

Item 06 – GRI Topic Standard Project - GRI 102: Climate Change 2025 - 50 Revision GSSB information

06 May 2025				
15 May 2025				
GRI Topic Standard Project for Climate Change				
This revised GSSB document presents the final <i>GRI 102: Climate Change 202.</i> text as approved by the GSSB in their meeting on 19 March 2025, which includ revised content from <i>GRI 305: Emissions 2016</i> (Disclosures 305-1 to 305-5) an <i>GRI 201: Economic Performance 2016</i> (Disclosure 201-2). The GSSB approve text amendments via electronic vote on 7 April 2025. These amendments are consolidated in this document.				
Effective date				
The GSSB agreed, as part of their approval, an effective date of 1 January 2027 (see line 4) for the <i>GRI 102: Climate Change 2025</i> .				
ment does				

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GRI 102: Climate Change 2025

2 TOPIC STANDARD

3 Effective Date

4 This Standard is effective for reports or other materials published on or after 1 January 2027.

5 Responsibility

- 6 This Standard is issued by the Global Sustainability Standards Board (GSSB). Any feedback on the
- 7 GRI Standards can be submitted to gssbsecretariat@globalreporting.org for the consideration of the
- 8 GSSB.

9 Due Process

- 10 This Standard was developed in the public interest and in accordance with the requirements of the
- 11 GSSB Due Process Protocol. It has been developed using multi-stakeholder expertise, and with
- 12 regard to authoritative intergovernmental instruments and widely held expectations of organizations
- 13 relating to social, environmental, and economic responsibilities.

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36 Content

37	Introduction	4
38	Background on the topic	4
39	System of GRI Standards	4
40	Using this Standard	6
41	1. Topic management disclosures	7
42	Disclosure 102-1 Transition plan for climate change mitigation) .7
43	Disclosure 102-2 Climate change adaptation plan	.14
44	2. Topic disclosures	
45	Disclosure 102-3 Just transition	.19
46	Disclosure 102-4 GHG emissions reduction targets and progress	
47	Disclosure 102-5 Scope 1 GHG emissions	.29
48	Disclosure 102-6 Scope 2 GHG emissions Disclosure 102-7 Scope 3 GHG emissions	. 32
49	Disclosure 102-7 Scope 3 GHG emissions	. 35
50	Disclosure 102-8 GHG emissions intensity	. 38
51	Disclosure 102-9 GHG removals in the value chain Disclosure 102-10 Carbon credits	.40
52	Disclosure 102-10 Carbon credits	.44
53	GlossaryBibliography	.49
54	Bibliography	.55
55	Appendix	.57

this document does not represent



56 Introduction

- 57 *GRI 102: Climate Change 2025* contains disclosures for organizations to report information about 58 their climate change-related <u>impacts</u>, and how they manage these impacts.
- 59 The Standard is structured as follows:
- Section 1 contains two disclosures, which provide information about how the organization manages its climate change-related impacts.
- 62 <u>Section 2</u> 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, as well as resources that the organization can consult.
- The <u>Appendix</u> includes examples of templates for presenting information for Disclosures 102-5, 102-6, 102-7.
- The rest of the Introduction section provides a background on the topic, an overview of the system of GRI Standards, and further information on using this Standard.

73 Background on the topic

- 74 This Standard addresses the topic of climate change.
- 75 The single biggest contributor to climate change is greenhouse gas (GHG) emissions, the impacts of
- 76 which are occurring at an accelerated rate. Consequently, the United Nations Framework Convention
- on Climate Change (UNFCCC) and the subsequent Kyoto Protocol and Paris Agreement were
 created to govern the levels of GHG emissions [4], [6] and [7].
- 79 Organizations have a responsibility to contribute to climate change mitigation and adaptation. In this 80 context, they need to develop and implement transition and adaptation plans and ensure they align 81 with the principles of just transition
- 81 with the principles of just transition.
- 82 Organizations are strongly encouraged to apply the climate change mitigation hierarchy to inform their 83 actions to mitigate climate change. This hierarchy consists of several steps in the following order of 84 priority: GHG emissions avoidance, GHG emissions reduction, and counterbalancing residual GHG 85 emissions [11]. Organizations need to prioritize actions that prevent GHG emissions from being 86 released into the atmosphere and aim to reduce emissions wherever avoidance is not feasible.
- According to the Intergovernmental Panel on Climate Change (IPCC), organizations need to urgently implement all feasible technical and scientific actions across all sectors to limit global warming to 1.5°C. Therefore, organizations need to set and report their GHG emissions reduction targets for the short-, medium-, and long-term. Additionally, they need to disclose their emissions inventories and progress on transition plans on an annual basis [12].
- 92 Climate change is interconnected with various topics, and it can have impacts on people, such as 93 workers or local communities. It is therefore essential to pursue a just transition by greening the
- 94 economy in a fair and inclusive manner, ensuring that no-one is left behind. Climate change is also a
- 95 direct driver of biodiversity loss, which in turn accelerates climate change processes.

96 System of GRI Standards

- 97 This Standard is part of the GRI <u>Sustainability</u> Reporting Standards (GRI Standards). The GRI
- 98 Standards enable an organization to report information about its most significant <u>impacts</u> on the
- 99 economy, environment, and people, including impacts on their <u>human rights</u>, and how it manages
 100 these impacts.



- 101 The GRI Standards are structured as a system of interrelated standards that are organized into three
- 102 series: GRI Universal Standards, GRI Sector Standards, and GRI Topic Standards (see Figure 1 in this Standard).

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

105 <u>GRI 1: Foundation 2021</u> 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
 107 GRI 1.

- 108 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.
- 111 <u>*GRI 3: Material Topics 2021*</u> provides guidance on how to determine <u>material topics</u>. It also contains 112 disclosures that the organization uses to report information about its process of determining material
- topics, its list of material topics, and how it manages each topic.

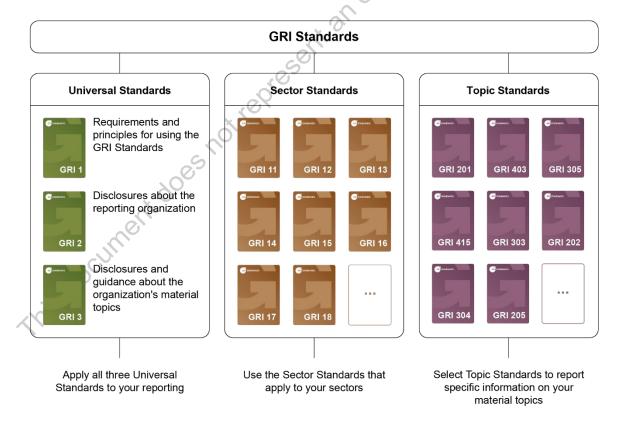
114 Sector Standards

- 115 The Sector Standards provide information for organizations about their likely material topics. The
- 116 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.

118 **Topic Standards**

- 119 The Topic Standards contain disclosures that the organization uses to report information about its
- 120 impacts in relation to particular topics. The organization uses the Topic Standards according to the list
- 121 of material topics it has determined using *GRI* 3.

122 Figure 1. GRI Standards: Universal, Sector and Topic Standards





123 Using this Standard

124 This Standard can be used by any organization – regardless of size, type, sector, geographic location,

or reporting experience – to report information about its climate change-related <u>impacts</u>. In addition to
 this Standard, disclosures that relate to this topic can be found in *GRI 101: Biodiversity 2024* and *GRI 103: Energy 2025*.

128 An organization reporting in accordance with the GRI Standards is required to report the following 129 disclosures if it has determined climate change to be a <u>material topic</u>:

- 130 Disclosure 3-3 in GRI 3: Material Topics 2021.
- Any disclosures from this Topic Standard that are relevant to the organization's climate change-related impacts (Disclosure 102-1 through Disclosure 102-10).
- 133 See <u>Requirements 4 and 5 in *GRI 1: Foundation 2021*.</u>
- 134 Reasons for omission are permitted for these disclosures.

135 If the organization cannot comply with a disclosure or with a requirement in a disclosure (e.g.,

because the required information is confidential or subject to legal prohibitions), the organization is

137 required to specify the disclosure or the requirement it cannot comply with, and provide a reason for

omission together with an explanation in the GRI content index. See <u>Requirement 6 in *GRI*</u> for more

139 information on reasons for omission.

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

because the item (e.g., committee, policy, practice, process) does not exist, it can comply with the

142 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

144 implement the item (e.g., developing a policy), but to report that the item does not exist.

145 If the organization intends to publish a standalone <u>sustainability</u> report, it does not need to repeat

146 information that it has already reported publicly elsewhere, such as on web pages or in its annual

147 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

149 page or citing the page in the annual report where the information has been published).

150 Requirements, guidance and defined terms

- 151 The following apply throughout this Standard:
- 152 Requirements are presented in **bold font** and indicated by the word 'shall'. An organization must 153 comply with requirements to report in accordance with the GRI Standards.
- 154 Requirements may be accompanied by guidance.
- 155 Guidance includes background information, explanations, and examples to help the organization 156 better understand the requirements. The organization is not required to comply with guidance.
- 157 The Standards may also include recommendations. These are cases where a particular course of 158 action is encouraged but not required.
- 159 The word 'should' indicates a recommendation, and the word 'can' indicates a possibility or option.
- 160 Defined terms are <u>underlined</u> in the text of the GRI Standards and linked to their definitions in the
- 161 <u>Glossary</u>. The organization is required to apply the definitions in the Glossary.



162 1. Topic management disclosures

An organization reporting in accordance with the GRI Standards is required to report how it manages each of its <u>material topics</u>.

165 An organization that has determined climate change to be a material topic is required to report how it

166 manages the topic using <u>Disclosure 3-3 in *GRI 3: Material Topics 2021*</u>. The organization is also

- required to report any disclosures from this section (Disclosure 102-1 through Disclosure 102-2) thatare relevant to its climate change-related impacts.
- 169 This section is therefore designed to supplement and not replace Disclosure 3-3 in *GRI* 3.

Disclosure 102-1 Transition plan for climate change mitigation

- 172 **REQUIREMENTS**
- 173 **The organization shall:**
- a. describe its transition plan, including policies and actions to mitigate climate change;
- b. describe how the transition plan aligns with the latest scientific evidence on the effort
 needed to limit global warming to 1.5°C, including the source of the climate change-related
 scenarios used, and the methodologies and assumptions used to develop the transition
 plan;
- 179 c. report the total expenditure incurred by the implementation of the transition plan as
 180 monetary value and percentage of the total expenditure incurred in the reporting period;
- 181 d. report the governance bodies or individual roles responsible for overseeing and
 182 implementing the transition plan and describe their responsibilities;
- 183 e. describe how the transition plan is embedded in its business strategy;
- 184 f. report the targets to achieve the transition plan and progress toward them, including:
- 185 i. <u>GHG</u> emissions reduction targets reported under Disclosure 102-4;
 - ii. targets to phase out fossil fuels, the <u>base year</u>, and standards, methodologies, and assumptions used to set the targets;
- iii. other climate change mitigation targets, how these were set, what is covered, the base
 year, and describe their role within the transition plan;
- g. describe how the transition plan aligns with just transition principles and how engagement
 with <u>stakeholders</u> informs its development and implementation;
- h. describe the <u>impacts</u> on people and the environment from implementing the transition plan
 and the actions taken to manage them, including:
- 194 **i** workers, local communities, and Indigenous Peoples;
- 195 **ii. biodiversity**;
- i. describe how its public policy activities, including lobbying activities, are consistent with
 the transition plan;
- i. explain, in the absence of a transition plan, why it does not exist, and describe the steps
 being taken to develop it and the expected time frame.

200 GUIDANCE

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- 201 This disclosure provides information about the organization's transition plan to mitigate climate
- 202 change. It covers the organization's activities and its upstream and downstream value chain.



- 203 According to the United Nations Framework Convention on Climate Change (UNFCCC), climate
- 204 change mitigation refers to global efforts to reduce greenhouse gas (GHG) emissions to halt global
- 205 temperature rise. 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-
- 207 industrial levels, as per the Paris Agreement.
- 208 Organizations are expected to contribute to climate change mitigation by developing and
- 209 implementing a transition plan, taking into account their responsibilities and capabilities to address
- climate change [1] [12]. The transition plan for climate change mitigation is an organization's overall
- strategy, containing policies, actions, investments, accountability mechanisms, and targets to limit
- global warming. It also contains monitoring systems to assess progress in achieving the transition
- 213 plan and the effectiveness of actions taken. The organization should regularly review and update its 214 transition plan and ensure it is fully embedded in its business strategy and financial planning.
- 215 Climate change mitigation and adaptation strategies are interconnected, with potential for synergies
- 216 [7]. Transition and adaptation plans can have common elements requiring an integrated approach,
- 217 including:

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- policies and actions;
- investments allocated for the implementation of the plan;
- governance processes;
 - alignment with just transition principles and <u>stakeholder</u> engagement.
- If the same information applies to both transition and adaptation plans and has been reported under
 Disclosure 102-2, the organization can provide a reference to this information under Disclosure 102-1
 and does not need to repeat the information.
- 225 Guidance to 102-1-a
- 226 Examples of policies to mitigate climate change can include policies on:
- energy consumption;
 - land use change, for example on deforestation;
 - engaging with <u>suppliers</u> to reduce their GHG emissions;
 - bioeconomy or circular economy;
 - just transition and on <u>human rights</u>.
- The organization should describe its policy for revising the transition plan, including the revision frequency. When the organization reviews its transition plan, it should describe any changes from the previous <u>reporting period</u>.
- 235 If the organization has described its policies to mitigate climate change under Disclosure 2-23 in *GRI* 236 2: General Disclosures 2021 or 3-3-c in *GRI* 3: Material Topics 2021, it can provide a reference to this
 237 information under Requirement 102-1-a and does not need to repeat the information.
- 238 The transition plan contains actions to be implemented in the short-, medium-, and long-term.
- Requirement 102-1-a does not require a detailed description of the actions. Instead, the organization
 can provide a high-level overview of the actions.
- In addition, the organization should describe how its transition plan addresses <u>impacts</u> on people and
 the environment associated with its transition risks and opportunities.
- 243 Transition risks can have negative impacts on people. For example, changes in consumer
- 244 preferences toward more sustainable products can lead to a reduction in sales and a loss of revenue
- for the organization, resulting in job loss. New regulations for less GHG emissions-intensive economic
- activities can also lead to difficulties for workers in transitioning their skill sets. To mitigate these
- 247 potential impacts, an organization can substitute its products with sustainable alternatives or upskill 248 workers through training.
- 249 Transition risks can also have negative impacts on the environment. For example, changes in
- regulation may require an organization to invest in large solar farms, which may lead to land use
- change and biodiversity loss.



Transition opportunities can include diversifying business activities, using efficient production and

transportation processes, incorporating new technologies, reducing resource consumption, andaccessing new markets.

255 If the organization has identified its climate-related transition risks and opportunities using other 256 regulatory frameworks or standards, it can use them to identify the impacts on the economy,

environment, and people.

258 Guidance to 102-1-b

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When describing how the transition plan aligns with the latest scientific evidence on the effort needed to limit global warming to 1.5°C, the organization should report how it is aligned with the mitigation hierarchy, including actions to:

- avoid GHG emissions by transitioning from fossil fuels to non-emitting energy sources such as renewables;
- reduce GHG emissions by, for example, improving energy efficiency and substituting disposable materials for reusable materials;
- deploy <u>GHG removal</u> methods that counterbalance residual GHG emissions after the organization has reduced its gross GHG emissions by at least 90%, and further reduction is not possible. See Guidance to 102-4-a-iii and 102-9-c for more information about GHG emissions reduction targets and GHG removals.
- 270 The organization should include at least one 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. The Intergovernmental Panel on Climate
 Change (IPCC) outlines scenarios based on the latest science. If the organization does not use IPCC
 scenarios, it should report the reasons for choosing another source and explain how they align with
- the latest science.
- 276 Scenario analysis allows consideration of alternative forms of future states simultaneously and can be
- used to explore an organization's climate change-related risks. Organizations typically define
 scenarios according to the transition speed, expressed in the resulting average global temperature
- changes.
- For further information on climate change scenario analysis, see references [1] and [21] in the
 Bibliography.
- 282 The organization should also explain its assessment of how transition risks and future developments
- such as changes in sales volumes or mergers and acquisitions can have impacts on the transition
 plan's compatibility with the 1.5°C pathway.

