GRI Sector Standard: Oil and Gas - Exposure draft

8 July 2020

Comments to be received by 6 October 2020

This exposure draft of the Sector Standard: Oil and Gas has been published for public comment by the Global Sustainability Standards Board (GSSB), the independent standard-setting body of GRI.

This exposure draft is accompanied by the Explanatory memorandum, which sets out the objectives for developing the pilot GRI Sector Standard, GRI Sector Standard: Oil and Gas, the significant proposals contained in the exposure draft, and a summary of the GSSB’s involvement and views on the development of the draft.

All references to the GRI Universal Standards in this document are to the exposure drafts made available for public comment as part of the review of GRI’s Universal Standards. GRI Sector Standard: Oil and Gas is subject to changes as a result of outcomes from public comments on the Universal Standards as well as on this exposure draft.

Any interested party can submit comments on the draft by 6 October 2020 using this Exposure draft survey.

For more information, visit the GRI Standards website. For questions regarding the project, the exposure draft, or the public comment period, please email oil@globalreporting.org.
GRI Sector Standard: Oil and Gas

Users can navigate to specific sections of the exposure draft by clicking the hyperlinked bookmarks that function in most browsers and in Adobe Acrobat Reader.
Contents

1. Introduction ............................................................................................................................... 4
   1.1. Purpose of the GRI Sector Standards .................................................................................. 4
   1.2. GRI Standards .................................................................................................................... 4
   1.3. Organizations this Standard applies to ................................................................................ 5
   1.4. Overview of this Standard .................................................................................................. 5
   1.5. Using this Standard ............................................................................................................. 6
       Identifying material topics ........................................................................................................ 6
       Identifying what to report ......................................................................................................... 6
2. Sector description ..................................................................................................................... 8
   2.1. Oil and gas sector activities ............................................................................................... 8
   2.2. Sector context ..................................................................................................................... 9
3. Sector topics ............................................................................................................................ 12
   3.1. Overview of likely material topics .................................................................................... 12
       Climate change ........................................................................................................................ 12
       Environment and biodiversity ................................................................................................. 12
       Health and safety .................................................................................................................... 13
       Employment ............................................................................................................................ 13
       Communities ........................................................................................................................ 13
       Transparency and governance ............................................................................................... 14
   3.2. Topic descriptions and what to report .............................................................................. 15
       CLIMATE CHANGE ................................................................................................................ 15
       GHG emissions ....................................................................................................................... 15
       Climate resilience and transition ............................................................................................ 18
       ENVIRONMENT AND BIODIVERSITY ............................................................................. 22
       Air emissions ........................................................................................................................ 22
       Biodiversity .......................................................................................................................... 23
       Waste .................................................................................................................................... 25
       Water and effluents ................................................................................................................ 27
       Closure and decommissioning ............................................................................................... 29
       HEALTH AND SAFETY ........................................................................................................ 31
       Asset integrity and process safety .......................................................................................... 31
       Occupational Health and Safety ............................................................................................ 33
<table>
<thead>
<tr>
<th>EMPLOYMENT</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment practices</td>
<td>35</td>
</tr>
<tr>
<td>Diversity and non-discrimination</td>
<td>37</td>
</tr>
<tr>
<td>Forced labor and modern slavery</td>
<td>38</td>
</tr>
<tr>
<td>Freedom of association and collective bargaining</td>
<td>40</td>
</tr>
<tr>
<td><strong>COMMUNITIES</strong></td>
<td>41</td>
</tr>
<tr>
<td>Economic impacts</td>
<td>41</td>
</tr>
<tr>
<td>Local community impacts</td>
<td>43</td>
</tr>
<tr>
<td>Land use and resettlement</td>
<td>45</td>
</tr>
<tr>
<td>Rights of indigenous peoples</td>
<td>47</td>
</tr>
<tr>
<td>Conflict and security</td>
<td>50</td>
</tr>
<tr>
<td><strong>TRANSPARENCY AND GOVERNANCE</strong></td>
<td>51</td>
</tr>
<tr>
<td>Anti-competitive behavior</td>
<td>51</td>
</tr>
<tr>
<td>Anti-corruption</td>
<td>52</td>
</tr>
<tr>
<td>Payments to governments</td>
<td>54</td>
</tr>
<tr>
<td>Public policy and lobbying</td>
<td>56</td>
</tr>
<tr>
<td><strong>Glossary</strong></td>
<td>57</td>
</tr>
<tr>
<td><strong>Bibliography</strong></td>
<td>70</td>
</tr>
</tbody>
</table>
1. Introduction

GRI Sector Standard: Oil and Gas, which is part of the GRI Sustainability Reporting Standards (GRI Standards), applies to any organization that undertakes activities in the oil and gas sector. It helps an organization in the sector identify and report on its most significant impacts and assists information users in examining and appraising the organization’s reporting.

