; 1012 iii. exclude GHG trades, GHG removals, and avoided emissions. 1013 1014 iv. use the global warming potential (GWP) values based on a 100-year timeframe from the latest IPCC assessment reports; 1015 1016 b. provide a breakdown of gross location-based and, if applicable, market-based Scope 2 1017 GHG emissions by CO_2 , CH_4 , N_2O_1 , in metric tons and metric tons of CO_2 equivalent; 1018 report location-based and, if applicable, market-based biogenic CO₂ emissions from C. electricity use in metric tons, separately from gross Scope 2 GHG emissions; 1019 1020 d. report the base year for the calculation, including: 1021 the rationale for choosing it; i 1022 ii. emissions in the base year; iii. the context for any significant changes in emissions that triggered 1023 recalculations of base year emissions; 1024 iv. when there are recalculations of the base year emissions, and the current and 1025 1026 former values: 1027 e. report the consolidation approach for emissions, whether equity share, financial control, 1028 or operational control; 1029 f. report standards, methodologies, and assumptions, including the source of the emission 1030 factors and calculation tools used. 1031
 - 1032 GUIDANCE

Gross Scope 2 GHG emissions include, but are not limited to, the CO₂ emissions from the generation
of purchased or acquired electricity, heating, cooling, and steam consumed by an organization –
disclosed as specified in Requirement EN-2-c in *GRI EN: Energy 20xx*. For many organizations, the
Scope 2 GHG emissions that result from the generation of purchased electricity can be much greater
than the Scope 1 GHG emissions.

1038 Guidance to GH-2-a

1039 This requirement covers CO₂, CH₄, and N₂O, the GHGs which occur from energy production 1040 processes (e.g. combustion) and are relevant for the gross Scope 2 GHG emissions calculation. If the 1041 organization does not have information on all the gases, it is required to provide a reason for 1042 omission. See Requirement 6 in GRI 1: Foundation 2021.

- 1043 Other GHGs which are emitted directly in the energy production process (e.g. combustion) and 1044 covered by the Kyoto Protocol can also be reported, if relevant.
- 1045 Emissions from other GHGs, such as the Montreal Protocol gases, can be reported by the 1046 organization separately from gross Scope 2 GHG emissions.
- 1047 Where it aids transparency or comparability over time, the organization can provide additional 1048 breakdowns of gross Scope 2 GHG emissions by, for example:

1049 1050 1051 1052	 business unit or facility; country; type of source (electricity, heating, cooling, and steam); type of activity.
1053	There are two methods to calculate gross Scope 2 GHG emissions:
1054 1055 1056 1057 1058 1059 1060	 A location-based method, which reflects the average GHG emissions intensity of grids on which energy consumption occurs, using mostly grid-average emission factor data. A market-based method, which reflects emissions from the electricity that an organization has purposefully chosen (or its lack of choice). It derives emission factors from contractual instruments, including any contract between two parties for the sale and purchase of energy bundled with attributes about the energy generation or for unbundled attribute claims.
1060	Market-based method is applicable to organizations with operations in markets providing product or supplier-specific data in the form of contractual instruments.
1062 1063 1064 1065	According to the <i>GHG Protocol Scope 2 Guidance</i> , in a market-based calculation, emission factors should be chosen based on the following hierarchy: energy attributes and certificates, contracts for electricity, supplier and utility emission rates, residual mix and other regional, subnational and national grid average emissions factors.
1066 1067	In case the organization reports information obtained using the market-based method, the following quality criteria, built on the <i>GHG Protocol Scope 2 Guidance</i> , apply:
1068 1069 1070 1071 1072 1073 1074	 Contractual instruments must convey the GHG emission rate attribute associated with the MWh produced. Attributes are defined as descriptive or performance characteristics of a particular generation resource. Each contractual instrument must be the only source of an GHG emission rate attribute claim associated with its quantity of energy generation. A contractual instrument must be tracked and redeemed, retired, or canceled by or on behalf of the reporting organization.
1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088	 Contractual instruments must have temporal and physical connections to their associated energy consumption by demonstrating that they are: sourced from a region reasonably linked to where it is applied, preferably from the same grid market; issued and redeemed as close as possible to the energy consumption period to which the contractual instrument is applied; or based on certifications that demonstrate energy users may have benefitted from zero emissions electricity during the same hour to match all of their consumption on a 24-hours a day, seven days a week basis; Utility-specific emission factors should be calculated, including certificates retired on behalf of customers and applying the residual mix rate to null power. All instruments must be transferred to the reporting organization for direct purchasing or onsite generation. A residual mix must be used to represent the GHG intensity of unclaimed or publicly shared electricity.
1089 1090 1091	For further information on the quality criteria for gross Scope 2 GHG emissions accounting following the market-based method and how to support accurate accounting if the organization cannot meet the Scope 2 quality criteria, see the <i>GHG Protocol Scope 2 guidance</i> .
1092 1093 1094 1095	If a residual mix is unavailable, the organization can use grid-average emission factors as a proxy which can mean that the location-based and market-based are the same number until information on the residual mix is available. The organization should disclose if a residual mix is unavailable and if grid-average emission factors are used as a proxy.

In addition, and if applicable, the organization should disclose which types of market-based
contractual instruments it uses, e.g., power purchase agreements, utility green tariffs, unbundled
certificates, and the percentage of purchased electricity covered by each instrument. The organization
can report additional information on the contractual arrangements, for example:

- the date that the renewable generation facility was commissioned or repowered;
- whether the renewable generation facility receives government subsidies or other
 support;
- the length of the contract for the contractual instruments;
- whether the contract was signed before the investment decision to build the renewable
 generation facility.
- 1106 To present the information for this requirement, see Table 5.

1107 Guidance to GH-2-a-iv

1108 The organization is required to use the latest Intergovernmental Panel on Climate Change (IPCC)

- 1109 global warming potential (GWP) values. If the organization used different IPCC GWP values in
- 1110 previous reporting periods, it should disclose the IPCC GWP values used in each reporting period.
- 1111 The organization should consistently apply GWP values for the information disclosed.

1112 Guidance to GH-2-b

- 1113 The organization is required to report emissions data for all seven gases separately. If the
- organization cannot report the emissions data for each gas, it is required to provide a reason for
 omission. See <u>Requirement 6 in *GRI 1: Foundation 2021*</u>.
- 1116 To present the information for this requirement, see Table 6.