285 Guidance to 102-1-c

The percentage of the total expenditure incurred by the implementation of the transition plan is calculated using the following formula:

Percentage of the total expenditure incurred by the		Transition plan-related expenditure	¥ 400
implementation of the transition plan	=	Total expenditure	X 100

- 288 The organization should reconcile the total expenditure amounts with those in the audited
- 289 consolidated financial statements, if available, or in the financial information filed on public record for

the <u>reporting period</u>. The organization should explain this difference where the data reported does not reconcile with the audited consolidated financial statements or the financial information filed on public

- 292 record.
- 293 The organization should explain how the transition plan is factored into the organization's financial
- 294 planning by reporting the planned expenditure in implementing it and whether the highest governance 295 body and senior executives have approved the funding.



The organization should report a breakdown of the total expenditure incurred by the implementation of the transition plan in the <u>reporting period</u> by capital expenditure (CapEx) and operational expenditure

298 (OpEx).

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- 299 In addition, the organization should report:
- the expenditure incurred by fossil fuel-related activities in the reporting period;
 - the total expenditure incurred in the reporting period.

302 If the organization is subject to a regional or national taxonomy for sustainable economic activities 303 that include climate change mitigation objectives, it can report the expenditure as the amount of 304 CapEx and OpEx incurred by mitigation activities and whether the taxonomy is mandatory or 305 voluntary.

306 Guidance to 102-1-d

307 The organization should report whether:

- the highest governance body is responsible for overseeing the transition plan and what this
 includes, for example, approving, reviewing, and monitoring the plan, ensuring that it aligns
 with just transition principles (see Guidance to 102-1-g for more information), and overseeing
 processes to manage the <u>impacts</u> that result from it; or
- the senior executives are responsible for implementing the transition plan and what this
 includes.

314 Disclosures 2-12 and 2-13 in GRI 2: General Disclosures 2021 require information on the highest

315 governance body's role in overseeing the management of the organization's impacts and how it 316 delegates responsibility for this. If the organization has described the roles and responsibilities of the 317 governance bodies involved in overseeing and implementing the transition plan under Disclosures 2-

318 12 and 2-13, it can provide a reference to this information.

319 Guidance to 102-1-e

320 The organization should report:

- whether and how the responsibility to manage climate change-related impacts is linked to 321 322 performance assessments or incentive mechanisms. This includes whether and how the 323 remuneration policies for members of the highest governance body and senior executives are linked to the management of impacts that result from the organization's transition plan. 324 325 Disclosure 2-19 in GRI 2: General Disclosures 2021 requires information on the remuneration 326 policies for members of the highest governance body and senior executives. If the 327 organization has described the incentive mechanisms linked to the management of impacts that result from the organization's transition plan under Disclosure 2-19, it can provide a 328 329 reference to this information:
 - whether the performance of the highest governance body members is assessed against the progress toward <u>GHG</u> emissions reduction targets reported under <u>Disclosure 102-4</u> and whether dividend distribution is subject to the achievement of the targets;
 - how its research and development activities are aligned with its transition plan;
 - planned changes to its 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;
 - actions taken to build an organizational culture aligned with its transition plan, including leadership and workforce training programs on climate change mitigation and how the organization's activities transition to less GHG emissions-intensive economic activities;
 - whether an internal carbon pricing scheme is in place, and if so, describe the scheme, including which activities are covered and the prices used per metric ton of CO₂. The organization should also explain its approach to determining the carbon price and how it aligns with the latest scientific evidence.

344 Guidance to 102-1-f

When reporting progress toward the targets, the organization should describe known barriers to target achievement and, if applicable, the role of locked-in <u>GHG</u> emissions.



Locked-in GHG emissions are estimates of future GHG emissions released by an organization's key assets or products sold within its operating lifetime. The organization should:

- report a qualitative assessment of the locked-in GHG emissions from its key assets and products;
 - report a quantitative assessment of the locked-in GHG emissions from its key assets and products, if applicable (e.g., in the oil and gas sector);
- describe how these emissions may jeopardize the achievement of GHG emissions reduction
 targets and its plans to manage GHG-intensive assets and products.

355 Guidance to 102-1-f-ii

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- 356 Targets to phase out fossil fuels can include:
 - renewable energy procurement targets;
 - targets to phase out fossil fuel-based materials;
- targets to end the exploration of new fossil fuels, the expansion of existing fossil fuel reserves,
 and the extraction of fossil fuels.
- 361 For more information on targets to phase out fossil fuels, see reference [12] in the Bibliography.

362 Guidance to 102-1-f-iii

- If an organization cannot comply with this requirement because other climate change mitigation
 targets do not exist, it can comply with the requirement by reporting this to be the case.
- 365 Other climate change mitigation targets include any business, operational, engagement, and
- 366 governance targets used to drive and monitor the progress of its transition plan, including net-zero
- emissions and energy efficiency targets. Examples of reporting what is covered by the other climate
 mitigation targets include entities included for energy efficiency and governance targets, <u>stakeholder</u>
 categories for stakeholder engagement targets, and GHG emissions scopes included for net-zero
 targets.
- STO largels.
 - In the context of net-zero emissions targets, consistent with the climate change mitigation hierarchy,
 - organizations should prioritize implementing all feasible technical and scientific actions to avoid
 - and reduce GHG emissions across their <u>value chains</u> in alignment with the global effort needed to
 - limit global warming to 1.5°C. According to the latest scientific evidence, <u>GHG removals</u> within and
 beyond the value chain can only be used to counterbalance residual GHG emissions as the last step
- of the mitigation hierarchy [11]. Residual GHG emissions refer to the unabated GHG emissions after
- the organization has reduced at least 90% of its GHG emissions, and further reduction is not possible.
- If an organization is subjected to sectoral decarbonization pathways [11] [12], it may be subjected to a
 different percentage of GHG emissions reduction. For example, some sectors are expected to
 achieve net-zero emissions targets with no residual GHG emissions.
- For more information on other climate change mitigation targets, see references [11] and [12] in the Bibliography.
- Beyond <u>value chain</u> mitigation (BVCM), i.e., climate contributions, cannot be used to counterbalance
 residual <u>GHG</u> emissions for reaching net-zero emissions targets. For further information on mitigation
 beyond the value chain, see the <u>Guidance to 102-10-d</u> and reference [20] in the <u>Bibliography</u>.
- 386 See Disclosures 102-9 and 102-10 for more information about GHG removals and carbon credits.

387 Guidance to 102-1-g

- According to the International Labour Organization (ILO), a just transition involves greening the economy in a way that is as fair and inclusive as possible to everyone concerned, creating decent work opportunities, and leaving no one behind. A just transition involves maximizing the social and economic opportunities of climate action while minimizing and carefully managing any negative impacts. This is achieved through effective <u>stakeholder</u> engagement and respect for fundamental labor principles and rights.
- Key principles of a just transition are included in the ILO's *Guidelines for a just transition towards* environmentally sustainable economies and societies for all [9], the UNFCCC's Just transition of the workforce, and the creation of decent work and quality jobs [13], and the UN Declaration on the



- Rights of Indigenous Peoples [2]. These instruments put decent work, social dialogue and protection,
 recognition of labor rights, and at-risk or <u>vulnerable groups</u> at the center of the just transition.
- 399 The organization should report:
- how it identifies stakeholders, including whether it has performed a social impact assessment,
 whose <u>human rights</u>, health, socio-economic well-being, or other interests are or could be
 affected as a result of implementing the transition plan, including at-risk or <u>vulnerable groups</u>;
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 how it engages with stakeholders, their legitimate representatives, or proxy organizations to 404
 understand their concerns and interests;
- how the insights from stakeholder engagement, including from <u>workers</u>, trade unions, worker representatives, <u>suppliers</u>, <u>Indigenous Peoples</u>, <u>local communities</u>, and governments, have informed actions to prevent or mitigate negative impacts and maximize positive impacts resulting from the transition plan;
- the frequency of engaging with affected stakeholders on its transition plan.

Disclosure 2-29 in *GRI 2: General Disclosures 2021* covers the organization's approach to engaging
with its stakeholders. If the organization has described how engagement with its stakeholders has
informed the development and implementation of the transition plan under Disclosure 2-29, it can
provide a reference to this information.

414 Guidance to 102-1-h

415 Requirements 3-3-a and 3-3-d in *GRI 3: Material Topics 2021* describe the organization's impacts and

actions taken to manage them. If the organization has described the transition plan's impacts on
 people and the environment under 3-3-a and 3-3-d, including those from implementing the plan, it can

- 418 provide a reference to this information.
- Impacts on the environment from implementing a transition plan can include those related to pollution.
 For example, phasing out fossil fuels to reduce GHG emissions can reduce air pollution.
- 421 The organization should also describe the impacts on people and the environment associated with the 422 failure to implement its transition plan.

423 Guidance to 102-1-h-i

- An example of impacts on <u>workers</u> from implementing a transition plan is the termination of jobs following the reduction or phase-out of economic activities that produce high levels of <u>GHG</u>
- 426 emissions.

427 See Disclosure 102-3 for additional information to report on a just transition. Disclosure 102-3

- 428 contains metrics relevant to a range of impacts on workers, <u>local communities</u>, and <u>Indigenous</u>
 429 Peoples. In addition, the organization can use other relevant information not included in Disclosure
- 430 102-3 to report on impacts associated with its transition plan.

431 Guidance to 102-1-h-ii

Actions to mitigate climate change can have positive impacts on biodiversity. For example, building offshore wind farms to transition to wind energy can act as refuges for fish and marine mammals. Actions to mitigate climate change can also result in negative impacts on biodiversity. For example, building renewable energy-related infrastructure to transition to renewable energy can result in

biodiversity loss by damaging species' habitats due to land and sea use changes.

Disclosure 101-2 in *GRI 101: Biodiversity 2024* requires describing how the organization enhances
 synergies and reduces trade-offs between actions to manage its biodiversity and climate change
 impacts. If the organization has described the actions taken to manage the impacts on biodiversity
 resulting from its transition plan under Disclosure 101-2, it can provide a reference to this information.

441 Guidance to 102-1-i

- 442 The organization should report:
- its stance on significant issues related to the transition plan, for example, phasing out fossil
 fuels, that are the focus of its participation in public policy development and lobbying;
- any differences between its public policy activities and its stated policies, goals, or other
 public positions on issues related to its transition plan;



- whether it is a member of or contributes to any representative associations or committees that
 participate in public policy development and lobbying on issues related to its transition plan,
 including:
- 450 o the nature of this contribution;
- any differences between the organization's stated policies, goals, or other public
 positions on significant issues related to its transition plan and the positions of the
 representative associations or committees.
- This document does not represent an official position of the cases 454 The organization can also report its association memberships focusing on climate change and 455



456 **Disclosure 102-2 Climate change adaptation plan**

- 457 **REQUIREMENTS**
- 458 **The organization shall:**
- a. describe the <u>impacts</u> on people and the environment associated with its climate change related risks and opportunities and how they were considered in the development of the
 adaptation plan;
- 462 b. describe its adaptation plan, including:
- 463 i. policies and actions to adapt to climate change;
- 464 ii. the source of the climate change-related scenarios used, the temperature projection
 465 included in the scenarios, and the methodologies and assumptions used to develop
 466 the adaptation plan;
- 467 iii. the total expenditure incurred by the implementation of the adaptation plan as
 468 monetary value and percentage of the total expenditure incurred in the reporting
 469 period;
- iv. the governance bodies or individual roles responsible for overseeing and implementing
 the adaptation plan and describe their responsibilities;
- 472 v. the targets to achieve the adaptation plan and progress toward them;
- 473 vi. how the adaptation plan aligns with just transition principles and how engagement
 474 with <u>stakeholders</u> informs its development and implementation;
- 475 c. describe the impacts on people and the environment from implementing the adaptation
 476 plan and the actions taken to manage them, including:
- 477 i. workers, local communities, and Indigenous Peoples;
- 478 **ii. biodiversity**;
- 479 d. explain, in the absence of an adaptation plan, why it does not exist, and describe the steps
 480 being taken to develop it and the expected time frame.

481 GUIDANCE

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This disclosure provides information about the organization's plan to adapt to the effects of climate change. It covers the organization's activities and its upstream and downstream <u>value chain</u>.

484 Organizations contribute to climate change and are simultaneously affected by it. According to the 485 United Nations Framework Convention on Climate Change (UNFCCC), climate change adaptation 486 refers to changes in processes, practices, and structures in response to actual or potential climate-487 related events and their <u>impacts</u>. Adaptation aims to mitigate actual and potential negative impacts or 488 leverage opportunities associated with climate change. For example, adaptation can include building 489 flood defenses and redesigning business operations.

- 490 Impacts are reported under 102-2-a and 102-2-c as follows:
 - 102-2-a covers the organization's impacts on people and the environment associated with its climate change-related risks and opportunities. Based on *GRI 3*, the organization's impacts include impacts that the organization causes, contributes to, and is directly linked to. For example, an organization can be located in an area prone to flooding, which can cause the closure of production facilities, resulting in workers losing their jobs. The organization uses these impacts to inform the development of its adaptation plan.
- 497
 102-2-c covers the organization's impacts on people and the environment associated with 498 implementing its adaptation plan. For example, an organization can plant mangroves to 499 protect its production facilities against flooding, which also helps protect the local community 500 and improves water quality. Mangroves can also have positive impacts on biodiversity as 501 they provide habitats for wildlife.



502 Guidance to 102-2-a

- 503 Climate change-related risks can be classified as physical or transition risks.
- 504 Physical risks can be classified as:
- acute, including extreme weather events such as storms and flooding; or
- chronic, which are more gradual and longer-term, including rising mean temperatures that 507 lead to more frequent heatwaves or increased risk of wildfire and drought.
- 508 <u>Impacts</u> associated with physical risks can include:
- workers' and local communities' heat-related illness or disease;
- lack of services for local communities, such as access to energy or clean water, due to
 disruptions in energy and water supply caused by extreme weather events. For example, a
 hurricane;
 - loss of jobs due to the closure or relocation of production facilities;
 - local communities' loss of houses, farms, and infrastructure.
- 515 Transition risks may be relevant to both transition and adaptation plans. Transition risks relevant to
- 516 the adaptation plan can include new regulations on adaptation, increased costs caused by extreme 517 weather events, potential relocation to a less flood-prone area, and pressures exerted by
- 517 weather events, potential relocation to a less flood-prone area, and pressures exerted by 518 environmental and human rights groups on organizations to change practices. Only impacts
- associated with transition risks relevant to the adaptation plan are required to be reported under this
- 520 requirement.

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- 521 Climate change-related opportunities can include diversifying business activities, using efficient
- 522 production processes, incorporating new technologies, reducing resource consumption, and
- accessing new markets. Impacts associated with climate change-related opportunities can include job
 creation and redefining existing jobs that require reskilling.
- 525 If the organization has identified its climate-related risks and opportunities using other regulatory 526 frameworks or standards, it can use these risks and opportunities to identify the impacts on people 527 and the environment.

528 Guidance to 102-2-b

529 Climate change mitigation and adaptation strategies are interconnected, with potential for synergies 530 [7]. Transition and adaptation plans can have common elements requiring an integrated approach, 531 including:

- policies and actions;
 - investments allocated for the implementation of the plan;
 - governance processes;
 - alignment with just transition principles and <u>stakeholder</u> engagement.
- If the same information applies to both transition and adaptation plans and has been reported under
 Disclosure 102-1, the organization can provide a reference to this information under Disclosure 102-2
 and does not need to repeat the information.
- 539 The organization should report the frequency with which it reviews its adaptation plan and describe 540 any changes from the previous <u>reporting period</u>.
- 541 The organization can also report whether its adaptation plan is aligned with applicable national,
- 542 regional, or sectoral adaptation plans and list the relevant sources.