1.1. Purpose of the GRI Sector Standards

The GRI Sector Standards (Sector Standards) are intended to help organizations prepare and report information on their material topics, enhancing transparency and accountability as well as supporting decision-making.

Through their activities and business relationships, organizations impact the economy, environment, and people, and in turn make negative and positive contributions to sustainable development. Material topics are those that reflect the organization’s most significant impacts on the economy, environment, and people, including human rights.

The topics an organization identifies as material may vary according to specific circumstances, such as its business model; sector; geographic, cultural, and legal operating contexts; ownership structure; and the nature of its impacts.

Sector Standards provide information on the likely material topics for an organization in a given sector. These topics have been identified through a transparent, multi-stakeholder process, and are based on available authoritative instruments and other relevant references. They need to be considered for reporting by an organization in that sector.

If an organization identifies a topic in an applicable Sector Standard as material, the Sector Standard also helps it determine what to report for that topic.

1.2. GRI Standards

The GRI Standards enable an organization to publicly disclose its most significant impacts and how it manages these impacts. The GRI Standards consist of three sets of Standards: Universal Standards, Sector Standards, and Topic Standards (Figure 1).

Note: All references to the GRI Universal Standards in this document are to the exposure drafts made available for public comment as part of the review of GRI’s Universal Standards.

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1 The development of Sector Standards is overseen by the Global Sustainability Standards Board and governed by the formally defined Due Process Protocol.
For more information on how to use the GRI Standards system, see *GRI 101: Using the GRI Standards*.

### 1.3. Organizations this Standard applies to

GRI Sector Standard: Oil and Gas applies to organizations undertaking the following activities:

- Exploration and production of onshore and offshore oil and gas, including by integrated oil and gas companies.
- Supply of equipment and services to oil fields and offshore platforms, such as drilling, exploration, seismic information services and platform construction, including by owners and contractors of drilling rigs.
- Storage and transportation of oil and gas, such as that conducted by midstream natural gas companies, pipeline operators, and oil and gas shipping.
- Manufacturing and marketing of oil and gas products, such as refined petroleum products and consumable fuels.

This Standard can be used by oil and gas organizations of any size or type in any geographic location.

### 1.4. Overview of this Standard

The next section, Section 1.5, sets out how this Standard is used. The rest of the Standard is structured as follows:

- Section 2 provides an overview of the sector, including its activities, types of business relationships, and context.
• Section 3 describes sector topics, which are topics that have been identified as likely material for an organization in the oil and gas sector and therefore potentially merit inclusion in its reporting.

• Each sector topic description in Section 3 contains a ‘What to report’ section that lists disclosures identified for reporting on the topic by an organization in the oil and gas sector. This section specifies appropriate disclosures from the GRI Topic Standards and, where relevant, includes additional appropriate disclosures and sector-specific guidance. It also lists resources that can assist an organization with reporting.

1.5. Using this Standard

Identifying material topics

An organization reporting in accordance with the GRI Standards is required to identify its material topics. Material topics are the topics an organization has prioritized to report on because they reflect its most significant impacts on the economy, environment, and people, including impacts on human rights. GRI 103: Material Topics includes guidance for identifying material topics.

Section 3 of this Sector Standard outlines topics that are likely material for an organization in the oil and gas sector based on the sector’s most significant impacts.

GRI 101: Using the GRI Standards requires that when identifying its material topics, an organization use the Sector Standard(s) that apply to its sector(s) where available. As such, an organization in the oil and gas sector needs to review each topic described in this Standard and determine whether it is material for it to report on. The organization may need to use more than one Sector Standard, depending on its activities.

