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About this Standard

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

Scope
GRI 306: Effluents and Waste sets out reporting requirements on the topic of effluents and waste. This Standard can be used by an organization of any size, type, sector or geographic location that wants to report on its impacts related to this topic.

Normative references
This Standard is to be used together with the most recent versions of the following documents.
GRI 101: Foundation
GRI 103: Management Approach
GRI Standards Glossary

In the text of this Standard, terms defined in the Glossary are underlined.

Effective date
This Standard is effective for reports or other materials published on or after 1 July 2018. Earlier adoption is encouraged.

Note: This document includes hyperlinks to other Standards. In most browsers, using 'ctrl' + click will open external links in a new browser window. After clicking on a link, use 'alt' + left arrow to return to the previous view.
A. Overview

This Standard is part of the set of GRI Sustainability Reporting Standards (GRI Standards). These Standards are designed to be used by organizations to report about their impacts on the economy, the environment, and society.

The GRI Standards are structured as a set of interrelated, modular standards. The full set can be downloaded at www.globalreporting.org/standards/.

There are three universal Standards that apply to every organization preparing a sustainability report:

- GRI 101: Foundation
- GRI 102: General Disclosures
- GRI 103: Management Approach

**GRI 101: Foundation** is the starting point for using the GRI Standards. It has essential information on how to use and reference the Standards.

An organization then selects from the set of topic-specific GRI Standards for reporting on its material topics. These Standards are organized into three series: 200 (Economic topics), 300 (Environmental topics) and 400 (Social topics).

Each topic Standard includes disclosures specific to that topic, and is designed to be used together with **GRI 103: Management Approach**, which is used to report the management approach for the topic.

**GRI 306: Effluents and Waste** is a topic-specific GRI Standard in the 300 series (Environmental topics).

B. Using the GRI Standards and making claims

There are two basic approaches for using the GRI Standards. For each way of using the Standards there is a corresponding claim, or statement of use, which an organization is required to include in any published materials.

1. The GRI Standards can be used as a set to prepare a sustainability report that is in accordance with the Standards. There are two options for preparing a report in accordance (Core or Comprehensive), depending on the extent of disclosures included in the report.

   An organization preparing a report in accordance with the GRI Standards uses this Standard, **GRI 306: Effluents and Waste**, if this is one of its material topics.

2. Selected GRI Standards, or parts of their content, can also be used to report specific information, without preparing a report in accordance with the Standards. Any published materials that use the GRI Standards in this way are to include a ‘GRI-referenced’ claim.

See Section 3 of **GRI 101: Foundation** for more information on how to use the GRI Standards, and the specific claims that organizations are required to include in any published materials.
C. Requirements, recommendations and guidance

The GRI Standards include:

Requirements. These are mandatory instructions. In the text, requirements are presented in **bold font** and indicated with the word ‘shall’. Requirements are to be read in the context of recommendations and guidance; however, an organization is not required to comply with recommendations or guidance in order to claim that a report has been prepared in accordance with the Standards.

Recommendations. These are cases where a particular course of action is encouraged, but not required. In the text, the word ‘should’ indicates a recommendation.

Guidance. These sections include background information, explanations and examples to help organizations better understand the requirements.

An organization is required to comply with all applicable requirements in order to claim that its report has been prepared in accordance with the GRI Standards. See GRI 101: Foundation for more information.

D. Background context

In the context of the GRI Standards, the environmental dimension of sustainability concerns an organization’s impacts on living and non-living natural systems, including land, air, water, and ecosystems.

GRI 306 addresses the topic of effluents and waste. This includes water discharges; the generation, treatment and disposal of waste; and spills of chemicals, oils, fuels, and other substances.

The impacts of water discharges vary depending on the quantity, quality, and destination of the discharge. The unmanaged discharge of effluents with a high chemical or nutrient load (principally nitrogen, phosphorous, or potassium) can affect aquatic habitats, the quality of an available water supply, and an organization’s relationship with communities and other water users.

The generation, treatment and disposal of waste — including its improper transportation — can also pose harm to human health and the environment. This is of particular concern if waste is transported to countries lacking the infrastructure and regulations to handle it.