1117 Guidance to GH-2-c

- 1118 Electricity use refers to the use of purchased electricity, heating, cooling, and steam.
- 1119 As per the GHG Protocol Corporate Standard and GHG Protocol Scope 2 Guidance, any biogenic
- 1120 non-CO₂ emissions such as methane (CH₄) or nitrous oxide (N₂O) from electricity use (e.g., biomass
- 1121 combustion in the electricity value chain) are to be reported under GH-2-a. The information required
- 1122 under GH-2-c is reported separately and not included in the gross Scope 2 GHG emissions
- 1123 calculation in GH-2-a.
- 1124 To present the information for this requirement, see Table 5.

1125 Guidance to GH-2-d

- As specified in the comparability principle in <u>*GRI 1: Foundation 2021*</u>, the organization should present the information for the current reporting period and at least two previous reporting periods.
- 1128 For further information on recalculations of emissions in prior reporting periods, the organization can 1129 refer to the Guidance to GH-1-d in this Standard and the GHG Protocol Corporate Standard.
- 1130 If the organization has reported the base year under Disclosure CC-4 GHG emissions reduction
- 1131 <u>targets and progress</u> (CC-4-d), it can provide a reference to this information and does not need to 1132 repeat the information.
- 1133 Guidance to GH-2-d-ii
- 1134 This requirement covers separate base year emissions data for:
- gross Scope 2 GHG emissions (GH-2-a);
- biogenic CO₂ emissions (GH-2-c).

1137 Guidance to GH-2-e

- 1138 The organization should select a consistent approach for consolidating gross Scope 2 GHG
- emissions, choosing from the equity share, financial control, or operational control methods outlined in
- the GHG Protocol Corporate Standard. The approach should be consistent throughout the GHG
- 1141 inventory. The organization should explain the reason behind choosing the consolidation approach.

1142 The organization should report information on GHG emissions for the same group of entities included

1143 in its financial reporting. If the group of entities included in its financial reporting differs from the one

- included in its sustainability reporting, the organization is required to specify any differences. See
- 1145 <u>section 5.1 in *GRI 1 Foundation 2021*</u> and <u>Disclosure 2-2 in *GRI 2: General Disclosures 2021*</u>.
- 1146 If there are any changes in the organizational boundaries, the organization is required to report these 1147 changes.

1148 Guidance to GH-2-f

- 1149 The organization should describe the reasons why the standards, methodologies, assumptions, and 1150 calculation tools used were chosen.
- 1151 The emission factors can originate from mandatory reporting requirements, voluntary reporting
- 1152 frameworks, industry groups, or specialized data providers.
- 1153 The organization should consistently apply emissions factors for the information disclosed.

1154 **Disclosure GH-3 Scope 3 GHG emissions**

- 1155 **REQUIREMENTS**
- 1156 **The organization shall:**
- 1157a. report gross Scope 3 GHG emissions in metric tons of CO2 equivalent, and in the1158calculation:
- 1159 i. include upstream and downstream categories;
- 1160 ii. include CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃;
- 1161iii. include biogenic non-CO2 emissions from the combustion or biodegradation of
biomass;
 - iv. exclude GHG trades, GHG removals, and avoided emissions;
 - v. use the global warming potential (GWP) values based on a 100-year timeframe from the latest IPCC assessment reports;
- b. provide a breakdown of gross Scope 3 GHG emissions by each of the 15 Scope 3
 categories in metric tons of CO₂ equivalent;
- report, total biogenic CO₂ emissions from the combustion or biodegradation of biomass in metric tons separately from gross Scope 3 GHG emissions, and a breakdown of this total by each of the 15 Scope 3 categories;
- 1171 d. report the base year for the calculation, including:
 - i. the rationale for choosing it;
- 1173 **ii.** emissions in the base year;
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 - iv. when there are recalculations of the base year emissions, and the current and former values;
- e. report standards, methodologies, and assumptions, including for each of the 15 Scope 3
 categories, the sources of the emission factors, and calculation tools used.
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1181 GUIDANCE

- 1182 Gross Scope 3 GHG emissions are indirect greenhouse gas emissions that occur outside the
- organization, including upstream and downstream emissions, other than those covered in gross
 Scope 2 GHG emissions.
- 1185 For many organizations, Scope 3 GHG emissions can be much greater than Scope 1 or Scope 2 1186 GHG emissions.
- 1187 Gross Scope 3 GHG emissions can come from, but are not limited to, extracting and producing
- 1188 purchased materials, transporting purchased fuels in vehicles not owned or controlled by the
- 1189 organization, and the end use of products and services. Gross Scope 3 GHG emissions can also
- 1190 come from decomposing the organization's waste. Process-related emissions during the manufacture 1191 of purchased goods and fugitive emissions in facilities not owned by the organization can also
- 1192 produce Scope 3 GHG emissions.
- 1193 Gross Scope 3 GHG emissions include, but are not limited to, the CO₂ emissions from energy 1194 consumption as reported under Requirement EN-3-a in *GRI EN: Energy 20xx*.

1195 Guidance to GH-3-a

- 1196 As detailed in the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting
- 1197 Standard, the organization is required to use the following 15 upstream and downstream categories to 1198 calculate gross Scope 3 GHG emissions:

1199 Upstream categories

- 1200 1. Purchased goods and services
- 1201 2. Capital goods
- 1202 3. Fuel- and energy-related activities (not included in gross Scope 1 or Scope 2 GHG emissions)
- 1203 4. Upstream transportation and distribution
- 5. Waste generated in operations 1204
- 6. Business travel 1205
- 7. Employee commuting 1206
- 1207 8. Upstream leased assets

1208 Downstream categories

- 1209 9. Downstream transportation and distribution
- 10. Processing of sold products 1210
- 11. Use of sold products 1211
- 1212 12. End-of-life treatment of sold products
- 1213 13. Downstream leased assets
- 1214 14. Franchises
- 1215 15. Investments
- 1216
- ion of the GSSE 1217 All seven gases covered by the Kyoto Protocol are included in the gross Scope 3 GHG emissions

calculation. If the organization does not have data on all the gases, it should refer to Requirement 6 in 1218 1219 GRI 1: Foundation 2021 to provide a reason for the omission.

- 1220 Emissions from other GHGs, such as the Montreal Protocol gases, can be reported by the 1221 organization separately from gross Scope 3 GHG emissions.
- 1222 To present the information for this requirement, see Table 5.
- 1223 GHG emissions associated with Scope 3 removal activities within an organization's inventory
- boundary are reported under GH-3-a. If there are Scope 1 or Scope 2 GHG emissions associated 1224
- with Scope 3 removal activities, they should be reported under GH-1-a and GH-2-a. 1225

1226 Guidance to GH-3-a-iii

- 1227 Under requirement GH-3-a, an organization is required to include biogenic non-CO₂ emissions from the combustion or biodegradation of biomass in the calculation of gross Scope 3 GHG emissions, for 1228 1229 example, methane (CH₄) and nitrous oxide (N₂O) emissions from the combustion of biofuels.
- 1230 For further information, refer to the GHG Protocol Corporate Standard and GHG Protocol Scope 3 1231 Standard.