Using this Standard is not intended to substitute the organization’s own process for identifying material topics. Not all topics listed in this Standard may be material for all organizations in the oil and gas sector, and other topics may be material that are not listed in this Standard. An organization is therefore still required to identify material topics according to its unique circumstances.

Sustainability context

Sections 2 and 3 include contextual information for the sector, including highlighting authoritative measures of sustainable development, referencing broader sustainable development conditions and goals set out in recognized sector-specific or global instruments, and describing expectations of responsible business conduct and transparency. This will assist an organization to report on its impacts in the wider context of sustainable development.

Identifying what to report

GRI 101: Using the GRI Standards requires the organization to report appropriate disclosures from the corresponding GRI Topic Standard for each material topic. If a material topic is not covered by a Topic Standard or the Topic Standard does not provide appropriate disclosures for the organization’s impacts for a material topic, the organization should report appropriate disclosures from other sources.

The Sector Standard lists disclosures from the Topic Standards and other sources that have been identified as appropriate for reporting on each sector topic.
If a sector topic is not covered by the Topic Standards or if the disclosures in the Topic Standards do not sufficiently capture the impacts associated with the sector for that topic, additional disclosures and/or guidance are also listed.

If the organization determines that some disclosures listed for a sector topic do not adequately capture the impacts it has identified for a material topic, it does not need to report them. It only needs to report those disclosures that adequately capture its impacts.

Along with any appropriate disclosures, the organization is required to report how it manages each material topic and related impacts using GRI 103: Material Topics.

Figure 2 illustrates how the ‘What to report’ sections are structured.

### Including the Sector Standard in a GRI Content Index

An organization reporting in accordance with the GRI Standards is required to publish a GRI Content Index using the template set out in GRI 101: Using the GRI Standards. As part of this content index, the organization is required to list the Sector Standard(s) it has used when identifying its material topics.

For more information on the elements an organization should include in the GRI Content Index, see Appendix 1 in GRI 101: Using the GRI Standards.

**Figure 2. Content overview of ‘What to report’ section included in each sector topic**

- **WHAT TO REPORT**
  - If an organization in the oil and gas sector has identified closure and decommissioning as a material topic, this section helps it determine what to report on this topic.
  1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
  2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:
     - a. GRI 402: Labor/Management Relations 2016
       - Disclosure 402-1 Minimum notice periods regarding operational changes
       - When reporting minimum notice periods regarding operational changes, the organization should describe its worker consultation practice in advance of significant operational changes.
     - b. GRI 404: Training and Education 2016
       - Disclosures 404-2 Programs for upgrading employee skills and transition assistance programs
       - When reporting programs for upgrading employee skills and transition assistance programs, the organization should describe labor transition plans in place to help workers manage the transition to post-closure phase of operations which can include re-deployment, assistance with re-employment, resettlement, and redundancy.
  3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:
     - A list of the active fields or facilities with decommissioning plans, fields and facilities that have been decommissioned, and those fields and facilities in the process of being decommissioned. The organization can also provide a breakdown of these by onshore and offshore locations.
     - Total amount of financial provisions made by the organization for decommissioning and closure, as well as post-decommissioning and closure monitoring and aftercare for their fields and facilities.
  4. The following resources may help organizations in the oil and gas sector report on this topic:
     - International Association of Oil and Gas Producers (IOGP), Decommissioning of offshore concrete gravity-based structures (CGBS) in the OSPAR maritime area/other global regions (IOGP Report 494, 2018).
2. Sector description

The oil and gas sector is a large, global industry producing energy and raw materials for products, such as specialty chemicals, polymers, and petrochemicals. In addition to impacts related to the activities described below, significant impacts are associated with the use of oil and gas products, the combustion of which generates air emissions, including greenhouse gases (GHG). GHG emissions, in turn, are the main contributor to climate change. Along with end users, organizations extracting these products are increasingly expected to take responsibility for product use emissions from combustion and to disclose GHG emissions that occur from the use of its products (Scope 3 emissions).

2.1. Oil and gas sector activities

The following describes upstream and downstream oil and gas activities and related project lifecycle phases.

**Exploration:** Surveying of resources, which can include aerial surveys, seismic testing, and exploratory drilling.

**Development:** Design, planning, and construction of oil and gas fields, including processing and worker facilities.

**Production:** Production of oil and gas from reservoirs offshore or onshore, and separation of fluids through processing.