543 Guidance to 102-2-b-i

- If the organization has described its policies linked to its adaptation plan under Disclosure 2-23 in *GRI 2: General Disclosures 2021* or 3-3-c in *GRI 3: Material Topics 2021*, it can provide a reference to this
- 546 information under 102-2-b-i and does not need to repeat the information.
- 547 Requirement 102-2-b-i does not require a detailed description of the actions taken to implement the 548 adaptation plan. Instead, the organization can provide a high-level overview of the actions.
- 549 Actions to adapt to climate change may include working with <u>suppliers</u> to reduce reliance on depleting 550 resources and climate-proofing new facilities. Other actions may include supporting local



- 551 communities' disaster preparedness and response, strengthening community access to potable
- 552 water, and adapting to frequent water shortages. The organization can report adaptation actions by 553 type, such as nature-based adaptation, engineering, and technological solutions.
- 553 type, such as nature-based adaptation, engineering, and tec

554 Guidance to 102-2-b-ii

- 555 The climate change scenario analysis informs the development of the adaptation plan. When
- 556 developing an adaptation plan, organizations are encouraged to include a range of climate change-
- related scenarios, including at least one high-emissions scenario (with a temperature rise well above
- 558 2°C) and a scenario compatible with the Paris Agreement. A scenario compatible with the Paris 559 Agreement will require a temperature rise well below 2°C while pursuing efforts to limit global
- 560 temperature rise to 1.5°C. Other scenarios can be defined according to an organization's national
- 561 context.
- 562 The Intergovernmental Panel on Climate Change (IPCC) outlines scenarios based on the latest 563 science. If the organization does not use IPCC scenarios, it should report the reasons for choosing 564 another source and explain how they align with the latest science.
- 565 Scenario analysis allows consideration of alternative forms of future states simultaneously and can be
- used to explore an organization's climate change-related risks. Organizations typically define
 scenarios according to the transition speed, expressed in the resulting average global temperature
- 568 changes.

569 For further information on climate change scenario analysis, see references [1] and [21] in the

570 Bibliography.

571 Guidance to 102-2-b-iii

572 The percentage of the total expenditure incurred by the implementation of the adaptation plan is 573 calculated using the following formula:

Percentage of the total expenditure incurred by the	Adaptation plan-related expenditure	X 100
implementation of the adaptation plan	= Total expenditure	X 100
	olo	

- 574 The organization should reconcile the total expenditure amounts with those in the audited
- 575 consolidated financial statements, if available, or in the financial information filed on public record for
- the <u>reporting period</u>. The organization should explain this difference where the data reported does not
 reconcile with the audited consolidated financial statements or the financial information filed on public
 record.
- 579 The organization should report a breakdown of the total expenditure incurred by the implementation of
- 580 the adaptation plan in the reporting period by capital expenditure (CapEx) and operational 581 expenditure (OpEx).
- ooi expenditure (OpEx)
- 582 If the organization is subject to a regional or national taxonomy for sustainable economic activities 583 that include climate change adaptation objectives, it can report the expenditure as the amount of 584 CapEx and OpEx incurred by adaptation activities and whether the taxonomy is mandatory or 585 voluntary.
- 586 Guidance to 102-2-b-iv
- 587 The organization should report whether:
- the highest governance body is responsible for overseeing the adaptation plan and what this
 includes, for example, approving, reviewing, and monitoring the plan, ensuring it aligns with
 just transition principles (see Guidance to 102-1-g for more information), and overseeing
 processes to manage the impacts that result from it; or
- the senior executives are responsible for implementing the adaptation plan and determining
 what it includes.
- 594 Disclosures 2-12 and 2-13 in *GRI 2: General Disclosures 2021* require information on the highest 595 governance body's role in overseeing the management of the organization's <u>impacts</u> and how it



- 596 delegates responsibility. If the organization has described the roles and responsibilities of the 597 governance bodies involved in overseeing and implementing the adaptation plan under Disclosures 2-
- 598 12 and 2-13, it can provide a reference to this information.

599 Guidance to 102-2-b-v

- 600 Targets to achieve the adaptation plan can include the number of sites assessed for physical risks,
- 601 the number of sites for which adaptation plans are developed and implemented, the number of
- 602 employees that received relevant training, or the number of sites checked against withstanding
- 603 extreme weather events. Other examples of targets can include reducing the number of heat-related 604 sick leave, reducing damage costs from extreme weather events, and increasing the adaptive
- 604 sick leave, reducing damage costs from extreme weather events, and increasing the 605 capacity of exposed assets.
- 606 Guidance to 102-2-b-vi
- 607 See Guidance to 102-1-g for more information on just transition principles.
- 608 The organization should report:
- how it identifies <u>stakeholders</u>, including whether it has performed a social impact assessment, whose <u>human rights</u>, health, socio-economic well-being, or other interests are or could be affected as a result of implementing the adaptation plan, including at-risk or <u>vulnerable groups</u>;
 - how it engages with stakeholders or their legitimate representatives to understand their concerns and interests;
- how the insights from stakeholder engagement, including from workers, trade unions, worker representatives, <u>suppliers</u>, <u>Indigenous Peoples</u>, <u>local communities</u>, and governments, have informed actions to prevent or mitigate negative impacts and maximize positive impacts resulting from the adaptation plan;
- the frequency of engaging with affected stakeholders on its adaptation plan.
- 620 Disclosure 2-29 in *GRI 2: General Disclosures 2021* covers the organization's approach to engaging 621 with its stakeholders. If the organization has described how engagement with its affected stakeholders 622 has informed the development and implementation of the adaptation plan under Disclosure 2-29, it 623 can provide a reference to this information.

624 Guidance to 102-2-c

613 614

- 625 If an adaptation plan is well managed, it can translate into positive impacts such as economic 626 development and creation of decent work opportunities within the organization and in its upstream
- 626 development and creation of decent work opportunities within the organizat 627 and downstream value chain (including local employment).
- However, an adaptation plan can also result in negative impacts, including job loss after relocating a production facility to an area less prone to climatic weather events or flood protection measures to an organization's production site, resulting in increased flooding in neighboring communities.
- 631 Impacts on the environment from implementing an adaptation plan can include those related to 632 pollution. For example, relocating a production facility to an area less prone to climatic weather events 633 can lead to water pollution in the new area.
- Requirements 3-3-a and 3-3-d in *GRI 3: Material Topics 2021* entail describing the organization's impacts and the actions taken to manage them. If the organization has described the adaptation plan's impacts on people and the environment under 3-3-a and 3-3-d, including those from implementing the plan it can provide a reference to this information
- 637 implementing the plan, it can provide a reference to this information.
- 638 The organization should also describe the impacts on people and the environment associated with the
- failure to implement its adaptation plan, such as increased occupational health and safety impacts on workers, loss of livelihood, and food and water insecurity, or other negative impacts on workers
- 641 fundamental labor rights

642 Guidance to 102-2-c-i

- 643 See Disclosure 102-3 for quantitative indicators related to a just transition. In addition, the
- organization can use other relevant information not included in Disclosure 102-3 to report on <u>impacts</u>
- 645 associated with its adaptation plan.



646 Examples of actions taken to manage impacts on workers, local communities, and Indigenous 647 Peoples from implementing an adaptation plan are:

- supporting workers to find new work after they lost their jobs due to relocation of operations; 648
- 649 investing and utilizing nature-based (e.g., planting mangroves) or technological solutions on-650 site to prevent job termination rather than relocating production facilities;
- 651 providing technical and financial support or collaborating with local communities and 652 Indigenous Peoples to address the negative impacts arising from implementing adaptation measures. 653

654 Guidance to 102-2-c-ii

655 Actions to adapt to climate change can have positive impacts on biodiversity. For example, planting 656 mangroves can contribute to climate change adaptation by controlling floods and protecting 657 biodiversity by increasing wildlife populations. Actions to adapt to climate change, such as foresting 658 an area with non-native species to control erosion or constructing climate-resilient infrastructure, can also result in negative impacts on biodiversity by altering species habitats, causing land use change. 659

Disclosure 101-2 in GRI 101: Biodiversity 2024 requires describing how the organization enhances 660

ris , e the , vide a re vide a re noticean esent an official post this document does not represent an official post the post document docum synergies and reduces trade-offs between actions to manage its biodiversity and climate change 661

impacts. If the organization has described the actions taken to manage the impacts on biodiversity 662

resulting from its adaptation plan under Disclosure 101-2, it can provide a reference to this 663



665 **2. Topic disclosures**

666 An organization reporting in accordance with the GRI Standards is required to report any disclosures 667 from this section (Disclosure 102-3 through Disclosure 102-10) that are relevant to its climate change-668 related <u>impacts</u>.

669 Disclosure 102-3 Just transition

670	REQUIREMENTS

- 671 In the context of its transition or adaptation efforts, the organization shall:
- 672 a. report the total number of new employees recruited and a breakdown of this total by:
- 673 i. gender;
- 674 ii. employee type;
- b. report the total number of employees whose work was terminated and a breakdown of this
 total by:
- 677 i. gender;
- 678 ii. employee type;
- 679 c. report the total number of redeployed employees and a breakdown of this total by:
- 680 i. gender;
- 681 **ii. employee type**;
- 682 d. report the total number of employees who received training for up- and re-skilling, and a 683 breakdown of this total by:
- 684 i. gender;
- 685 ii. employee type;
- 686 e. report the total number of new <u>workers</u> who are not employees recruited and a breakdown 687 of this total by gender;
- 688 f. report the total number of workers who are not employees whose work was terminated and 689 a breakdown of this total by gender;
- g. report the total number and percentage of new employees recruited whose basic pay is at
 or above the cost-of-living estimate, and describe actions taken or commitments made to
 address any gaps between basic pay and the cost-of-living estimate for workers reported
 under 102-3-a and 102-3-e;
- h. list the locations of operation where the organization has impacts on local communities
 and Indigenous Peoples;
- i. report the percentage of locations of operation listed under 102-3-h in which an agreement
 has been reached with affected or potentially affected local communities or Indigenous
 Peoples to safeguard their interests;
- i. report contextual information necessary to understand the data reported under 102-3 and
 describe the methodologies and assumptions used to compile the data, including whether
 the numbers are reported:
- i. in head count, full-time equivalent (FTE), or using another methodology;
- ii. at the end of the <u>reporting period</u>, as an average across the reporting period, or using
 another methodology.



705 GUIDANCE

- 706 This disclosure describes some of the impacts of the organization's transition or adaptation efforts on
- 707 workers, local communities, and Indigenous Peoples. Managing these impacts leads to a just
 708 transition.
- According to the International Labour Organization (ILO), a just transition involves greening the
- economy in a way that is as fair and inclusive as possible to everyone concerned, creating decent
- 711 work opportunities and leaving no one behind. See Guidance to 102-1-g for more information on a
- 712 just transition.
- 713 The organization's transition and adaptation efforts are considered a significant change as they result
- in an alteration to the organization's pattern of operations that can potentially have significant positive
- 715 or negative impacts on workers.
- 716 Employee type refers to those reported under 2-7-b in GRI 2: General Disclosures 2021: permanent
- 717 employees, temporary employees, non-guaranteed hours employees, full-time employees, and part 718 time employees.
- The organization should provide a breakdown of the information reported under 102-3-a through 102-3-f by region.
- For an example of how to present information on requirements in Disclosure 102-3, see Table 1 and Table 2.

723 Guidance to 102-3-a and 102-3-e

- As a result of the organization's transition or adaptation efforts, workers may be recruited due to the development of new low-carbon-intensive products, services, and sites. These include workers recruited in renewable energy, energy efficiency, and adaptation projects. For example, building
- 727 climate-resilient infrastructure, agroforestry initiatives, and ecosystem restoration.

728 Guidance to 102-3-b and 102-3-f

- 729 Termination refers to the cessation of work initiated by the organization. In the context of these
- requirements, termination refers to mass termination or work that is phased out due to the
- organization's transition or adaptation efforts. For example, when <u>GHG</u> emissions-intensive economic
 activities are reduced or phased out entirely, resulting in the termination of work.

733 Guidance to 102-3-c

- 734 In a just transition, redeployment occurs when employees working in high-emission economic
- 735 activities are re-skilled to work in lower-emission activities within the same organization. For example,
- an existing employee in automobile manufacturing may be redeployed to work in the production line
 of electric cars. Redeployment can help organizations reduce termination.

738 Guidance to 102-3-d

The organization can describe the impacts of the training for up- and re-skilling provided to employees, such as more job security or increased basic pay.

741 Guidance to 102-3-e, 102-3-f, and 102-3-g

- 742 'Workers who are not employees' refers to workers who are not employees and whose work is
- controlled by the organization. Workers who are not employees perform work for the organization but
- are not in an employment relationship with the organization. Control of work implies that the
- organization directs the work performed or has control over the means or methods for performing the
- work. See Guidance to 2-8-a in *GRI 2: General Disclosures 2021* for more information on workers
- 747 who are not employees.

748 Guidance to 102-3-g

- 749 Cost-of-living estimates are approximate calculations determining the necessary amount to cover an
- individual and their family's basic expenses like food, housing, and healthcare in a specific location.
- These estimates aim to ensure that workers and their families can maintain a decent standard of
- 752 living.



- 753 The organization describes the actions taken or commitments made to address any gaps between
- basic pay and the cost-of-living estimates for new employees recruited and reported under 102-3-a
- and for new workers who are not employees recruited and reported under 102-3-e.

756 Guidance to 102-3-h

757 The organization should report the specific locations within countries (e.g., states and cities) to report

- on the locations of operation where its transition or adaptation efforts have <u>impacts</u> on <u>local</u>
 <u>communities</u> and <u>Indigenous Peoples</u>, including impacts on the rights of Indigenous Peoples as set
- out in the UN Declaration on the Rights of Indigenous Peoples [2].
- The organization can also list the locations of operation where its transition or adaptation efforts have impacts on other <u>stakeholders</u>, including other <u>vulnerable groups</u>.

763 Guidance to 102-3-i

764 Organizations are expected to engage with local communities and Indigenous Peoples to prevent or 765 mitigate potential negative impacts and take actions to address actual negative impacts, including 766 through remediation. This also applies in the context of transition and adaptation efforts.

- 767 See reference [3] in the Bibliography.
- 768 This requirement aims to understand the effectiveness of the organization's engagement with local 769 communities and Indigenous Peoples.
- Agreements through free, prior, and informed consent (FPIC) that uphold rights and safeguard the

interests of Indigenous Peoples provide clear, sustainable, and accountable outcomes of such

engagements. Under the UN Declaration on the Rights of Indigenous Peoples, Indigenous Peoples

have additional rights beyond FPIC, and organizations are expected to avoid infringing on them while

- implementing transition or adaptation efforts. For more guidance, see *GRI 411: Rights of Indigenous Peoples 2016* and reference [2] in the Bibliography.
- *Peoples 2016* and reference [2] in the Bibliography.
- An organization's transition or adaptation efforts can have economic, social, and cultural impacts, as
- 777 well as environmental impacts on local communities. Establishing a timely and effective engagement 778 process is important to help the organization understand the vulnerability of local communities and
- how these could be affected by the organization's transition or adaptation efforts. For more guidance,
- 780 see GRI 413: Local Communities 2016.
- 781 To calculate the percentage under this requirement, the organization uses the list of locations of
- operation reported under 102-3-h. For each location of operation with agreements in place, the
- organization should report whether these agreements were made with all affected and potentially
- 784 affected <u>local communities</u> or <u>Indigenous Peoples</u>, or only some.

785 Guidance to 102-3-j

786 If the organization cannot directly calculate the numbers reported under 102-3-a through 102-3-f, it 787 can report estimates of the numbers and explain this under 102-3-j.

788 Table 1. Example template for presenting just transition metrics on workers by gender

2005	Men	Women	Other*	Not disclosed**	Total
Number of new employees recruited					
(102-3-a-i)					
Number of new workers who are not employees recruited					
(102-3-е)					



Number of employees whose work was terminated (102-3-b-i)				
Number of workers who are not employees whose work was terminated				GSSB
(102-3-f)				
Number of redeployed employees				
(102-3-c-i)				
Number of employees who received training for up- and re-skilling (102-3-d-i)		official	Q ⁰⁵¹	

- * Gender as specified by the workers themselves. 789
- 790 ** Gender is not disclosed by the workers themselves.