1232 Guidance to GH-3-a-iv

1233 The organization is required to use the latest Intergovernmental Panel on Climate Change (IPCC) global warming potential (GWP) values. If the organization used different IPCC GWP values in 1234

- 1235 previous reporting periods, it should disclose the IPCC GWP values used in each reporting period.
- 1236 The organization should consistently apply GWP values for the information disclosed.

1237 Guidance to GH-3-b

1238 Emissions data in metric tons of CO₂ equivalent are reported for each of the 15 Scope 3 categories.

1239 The organization should ensure that the Scope 3 inventory appropriately reflects the GHG emissions 1240 of the organization. The organization should not exclude any category that would compromise the

1241 relevance of the reported inventory.

1242 If the organization cannot report the emissions data for a particular category, it is required to provide a 1243 reason for omission. Where data cannot be reported because it is unavailable or incomplete, the 1244 organization is required to specify which information is unavailable or incomplete and why, and

describe the steps being taken and the expected time frame to obtain the information. If the GHG
emissions value of a particular category is identified as not applicable, the organization is required to
explain why the category is considered not applicable. See Requirement 6 in *GRI 1 Foundation 2021*.

1248 The organization can refer to the GHG Protocol Corporate Value Chain Standard for information on 1249 the Scope 3 GHG accounting quality criteria.

1250 An organization can also provide the breakdown of gross Scope 3 GHG emissions of carbon dioxide 1251 (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), 1252 sulfur hexafluoride (SF₆), and nitrogen trifluoride (NF₃), in metric tons.

To ensure transparency, for each of the 15 Scope 3 categories, the organization should report the
percentage of the total emissions obtained through primary data on the total for each category.
Primary data is obtained from suppliers or other value chain entities. The following formula may be
used:

1257
$$Primary \ data \ (\%) = 100 * \frac{Primary \ data \ (MtCO2e)}{total \ Scope \ 3 \ category \ emissions \ (MtCO2e)}$$

1258

1259 Where it aids transparency or comparability over time, the organization can provide additional 1260 breakdowns of gross Scope 3 GHG emissions by, for example:

- business unit or facility;
- 1262 country;
- type of source;
- type of activity.
- 1265 To present the information for this requirement, see Table 5.

1266 Guidance to GH-3-c

Biogenic CO₂ emissions from the combustion or biodegradation of biomass in the value chain are
 reported separately from gross Scope 3 GHG emissions and, therefore, are not included in the
 calculation for GH-3-a.

- 1270 The organization can refer to the GHG Protocol Corporate Standard and GHG Protocol Scope 31271 Standard for further information.
- 1272 To present the information for this requirement, see Table 5.

1273 Guidance to GH-3-d

- As specified in the comparability principle in <u>*GRI 1: Foundation 2021*</u>, the organization should present the information for the current reporting period and at least two previous reporting periods.
- 1276 For further information on recalculations of emissions in prior reporting periods, the organization can 1277 refer to Guidance to GH-1-d in this Standard and the GHG Protocol Corporate Standard.
- 1278 If the organization has reported the base year under <u>Disclosure CC-4 GHG emissions reduction</u>
- 1279 <u>targets and progress</u> (GH-1-d), it can refer to that information and does not need to repeat it.

1280 Guidance to GH-3-d-ii

- 1281 This requirement covers separate base year emissions data for:
- gross Scope 3 GHG emissions (GH-3-a);
- biogenic CO₂ emissions (GH-3-c).
- 1284 In addition, the organization should provide the breakdowns of base year emissions by categories1285 (GH-3-b and GH-3-c).

1286 Guidance to GH-3-e

- 1287 When reporting gross Scope 3 GHG emissions, the organization should ensure consistency with the consolidation approach selected under Scope 1 and 2. 1288
- 1289 The organization should describe the reasons why the standards, methodologies, assumptions, and calculation tools used were chosen. 1290
- This document does not represent an official position of the cases 1291 The emission factors can originate from mandatory reporting requirements, voluntary reporting 1292 frameworks, or industry groups.
- 1293

1294 **Disclosure GH-4 GHG emissions intensity**

1295 **REQUIREMENTS**

- 1296 **The organization shall:**
- report GHG emissions intensity ratio(s), including the specific metrics (the denominators)
 chosen to calculate the ratio(s);
- b. report the types of GHG emissions included in the intensity ratio(s), whether Scope 1,
 Scope 2, or Scope 3.
- 1301

1302 GUIDANCE

- 1303 Intensity ratios are obtained by dividing the absolute GHG emissions by an organization-specific
 1304 metric (the denominator). Many organizations track environmental performance with intensity ratio(s).
- 1305 GHG emissions intensity expresses the amount of GHG emissions per unit of activity, output, or any

1306 other organization-specific metric. In combination with an organization's absolute GHG emissions,

1307 reported in Disclosures GH-1, GH-2, and GH-3, GHG emissions intensity helps to contextualize the 1308 organization's efficiency, including in relation to other organizations.

- 1309 The organization selects a specific metric that applies to its activities. For example, organizations that
- 1310 manufacture products may choose 'tons of product produced' as a denominator, whereas
- organizations with diversified activities and services may choose 'full-time equivalent employee (FTE)'as a denominator.
- 1313 Table 2. Example template for presenting information on GHG emissions intensity ratio(s)

GHG emissions intensity ratios	Scopes (1,2,3)	Specific metric	Reporting period (1)	Reporting period (2)	Reporting period (3)
Ratio 1		A CO			
Ratio 2		SCX SX			
Ratio XX		N.			

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1315 Guidance to GH-4-a

The organization can report intensity ratios for Scope 1, Scope 2, or Scope 3 separately or combined
for Scope 1 and Scope 2. The organization should specify whether biogenic emissions are included in
the numerator of the selected ratio(s).

1319 Where it aids transparency or comparability over time, the organization should provide a breakdown 1320 of the GHG emissions intensity ratios by, for example:

- business unit or facility;
- 1322 country;
- 1323 type of source;
- type of activity;
 - Scope 3 category.

1326 Guidance to GH-4-b

- 1327 Organization-specific metrics (denominators) can include, but are not limited to:
- units of product;
- production volume (such as metric tons, liters, or MWh);
- size (such as m² floor space);

- number of full-time employees;
- monetary units (such as revenue or sales).

1333 Relevant denominators will be different from industry to industry or even among different business
1334 units of an organization. Therefore, the organization should choose a denominator relevant to its
1335 industry and aligned with current industry standards.