Spills of chemicals, oils, and fuels, among other substances, can potentially affect soil, water, air, biodiversity, and human health.
This Standard includes disclosures on the management approach and topic-specific disclosures. These are set out in the Standard as follows:

- Management approach disclosures (this section references GRI 103)
- Disclosure 306-1 Water discharge by quality and destination
- Disclosure 306-2 Waste by type and disposal method
- Disclosure 306-3 Significant spills
- Disclosure 306-4 Transport of hazardous waste
- Disclosure 306-5 Water bodies affected by water discharges and/or runoff

1. Management approach disclosures

Management approach disclosures are a narrative explanation of how an organization manages a material topic, the associated impacts, and stakeholders’ reasonable expectations and interests. Any organization that claims its report has been prepared in accordance with the GRI Standards is required to report on its management approach for every material topic, as well as reporting topic-specific disclosures for those topics.

Therefore, this topic-specific Standard is designed to be used together with GRI 103: Management Approach in order to provide full disclosure of the organization’s impacts. GRI 103 specifies how to report on the management approach and what information to provide.

Reporting requirements

1.1 The reporting organization shall report its management approach for effluents and waste using GRI 103: Management Approach.

Guidance

When reporting its management approach for effluents and waste, the reporting organization can also disclose expenditures on:

- treatment and disposal of waste;
- clean-up costs, including costs for remediation of spills as specified in Disclosure 306-3.
2. Topic-specific disclosures

Disclosure 306-1
Water discharge by quality and destination

Reporting requirements

The reporting organization shall report the following information:

a. Total volume of planned and unplanned water discharges by:
   i. destination;
   ii. quality of the water, including treatment method;
   iii. whether the water was reused by another organization.

b. Standards, methodologies, and assumptions used.

2.1 When compiling the information specified in Disclosure 306-1, the reporting organization shall:

   2.1.1 exclude collected rainwater and domestic sewage from the volume of planned and unplanned water discharges;

   2.1.2 if it does not have a meter to measure water discharges, estimate the volume of planned and unplanned water discharges by subtracting the approximate volume consumed on-site from the volume withdrawn as specified in Disclosure 303-1 of GRI 303: Water.

Guidance

Guidance for Disclosure 306-1

In the context of this Standard, ‘water discharge’ includes water effluents discharged over the course of the reporting period. These effluents can be discharged to subsurface waters, surface waters, sewers that lead to rivers, oceans, lakes, wetlands, treatment facilities, and ground water, either:

• through a defined discharge point (point source discharge);
• over land in a dispersed or undefined manner (non-point source discharge);
• as wastewater removed from the organization via truck.

Discharge of collected rainwater and domestic sewage is not considered to be water discharge.

Guidance for clause 2.2

The specific choice of water quality parameters can vary depending on the organization’s products, services, and operations.

Water quality metrics can vary depending on national or regional regulations.
Disclosure 306-2
Waste by type and disposal method

Reporting requirements

The reporting organization shall report the following information:

a. Total weight of hazardous waste, with a breakdown by the following disposal methods where applicable:
   i. Reuse
   ii. Recycling
   iii. Composting
   iv. Recovery, including energy recovery
   v. Incineration (mass burn)
   vi. Deep well injection
   vii. Landfill
   viii. On-site storage
   ix. Other (to be specified by the organization)

b. Total weight of non-hazardous waste, with a breakdown by the following disposal methods where applicable:
   i. Reuse
   ii. Recycling
   iii. Composting
   iv. Recovery, including energy recovery
   v. Incineration (mass burn)
   vi. Deep well injection
   vii. Landfill
   viii. On-site storage
   ix. Other (to be specified by the organization)

c. How the waste disposal method has been determined:
   i. Disposed of directly by the organization, or otherwise directly confirmed
   ii. Information provided by the waste disposal contractor
   iii. Organizational defaults of the waste disposal contractor

2.3 When compiling the information specified in Disclosure 306-2, the reporting organization shall:
   2.3.1 identify hazardous waste as defined by national legislation at the point of generation;
   2.3.2 exclude non-hazardous wastewater from the calculation of non-hazardous waste;
   2.3.3 if no weight data are available, estimate the weight using available information on waste density and volume collected, mass balances, or similar information.
Disclosure 306-2
Continued

Guidance

Background

Information about waste disposal methods reveals the extent to which an organization has managed the balance between disposal options and uneven environmental impacts. For example, land filling and recycling create very different types of environmental impacts and residual effects. Most waste minimization strategies emphasize prioritizing options for reuse, recycling, and then recovery over other disposal options to minimize ecological impacts.
Disclosure 306-3

Significant spills

Reporting requirements

The reporting organization shall report the following information:

a. Total number and total volume of recorded significant spills.

b. The following additional information for each spill that was reported in the organization’s financial statements:
   i. Location of spill;
   ii. Volume of spill;
   iii. Material of spill, categorized by: oil spills (soil or water surfaces), fuel spills (soil or water surfaces), spills of wastes (soil or water surfaces), spills of chemicals (mostly soil or water surfaces), and other (to be specified by the organization).

c. Impacts of significant spills.
Disclosure 306-4
Transport of hazardous waste

Reporting requirements

The reporting organization shall report the following information:

- Total weight for each of the following:
  - Hazardous waste transported
  - Hazardous waste imported
  - Hazardous waste exported
  - Hazardous waste treated
- Percentage of hazardous waste shipped internationally.
- Standards, methodologies, and assumptions used.