The organization is free to choose how to report the breakdowns by gender. It is not required to report 791 the four categories suggested in Table 1. For example, instead of an 'other' category, the organization 792 can report any gender category specified by workers. 793

794 Table 2. Example template for presenting information on just transition impacts on employees 795 by employee type 5

						-
	Permanent employees	Temporary employees	Non- guaranteed hours employees	Full-time employees	Part-time employees	Total
Number of new employees recruited (102-3-a-ii)						
Number of employees whose work was terminated (102-3-b-ii)						



employees (102-3-c-ii)				
Number of employees who received training for				0
(102-3-d-ii)				S
up- and re- skilling (102-3-d-ii)		Ś	icial positi	



796 Disclosure 102-4 GHG emissions reduction targets

797 and progress

798 REQUIREMENTS

- 799 **The organization shall**:
- a. report short-, medium-, and long-term gross Scope 1, Scope 2, and Scope 3 GHG
 emissions reduction targets in metric tons of CO₂ equivalent and as a percentage of base
 year emissions, where:
- gross Scope 1, Scope 2, and Scope 3 GHG emissions reduction targets are reported
 separately or where Scope 1 and Scope 2 GHG emissions are combined;
- 805ii. gross Scope 1 and Scope 2 GHG emissions reduction targets cover the total Scope 1806and Scope 2 GHG emissions reported under Disclosures 102-5 and 102-6;
- 807 iii. <u>GHG removals</u>, <u>GHG trades</u>, and avoided GHG emissions are excluded;
- 808b. for each gross GHG emissions reduction target, report whether biogenic CO2 emissions809are included in the target;
- c. for each gross Scope 2 GHG emissions reduction target, report whether the targets use the
 location-based or market-based method;
- d. for each gross Scope 3 GHG emissions reduction target, list the Scope 3 categories
 covered by the targets;
- e. for each gross GHG emissions reduction target, report the gases covered by the target;
- 815f.explain how the gross GHG emissions reduction targets align with the latest scientific816evidence on the effort needed to limit global warming to 1.5°C;
- 817 g. describe its gross GHG emissions reduction target revision policy;
- 818 h. for each gross GHG emissions reduction target, report the base year, including:
- 819 i. the rationale for choosing it;
- 820 ii. base year emissions in metric tons of CO₂ equivalent;
- iii. the context for any significant changes in emissions that triggered recalculations of
 base year emissions;
- iv. the previously reported base year emissions, if base year emissions are recalculated;
- report the progress toward each gross GHG emissions reduction target using the
 inventory method, in metric tons of CO₂ equivalent, and as a percentage of a base year
 emissions;
- j. for each gross GHG emissions reduction target, explain how the progress toward the
 target was achieved and whether it is due to:
- 829 i. reductions as a result of the organization's initiatives; or
- 830 **ii. other factors**;
- 831 k. report standards, methodologies, assumptions, and calculation tools used.

832 GUIDANCE

833 The GHG emissions reduction targets reported under this disclosure are used to report the targets to 834 achieve the transition plan under Disclosure 102-1-f.

835 Guidance to 102-4-a

836 The organization should ensure consistency between Scope 3 categories covered by the target and 837 Scope 3 categories covered by Disclosure 102-7.



838 The organization should report how it defined the period for its short-, medium-, and long-term targets. 839 Examples of how an organization can define its short-, medium-, and long-term targets include:

- A short-term target of 5 to 10 years from the <u>base year</u>, a medium-term target of 10 to 15 years from the base year, and a long-term target of 20 to 30 years (e.g., by 2050) from the base year.
- A short-term target of 1 to 2 years from the base year, a medium-term target of 3 to 5 years from the base year, and a long-term target of 10 years from the base year.
- 844 Short-, medium-, and long-term time horizons can vary between organizations and depend on many 845 factors, including industry-specific characteristics. The organization should also report the year in 846 which the targets were set. For further information on short-, medium- and long-term targets, see 847 reference [12] in the Bibliography.
- 848 If significant changes compromise the relevance and consistency of existing <u>GHG</u> emissions
 849 reduction targets, the organization should recalculate its targets to reflect those changes. The
 850 organization is required to report restatements of information under Disclosure 2-4 in *GRI 2: General* 851 *Disclosures 2021*.
- In addition to reporting <u>Scope 1</u>, <u>Scope 2</u>, and <u>Scope 3 GHG emissions</u> reduction targets, the organization can report intensity targets. Intensity targets should be reported separately for Scope 1,
- 854 Scope 2, and Scope 3.

855 Guidance to 102-4-a-i

- The organization can also report a combined GHG emissions reduction target, including Scope 1, Scope 2, and Scope 3 GHG emissions. In such a case, the organization should explain why this
- 858 information is relevant, for example, within the organization's sector.
- 859 When reporting combined GHG emissions reduction targets, the organization should report the 860 percentage that each scope represents compared to the total GHG emissions included in the target.

861 Guidance to 102-4-a-ii

862 If the organization reports Scope 1 and Scope 2 GHG emissions reduction targets not covering the 863 total Scope 1 and Scope 2 GHG emissions reported under Disclosures 102-5 and 102-6, it should 864 explain why. It should also report the percentage of total Scope 1 and Scope 2 GHG emissions the 865 target covers and outline a timeline and steps to cover the total.

866 Guidance to 102-4-a-iii

- 867 <u>GHG removals, GHG trades</u> (including carbon credits), and avoided GHG emissions are excluded
 868 from an organization's gross GHG emissions reduction targets reported under 102-4-a. See Guidance
 869 to 102-9-c and 102-10-d for more information on the use of GHG removals and carbon credits.
- 870 Avoided GHG emissions fall under a separate accounting system from corporate inventories and do 871 not count toward GHG emission reduction targets.
- 872 Organizations that are subjected to sector programs that allow them to set net GHG emissions
- 873 reduction targets are expected to report GHG emissions reduction targets and GHG removals
- separately. In such a case, the organization should report the sector program based on authoritative
- scientific evidence adopted. For further guidance, see reference [10] in the Bibliography.

876 Guidance to 102-4-b

- Science-based target-setting initiatives require including <u>biogenic CO₂ emissions</u> in each gross <u>GHG</u>
 emissions reduction target.
- 879 See reference [11] in the Bibliography.

880 Guidance to 102-4-c

- 881 If the organization reports Scope 2 GHG emissions reduction targets using the market-based method,
- the organization should separately report Scope 2 GHG emissions reduction targets using the location-based method.
- When organizations use the market-based method to set Scope 2 GHG emissions reduction targets,
 the Scope 2 quality criteria apply to the contractual instruments used. For more information on Scope
 2 quality criteria, see Guidance to 102-6-a.



887 Guidance to 102-4-d

888 If a <u>Scope 3 GHG emissions</u> target does not cover all Scope 3 categories, the organization should 889 report the percentage of Scope 3 emissions covered by the target (reported under 102-7-a and 102-7-

890 c). The percentage can be calculated using the following formula:

Percentage of Scope 3 emissions		Scope 3 emissions covered by the target X 100
covered by the target	_	Gross Scope 3 emissions (102-7-a) + Biogenic Scope 3 emissions (102-7-c)

- The organization should explain why any Scope 3 categories are excluded and describe the steps taken to include all categories in the future.
- 893 For more information on GHG Scope 3 emissions categories, see Guidance to 102-7-a.

894 Guidance to 102-4-f

The organization should report whether and how the GHG emissions reduction targets are aligned with applicable sector-specific science-based pathways.

- 897 The organization should report which guidance or framework has been used to determine the targets,
- 898 including the underlying climate and policy scenarios. The organization should explain how it has
- 899 considered future developments (e.g., changes in sales volumes, mergers, and acquisitions) and
- transition risks and opportunities (e.g., changes in consumer behavior and demand, enhanced
 regulatory landscape, and new technologies) when setting the GHG emissions reduction targets. The
- regulatory landscape, and new technologies) when setting the GHG emissions reduction targets. The
 organization should also explain how these developments and risks may affect the achievement of
 the targets.

904 Guidance to 102-4-g

- 905 When reporting 102-4-g, an organization can report the frequency of updating the GHG emissions 906 reduction targets. For example, an organization can report that it updates its GHG emissions 907 reduction targets every five years.
- 908 The organization should also report the main reasons for revising its GHG emissions reduction target, 909 for example:
- 910 <u>stakeholder</u> demand (e.g., customers, investors);
- evolution of scenarios used to inform the targets;
 - evolution of standards or references used to inform the targets;
 - changing environment (e.g., changes in the cost of renewable energy);
 - technological breakthrough (e.g., new production process);
 - legislative changes;
 - target has been achieved before the target year;
 - improvement in the <u>GHG</u> emissions calculation method.

918 Guidance to 102-4-h-i

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- 919 While different years can be used for the inventory (under 102-5, 102-6, and 102-7) and target <u>base</u> 920 <u>years</u> (under 102-4), using the same year for both is generally simpler.
- 921 For further information on target base year selection, the organization can refer to the *GHG Protocol* 922 *Corporate Accounting and Reporting Standard* [14].

923 Guidance to 102-4-h-iii

- 924 Cases that can trigger a recalculation of base year emissions include:
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 926 structural changes in the organization that have a significant effect on its base year
 926 emissions, including mergers, acquisitions, divestments, outsourcing, and insourcing of
 927 emitting activities;
- changes in calculation methodology or improvements in the accuracy of emission factors or activity data that result in a significant effect on the base year emissions data;



930 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 931 932 prevent such errors in future reporting.

933 Guidance to 102-4-i

934 When reporting progress toward the GHG emissions targets, GHG removals, GHG trades, and 935 avoided GHG emissions are excluded.

936 Progress toward GHG emissions targets covers reductions or increases in GHG emissions.

937 The inventory method compares emissions to a base year. Progress toward the targets using the inventory method is calculated using the following formula: 938

Change in emissions Current year emissions - Base year emissions

- More information on the inventory method is available in the GHG Protocol Corporate Accounting and 939 Reporting Standard. 940
- 941 Progress toward the targets as a percentage of a base year's emissions is calculated using the following formula: 942

Progress	=	Change in emissions Base year emissions	X 100
		and the second s	

- The progress can be reported as a percentage, as in the following example: Scope 1 and Scope 2 943 GHG emissions have been reduced by 20% from the 2019 base year. 944
- 945 For an example of how to present information on requirements in Disclosure 102-4, see Table 3.
- When reporting progress toward GHG emissions reduction targets, the organization should describe 946 known barriers to target achievement and, if applicable, the role of locked-in GHG emissions. For 947 more information on locked-in GHG emissions, see Guidance to 102-1-f. 948

949 Guidance to 102-4-j

Progress toward GHG emissions reduction targets can be achieved through the organization's 950 951 initiatives or changes in the emissions due to other effects or factors.

- 952 Initiatives of the organization that result in GHG emission reductions can include:
- 953 process redesign:
- conversion and retrofitting of equipment; 954
- fuel switching; 955
- 956 changes in behavior.
- 957 Other effects or factors that result in GHG emissions reductions can include:
- decarbonization of the electricity grid caused by government policy; 958
- 959 decarbonization of purchased products and services initiated by suppliers; 960
 - reduced emissions from waste disposal due to government waste policy;
 - changes in consumer behavior (e.g., driving less).

962 Guidance to 102-4-k

- 963 The organization should report whether an independent third party has validated GHG emissions
- 964 reduction targets and related progress, and if so, which party conducted the validation and the
- 965 standard or methodology used.



966 Table 3. Example template for presenting information on GHG emissions reduction targets.

	Information on target		Information on progress		Information on how the target was set						
GHG emissio ns reducti on targets	Target year (102-4-a)	Target emissions (%) (102-4-a)	Target emissions (MtCO2e) (102-4-a)	Progress (%) (102-4-i)	Progress (MtCO2e) (102-4-i)	Base year (102-4-h)	Base year emissions (MtCO ₂ e) (102-4-h- ii)	Biogenic CO2 emissions included in the target (yes/no) (102-4-b)	Gases covered (102-4-e)	Scope 3 categorie s covered (102-4-d)	Percenta ge of emission s included within each Scope ¹
Scope 1 target (102-4- a-i)											50
Scope 2 target location -based (102-4-c)									0		
Scope 2 target market- based (102-4-c)								Sili	0		
Scope 3 target (102-4- a-i)							FICIA	2			
Scope 1 and 2 target (102-4- a-i)						N SI)`				
Scope 1, 2, and 3 target ²					N ^{CSC}						

Note: Gray cells indicate non-applicable items.

² Note that this is recommended, but not required.



¹ Note that this is recommended, but not required.

⁹⁶⁸ **Disclosure 102-5 Scope 1 GHG emissions**

- 969 REQUIREMENTS 970 The organization shall: 971 report gross Scope 1 GHG emissions in metric tons of CO₂ equivalent, and in the a. calculation: 972 include emissions of CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃; 973 i. 974 ii. include biogenic non-CO₂ GHG emissions produced by combustion or biodegradation 975 of biomass from owned or controlled sources; iii. exclude GHG removals, GHG trades, and avoided emissions; 976 iv. use the global warming potential (GWP) values based on a 100-year timeframe from the 977 latest IPCC assessment report; 978 979 b. provide a breakdown of gross Scope 1 GHG emissions by CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃, in metric tons and metric tons of CO₂ equivalent; 980 c. report biogenic CO2 emissions from the combustion or biodegradation of biomass from 981 982 owned or controlled sources in metric tons, separately from gross Scope 1 GHG emissions; 983 d. report the base year for the calculation, including: 984 985 i. the rationale for choosing it; 986 ii. base year emissions in metric tons of CO₂ equivalent separately for gross Scope 1 GHG emissions and biogenic CO₂ emissions; 987 iii. the context for any significant changes in emissions that triggered recalculations of 988 989 base year emissions; iv. the previously reported base year emissions, if base year emissions are recalculated; 990 991 e. report the consolidation approach for Scope 1 GHG emissions that is consistently applied across Scope 1, Scope 2, and Scope 3 GHG emissions, whether equity share, financial 992 993 control, or operational control; report standards, methodologies, assumptions, and calculation tools used, including the 994 f. 995 source of the emission factors used. **GUIDANCE** 996 Gross Scope 1 GHG emissions include those from energy consumption as reported under 103-2-a in 997 998 GRI 103: Energy 2025. 999 Gross Scope 1 GHG emissions come from sources owned or controlled by an organization. They are 1000 principally the result of the following types of activities undertaken by an organization: 1001 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 other 1002 combustion processes, such as flaring. 1003 Physical or chemical processing - these emissions often result from manufacturing or 1004 processing chemicals and materials, such as cement, steel, aluminum, ammonia, and waste 1005 1006 processing. Transportation of materials, products, waste, workers, and passengers - these emissions 1007 result from the combustion of fuels in mobile combustion sources owned or controlled by the 1008
 - result from the combustion of idels in mobile combustion sources owned of controlled by the organization, such as trucks, trains, ships, airplanes, buses, and cars.
 Fugitive emissions these result from intentional or unintentional release of GHGs. These include equipment leaks from joints, seals, packing, and gaskets; methane (CH₄) emissions from coal mines and venting or other leakages; and hydrofluorocarbon (HFC) emissions from
 - 1013 refrigeration and air conditioning equipment.



- 1014 As specified in the Comparability principle in *GRI 1: Foundation 2021*, the organization should present
- 1015 the information under 102-5-a, 102-5-b, and 102-5-c for the current <u>reporting period</u> and at least two 1016 previous reporting periods.
- For an example of how to present information on requirements in Disclosure 102-5, see Table 7 and
 Table 8 in the Appendix.

1019 Guidance to 102-5-a

- 1020 Gross <u>Scope 1 GHG emissions</u> include the seven gases the Kyoto Protocol covers [6] [18]. The 1021 organization can report emissions from other GHGs, such as the Montreal Protocol gases [5], 1022 separately from gross Scope 1 GHG emissions.
- 1023 Where it aids transparency or comparability over time, the organization can provide breakdowns of gross Scope 1 GHG emissions by:
 - business unit or facility;
 - country;

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- type of source (e.g., stationary or mobile combustion, process emissions, and fugitive emissions);
- type of activity (e.g., physical or chemical processing; transportation of materials, products, waste, and <u>employees</u>; and fugitive emissions).

1031 Guidance to 102-5-a-iii

1032 Scope 1 GHGs emitted during GHG removal activities are reported under 102-5-a.

1033 Guidance to 102-5-a-iv

- 1034 If the organization reports information for previous reporting periods calculated using different
- 1035 Intergovernmental Panel on Climate Change (IPCC) <u>GWP</u> values, it should report the values used in
 1036 each reporting period.

1037 Guidance to 102-5-c

- As per the *GHG Protocol Corporate Accounting and Reporting Standard*, <u>biogenic CO₂ emissions</u> from the combustion or biodegradation of biomass from owned or controlled sources are reported separately under 102-5-c and not included in the calculation for 102-5-a. Biogenic non-CO₂ GHG emissions, such as methane (CH₄) and nitrous oxide (N₂O), from the combustion or biodegradation of
- biomass from owned or controlled sources, are reported as part of gross Scope 1 GHG emissions.

1043 Guidance to 102-5-d

1044 The organization should report Scope 1 GHG emissions consistently according to its recalculation 1045 policy when there are recalculations of the base year emissions.