This document does not represent an official position of the cases

1336 Disclosure CC-5 GHG removals in the value chain

- 1337 REQUIREMENTS
- 1338 **The organization shall:**
- 1339a. report total GHG removals in metric tons of CO2 equivalent in the value chain, excluding1340any GHG trades, and a breakdown of this total by:
- 1341 i. Scope 1 GHG removals and a further breakdown by storage pool;
 - ii. Scope 3 GHG removals and a further breakdown by storage pool;
- b. for each storage pool, describe how quality criteria are monitored in order to manage the
 risk of non-permanence;
- 1345 c. report the intended use of GHG removals;
- 1346 d. report standards, methodologies, assumptions, and calculation tools used;
- report the impacts associated with GHG removals and the actions taken to manage these
 impacts, including on:
- 1349 i. local communities, vulnerable groups and workers;
- 1350 ii. biodiversity.
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1352 GUIDANCE

1353 This disclosure aims to increase transparency by helping organizations report on GHG removals.

GHG removals are anthropogenic activities removing CO₂ or other GHGs from the atmosphere and durably storing it in geological or terrestrial reservoirs. CO₂ removals occur when CO₂ is transferred from the atmosphere to a non-atmospheric carbon pool (e.g., land-based pool or geologic pool). CO₂ removals can also be referred to as carbon sequestration or enhanced carbon storage, where the carbon is derived from atmospheric CO₂.

- According to the Intergovernmental Panel on Climate Change (IPCC), removals have two distinctelements:
 - transfer of CO₂ or other GHGs from the atmosphere via sinks (the process, activity, or mechanism that removes greenhouse gases from the atmosphere); and
 - storage of CO₂ or other GHGs within pools (the physical reservoir or medium where the removed CO₂ or other GHGs are stored).
- 1365
 1366 Globally accepted accounting methods for GHG removals are currently under development.
 1367 Organizations can refer to the Land Sector and Removals Guidance of the GHG Protocol, where
 1368 guidance on accounting for CO₂ removals and carbon pools is provided. However, there is potential
 1369 for removing other GHGs from the atmosphere, and additional guidance may be developed in the
 1370 future.
- 1371 Consistent with the climate change mitigation hierarchy, organizations are expected to prioritize implementing all feasible technical and scientific actions to avoid and reduce emissions in alignment 1372 with the effort to limit global warming to 1.5°C. Therefore, GHG removals cannot be counted as 1373 1374 emission reductions toward an organization's gross GHG emissions reduction targets reported under 1375 Disclosure CC-4 GHG emissions reduction target setting and progress. If the organization reports net-1376 zero targets under <u>CC-1-f</u>, GHG removals can only be used to counterbalance residual emissions at the net-zero target year or after having reduced at least 90% of their GHG emissions when further 1377 1378 reduction is not possible.

1379 Guidance to CC-5-a

- 1380 The organization should exclude from the calculation any removal activity undertaken by an 1381 organization within its inventory boundary that is sold as a carbon credit.
- In cases where the organization reports removals other than CO₂, it should separately report
 removals for each GHG covered by the Kyoto Protocol and use the GWP based on a 100-year
 timeframe.
- 1385 To present the information for this requirement, see Table 3.

1386 Guidance to CC-5-a-i

- 1387 Scope 1 removals are direct and constitute removals for which the reporting organization owns or 1388 controls the sink that transfers CO_2 or other GHGs from the atmosphere and the storage pool. Scope 1389 3 removals are indirect and result from the activities of the reporting organization and where the 1390 organization does not own or control both the sink (that transfers GHG from the atmosphere) and the 1201 people (that storage CO) ar other CHCo)
- 1391 pool (that stores CO_2 or other GHGs).
- 1392 There are no Scope 2 removals since removals do not occur when generating electricity, heating,
- 1393 cooling, or steam. According to the Land Sector and Removals Guidance of the GHG Protocol,
- removals occurring in the value chain of the energy generation process are accounted for in Scope 3,
- 1395 category 3, fuel- and energy-related activities as per the Scope 3 categories of the Corporate
- 1396 Standard of the GHG Protocol.

1397 Guidance to CC-5-a-ii

1421

- 1398 By reporting the storage pool, the organization provides transparency on the removal and storage 1399 activity and the technology used.
- A storage pool is a physical reservoir or medium where a greenhouse gas or its constituent elements are stored. There are two types of storage pools considered for reporting under this disclosure:
- Land-based pools store carbon in terrestrial biomass, dead organic matter, and soil carbon pools. The organization can report CO₂ removals resulting from annual increases in carbon stored in land-based carbon pools due to land management. All land management removals are from biogenic sinks;
- Geologic pools are geologic formations that store inorganic minerals not used as products, for example, fossil carbon in sedimentary formations containing oil and natural gas. The organization can report CO₂ removals resulting from annual increases of carbon stored in geologic pools derived from biogenic or technological CO₂ sinks.
- In addition, the organization should disaggregate the total GHG removals by sink process. The United
 Nations Framework Convention on Climate Change (UNFCCC) defines a sink as any biogenic or
 technological process that removes greenhouse gases from the atmosphere.
- 1413 As explained in the GHG Protocol's Land Sector and Removals Guidance, two main types of sink 1414 processes remove CO_2 from the atmosphere:
- Biogenic CO₂ removals resulting from atmospheric CO₂ transferred via biological sinks, such as photosynthesis, to storage in biogenic carbon pools;
- 1417 Technological CO₂ removals resulting from atmospheric CO₂ transferred via technological sinks to storage in geologic carbon pools.
- 1419 To present the information for this requirement, see Table 3.

1420 **Table 3. Example template for presenting information on GHG removals**

GHG removals in the value chainScope 1 removals
in metric tonsScope 3 removals
in metric tonsStorage pool 1Storage pool 2

Storage pool 3	
Storage pool 4	
Storage pool 5	
Total GHG removals in the value chain in metric tons	

1422

1423 Guidance to CC-5-b

Risk of non-permanence means the inability to demonstrate that CO₂ or other GHGs remain stored
 and losses of CO₂ and other GHG stock are accounted for and reported as emissions or reversals in
 future inventory periods. Reversals are GHG emissions from carbon pools previously reported as
 GHG removals by the organization.

1428 The risk of non-permanence should also include possible losses or leaks during transport.

1429 The risk of non-permanence may be in the form of unintentional natural factors such as fire, wind, and 1430 other extreme weather events, intentional or purposeful actions such as harvests that are not part of 1431 the management plan, conversion, or changes to land use.