2.4 When compiling the information specified in Disclosure 306-4, the reporting organization shall:

- convert volumes to an estimate of weight;
- in response to Disclosure 306-4-c, provide a brief explanation of the methodology used for making these conversions.

Guidance

Guidance for Disclosure 306-4

This disclosure covers waste deemed hazardous under the terms of the Basel Convention Annex I, II, III, and VIII (see reference 1 in the References section). It covers hazardous waste transported by or on behalf of the reporting organization within the reporting period by destination, including transport across operational boundaries and within operations.

The organization can calculate the total weight of transported hazardous waste using the following equation:

\[
\text{Total weight of hazardous waste transported by destination} = \text{Weight of hazardous waste transported to the organization by destination from external sources/suppliers not owned by the organization} + \text{Weight of hazardous waste transported from the organization by destination to external sources/suppliers not owned by the organization} + \text{Weight of hazardous waste transported nationally and internationally by destination between locations owned, leased, or managed by the organization}
\]

Imported hazardous waste can be calculated as the total weight of hazardous waste transported across international borders and which enters the boundaries of the organization, by destination, excluding waste transported between different locations of the organization.

Exported hazardous waste can be calculated as the proportion of the total amount of transported hazardous waste by destination that is transported from the organization to locations abroad, including all waste that leaves the boundaries of the organization to cross international borders and excluding transportation between different locations of the organization.

For treated waste, the organization can identify:

- the portion of the total amount of transported and exported waste that the organization has treated, by destination;
- the portion of the total amount of waste, by destination, that is treated by external sources/suppliers, that has been transported, exported, or imported by the organization.
Disclosure 306-5
Water bodies affected by water discharges and/or runoff

Reporting requirements

The reporting organization shall report the following information:

a. Water bodies and related habitats that are significantly affected by water discharges and/or runoff, including information on:
   i. the size of the water body and related habitat;
   ii. whether the water body and related habitat is designated as a nationally or internationally protected area;
   iii. the biodiversity value, such as total number of protected species.

2.5 When compiling the information in Disclosure 306-5, the reporting organization shall report water bodies and related habitats significantly affected by water discharges and/or runoff that meet one or more of the following criteria:

2.5.1 Discharges account for an average of five percent or more of the annual average volume of the water body;

2.5.2 Discharges that, on the advice of appropriate professionals, such as municipal authorities, are known to have or are highly likely to have significant impacts on the water body and associated habitats;

2.5.3 Discharges to water bodies that are recognized by professionals to be particularly sensitive due to their relative size, function, or status as a rare, threatened, or endangered system, or that support a particular endangered species of plant or animal;

2.5.4 Any discharge to a wetland listed in the Ramsar Convention or any other nationally or internationally proclaimed conservation area regardless of the rate of discharge;

2.5.5 The water body has been identified as having a high biodiversity value, such as species diversity and endemism, or total number of protected species;

2.5.6 The water body has been identified as having a high value or importance to local communities.

Guidance

Background

This disclosure is a qualitative counterpart to the quantitative disclosures of water discharge, and helps to describe the impact of these discharges. Discharges and runoff affecting aquatic habitats can have a significant impact on the availability of water resources.

See references 4 and 5 in the References section.
The following documents informed the development of this Standard and can be helpful for understanding and applying it.

**Authoritative intergovernmental instruments:**


**Other relevant references:**

Legal liability

This document, designed to promote sustainability reporting, has been developed by the Global Sustainability Standards Board (GSSB) through a unique multi-stakeholder consultative process involving representatives from organizations and report information users from around the world. While the GRI Board of Directors and GSSB encourage use of the GRI Sustainability Reporting Standards (GRI Standards) and related Interpretations by all organizations, the preparation and publication of reports based fully or partially on the GRI Standards and related Interpretations are the full responsibility of those producing them. Neither the GRI Board of Directors, GSSB nor Stichting Global Reporting Initiative (GRI) can assume responsibility for any consequences or damages resulting directly or indirectly from the use of the GRI Standards and related Interpretations in the preparation of reports, or the use of reports based on the GRI Standards and related Interpretations.

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