1046 Guidance to 102-5-d-iii

- 1047 Cases that can trigger a recalculation of base year emissions include:
- structural changes in the organization that have a significant effect on its 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
 - changes in calculation methodology or improvements in the accuracy of emission factors or activity data that result in a significant effect on 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.
- 1056 For further information on recalculations of emissions in previous <u>reporting periods</u>, the organization 1057 can refer to the <u>GHG</u> Protocol Corporate Accounting and Reporting Standard [14].

1058 Guidance to 102-5-e

- 1059 The organization should explain the reason for choosing the consolidation approach.
- 1060 The organization should report gross <u>Scope 1 GHG emissions</u> for the entities included in its financial 1061 reporting. If the entities included in its financial reporting differ from the list of entities in its



- sustainability reporting, the organization is required to specify the differences under Disclosure 2-2 in 1062 GRI 2: General Disclosures 2021. See also section 5.1 in GRI 1: Foundation 2021. 1063
- 1064 If the organization includes entities in its sustainability reporting that are not included in its financial reporting, it should report their gross Scope 1 GHG emissions data separately (e.g., from associates, 1065 joint ventures, and unconsolidated subsidiaries). 1066
- 1067 If there are any changes in the organizational boundaries, the organization should report these 1068 changes.
- 1069 Guidance to 102-5-f
- 1070 Methodologies used to calculate gross Scope 1 GHG emissions can include:
- 1071 direct measurements of GHG emissions;
- 1072 calculation of GHG emissions based on activity data (e.g., fuel use) and emission factors. •
- 1073 The organization should explain why the standards, methodologies, assumptions, and calculation 1074 tools were chosen, including the source of the emission factors used.
- 1075 The emission factors can originate from mandatory reporting requirements, voluntary reporting
- frameworks, industry groups, scientific papers, commercial data providers, and suppliers to the 1076 1077 reporting organization.
- rie document does not represent an official of The organization should consistently apply emission factors to calculate 102-5-a and 102-5-c. 1078



1079 **Disclosure 102-6 Scope 2 GHG emissions**

- 1080 **REQUIREMENTS**
- 1081 The organization shall:
- 1082a. report gross location-based and, if applicable, market-based Scope 2 GHG emissions in1083metric tons of CO2 equivalent, and in the calculation:
- 1084 i. include emissions of CO₂, CH₄, and N₂O;
- 1085 ii. include biogenic non-CO₂ <u>GHG</u> emissions from electricity use;
- 1086 iii. exclude <u>GHG removal</u>s, <u>GHG trades</u>, and avoided emissions;
- 1087iv. use the global warming potential (GWP)values based on a 100-year timeframe from the1088latest IPCC assessment report;
- 1089 b. provide a breakdown of gross location-based Scope 2 GHG emissions by CO₂, CH₄, and 1090 N₂O in metric tons and metric tons of CO₂ equivalent;
- 1091 c. report location-based and, if applicable, market-based <u>biogenic CO₂ emissions</u> from 1092 electricity use in metric tons, separately from gross Scope 2 GHG emissions;
- 1093 d. report the base year for the calculation, including:
- 1094 i. the rationale for choosing it;
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 ii. base year emissions in metric tons of <u>CO₂ equivalent</u> separately for gross Scope 2
 GHG emissions and biogenic CO₂ emissions;
- 1097 iii. the context for any significant changes in emissions that triggered recalculations of
 1098 base year emissions;
- 1099 iv. the previously reported base year emissions, if base year emissions are recalculated;
- report the consolidation approach for Scope 2 GHG emissions that is consistently applied across <u>Scope 1</u>, Scope 2, and <u>Scope 3 GHG emissions</u>, whether equity share, financial control, or operational control;
- 1103f.report standards, methodologies, assumptions, and calculation tools used, including the1104source of the emission factors used.

1105 GUIDANCE

- 1106 Gross Scope 2 GHG emissions include those from the generation of purchased or acquired electricity,
- heating, cooling, and steam consumed by an organization reported under 103-2-b in *GRI 103: Energy* 2025. For many organizations, Scope 2 GHG emissions from the generation of purchased or acquired
 electricity can be much greater than Scope 1 GHG emissions.
- As specified in the Comparability principle in *GRI 1: Foundation 2021*, the organization should present the information under 102-6-a, 102-6-b, and 102-6-c for the current <u>reporting period</u> and at least two
- 1112 previous reporting periods.
- 1113 For an example of how to present information on requirements in Disclosure 102-6, see Table 7 and 1114 Table 8 in the Appendix.
- 1115 Guidance to 102-6-a

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- 1116 There are two methods to calculate gross Scope 2 GHG emissions:
 - A location-based method, which reflects the average GHG emissions intensity of grids on which energy consumption occurs, using grid-average or national production mix emission factor data.
- A market-based method, which reflects GHG emissions from 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.



- 1124 The market-based method applies to organizations with operations in markets that provide product- or 1125 supplier-specific data in the form of contractual instruments.
- The gross Scope 2 GHG emissions cover CO_2 , CH_4 , and N_2O . These GHGs occur from energy 1126
- production processes (e.g., combustion) and are relevant for the gross Scope 2 GHG emissions 1127 1128 calculation.
- 1129 No known cases exist where other GHGs covered by the Kyoto Protocol (HFCs, PFCs, SF₆, and NF₃)
- are released from energy production processes for purchased electricity, heating, cooling, and steam. 1130
- However, if released, they can be included in the Scope 2 GHG emissions. In such a case, the 1131 organization should report which other GHGs covered by the Kyoto Protocol are included and explain
- 1132 1133 how these emissions are relevant for Scope 2 GHG emissions reporting.
- The organization can report emissions from other GHGs, such as the Montreal Protocol gases [5], 1134 1135 separately from gross Scope 2 GHG emissions.
- 1136 Where it aids transparency or comparability over time, the organization can provide breakdowns of 1137 gross Scope 2 GHG emissions by, for example:
 - business unit or facility;
- 1139 country: •

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- type of source (electricity, heating, cooling, and steam);
- 1141 • type of activity.
- 1142 According to the GHG Protocol Scope 2 Guidance [16], in a market-based calculation, emission
- factors should be chosen based on the following hierarchy: energy attributes and certificates; 1143
- contracts for electricity; supplier and utility emission rates; residual mix; and other regional, 1144
- subnational, and national grid-average emission factors. 1145
- 1146 If a residual mix is unavailable, the organization can use grid-average emission factors as a proxy.
- 1147 meaning that the location-based and market-based GHG emissions will be the same until information 1148 on the residual mix is available. The organization should report if a residual mix is unavailable and if grid-average emission factors are used as a proxy. 1149
- 1150 For further information on the emission factors hierarchy, see references [16] and [19] in the 1151 Bibliography.
- The following quality criteria, built on the GHG Protocol Scope 2 Guidance, apply to the market-based 1152 1153 method:
- Contractual instruments must convey the GHG emission rate attribute associated with 1154 • the electricity produced. Attributes are defined as descriptive or performance 1155 characteristics of a particular generation resource. Each contractual instrument must be 1156 1157 the only source of a GHG emission rate attribute claim associated with its quantity of 1158 energy generation. 1159
 - Contractual instruments must be tracked and redeemed, retired, or canceled by or on behalf of the reporting organization.
 - Contractual instruments must be issued and redeemed as close as possible to the energy consumption period the contractual instrument applies to.
- 1163 Contractual instruments must be sourced from the same market to which the contractual instrument is applied. 1164
- 1165 • Utility-specific emission factors should be calculated, including certificates retired on behalf of customers, and applying the residual mix rate to null power. 1166 1167
 - A residual mix must represent the GHG intensity of unclaimed or publicly shared electricity.
- 1168 For further information on the quality criteria for gross Scope 2 GHG emissions accounting following 1169 the market-based method and how to support accurate accounting if an organization cannot meet the 1170 Scope 2 quality criteria, see the GHG Protocol Scope 2 Guidance [16].
- 1171 The organization should also describe how it strives for the temporal and physical connection
- 1172 between contractual instruments and their associated energy consumption. For example, the
- 1173 contractual instrument can be sourced from the same grid or country where it is applied, and the
- contractual instrument can be issued with hourly matching. 1174



- 1175 If the organization reports gross market-based Scope 2 GHG emissions under 102-6-a, it should
- 1176 report which types of contractual instruments it uses (e.g., power purchase agreements, utility green
- 1177 tariffs, unbundled certificates) and the percentage of the total purchased electricity covered by each
- 1178 instrument. The organization can report additional information on the contractual arrangements, for
- 1179 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.

1186 Guidance to 102-6-a-iv

- 1187 If the organization reports information for previous <u>reporting periods</u> calculated using different
- 1188 Intergovernmental Panel on Climate Change (IPCC) <u>GWP</u> values, it should report the values used in 1189 each reporting period.

1190 Guidance to 102-6-b

- 1191 If the organization reports gross market-based Scope 2 GHG emissions under GH-2-a, it should
- 1192 provide a breakdown of these GHG emissions by CO₂, CH₄, and N₂O, in addition to the location-
- 1193 based information.

1194 Guidance to 102-6-c

- 1195 Electricity consumption refers to purchased or acquired electricity, heating, cooling, and steam.
- 1196 As per the GHG Protocol Corporate Accounting and Reporting Standard [14] and GHG Protocol
- 1197 Scope 2 Guidance [16], biogenic non-CO₂ GHG emissions, such as methane (CH₄) and nitrous oxide
- 1198 (N₂O), from electricity use (e.g., biomass combustion in the electricity value chain) are reported as
- 1199 part of the gross Scope 2 $\dot{G}HG$ emissions. <u>Biogenic CO₂ emissions</u> from electricity use are reported
- 1200 separately and not included in the calculation for 102-6-a.

1201 Guidance to 102-6-d

1202 For further information on recalculations of emissions in previous reporting periods, the organization

1203 can refer to Guidance 102-5-d-iii and the GHG Protocol Corporate Accounting and Reporting 1204 Standard [14].

1205 Guidance to 102-6-e

1206 The organization should explain the reason for the chosen consolidation approach.

1207 The organization should report the gross Scope 2 GHG emissions for the entities included in its

- financial reporting. If the entities included in its financial reporting differ from the list of entities in its
 <u>sustainability</u> reporting, the organization is required to specify the differences under Disclosure 2-2 in
 GRI 2: General Disclosures 2021. See also section 5.1 in *GRI 1 Foundation 2021*.
- 1211 If the organization includes entities in its sustainability reporting that are not included in its financial
- reporting, it should report their gross <u>Scope 2 GHG emissions</u> data separately (e.g., from associates, joint ventures, and unconsolidated subsidiaries).
- 1214 If there are any changes in the organizational boundaries, the organization should report these 1215 changes.

1216 Guidance to 102-6-f

1217 The organization should explain why the standards, methodologies, assumptions, and calculation 1218 tools were chosen, including the source of the emission factors used.

1219 The emission factors can originate from mandatory reporting requirements, voluntary reporting 1220 frameworks, industry groups, scientific papers, commercial data providers, and <u>suppliers</u> to the 1221 reporting organization.

1222 The organization should consistently apply emission factors to calculate 102-6-a and 102-6-c.



1223 **Disclosure 102-7 Scope 3 GHG emissions**

- REQUIREMENTS 1224 1225 The organization shall: 1226 report gross Scope 3 GHG emissions in metric tons of CO₂ equivalent, and in the a. calculation: 1227 1228 include GHG emissions for each Scope 3 category; i i 1229 ii. include emissions of CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃; 1230 iii. include biogenic non-CO₂ GHG emissions from the combustion or biodegradation of 1231 biomass in the upstream and downstream value chain; 1232 iv. exclude GHG removals, GHG trades, and avoided emissions; 1233 v. use the global warming potential (GWP) values based on a 100-year timeframe from 1234 the latest IPCC assessment report; 1235 b. provide a breakdown of gross Scope 3 GHG emissions by each of the 15 Scope 3 1236 categories in metric tons of CO₂ equivalent; 1237 c. report biogenic CO₂ emissions from the combustion or biodegradation of biomass in the upstream and downstream value chain in metric tons, separately from gross Scope 3 GHG 1238 emissions, and a breakdown of this total by each of the 15 Scope 3 categories; 1239 d. report the base year for the calculation, including: 1240 1241 i. the rationale for choosing it; 1242 ii. base year emissions in metric tons of CO₂ equivalent separately for gross Scope 3 GHG emissions and biogenic CO₂ emissions; 1243 iii. the context for any significant changes in emissions that triggered recalculations of 1244 1245 base year emissions; 1246 iv. the previously reported base year emissions, if base year emissions are recalculated; 1247 e. report the consolidation approach for Scope 3 GHG emissions that is consistently applied 1248 across Scope 1, Scope 2, and Scope 3 GHG emissions, whether equity share, financial control, or operational control; 1249 1250 report standards, methodologies, assumptions, and calculation tools used, including the f. sources of the emission factors used. 1251 1252 **GUIDANCE** 1253 Scope 3 GHG emissions are all indirect GHG emissions (not included in Scope 2) that occur in the 1254 organization's upstream and downstream value chain. 1255 For many organizations, Scope 3 GHG emissions can be much greater than Scope 1 or Scope 2 1256 GHG emissions. 1257 Gross Scope 3 GHG emissions can come from extracting and producing purchased materials. transporting purchased fuels in vehicles not owned or controlled by the organization, and the end use 1258 of products and services. Gross Scope 3 GHG emissions can also come from decomposing the 1259 organization's waste. Process-related emissions during the manufacture of purchased goods and 1260 1261 fugitive emissions in facilities not owned by the organization can also produce Scope 3 GHG
 - 1262 emissions.
 - 1263 Gross Scope 3 GHG emissions include energy consumption upstream and downstream of the value 1264 chain reported under 103-3-a in *GRI 103: Energy 2025*.
 - As specified in the Comparability principle in *GRI 1: Foundation 2021*, the organization should present the information under 102-7-a, 102-7-b, and 102-7-c for the current <u>reporting period</u> and at least two previous reporting periods.



1268 For an example of how to present information on requirements in Disclosure 102-7, see Table 7 and 1269 Table 8 in the Appendix.

1270 Guidance to 102-7-a

1271 The gross Scope 3 GHG emissions include GHG emissions for each of the following 15 upstream and

1272 downstream categories from the GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard [15]: 1273

1274 Upstream categories

- 1275 1. Purchased goods and services
- 1276 2. Capital goods
- inissie CS of the of the ficial position 1277 3. Fuel- and energy-related activities (not included in gross Scope 1 or Scope 2 GHG emissions)
- 4. Upstream transportation and distribution 1278
- 5. Waste generated in operations 1279
- 1280 6. Business travel
- 7. Employee commuting 1281
- 1282 8. Upstream leased assets

1283 Downstream categories

- 1284 9. Downstream transportation and distribution
- 1285 10. Processing of sold products
- 11. Use of sold products 1286
- 12. End-of-life treatment of sold products 1287
- 13. Downstream leased assets 1288
- 14. Franchises 1289
- 1290 15. Investments
- 1291 Each organization defines the activities included in the Scope 3 categories.
- 1292 Scope 3 GHGs emitted during GHG removal activities are reported under 102-7-a.
- 1293 The organization should ensure that the Scope 3 inventory appropriately reflects its GHG emissions
- and not exclude any Scope 3 category that would compromise the relevance of the reported 1294

inventory. More guidance on how to set the Scope 3 boundary can be found in the GHG Protocol 1295

- 1296 Corporate Value Chain (Scope 3) Accounting and Reporting Standard [15].
- 1297 For more guidance on reporting Scope 3 categories, see reference [22] in the Bibliography.
- 1298 If the organization cannot include emissions for each Scope 3 category included under 102-7-a-i
- 1299 because the information is missing, it is required to provide the reason for omission 'information
- unavailable/incomplete' and its explanation (i.e., specify what is missing, explain why it is missing and 1300
- describe the steps taken and the expected time frame to obtain it). For more information on reasons 1301
- for omission, see Requirement 6 in GRI 1: Foundation 2021. 1302
- 1303 The gross Scope 3 GHG emissions include the seven gases the Kyoto Protocol covers [6] [18].
- 1304 The organization can also provide a breakdown of gross Scope 3 GHG emissions by CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, and NF₃ in metric tons and metric tons of CO₂ equivalent. 1305
- 1306 The organization can report emissions from other GHGs, such as the Montreal Protocol gases [5], 1307 separately from gross Scope 3 GHG emissions.
- 1308 Where it aids transparency or comparability over time, the organization can provide breakdowns of 1309 gross Scope 3 GHG emissions by, for example:
 - business unit or facility; •
 - country;

1310

- type of source (e.g., stationary or mobile combustion, process emissions, and fugitive 1312 • 1313 emissions):
- 1314 type of activity. •
- The organization can refer to the GHG Protocol Corporate Value Chain Standard [15] for information 1315 1316 on the Scope 3 GHG accounting quality criteria.