- 1432 In order to implement the permanence principle, quality criteria are used to manage removals. Quality1433 criteria include:
- An ongoing storage monitoring program to demonstrate that CO₂ and other GHGs remain stored or used to detect losses of stored CO₂ and other GHGs;
- Traceability where the organization can identify, track, and collect information throughout the
 entire removal pathway, particularly in the case of Scope 3 removals, where the sinks and pools
 are both not owned or controlled by the organization;
- Availability of primary data where the organization demonstrates that it has accounted for removals using empirical data specific to the sinks and pools where GHG is stored in its own operations or within its value chain;
- Uncertainty where the organization provides a quantitative uncertainty range for the removals,
 including the removal value, the uncertainty range for the removal estimate is based on a
 specified confidence level, and the organization can justify how the selected value does not
 overestimate removals;
- Reversals accounting where the organization reports CO₂ stock and other GHG losses of
 previously reported removals. The CO₂ stock and other GHG losses should be reported as GHG
 emissions, if storage pools are part of the GHG inventory boundary in the reporting period or as
 reversals, if storage pools are no longer part of the GHG inventory in the reporting period.
- 1450 If GHG removals do not meet one or more quality criteria listed above, or the organization cannot
 1451 describe how the removals meet one or more quality criteria, the organization should state this and
 1452 provide an explanation. The organization should also describe the planned or implemented actions to
- 1453 meet the quality criteria.

1454 Guidance to CC-5-c

- 1455 This requirement covers the intended use of GHG removals reported under CC-5-a.
- 1456 GHG removals can be used to counterbalance residual emissions as the last step of the mitigation
- 1457 hierarchy. Organizations are expected to counterbalance residual emissions at the net-zero target
- 1458 year or after having reduced at least 90% of their GHG emissions when further reduction is not
- possible, according to the Corporate Net Zero Standard from the Science Based Targets initiative(SBTi).

Residual emissions refer to the unabated GHG emissions after the organization has reduced at least
90% of its GHG emissions, when further reduction is not possible, according to the Net Zero Scenario
from the International Energy Agency (IEA) and Corporate Net Zero Standard from the Science

- Based Targets initiative (SBTi). In the case an organization is subjected to sectorial decarbonization
 pathways, it may be subjected to a different percentage of GHG emissions reduction.
- GHG removals cannot be counted as emission reductions toward an organization's gross GHG
 emissions reduction targets reported under <u>Disclosure CC-4 GHG emissions reduction target setting</u>
 and progress
- 1468 <u>and progress</u>.
- 1469 The organization may be allowed to include GHG removals in the targets reported under this
- disclosure only if subjected to specific sector programs (e.g., the SBTi Forest, Land and Agriculture
 (FLAG) Guidance). The organization should report the sector program based on authoritative
- 1472 scientific evidence.
- 1473 In addition, the organization should disclose whether GHG removal targets are in place and the
- 1474 purpose of the targets. The purpose of GHG removal targets can include counterbalancing residual
- 1475 emissions at the net-zero target year (as part of their net-zero strategy) and beyond value chain
- 1476 mitigation. If the organization sets GHG removal targets for other purposes, it should report and
- 1477 explain them.
- 1478 The organization should also report its reversals accounting policy, including how reversals of
- 1479 previously reported GHG removals in their target are accounted.

1480 Guidance to CC-5-e

- 1481 Under requirement CC-5-e, an organization should report impacts associated with GHG removals that 1482 occur both in the value chain and beyond its value chain.
- The organization should also report how it engages with stakeholders to identify impacts on people,
 including local communities, vulnerable groups and workers and on the environment including
 biodiversity.

1486 Guidance to CC-5-e-i

- 1487 Examples of impacts associated with GHG removals on local communities, vulnerable groups and 1488 workers can include:
- Local communities lose the right to access lands if lands are used for new infrastructure, afforestation, or reforestation for removals and if the land is not acquired through inclusive and participatory processes.
 - Indigenous Peoples can be negatively impacted when land is not acquired with their free, prior, and informed consent.
- Workers in carbon capture and storage facilities may face negative impacts on their health in the case of leakage of CO₂, as leakage may occur at any stage of capture, transport and storage.

1498 Guidance to CC-5-e-ii

1492

1493

- 1499 Examples of impacts associated with GHG removals on biodiversity can include:
- Negative impacts on species when removal activities occur in or near threatened species' habitats.
- Water is no longer available for use by ecosystems or local communities due to the extensive use of water for removal activities, leading to reduced water table levels.
- Impacts on air quality and thereby on the health of local communities, resulting from potential leakage of CO₂ from storage pools.

Disclosure 101-2 in *GRI 101: Biodiversity 202X* requires describing how the organization enhances synergies and reduces trade-offs between actions taken to manage its biodiversity impacts and its climate change impacts. If the organization has described the impacts on biodiversity resulting from its GHG removals and the actions taken to manage those impacts under Disclosure 101-2, it can provide a reference to this information.

This document does not represent an official position of the cases

Disclosure CC-6 Carbon credits 1511

- REQUIREMENTS 1512
- 1513 The organization shall:
- 1514 a. report the total amount of carbon credits in metric tons of CO₂ equivalent canceled and a breakdown of this total by types of carbon credit project; 1515
- 1516 b. for each project for which carbon credits have been canceled, report:
- 1517 i. Project name and project ID;
- ii. Project type, i.e., whether a reduction or removal project; 1518
- 1519 iii. Cancellation serial number, cancellation date, and vintage:
- 1520 c. for each carbon credit project reported under CC-5-b, describe how the project adheres to 1521 each of the following quality criteria; jal position of
- 1522 i. additionality;
- ii. credible baselines; 1523
- 1524 iii. permanence;
- 1525 iv. leakage avoidance;
- v. unique issuance and claiming; 1526
- 1527 vi. regular monitoring;
- 1528 vii. independent validation and verification;
- viii. GHG program governance; 1529
- d. report the purpose of cancellation of carbon credits: 1530
- 1531 e. describe how the organization continuously monitors and evaluates the positive and negative impacts of the projects from which carbon credits are purchased, including: 1532
 - categories of stakeholders consulted in the implementation of the project; i.
 - ii. how human rights are respected;
- 1535 iii. how socio-economic benefits for local communities and vulnerable groups are provided: 1536
- iv. how biodiversity is conserved; 1537
- 1538 v. how trade-offs are assessed.
- 1539

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- **GUIDANCE** 1540
- 1541 This disclosure aims to increase transparency regarding the use of carbon credits.
- 1542 A carbon credit is a transferable or tradable instrument representing one metric ton of CO₂ equivalent.
- Carbon credits are GHG emissions reduction or removal generated outside the organization's value 1543
- 1544 chain and purchased by the organization.
- Carbon credits can be generated as follows: 1545
 - GHG emissions reduction projects, such as renewable energy projects, to replace planned fossil fuel power plants or improve cookstoves' energy efficiency, and REDD+ projects (Reducing emissions from deforestation and forest degradation in developing countries).
 - Removal projects, for example, afforestation, reforestation, soil carbon sequestration, direct • air carbon capture and storage (DACS), and bioenergy with carbon capture and storage (BECCS).
- 1552 Consistent with the climate change mitigation hierarchy, organizations are expected to prioritize 1553 implementing all feasible technical and scientific actions to avoid and reduce GHG emissions in 1554 alignment with the effort to limit global warming to 1.5° C.