1317 Guidance to 102-7-a-v

1318 If the organization reports information for previous <u>reporting periods</u> calculated using different IPCC 1319 <u>GWP</u> values, it should report the values used in each reporting period.

1320 Guidance to 102-7-b

The organization should report the percentage of GHG emissions in metric tons of <u>CO₂ equivalent</u>
 obtained through primary data for each of the 15 Scope 3 categories. Primary data is obtained from
 suppliers or other value chain entities related to the organization's activities. Secondary data includes

industry average data from published databases or government statistics and is not specific to the

1325 activity for which emissions are calculated. The percentage is calculated using the following formula:

		Primary data Scope 3 category emissions (MtCO2e)
Percentage of primary data	=	Total Scope 3 category emissions (MtCO2e)

1326 Guidance to 102-7-c

- 1327 As per the GHG Protocol Corporate Accounting and Reporting Standard [14] and GHG Protocol
- 1328 Scope 3 Standard [15], biogenic non-CO₂ GHG emissions, such as methane (CH₄) and nitrous oxide
- 1329 (N_2O) , from the combustion or biodegradation of biomass upstream and downstream the value chain,
- 1330 are reported as part of the gross Scope 3 GHG emissions. <u>Biogenic CO₂ emissions</u> from the
- 1331 combustion or biodegradation of biomass upstream and downstream of the value chain are reported 1332 separately from gross Scope 3 GHG emissions and are not included in the calculation for 102-7-a.

1333 Guidance to 102-7-d

- As specified in the Comparability principle in *GRI 1: Foundation 2021*, the organization should present the information for the current and at least two previous reporting periods.
- 1336 For further information on recalculations of emissions in previous reporting periods, the organization
- 1337 can refer to Guidance 102-5-d-iii and the GHG Protocol Corporate Accounting and Reporting
- 1338 Standard [14].
- The organization should provide a breakdown of <u>base year</u> emissions by each of the 15 Scope 3
 categories in metric tons of CO₂ equivalent.
- 1341 Guidance to 102-7-e
- 1342 The organization should explain the reason for choosing the consolidation approach.
- 1343 If there are any changes in the organizational boundaries, the organization should report these 1344 changes.

1345 Guidance to 102-7-f

- 1346 The organization should explain why the standards, methodologies, assumptions, and calculation 1347 tools were chosen, including the source of the emission factors used.
- 1348 The emission factors can originate from mandatory reporting requirements, voluntary reporting 1349 frameworks, industry groups, scientific papers, commercial data providers, and <u>suppliers</u> to the 1350 reporting organization.
- 1351 The organization should consistently apply emission factors to calculate 102-7-a and 102-7-c.

1352



1353 **Disclosure 102-8 GHG emissions intensity**

1354 **REQUIREMENTS**

1355 **The organization shall:**

- report <u>GHG</u> emissions intensity ratio(s), including the gross GHG emissions in metric tons
 of <u>CO₂ equivalent</u> (the numerator) and the organization-specific metric (the denominator)
 chosen to calculate the ratio(s);
- b. report the scope(s) of GHG emissions included in the intensity ratio(s), whether Scope 1,
 Scope 2, or Scope 3.

1361 GUIDANCE

GHG emissions intensity ratios are obtained by dividing the organization's gross GHG emissions (the numerator) by an organization-specific metric (the denominator). Many organizations track
 environmental performance with intensity ratio(s).

1365 GHG emissions intensity ratios express the amount of GHG emissions per unit of activity, output, or

1366 other organization-specific metric. In combination with an organization's gross GHG emissions,

reported under Disclosures 102-5, 102-6, and 102-7, GHG emissions intensity ratios help to contextualize an organization's efficiency, including in relation to other organizations.

- 1369 The organization should select a consistent organizational boundary for both the numerator and 1370 denominator in the GHG emissions intensity ratio.
- 1371 For an example of how to present information on requirements in Disclosure 102-8, see Table 4.

1372 Guidance to 102-8-a

- 1373 Examples of GHG emissions intensity ratios can include:
- 1374 [amount of] gross <u>Scope 1 GHG emissions</u> in metric tons of CO₂ equivalent (numerator) per 1375 100 full-time equivalent <u>employees</u> (denominator);
- 1376 [amount of] gross <u>Scope 2 GHG emissions</u> in metric tons of CO₂ equivalent (numerator) per EUR 1 million revenue (denominator).
- 1378 Types of organization-specific metrics (denominators) can include:
- units of product;
- production volume (such as metric tons, liters, or MWh);
- size (such as m² floor space);
- full-time equivalent employees;
- monetary units (such as revenue or sales).

Relevant denominators differ between industries or business units within an organization. Therefore, the organization should choose a denominator relevant to its industry that is aligned with current industry standards applied to its activities. For example, an organization that manufactures products can choose 'tons of product produced' as a denominator, whereas an organization with diversified activities and services can choose 'full-time equivalent employees (FTE)'.

- Where it aids transparency or comparability over time, the organization should provide a breakdownof the GHG emissions intensity ratios by:
- business unit or facility;
- 1392 country;

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- GHG emissions source (e.g., furnaces, waste processing, mobile combustion);
- type of activity;
 - Scope 3 category.

1396 Guidance to 102-8-b

1397 The organization can report <u>GHG</u> emissions intensity ratio(s) for Scope 1, Scope 2, or Scope 3

separately or combined for Scope 1 and Scope 2. The organization should report whether <u>biogenic</u>
 GHG emissions are included in the ratio(s) numerator.



1400 Table 4. Example template for presenting information on GHG emissions intensity ratio(s)

Gross GHG emissions (mtCO ₂ e)	Scope(s) of GHG emissions (1, 2, 3)	Organization-specific metric	GHG emissions intensity ratio
	Nese	t an official position	ion of the cssb
	35 not ret		
This document do	snotret		



Disclosure 102-9 GHG removals in the value chain

- 1402 **REQUIREMENTS**
- 1403 The organization shall:
- 1404a. report the total Scope 1 GHG removals in metric tons of CO2 equivalent, excluding any1405GHG trades, and a breakdown of this total by each storage pool;
- b. for each type of storage pool, describe how quality criteria are monitored to manage the
 risk of non-permanence;
- 1408 c. report the intended use of GHG removals;
- d. describe the <u>impacts</u> on people and the environment from its Scope 1 GHG removals and the actions taken to manage them, including for:
- 1411 i. workers, local communities, and Indigenous Peoples;
- 1412 ii. biodiversity;
- 1413 e. report standards, methodologies, assumptions, and calculation tools used.

1414 GUIDANCE

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- 1415 This disclosure aims to increase transparency regarding the organization's GHG removals.
- 1416 This disclosure covers information on GHG removals in the organization's <u>value chain</u>. GHG removals
- beyond the organization's value chain purchased through <u>carbon credits</u> are reported under
 Disclosure 102-10.
- 1419 GHG removals are the transfer of a <u>greenhouse gas</u> from the atmosphere to storage within a non-
- atmospheric pool. Storage refers to the process of maintaining CO₂ or other GHGs in pools. A storage
 pool is a physical reservoir or medium where the removed CO₂ or other GHGs are stored.
- 1422 Two types of storage pools are considered for reporting under this disclosure:
 - Land-based pools store carbon in terrestrial biomass, dead organic matter, or soil carbon pools.
- Geologic pools store inorganic minerals not used as products; for example, fossil carbon in sedimentary formations containing oil and natural gas.
- Even though this disclosure covers GHG removal, available methodologies mainly cover CO₂
 removals. For further information on accounting for CO₂ removals and carbon pools, see reference
 [17] in the Bibliography.

1430 Guidance to 102-9-a

- 1431 102-9-a excludes any GHG trades. GHG trades occur, for example, when a removal activity in the 1432 organization's value chain is sold as a carbon credit.
- 1433 If applicable, the organization should report a breakdown of GHG removals by each GHG covered by
- the Kyoto Protocol and use the <u>global warming potential (GWP)</u> values based on a 100-year
 timeframe.
- 1436 Scope 1 GHG removals are direct and constitute removals where the organization owns or controls
- the sink (which is the process, activity, or mechanism that removes GHG emissions from theatmosphere) and the storage pool.
- 1439 The organization should report the total Scope 3 GHG removals in metric tons of CO₂ equivalent,
- 1440 excluding any GHG trades, and a breakdown of this total by storage pool. Scope 3 GHG removals are
- indirect and result from the activities in the organization's upstream and downstream value chain,
- 1442 where the organization does not own or control the sink and storage pool. The organization can also 1443 describe its influence on the Scope 3 GHG removal process, for example, whether it collaborated with
- 1444 a supplier on removal projects.
- 1445 There are no Scope 2 GHG removals since removals do not occur when generating electricity, 1446 heating, cooling, or steam. According to the <u>GHG</u> Protocol Land Sector and Removals Guidance,



- 1447 GHG removals occurring in the value chain of the energy generation process are accounted for in
- 1448 Scope 3 GHG emissions category 3 'fuel- and energy-related activities', as per the Scope 3
- 1449 categories from the *GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting* 1450 *Standard.*
- In addition, the organization can provide a breakdown of the total GHG removals by sink process.
 Two main types of sink processes that remove CO₂ from the atmosphere are:
- Biogenic CO₂ removals resulting from atmospheric CO₂ transferred via biological sinks, such as photosynthesis, to storage in biogenic carbon pools.
- Technological CO₂ removals resulting from atmospheric CO₂ transferred via technological sinks to storage in geologic carbon pools.
- 1457 See reference [17] in Bibliography.
- 1458 For an example of how to present the information on requirement 102-9-a, see Table 5.

1459 Table 5. Example template for presenting information on GHG removals in the value chain

GHG removals in the value chain	Scope 1 GHG removals (mtCO ₂ e)	Scope 3 GHG removals (mtCO ₂ e) ³
Storage pool [1]		
Storage pool [2]		
Storage pool [3]		5
Storage pool [4]	0	
Storage pool [5]		
Total GHG removals		

1460 Guidance to 102-9-b

- 1461 Risk of non-permanence means the inability to demonstrate that CO₂ or other GHGs remain stored.
- 1462 Non-permanence may be due to unintentional natural factors such as fire, wind, and other extreme
 1463 weather events, as well as intentional actions such as land use change. Non-permanence also
 1464 includes possible losses or leaks during transport.
- When non-permanence occurs, organizations account for and report losses of CO₂ and other GHGs
 as emissions or reversals in future inventory periods. Reversals are GHG emissions from storage
 pools previously reported as GHG removals by organizations.
- 1468 The following quality criteria, built on the *GHG Protocol Land Sector and Removals Guidance* [17], 1469 apply to managing the risk of non-permanence of GHG removals:
- Storage monitoring demonstrate that CO₂ and other GHGs remain stored or detect losses.
- Traceability identify, track, and collect information throughout the removal pathway, particularly
 in the case of Scope 3 removals, where the organization does not own or control the sinks and
 pools.
- Availability of primary data demonstrate that the organization has accounted for removals using empirical data specific to the sinks and pools where GHGs are stored in its activities or upstream and downstream value chain.
- Uncertainty provide a quantitative uncertainty range for removals, including the removal value, so that estimates are based on a specified confidence level and a justification of how the selected value does not overestimate removals.
- Reversals accounting report CO₂ and other <u>GHG</u> losses of previously reported removals. The CO₂ and other GHG losses should be reported as GHG emissions (if storage pools are part of the GHG inventory boundary⁴) or as reversals (if storage pools are no longer part of the GHG inventory boundary) in the reporting period.

⁴ An imaginary line that encompasses the direct and indirect emissions that are included in the inventory. It results from the chosen organizational and operational boundaries.



³ Note that this is recommended, but not required.

- 1484 If <u>GHG removals</u> do not meet one or more quality criteria, the organization should explain why and 1485 describe the actions taken or planned to meet the quality criteria.
- 1486 The organization should also describe the <u>impacts</u> on people and the environment associated with 1487 non-permanence.

1488 Guidance to 102-9-c

- 1489 Uses of GHG removals include:
- in the context of net-zero emissions targets, counterbalancing residual GHG emissions as the mitigation hierarchy's last step. Residual GHG emissions refer to the unabated GHG emissions after the organization has reduced at least 90% of its GHG emissions, and further reduction is not possible. If an organization is subjected to sectoral decarbonization pathways, it may be subjected to a different percentage of GHG emissions reduction;
- selling GHG removals as <u>carbon credits</u>.

GHG removals are excluded from an organization's gross GHG emissions reduction targets reported
 under <u>Disclosure 102-4</u>. The organization should describe the role of GHG removals within its climate
 change transition plan.

- 1499 The organization should report whether GHG removal targets are in place and what their purpose and 1500 role are within the organization's mitigation strategy. The purpose of GHG removal targets can 1501 include:
- increasing GHG removal capacity to counterbalance residual GHG emissions after having reduced at least 90% of GHG emissions; and
- being part of interim milestones that demonstrate an organization's commitment to counterbalance residual GHG emissions.
- 1506 If the organization sets GHG removal targets for other purposes, it should report these purposes and 1507 explain them.
- 1508 When reporting GHG removal targets, the organization should also describe how GHG reversals of 1509 previously reported GHG removals are accounted for in the progress of its GHG removal targets.
- 1510 If the organization removes GHGs from the atmosphere through its activities, the GHG removals
- 1511 reported under 102-9-a may not have any specific intended use. If this is the case, a brief statement

1512 of this fact is sufficient to comply with the requirement. This circumstance may apply to organizations

1513 within the forest, land, or agriculture sectors.

1514 Guidance to 102-9-d

- 1515 The organization should describe how it engages with stakeholders to identify impacts on people -
- including workers, Indigenous People, and local communities and the environment, including
 biodiversity.
- 1518 Impacts on the environment associated with <u>GHG removals</u> can include those related to pollution. For 1519 example, a technological GHG removal activity can lead to an impact on air quality.
- 1520 If the organization reports Scope 3 GHG removals, it should describe the impacts on people and the 1521 environment from its Scope 3 GHG removals and actions taken to manage them.

1522 Guidance to 102-9-d-i

- 1523 Examples of impacts associated with GHG removals on workers, local communities, and Indigenous1524 Peoples include:
- 1525 new jobs created in GHG removal processes; • 1526 local communities lose the right to access lands used for new infrastructure, afforestation, or 1527 reforestation for GHG removals; 1528 the rights of Indigenous Peoples can be violated if land is not acquired with their free, prior, • 1529 and informed consent; workers in carbon capture and storage facilities may face negative impacts on their health 1530 and safety in the case of leakage of CO₂; 1531 impacts on air guality and thereby on the health of local communities, resulting from leakage 1532 • of CO₂ from storage pools. 1533



Guidance to 102-9-d-ii 1534

- 1535 Examples of impacts on biodiversity associated with GHG removals include:
- 1536 species and ecosystems threatened by nearby removal activities; •
- water is no longer available for ecosystems due to extensive use from removal activities; 1537 •
- removal activities, such as foresting, create habitats for species. 1538 •

1539 Disclosure 101-2 in GRI 101: Biodiversity 2024 requires describing how the organization enhances synergies and reduces trade-offs between actions to manage its biodiversity and climate change 1540

impacts. If the organization has described the actions taken to manage the impacts on biodiversity 1541 1542



1543 **Disclosure 102-10 Carbon credits**

- REQUIREMENTS 1544 1545 The organization shall: a. report the total amount of carbon credits canceled in metric tons of CO₂ equivalent and a 1546 breakdown of this total by removal or reduction projects; 1547 1548 b. for each project where carbon credits have been canceled, report: 1549 i. project name and ID; 1550 ii. project type; iii. cancellation serial number, cancellation date, and vintage; 1551 iv. host country and issuing registry; 1552 c. for each carbon credit project reported under 102-10-b, describe how the project adheres official position 1553 to each of the following quality criteria: 1554 1555 i. additionality; 1556 ii. credible baselines; 1557 iii. permanence; 1558 iv. leakage avoidance; 1559 v. unique issuance and claiming; 1560 vi. regular monitoring; vii. independent validation and verification; 1561 1562 viii. GHG program governance; d. report the purpose of carbon credit cancellation; 1563 1564 e. describe the impacts on people and the environment from projects where carbon credits are purchased and how the organization continuously monitors and evaluates them, 1565 includina: 1566 the categories of stakeholders consulted in project implementation; 1567 i. 1568 ii. how human rights are respected; iii. how socio-economic benefits are provided to local communities and Indigenous 1569 1570 Peoples; iv. how biodiversity is conserved; 1571 1572 v. how trade-offs are assessed. GUIDANCE 1573 1574 This disclosure aims to increase transparency regarding the use of carbon credits. 1575 A carbon credit is a transferable or tradable instrument representing one metric ton of CO₂ equivalent reductions or removals generated outside the organization's value chain and purchased by the 1576 organization. 1577 1578 Carbon credits can be generated from two types of projects: 1579 GHG emissions reduction projects that replace planned fossil fuel power plants, such as renewable energy projects or improving cookstoves' energy efficiency, and REDD+ projects 1580 (Reducing emissions from deforestation and forest degradation in developing countries). 1581
 - GHG removal projects, including afforestation, reforestation, soil carbon sequestration, direct air carbon capture and storage (DACS), and bioenergy with carbon capture and storage (BECCS).