- 1555 Therefore, carbon credits cannot be counted as emission reductions toward an organization's gross 1556 GHG emissions reduction targets reported under <u>Disclosure CC-4 GHG emissions reduction target</u>
- 1557 <u>setting and progress</u>.
- 1558 If the organization reports net-zero targets under <u>CC-1-f</u>, GHG removal carbon credit projects can 1559 only be used to counterbalance residual emissions at the net-zero target year or after having reduced 1560 at least 90% of their GHG emissions, when further reduction is not possible.
- 1561 Organizations can use carbon credits to finance additional climate change mitigation beyond the 1562 expected GHG emission reduction targets, in line with the latest scientific evidence to limit global
- 1563 warming to 1.5 C°.

1564 Guidance to CC-6-a

1565 A carbon credit is canceled when permanently removed from circulation in a registry account.

In this requirement, the organization provides a breakdown of the total carbon credits canceled in the
reporting period by type of project, i.e., whether the carbon credits were from GHG emissions
reduction or removal activities. The organization can additionally report the percentage corresponding
to the type of project.

1570

1571 The organization may also report the amount of carbon credits purchased and not canceled during 1572 the reporting period in metric tons of CO_2 equivalent.

- 1573
- 1574 To present carbon credits canceled, purchased, and not canceled during the reporting period, the 1575 organization can use Table 4.
- 1576

1577Table 4. Example template for presenting information on carbon credits canceled and carbon1578credits purchased and not canceled by type of project

Carbon credits	mtCO ₂ e	%
Total carbon credits canceled during the reporting period		
Emissions reduction projects		
Removal projects		
Total carbon credits purchased and not canceled during the reporting period		
Emissions reduction projects		
Removal projects		

1579 Guidance to CC-6-b-iii

- 1580 Serial numbers are allocated to credits within the scope of trading programs to ensure that the serial 1581 numbers are retired once used.
- 1582 According to the Voluntary Carbon Market Integrity Initiative (VCMI), Claims Code of Practice, credit
- 1583 vintage refers to the year the carbon emission reduction occurred. As the verification process can
- take two to three years from project inception, projects may generate credits for already reducedemissions.

1586 Guidance to CC-6-c

1587 In the case where carbon credits that are canceled and reported under CC-6-a do not meet one or 1588 more guality criteria, or the organization is not able to describe how the carbon credits cancelled meet 1589 the quality criteria, the organization should state it and provide an explanation. The organization 1590 should also describe the planned or implemented actions to meet the quality criteria.

1591 Guidance to CC-6-c-i

1592 A project is additional if it would not have occurred without the incentives provided by the credit.

1593 Guidance to CC-6-c-ii

GHG emissions reduction or removal are quantified based on a realistic estimate using a baseline
scenario or performance standard. Carbon credits are calculated relative to a baseline that represents
a hypothetical scenario for what GHG emissions would have been in the absence of the project. See
the GHG Protocol for Project Accounting for more information on project-specific and performance
standard baseline approaches.

1599 Guidance to CC-6-c-iii

1600 The GHG emission reduction and GHG removal projects are permanent. The longevity of a carbon 1601 pool and the stability of its stocks over time (such as 100 years or other periods defined by a carbon 1602 credit program) must meet the criterion of permanence.

1603

1620

1604 When reporting how a project adheres to the criteria of permanence, the organization should report 1605 how the risk of non-permanence is managed, including disclosing which measures are in place to

1606 address the risks of reversal and to compensate for reversals.

1607 Guidance to CC-6-c-iv

1608 GHG emissions reduction and removal projects must mitigate the risk of causing impacts elsewhere

and account for any increase in emissions or decrease in removals outside the project's boundary. In
 order to avoid leakage, the organization should report which measures are in place to determine and
 monitor leakage.

1612 Guidance to CC-6-c-v

- 1613 Carbon credits are expected to be uniquely issued, claimed, and canceled by an electronic registry.
- 1614 The organization that cancels the credit should claim the carbon credit. Double counting credits is not 1615 permitted, so another organization or entity cannot claim the same GHG emissions reduction or 1616 removal.
- 1617 Organizations developing GHG emissions reduction or removal projects within value chains to sell as 1618 carbon credits are expected to have procedures to prevent double counting.
- 1619 Double counting includes the following:
 - C Double use occurs if multiple parties use a single GHG emission reduction or removal unit.
- 1621 Double issuance occurs when multiple GHG emission reductions or removal units are issued 1622 for the same GHG emission reduction or removal.
- Double claiming occurs when multiple parties claim the right to a single emission reduction, removal, or mitigation outcome.

1625 Double use can be avoided through registry systems that assign unique serial numbers to individual 1626 offset credits, track transfer, and ownership, and record the purpose of use. A way by which double 1627 issuance can be avoided is by checking that the accounting boundaries used to quantify GHG 1628 reductions for different projects do not overlap. Double claiming can be avoided if project developers 1629 sign legal attestations asserting exclusive claims to any credited emission reductions and legally 1630 conveying the claims to the buyers of credits. 1631 The organization should report whether the carbon credits qualify as corresponding adjustments. For 1632 further information, see the UN Paris Agreement, Article 6.

1633 Guidance to CC-6-c-vi

1634 GHG emissions reduction and removal credits are monitored and quantified ex-post. This should
 1635 include accurate and precise measurement, sampling, and quantification protocols. The organization
 1636 should report the processes for data monitoring throughout the crediting period.

1637 Guidance to CC-6-c-vii

1638 Carbon credits are verified according to recognized quality standards by independent third-party
 1639 validators and verifiers. The organization should report the processes in place for the independent
 1640 third-party validation and verification of the carbon credits, as well as the relevant standards used.

1641 Guidance to CC-6-c-viii

1642 GHG programs issue GHG emissions reduction and removal credits with a clearly defined and

1643 transparent governance structure. The organization should report the GHG governance structure of

1644 the carbon credit projects. Specifically, the organization should report the relevant published rules and

1645 procedures, accreditation procedures for third-party auditors, and stakeholder consultation 1646 procedures for developing or refining program requirements and as part of the project approval

- 1646procedures for developing or refining program requirements and as part of the project approval1647process, with established grievance and input mechanisms to address complaints about projects after
- 1648 implementation.

1649 Guidance CC-6-d

- 1650 This requirement covers the purpose of the cancellation reported under CC-6-a.
- 1651 Purpose of cancellation includes, for example:
 - Compliance with any country, regional, or industry-level sectorial carbon-crediting program.
- Financing and contributing additional climate change mitigation in addition to the organization's GHG emission reduction actions. These contributions are one of the steps of the mitigation hierarchy. Such contributions cannot be used to counterbalance residual emissions for reaching net-zero targets.
- Counterbalancing residual emissions is the last step of the mitigation hierarchy. Only GHG removal from carbon credit projects can be used to counterbalance residual emissions according to the Corporate Net Zero Standard from the Science Based Targets initiative (SBTi). Organizations are expected to counterbalance residual emissions at the net-zero target year or after having reduced at least 90% of their GHG emissions, when further reduction is not possible.
- 1664 Residual emissions refer to the unabated GHG emissions after the organization has taken all feasible 1665 technical and scientific actions to reduce at least 90% of its GHG emissions, when further reduction is 1666 not possible, according to the Net Zero Scenario from the International Energy Agency (IEA) and 1667 Corporate Net Zero Standard from the Science Based Targets initiative (SBTi).
- 1668

1663

1652

- When reporting the purpose of carbon credit cancellation, the organization should indicate how thecancellation does not impede nor reduce the achievement of its GHG emissions reduction targets.
- 1671
 1672 Carbon credits cannot be counted as emission reductions toward an organization's gross GHG
 1673 emissions reduction targets reported under <u>Disclosure CC-4 GHG emissions reduction target setting</u>
- 1674 and progress.

1675 Guidance to CC-6-e

- 1676 Organizations are expected to have a due diligence process in place to select carbon credit projects 1677 that maximize positive impacts and prevent or mitigate negative impacts on people and the
- 1677 that maximize positive impacts and prevent or mitigate negative impacts on people and the 1678 environment.
- 1679 Guidance to CC-6-e-i
- 1680 The organization can refer to <u>Guidance 2-29 in *GRI* 2</u> for reporting under this requirement.

1681 Guidance CC-6-e-ii

1682 The organization is expected to select carbon credit projects that respect human rights, with special 1683 attention to vulnerable groups and Indigenous Peoples. For further information, the organization can 1684 refer to the United Nations High-Level Expert Group on the Net Zero Emissions Commitments of Non-1685 State Entities 'Integrity Matters: Net Zero Commitments by Businesses, Financial Institutions, Cities 1686 and Regions' Report.

- 1687 Carbon credit projects should not negatively impact the livelihoods and earnings of workers, food
 1688 security, water rights, or land rights. These projects should not result in physical violence towards
 1689 workers or local communities.
- 1690 When reporting on the human rights impacts of carbon credit projects, the organization can describe
- 1691 how local communities are consulted and how tenure rights for the land used for projects are
- 1692 respected without the threat of forceable eviction. The organization can also describe how it obtains
- the free, prior, and informed consent of Indigenous Peoples with regard to any action that affects their
- 1694 lands, territories, or resources.

1695 Guidance to CC-6-e-iii

- 1696 In this disclosure, the organization explains how the carbon credit activities generate socio-economic 1697 benefits for local communities and vulnerable groups.
- 1698 Examples of socio-economic benefits for local communities and vulnerable groups resulting from
- 1699 carbon credit projects can include providing them with a portion of the payments for each credit
- 1700 purchased, creating new jobs, and developing technical skills and training.

1701 Guidance to CC-6-e-iv

- 1702 Requirement CC-6-e-iv enables the organization to describe how its carbon credit projects contribute1703 to biodiversity conservation.
- Carbon credit projects can result in positive and negative impacts on biodiversity. An example of a
 positive impact can be when a carbon credit project leads to the recovery of a degraded ecosystem.
 An example of a negative impact can be when a carbon credit project leads to biodiversity loss, for
 example, from afforesting an area with single-species trees.
- 1708 The organization can also describe the impacts of the carbon credit projects on biodiversity, for
- example, whether the variety of plant and animal species increases or decreases or whether the
- 1710 projects support land regeneration or lead to land degradation.
- 1711 Disclosure 101-2 in *GRI 101: Biodiversity 202X* requires describing how the organization enhances 1712 synergies and reduces trade-offs between actions taken to manage its biodiversity impacts and its
- synergies and reduces trade-offs between actions taken to manage its biodiversity impacts and itsclimate change impacts. If the organization has described how its carbon credit projects conserve
- 1713 climate change impacts. If the organization has described now its carbon credit project 1714 biodiversity under Disclosure 101-2, it can provide a reference to this information
- biodiversity under Disclosure 101-2, it can provide a reference to this information.

1715 Guidance to CC-6-e-v

- 1716 Carbon credit projects are likely to involve trade-offs. For example, land-based removal projects can 1717 reduce the availability of land for food production.
- 1718 Under requirement CC-6-e-v, the organization should also describe the process to mitigate trade-offs.

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1719 Example templates for presenting information for Disclosures GH-1, GH-2 and GH-3

1720 Table 5. Example template for presenting information on Scope 1, Scope 2 and Scope 3 GHG 1721 emissions

Scope 1, Scope 2 and Scope 3 GHG emissions	Base year		Reporting	Reporting period-2		g period-1	Reporting period	
	Emission s in mtCO2e	Biogenic CO ₂ emissions in metric tons	Emission S in mtCO2e	Biogenic CO ₂ emissions in metric tons biogenic CO ₂	Emission s in mtCO2e	Biogenic CO ₂ emissions in metric tons biogenic CO ₂	Emission s in mtCO2e	Biogenic CO ₂ emissions in metric tons biogenic CO ₂
Scope 1 GHG emissions								
Scope 2 GHG emissions								
Location-based							S	
Market-based						0	2	
Scope 3 GHG emissions						W.		
Category 1: Purchased goods and services						0		
Category 2: Capital goods					, jo			
Category 3: Fuel- and energy-related activities (not included in Scope 1 or Scope 2)					2051t			
Category 4: Upstream transportation and distribution				STICIO.				
Category 5: Waste generated in operations				0`				
Category 6: Business travel			× O					
Category 7: Employee commuting								
Category 8: Upstream leased assets		S						
Category 9: Downstream transportation and distribution	5	(60)						
Category 10: Processing of sold products	<i>6</i> 0,							
Category 11: Use of sold products	S							
Category 12: End-of-life treatment of sold products								
Category 13: Downstream leased assets								
Category 14: Franchises								
Category 15: Investments								