1585 Guidance to 102-10-a

- 1586 A <u>carbon credit</u> is canceled when permanently removed from circulation in a registry account.
- 1587 The organization can also report the percentage of carbon credits canceled by removal and reduction 1588 projects.
- 1589 If the organization purchases <u>GHG removal</u> carbon credits, it should report whether the removal 1590 projects are nature-based or technological.
- 1591 The organization should also report the total amount of carbon credits purchased and not canceled 1592 during the <u>reporting period</u> in metric tons of $\underline{CO_2}$ equivalent.
- For an example of how to present the information on carbon credits canceled required by 102-10-a and carbon credits purchased and not canceled during the reporting period, see Table 6.

1595Table 6. Example template for presenting information on carbon credits canceled and carbon1596credits purchased and not canceled by type of project

Carbon credits	mtCO ₂ e	% ⁵
Total carbon credits canceled during the reporting period		
GHG emissions reduction projects	SIL	
GHG removal projects	20	
Total carbon credits purchased and not canceled during the reporting period ⁶		

1597 Note: Gray cells indicate non-applicable items.

1598 Guidance to 102-10-b-iii

1599 Serial numbers are allocated to carbon credits within the scope of trading programs to ensure that 1600 they are retired once used.

1601 Credit vintage refers to the year the <u>GHG</u> emission reduction or removal occurred. As the verification 1602 process can take two to three years from project inception, projects may generate carbon credits for

already removed or reduced GHG emissions.

1604 Guidance to 102-10-c

- 1605 If the canceled carbon credits reported under 102-10-a do not adhere to one or more quality criteria, 1606 the organization should explain why and describe the actions taken or planned to meet them.
- 1607 If third parties report and publish information on quality criteria for carbon credit projects, the
- organization can provide a reference to where this information can be found, as long as all quality
 criteria are covered.
- 1610 The organization should also report whether <u>carbon credits</u> canceled in previous <u>reporting periods</u> 1611 failed to meet quality criteria in the reporting period.
- 1612 For further information on carbon credit quality criteria, see references [8] and [17] in the Bibliography.

1613 Guidance to 102-10-c-i

1614 A carbon credit project is considered additional if it would not have occurred without the incentives 1615 provided by carbon credit revenues.

1616 Guidance to 102-10-c-ii

1617 GHG emission reductions or removals are quantified based on a realistic estimate using a <u>baseline</u> 1618 scenario or performance standard. Carbon credits are calculated relative to a baseline that represents

⁶ Note that this is recommended, but not required.



⁵ Note that this is recommended, but not required.

1619 a hypothetical scenario for what GHG emissions would have been in the absence of the carbon credit 1620 project.

Guidance to 102-10-c-iii 1621

1622 GHG emission reductions and GHG removals must be permanent in order to qualify as carbon credits 1623 reported under 102-10-a. Permanence ensures mechanisms are in place to monitor the continued 1624 storage of reported removals and captured GHGs, account for reversals, and report emissions from 1625 associated carbon pools [17].

1626 When reporting how a carbon credit project adheres to the criterion of permanence, the organization 1627 should describe how the risk of non-permanence is managed and the measures taken to address the 1628 risk of reversal and compensate for reversals.

1629 Guidance to 102-10-c-iv

1630 A carbon credit project adheres to the quality criterion of leakage avoidance when it mitigates the risk

- of causing impacts elsewhere and accounts for any increase in GHG emissions or decrease in 1631
- removals outside the project's boundary. To avoid leakage, the organization should report the 1632 measures taken to determine and monitor leakage.
- 1633

1634 Guidance to 102-10-c-v

1635 A carbon credit project adheres to the quality criterion of unique issuance and claiming when an 1636 electronic registry uniquely issues, claims, and cancels carbon credits. Organizations that cancel the 1637 credit are expected to claim the carbon credit. To ensure unique issuance and claiming, organizations are expected to have procedures to prevent double counting [8] [17]. 1638

Double-counted credits are not permitted to prevent another organization or entity from claiming the 1639 1640 same GHG emission reductions or removals. For example, an organization that sells GHG emissions 1641 reduction or removal within its value chain as carbon credits cannot report those reductions or 1642 removals under Disclosure 102-4 and 102-9.

- 1643 Double counting covers the following:
- Double use: when multiple parties use a single GHG emission reduction or removal unit. 1644
- 1645 Double issuance: when multiple GHG emission reduction or removal units are issued for the • same GHG emission reduction or removal. 1646
- 1647 Double claiming: when multiple parties claim the right to a single GHG emission reduction, removal, or mitigation outcome. 1648
- 1649 Double use can be avoided through registry systems that assign unique serial numbers to individual 1650 carbon credits, track transfer and ownership, and record the purpose of use. Double issuance can be 1651 avoided by checking accounting boundaries to quantify GHG emission removals and reductions for 1652 projects that do not overlap. Double claiming can be avoided if project developers sign legal 1653 attestations asserting exclusive claims to any credited GHG emission removals and reductions and legally conveying claims to buyers. 1654
- 1655 The organization should report whether carbon credits are associated with a corresponding 1656 adjustment [8].

1657 Guidance to 102-10-c-vi

- 1658 GHG emissions reduction and removal credits are monitored and quantified after the implementation 1659 of the project. This should include accurate and precise measurement, sampling, and quantification protocols. 1660
- The organization should report data monitoring processes throughout the crediting period. For each 1661 carbon credit project, the organization should also report the timeframes for both the crediting and 1662 1663 monitoring periods.

1664 Guidance to 102-10-c-vii

1665 Carbon credits are verified according to recognized quality standards by independent third parties. The organization should report the processes in place for independent third-party validation and 1666 verification of the carbon credits, as well as the relevant standards used. In addition, the organization 1667 1668 should report the specific certifications provided by third parties.



1669 Guidance to 102-10-c-viii

1670 GHG programs issue GHG emissions reduction and removal credits with a clearly defined and
 1671 transparent governance structure. The organization should describe the GHG governance structure of
 1672 the carbon credit projects, including relevant published rules and procedures, accreditation

1673 procedures for third-party auditors, and <u>stakeholder</u> consultation procedures for developing or refining

1674 program requirements. Additionally, the organization should describe the grievance and other

1675 mechanisms established to identify and address grievances and raise complaints about projects after 1676 implementation.

1677 Guidance 102-10-d

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1680

- 1678 The purpose of carbon credit cancellation includes:
 - Compliance with country, regional, or industry-level sectoral carbon-crediting programs.
 Carbon credits can be procured through a mandatory or voluntary carbon market.
- Financing and contributing to GHG removals and emission reductions outside the organization's <u>value chain</u> as additional climate change mitigation actions (often referred to as beyond value chain mitigation (BVCM) or climate contributions).
- In the context of net-zero emissions targets, counterbalancing residual GHG emissions as the mitigation hierarchy's last step. Residual GHG emissions refer to the unabated GHG emissions after the organization has reduced at least 90% of its GHG emissions, and further reduction is not possible. According to the latest scientific evidence, <u>GHG removal</u> carbon credit projects can only be used to counterbalance residual GHG emissions as the last step of the mitigation hierarchy [11]; GHG reduction carbon credit projects cannot be used to counterbalance residual GHG emissions as the last step of the mitigation hierarchy [11]; GHG reduction carbon credit projects cannot be used to counterbalance residual GHG emissions.
- 1691 Carbon credits are excluded from an organization's gross GHG emissions reduction targets reported 1692 under Disclosure 102-4.

1693 When reporting the purpose of carbon credit cancellation, the organization should describe how the 1694 cancellation does not impede nor reduce the achievement of its GHG emissions reduction targets and 1695 explain the role of carbon credits within its climate change transition plan.

1696 Guidance to 102-10-e

- 1697 This requirement covers <u>impacts</u> on people and the environment from <u>carbon credit</u> projects 1698 purchased in the reporting period, whether canceled or not.
- 1699 Organizations should have a due diligence process to select carbon credit projects that maximize 1700 positive impacts and prevent or mitigate negative impacts on people and the environment.
- 1701 The 'safeguard' principle included in other frameworks is covered under 102-10-e.
- 1702 The organization should report the timeframe of the monitoring period for the impacts associated with 1703 purchased carbon credits.
- 1704 Impacts on the environment associated with carbon credits can include those related to pollution. For 1705 example, a technological <u>GHG removal</u> carbon credits project can lead to an impact on air quality.
- 1706 Examples of impacts on <u>local communities</u> and <u>Indigenous People</u> can include corruption and bribery 1707 associated with the acquisition of land used in carbon credit projects.
- 1708 The organization can report whether it has obtained third-party certification regarding social or 1709 environmental integrity.

1710 Guidance to 102-10-e-i

1711 The organization should describe how <u>stakeholder</u> engagement has informed carbon credit projects.
1712 See Guidance to 2-29-a-i in *GRI 2: General Disclosures 2021* on stakeholder categories.

1713 Guidance 102-10-e-ii

- 1714 Organizations are expected to select carbon credit projects that respect <u>human rights</u>, with special
- attention to <u>vulnerable groups</u>, such as Indigenous Peoples. For further information, the organization
- 1716 can refer to the United Nations Integrity Matters: Net Zero Commitments by Businesses, Financial



- 1717 Institutions, Cities and Regions, Report from the United Nations High-Level Expert Group on the Net 1718 Zero Emissions Commitments of Non-State Entities [12].
- 1719 Carbon credit projects should not negatively affect the livelihoods and earnings of <u>workers</u>, food 1720 security, water rights, or land rights. These projects should not result in physical violence towards 1721 workers local approximation
- 1721 workers, Indigenous People, or local communities.
- The organization can describe how local communities are consulted about carbon credit projects affecting them and how tenure rights for the land used for carbon credit projects are respected without the threat of forceable eviction. The organization can also describe whether free, prior, and informed consent (FPIC) of Indigenous Peoples with regard to any action that affects their lands, territories, or resources was obtained and how.
- 1727 For more guidance on the rights of Indigenous Peoples, see reference [2] in the Bibliography.

1728 Guidance to 102-10-e-iii

- Examples of socio-economic benefits for local communities and Indigenous Peoples resulting fromcarbon credit projects can include:
 - providing them with a portion of the payments for each carbon credit purchased;
 - creating new jobs;
 - developing technical skills and training.

1734 Guidance to 102-10-e-iv

1731 1732

1733

1735 Carbon credit projects can result in positive and negative impacts on biodiversity. An example of a

- 1736 positive impact on biodiversity can be when a carbon credit project leads to the recovery of a
- degraded ecosystem or an increase in the variety of animal and plant species. An example of anegative impact on biodiversity is when a carbon credit afforestation project leaves an area with a
- 1739 single tree species that does not provide a suitable habitat for native wildlife.
- Disclosure 101-2 in *GRI 101: Biodiversity 2024* requires describing how the organization enhances
 synergies and reduces trade-offs between actions to manage its biodiversity and climate change
 <u>impacts</u>. If the organization has described how its carbon credit projects conserve biodiversity under
 Disclosure 101-2, it can provide a reference to this information.

1744 Guidance to 102-10-e-v

- 1745 Carbon credit projects are likely to involve trade-offs. Examples of trade-offs can include land-based 1746 removal carbon credit projects reducing the availability of land for food production, resulting in impacts
- 1747 on food security.

his document

1748 The organization should describe the process to mitigate trade-offs.



1749 **Glossary**

1750 This glossary provides definitions for terms used in this Standard. The organization is required to 1751 apply these definitions when using the GRI Standards.

1752 The definitions included in this glossary may contain terms that are further defined in the complete

1753 <u>GRI Standards Glossary</u>. All defined terms are underlined. If a term is not defined in this glossary or in

the complete *GRI Standards Glossary*, definitions that are commonly used and understood apply.

1755 base year

- historical datum (a specific year or an average over multiple years) against which a measurement is
 tracked over time
- 1758 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
- 1759 (WBCSD), GHG Protocol Corporate Accounting and Reporting Standard, Revised Edition, 2004; 1760 modified
- 1761 baseline
- 1762 starting point used for comparisons

1763 Note: In the context of energy reporting, the baseline is the projected energy consumption in the 1764 absence of any reduction activity.

- 1765 **biogenic carbon dioxide (CO₂) emission**
- 1766 emission of CO₂ from the combustion or biodegradation of biomass

1767 business partner

- entity with which the organization has some form of direct and formal engagement for the purpose ofmeeting its business objectives
- 1770 Source: Shift and Mazars LLP, UN Guiding Principles Reporting Framework, 2015; modified
- 1771 Examples: affiliates, business-to-business customers, clients, first-tier <u>suppliers</u>, franchisees, joint 1772 venture partners, investee companies in which the organization has a shareholding position
- 1773 Note: Business partners do not include subsidiaries and affiliates that the organization controls.

1774 business relationships

- relationships that the organization has with <u>business partners</u>, with entities in its <u>value chain</u> including
 those beyond the first tier, and with any other entities directly linked to its operations, products, or
- 1777 services
- 1778 Source: United Nations (UN), *Guiding Principles on Business and Human Rights: Implementing the* 1779 United Nations "Protect, Respect and Remedy" Framework, 2011; modified
- Note: Examples of other entities directly linked to the organization's operations, products, or services
 are a non-governmental organization with which the organization delivers support to a local
- 1782 community or state security forces that protect the organization's facilities.

1783 carbon credit

- transferable or tradable instrument that represents one metric ton of <u>CO₂ equivalent emissions</u>
 reduction or removal
- Note: Carbon credits are uniquely serialized, issued, tracked, and canceled according to recognizedquality standards.

1788 carbon dioxide (CO₂) equivalent

- the universal unit of measurement to indicate the <u>global warming potential (GWP)</u> of each <u>greenhouse</u>
 <u>gas</u>, expressed in terms of the GWP of one unit of carbon dioxide.
- 1791 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development 1792 (WBCSD), *GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate*



- Accounting and Reporting Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3)
 Accounting and Reporting Standard, 2011
- 1795 Note: The CO₂ equivalent for a gas is determined by multiplying the metric tons of the gas by the 1796 associated GWP.
- 1797 child
- person under the age of 15 years, or under the age of completion of compulsory schooling, whicheveris higher
- 1800 Note 1: Exceptions can occur in certain countries where economies and educational facilities are
- 1801 insufficiently developed, and a minimum age of 14 years applies. These countries of exception are
- 1802 specified by the International Labour Organization (ILO) in response to a special application by the
- 1803 country concerned and in consultation with representative organizations of employers and workers.
- 1804 Note 2: *The ILO Minimum Age Convention, 1973, (No. 138)*, refers to both child labor and young workers.

1806 corruption

- 1807 'abuse of entrusted power for private gain', which can be instigated by individuals or organizations
- 1808 Source: Transparency International, Business Principles for Countering Bribery, 2011
- 1809 Note: Corruption includes practices such as bribery, facilitation payments, fraud, extortion, collusion,
- and money laundering. It also includes an offer or receipt of any gift, loan, fee, reward, or other
- advantage to or from any person as an inducement to do something that is dishonest, illegal, or a
- 1812 breach of trust in the conduct of the enterprise's business. This can include cash or in-kind benefits,
- 1813 such as free goods, gifts, and holidays, or special personal services provided for the purpose of an
- 1814 improper advantage, or that can result in moral pressure to receive such an advantage.