1722

Table 6. Example template for presenting information on Scope 1 and Scope 2 GHG emissions by gas

Emissions – Breakdown by	Reporting period-2		Reporting p	period-1	Reporting period		
gas	metric tons	mtCO ₂ e	metric tons	mtCO ₂ e	metric tons	mtCO ₂ e	
Scope 1 GHG emissions							
CO ₂							
CH ₄							
N ₂ O							
HFCs							
PFCs							

SF ₆			
NF ₃			
Scope 2 GHG emissions (location-based)			
CO ₂			
CH ₄			
N ₂ O			
Scope 2 GHG emissions (market-based)			
CO ₂			
CH ₄			
N ₂ O			Ś

Glossary 1725

N ₂ O						S
Glossary					. the	655
This glossary provides definit apply these definitions when			Standard. Th	e organiz	ation is requi	ired to
The definitions included in thi <u>GRI Standards Glossary</u> . All the complete GRI Standards	defined terms	s are underlin	ed. If a term i	s not defi	ned in this glo	ossary or in
base year			FICIO	>		
historical datum (a specific ye tracked over time Source: World Resources Insti (WBCSD), <i>GHG Protocol Corp</i>	tute (WRI) an	d World Busin	ess Council fo	r Sustaina	able Developn	nent
		NO ⁵				
biogenic carbon dioxide (C	O ₂) emissio	n				
emission of CO2 from the cor	nbustion or b	iodegradatior	of biomass			
	5					
carbon credit	2					
Transferable or tradable instr reduction or removal	ument that re	epresents one	metric ton of	<u>CO₂ equi</u>	valent emiss	<u>ions</u>
Note: Carbon credits are unic quality standards.	quely serialize	ed, issued, tra	icked, and ca	nceled ac	cording to re	cognized
20						
carbon dioxide (CO ₂) equiv	alent					
The universal unit of measure greenhouse gas, expressed i the release, or avoiding the re	n terms of th	e GWP of one	e unit of carbo	on dioxide	. It is used to	
Source: World Resources Insti (WBCSD), GHG Proto Standard, 2015 and G Standard, 2011.	col Scope 2	Guidance. An a	amendment to	the GHG	Protocol Corp	oorate
Note: The CO ₂ equivalent for associated GWP.	a gas is dete	ermined by m	ultiplying the i	metric ton	s of the gas I	by the

1757

1758 global warming potential (GWP)

Factor describing the radiative forcing impact (degree of harm to the atmosphere) of one unit of a
 given greenhouse gas (GHG) relative to one unit of CO₂

- Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
 (WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate
 Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting
 Standard, 2011.
- 1765 Note: GWP values convert GHG emissions data for non-CO₂ gases into units of <u>CO₂ equivalent</u>.
- 1766

1767 greenhouse gas (GHG)

1768 gas that contributes to the greenhouse effect by absorbing infrared radiation

- 1769 Note: For the purposes of this Standard, GHGs are the seven gases covered by the UNFCCC:
- 1770 carbon dioxide (CO₂); methane (CH₄); nitrous oxide (N₂O); hydrofluorocarbons (HFCs);
- 1771 perfluorocarbons (PFCs); sulphur hexafluoride (SF₆); and nitrogen triflouride (NF₃).
- 1772

1773 greenhouse gas (GHG) removal

- anthropogenic activities to remove CO₂ or other <u>greenhouse gas (GHGs)</u> emissions from
 the atmosphere and durably store them in geological, terrestrial, or ocean reservoirs
- 1776
- Source: Intergovernmental Panel on Climate Change (IPCC), Global Warming of 1.5°C. An IPCC
 Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and
 related global greenhouse gas emission pathways, in the context of strengthening the global
 response to the threat of climate change, sustainable development, and efforts to eradicate
 poverty, Annex I: Glossary, 2018; modified.
- 1782

1783 greenhouse gas (GHG) trade

- 1784 purchase, sale, or transfer of carbon credits or greenhouse gas (GHG) allowances
- Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
 (WBCSD), *GHG Protocol Corporate Accounting and Reporting Standard, Revised Edition*, 2004;
 modified
- 1788

1789 human rights

- 1790 rights inherent to all human beings, which include, at a minimum, the rights set out in the United 1791 Nations (UN) International Bill of Human Rights and the principles concerning fundamental rights set 1792 out in the International Labour Organization (ILO) Declaration on Fundamental Principles and Rights 1793 at Work 1794 Source: United Nations (UN), Guiding Principles on Business and Human Rights: Implementing the 1795 United Nations "Protect, Respect and Remedy" Framework, 2011; modified 1796 Note: See Guidance to 2-23-b-i in GRI 2: General Disclosures 2021 for more information on 'human 1797 rights'. 1798
- 1799 impact

1800 effect the organization has or could have on the economy, environment, and people, including on their

- 1801 <u>human rights</u>, which in turn can indicate its contribution (negative or positive) to <u>sustainable</u>
- 1802 <u>development</u>
- 1803 Note 1: Impacts can be actual or potential, negative or positive, short-term or long-term, intended or1804 unintended, and reversible or irreversible.
- 1805 Note 2: See section 2.1 in GRI 1: Foundation 2021 for more information on 'impact'.
- 1806

1807 material topics

- 1808 topics that represent the organization's most significant impacts on the economy, environment, and 1809 people, including impacts on their human rights
- 1810Note:See section 2.2 in GRI 1: Foundation 2021 and section 1 in GRI 3: Material Topics 2021 for
more information on 'material topics'.
- 1812

1813 Scope 1 GHG emissions

- 1814 <u>Greenhouse gas (GHG)</u> emissions from operations that are owned or controlled by the organization
- Source: World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard, 2011.
- 1819 Examples: CO₂ emissions from fuel consumption
- 1820 Note: A GHG source is any physical unit or process that releases GHG into the atmosphere.
- 1821

1822 Scope 2 GHG emissions

- 1823 Indirect <u>greenhouse gas (GHG)</u> emissions from the generation of purchased or acquired electricity,
 1824 steam, heating, and cooling consumed by the organization
- 1825Source: World Resources Institute (WRI) and World Business Council for Sustainable Development1826(WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate1827Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3) Accounting and1828Reporting Standard, 2011.
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1830 Scope 3 GHG emissions

- 1831 All indirect <u>greenhouse gas (GHG)</u> emissions (not included in Scope 2) that occur in the value chain 1832 of the organization, including both upstream and downstream emissions
- 1833 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
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1838 sustainable development / sustainability

- development that meets the needs of the present without compromising the ability of futuregenerations to meet their own needs
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1842Note:The terms 'sustainability' and 'sustainable development' are used interchangeably in the GRI1843Standards.

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