1815 due diligence

- 1816 process to identify, prevent, mitigate, and account for how the organization addresses its actual and 1817 potential negative impacts
- 1818 Source: Organisation for Economic Co-operation and Development (OECD), OECD Guidelines for
- 1819 Multinational Enterprises, 2011; modified United Nations (UN), Guiding Principles on Business and
- Human Rights: Implementing the United Nations "Protect, Respect and Remedy" Framework, 2011;
 modified
- 1822 Note: See section 2.3 in GRI 1: Foundation 2021 for more information on 'due diligence'.

1823 governance body

- 1824 formalized group of individuals responsible for the strategic guidance of the organization, the effective 1825 monitoring of management, and the accountability of management to the broader organization and its
- 1826 stakeholders

1827 employee

individual who is in an employment relationship with the organization according to national law or
 practice

1830 full-time employee

1831 <u>employee</u> whose working hours per week, month, or year are defined according to national law or
 1832 practice regarding working time

1833 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
- 1836 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
- 1837 (WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate
- 1838 Accounting and Reporting Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3)
- 1839 Accounting and Reporting Standard, 2011



1840 Note: GWP values convert GHG emissions data for non-CO₂ gases into units of <u>CO₂ equivalent</u>.

1841 governance body

- 1842 formalized group of individuals responsible for the strategic guidance of the organization, the
- 1843 effective monitoring of management

1844 greenhouse gas (GHG)

- 1845 gas that contributes to the greenhouse effect by absorbing infrared radiation
- 1846 Note: GHGs are the seven gases covered by the Kyoto Protocol: carbon dioxide (CO₂); methane
- 1847 (CH₄); nitrous oxide (N₂O); hydrofluorocarbons (HFCs); perfluorocarbons (PFCs); sulphur
- 1848 hexafluoride (SF₆); and nitrogen trifluoride (NF₃).

1849 greenhouse gas (GHG) removal

- 1850 transfer of a greenhouse gas (GHG) from the atmosphere to be stored within a non-atmospheric pool
- 1851 Note: Examples of non-atmospheric storage pools are land-based pools, that store carbon in
- 1852 terrestrial biomass, dead organic matter, and soil carbon pools; and geologic pools, that are geologic
- 1853 formations that store inorganic minerals not used as products, for example, fossil carbon in
- 1854 sedimentary formations containing oil and natural gas.
- Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
 (WBCSD), Land Sector and Removals Guidance, Part 1: Accounting and Reporting Requirements
 and Guidance, Supplement to the GHG Protocol Corporate Accounting and Reporting Standard and
- 1858 Scope 3 Standard, Draft for Pilot Testing and Review, 2022

1859 greenhouse gas (GHG) trade

- 1860 purchase, cancellation, sale, or transfer of carbon credits or greenhouse gas (GHG) allowances
- 1861Source: World Resources Institute (WRI) and World Business Council for Sustainable Development1862(WBCSD), GHG Protocol Corporate Accounting and Reporting Standard, Revised Edition, 2004;
- 1863 modified

1864 grievance

- 1865 perceived injustice evoking an individual's or a group's sense of entitlement, which may be
- 1866 based on law, contract, explicit or implicit promises, customary practice, or general notions of
- 1867 fairness of aggrieved communities
- 1868 Source: United Nations (UN), Guiding Principles on Business and Human Rights:
- 1869 Implementing the United Nations "Protect, Respect and Remedy" Framework, 2011

1870 human rights

- 1871 rights inherent to all human beings, which include, at a minimum, the rights set out in the *United*
- 1872 Nations (UN) International Bill of Human rights and the principles concerning fundamental rights set
- 1873 out in the International Labour Organization (ILO) Declaration on Fundamental Principles and Rights
 1874 at Work
- 1875 Source: United Nations (UN), *Guiding Principles on Business and Human rights: Implementing the* 1876 United Nations "Protect, Respect and Remedy" Framework, 2011; modified
- 1877 Note: See Guidance to 2-23-b-i in *GRI 2: General Disclosures 2021* for more information on 'human rights'.
- 1879 **impact**
- 1880 effect the organization has or could have on the economy, environment, and people, including on their
- 1881 <u>human rights</u>, which in turn can indicate its contribution (negative or positive) to <u>sustainable</u>
- 1882 <u>development</u>
- 1883 Note 1: Impacts can be actual or potential, negative or positive, short-term or long-term, intended or 1884 unintended, and reversible or irreversible.



1885 Note 2: See section 2.1 in *GRI 1: Foundation 2021* for more information on 'impact'.

1886 Indigenous Peoples

- 1887 Indigenous Peoples are generally identified as:
- tribal peoples in independent countries whose social, cultural and economic conditions
 distinguish them from other sections of the national community, and whose status is regulated
 wholly or partially by their own customs or traditions or by special laws or regulations;
- peoples in independent countries who are regarded as indigenous on account of their descent
 from the populations which inhabited the country, or a geographical region to which the country
 belongs, at the time of conquest or colonization or the establishment of present state boundaries
 and who, irrespective of their legal status, retain some or all of their own social, economic,
 cultural and political institutions.
- Source: International Labour Organization (ILO), *Indigenous and Tribal Peoples Convention*, 1989
 (No. 169)

1898 infrastructure

- 1899 facilities built primarily to provide a public service or good rather than a commercial purpose,
- 1900 and from which the organization does not seek to gain direct economic benefit.
- 1901 Examples: hospitals, roads, schools, water supply facilities

1902 local community

- individuals or groups of individuals living or working in areas that are affected or that could be affectedby the organization's activities
- 1905 Note: The local community can range from those living adjacent to the organization's operations to those living at a distance.

1907 material topics

1908 topics that represent the organization's most significant <u>impacts</u> on the economy, environment, and 1909 people, including impacts on their <u>human rights</u>

1910 Note: See section 2.2 in *GRI 1: Foundation 2021* and section 1 in *GRI 3: Material Topics 2021* for 1911 more information on 'material topics'.

1912 mitigation

- 1913 action(s) taken to reduce the extent of a negative impact
- Source: United Nations (UN), The Corporate Responsibility to Respect Human Rights: An Interpretive
 Guide, 2012; modified

1916 Note: The mitigation of an actual negative impact refers to actions taken to reduce the severity of the

- 1917 negative impact that has occurred, with any residual impact needing remediation. The mitigation of a
- 1918 potential negative impact refers to actions taken to reduce the likelihood of the negative impact 1919 occurring.

1920 non-guaranteed hours employee

- 1921 <u>employee</u> who is not guaranteed a minimum or fixed number of working hours per day, week, or 1922 month, but who may need to make themselves available for work as required
- 1923 Source: ShareAction, Workforce Disclosure Initiative Survey Guidance Document, 2020; modified
- 1924 Examples: casual employees, employees with zero-hour contracts, on-call employees

1925 part-time employee

1926 <u>employee</u> whose working hours per week, month, or year are less than the number of working hours
 1927 for <u>full-time employees</u>

1928 permanent employee

1929 <u>employee</u> with a contract for an indeterminate period (i.e., indefinite contract) for <u>full-time</u> or <u>part-time</u>
 1930 work



1931 reporting period

- 1932 specific time period covered by the reported information
- 1933 Examples: fiscal year, calendar year

1934 Scope 1 GHG emissions

1935 greenhouse gas (GHG) emissions from sources 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

- 1938 Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3) Accounting and Reporting 1939 Standard, 2011
- 1940 Examples: CO₂ emissions from fuel consumption
- 1941 Note: A GHG source is any physical unit or process that releases GHG into the atmosphere.

1942 Scope 2 GHG emissions

- indirect <u>greenhouse gas (GHG)</u> emissions from the generation of purchased or acquired electricity,
 heating, cooling and steam consumed by the organization
- 1945 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development

1946 (WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate

Accounting and Reporting Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3)
 Accounting and Reporting Standard, 2011

1949 Scope 3 GHG emissions

- indirect greenhouse gas (GHG) emissions (not included in Scope 2 GHG emissions) that occur in the
 organization's upstream and downstream value chain
- 1952 Source: World Resources Institute (WRI) and World Business Council for Sustainable Development
- 1953 (WBCSD), GHG Protocol Scope 2 Guidance. An amendment to the GHG Protocol Corporate
- 1954 Accounting and Reporting Standard, 2015 and GHG Protocol Corporate Value Chain (Scope 3)
- 1955Accounting and Reporting Standard, 2011

1956 stakeholder

- individual or group that has an interest that is affected or could be affected by the organization'sactivities
- Source: Organisation for Economic Co-operation and Development (OECD), OECD Due Diligence
 Guidance for Responsible Business Conduct, 2018; modified
- 1961 Examples: <u>business partners</u>, civil society organizations, consumers, customers, <u>employees</u> and
- other workers, governments, local communities, non-governmental organizations, shareholders and
 other investors, <u>suppliers</u>, trade unions, <u>vulnerable groups</u>
- 1964 Note: See section 2.4 in GRI 1: Foundation 2021 for more information on 'stakeholder'.
- 1965 supplier
- entity upstream from the organization (i.e., in the organization's <u>supply chain</u>), which provides a
 product or service that is used in the development of the organization's own products or service
- 1968 Examples: brokers, consultants, contractors, distributors, franchisees, home <u>workers</u>, independent 1969 contractors, licensees, manufacturers, primary producers, subcontractors, wholesalers
- 1970 Note: A supplier can have a direct <u>business relationship</u> with the organization (often referred to as a 1971 first-tier supplier) or an indirect business relationship.

1972 supply chain

1973 range of activities carried out by entities upstream from the organization, which provide products or 1974 services that are used in the development of the organization's own products or services

1975 sustainable development / sustainability



- development that meets the needs of the present without compromising the ability of futuregenerations to ualiti their own needs
- 1978 Source: World Commission on Environment and Development, *Our Common Future*, 1987
- 1979 Note: The terms 'sustainability' and 'sustainable development' are used interchangeably in the GRI1980 Standards.

1981 temporary employee

- 1982 <u>employee</u> with a contract for a limited period (i.e., fixed term contract) that ends when the specific
- 1983 time period expires, or when the specific task or event that has an attached time estimate is
- 1984 completed (e.g., the end of a project or return of replaced employees)

1985 value chain

- 1986 range of activities carried out by the organization, and by entities upstream and downstream from the 1987 organization, to bring the organization's products or services from their conception to their end use
- 1988 Note 1: Entities upstream from the organization (e.g., <u>suppliers</u>) provide products or services that are 1989 used in the development of the organization's own products or services. Entities downstream from the 1990 organization (e.g., distributors, customers) receive products or services from the organization.
- 1991 Note 2: The value chain includes the supply chain.

1992 vulnerable group

- 1993 group of individuals with a specific condition or characteristic (e.g., economic, physical, political,
- 1994 social) that could experience negative <u>impacts</u> as a result of the organization's activities more 1995 severely than the general population
- 1996 Examples: <u>children</u> and youth; elderly persons; ex-combatants; HIV/AIDS-affected households;
- <u>human rights</u> defenders; <u>indigenous peoples</u>; internally displaced persons; migrant <u>workers</u> and their
 families; national or ethnic, religious and linguistic minorities; persons who might be discriminated
 against based on their sexual orientation, gender identity, gender expression, or sex characteristics
 (e.g., lesbian, gay, bisexual, transgender, intersex); persons with disabilities; refugees or returning
- 2001 refugees; women
- 2002 Note: Vulnerabilities and impacts can differ by gender.
- 2003 waste
- 2004 anything that the holder discards, intends to discard, or is required to discard
- 2005 Source: United Nations Environment Programme (UNEP), Basel Convention on the Control of 2006 Transboundary Movements of Hazardous Wastes and Their Disposal, 1989
- 2007 Note 1: Waste can be defined according to the national legislation at the point of generation.
- 2008 Note 2: A holder can be the reporting organization, an entity in the organization's value chain
- 2009 upstream or downstream (e.g., supplier or consumer), or a waste management organization, among 2010 others.
- 2011 worker
- 2012 person that performs work for the organization
- 2013 Examples: employees, agency workers, apprentices, contractors, home workers, interns, self-
- 2014 employed persons, sub-contractors, volunteers, and persons working for organizations other than the 2015 reporting organization, such as for <u>suppliers</u>
- 2016 Note: In the GRI Standards, in some cases, it is specified whether a particular subset of workers is 2017 required to be used.



2018 **Bibliography**

This section lists authoritative intergovernmental instruments and additional references used in developing this Standard, as well as resources that the organization can consult.

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 2030 Deplete the Ozone Layer, 1987.
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2073 Appendix

2074 Example templates for Disclosures 102-5, 102-6, and 102-7

Tables 7 and 8 offer examples of how to present information for Disclosures 102-5, 102-6, and 102-7.

2076 The organization can amend the tables according to its practices.

2077 Table 7. Presenting information on Scope 1, Scope 2, and Scope 3 GHG emissions

Scope 1, Scope 2, and	Base year [insert base year] ⁷		Reporting period -2 [insert reporting period] ⁸		Reporting period -1 [insert reporting period] ⁷		Reporting period [insert reporting period]	
Scope 3 GHG emissions	Emission s (mtCO ₂ e)	Biogenic CO ₂ emissions (metric tons)	Emission s (mtCO ₂ e)	Biogenic CO ₂ emissions (metric tons)	Emission s (mtCO ₂ e)	Biogenic CO ₂ emissions (metric tons)	Emission s (mtCO ₂ e)	Biogenic CO ₂ emissions (metric tons)
Scope 1 GHG emissions		(mound tonloy		(motile terio)		(motile terio)	2	(mound tond)
(102-5-a; 102-5-c)							9	
Scope 2 GHG emissions (102-6-a; 102-6-c)								
Location-based								
Market-based					ili	·		
Scope 3 GHG emissions (102-7-a; 102-7-c)					S			
Category 1: Purchased					R			
goods and services (102-7-b)								
Category 2: Capital goods (102-7-b)								
Category 3: Fuel- and								
energy-related activities (not								
included in Scope 1 or Scope			× .0.					
2 GHG emissions)			\sim					
(102-7-b)		(8					
Category 4: Upstream transportation and		2						
distribution		No.						
(102-7-b)								
Category 5: Waste								
generated in operations	X							
(102-7-b)								
Category 6: Business travel (102-7-b)	S							
Category 7: Employee	0							
commuting (102-7-b)								
Category 8: Upstream leased								
assets								
(102-7-b)								
Category 9: Downstream								
transportation and								
distribution								
(102-7-b) Category 10: Processing of								
sold products								
(102-7-b)								
Category 11: Use of sold								
products								
(102-7-b)								
Category 12: End-of-life								
treatment of sold products								
(102-7-b)			l					

⁸ Note that this is recommended, but not required.



⁷ Note that the breakdown by Scope 3 categories for the Scope 3 GHG emissions in the base year is recommended, but not required.

Category 13: Downstream leased assets (102-7-b)				
Category 14: Franchises (102-7-b)				
Category 15: Investments (102-7-b)				

2078 Note: Gray cells indicate non-applicable items.

2079 Table 8. Presenting information on Scope 1 and Scope 2 GHG emissions by gas

Scope 1 and Scope 2 GHG emissions by gas		Reporting [insert repor	J period -2 ting period] ⁹	Reporting [insert repor	y period -1 ting period] ⁸	Reporting period [insert reporting period]		
		Emissions (metric tons)	Emissions (mtCO ₂ e)	Emissions (metric tons)	Emissions (mtCO ₂ e)	Emissions (metric tons)	Emissions (mtCO ₂ e)	
Scope 1	CO ₂							
GHG emissions	CH ₄					30		
(102-5-b)	N ₂ O					×		
	HFCs					O'		
	PFCs					~		
	SF ₆					0		
	NF ₃				5			
Total Scope 1 GHG emissions (102-5-a)				É	:121 P			
Scope 2	CO ₂			0,				
GHG emissions	CH ₄			2				
(location- based) (102-6-b)	N ₂ O							
Total Scope 2 GHG emissions (location- based) (102-6-a)		Ő	(epress					
Scope 2	CO ₂							
GHG emissions	CH_4	e?						
(market- based) ¹⁰	N ₂ O							
Total Scope 2 GHG emissions (market- based) (102-6-a)								

2080

Note: Gray cells indicate non-applicable items.

¹⁰ Note that this is recommended, but not required.



⁹ Note that this is recommended, but not required.