**Mining oil sands:** Extraction of bitumen from oil sands using surface mining or in-situ techniques.

**Decommissioning and rehabilitation:** Dismantling, removal, disposal, or modification of a physical asset and site rehabilitation.

**Refining:** Refining of oil into petroleum products for use as fuels and as feedstocks for chemicals.

**Processing:** Processing of gas into pipe-quality natural gas and natural gas liquids, including removing hydrocarbons and fluids.

**Transport:** Marine and land transportation of oil and gas products.

**Storage and pipelines:** Distribution and storage of oil and gas in tanks and marine vessels and distribution via marine and land-based pipelines.

**Sales and marketing:** Trading and customer sales of products, for example, transport fuels, gas for retail use, and inputs into lubricants, plastics, and chemicals manufacturing.

**BUSINESS RELATIONSHIPS**

In the GRI Standards, impact refers to the effect an organization has or could have on the economy, environment, or people, including on human rights, as a result of its activities or business relationships. When identifying its material topics and related impacts, the organization should consider the impacts of additional entities with which it has business relationships. See GRI 103: Material Topics for more information.

The following business relationships are of particular relevance for the oil and gas sector:

Joint ventures: these are common arrangements, particularly in upstream oil and gas operations. Within a joint venture, companies share the costs, benefits, and liabilities of assets or a project. An
organization can be involved with negative impacts as a result of a joint venture, even if it is a non-operating partner.

State-owned enterprises (SOEs): these are prevalent in the oil and gas sector. They often represent the largest producers of the commodities and hold ownership of the majority of reserves. SOEs often have specific governance challenges, which are addressed in the section Transparency and governance.

Suppliers and contractors: these are used, often in large number, by oil and gas organizations during certain phases of the project, such as drilling or construction, or to provide services. Some of the most significant impacts related to the topics in this Sector Standard occur mainly through the supply chain.

### 2.2. Sector context

The oil and gas sector currently plays an important role in meeting society’s need for energy and raw materials. The sector’s activities are associated with extensive infrastructure development, project lifecycles lasting several decades, and immobile production, which can result in various and long-lasting impacts on the environment and people. Presently, extraction of oil and gas also generates critical revenue streams for governments that can contribute to local and national economic development, along with job creation, investments, and local skills and business development. At the same time, the large revenues derived from the sector can contribute to corruption and mismanagement of resources. Economies dependent on these finite resources can also be vulnerable to commodity price and production fluctuations.

The sector’s main business model has historically been based on the production of energy, which is an essential driver of sustainable development. The world’s energy systems have thus far relied on fossil fuels, such as oil and gas, to generate electricity and to fuel global economic development. With world population and economies growing, the demand for energy and electricity is burgeoning. At present, more than one in ten people globally still lack access to electricity, highlighting the need for modern energy that everyone can afford and depend on. However, extracting and burning oil and gas releases greenhouse gases, which are the largest single contributor to climate change.

Almost every country in the world has committed to combating climate change, as outlined in the 2015 Paris Agreement. Leading scientists warn in the Intergovernmental Panel on Climate Change (IPCC) special report Global Warming of 1.5°C that continuing on a ‘business-as-usual’ basis to consume and produce fossil fuels, including existing and future reserves, could result in dangerous global temperature increases and magnified risks of extreme weather and climate events. Further reports show that with current commitments, the world is heading toward a 3.2°C rise in temperature by 2100.

Combating climate change and avoiding dangerous temperature increases will require the global energy system to transition to low-carbon economies. Actions taken by high-emitting sectors, such as oil and gas, are essential to this transition. This can include making business model changes, investing

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in renewable energy resources, prioritizing energy-efficient practices, and developing and adopting new technologies and nature-based solutions to remove carbon from the atmosphere.\textsuperscript{4}

As laid out by the Paris Agreement, organizations and governments must work together to ensure a 
just transition. This entails accommodating countries’ differing capabilities to respond to and mitigate impacts and ensuring equitable access to sustainable development, while contributing to poverty eradication and creating quality jobs for people affected by the transition.\textsuperscript{5}

The oil and gas sector activities can support a number of United Nations Sustainable Development Goals (SDGs), either through their positive contributions or by preventing or mitigating negative impacts. Figure 3 presents linkages between the sector’s high-level impacts and the SDGs.


\textsuperscript{5} United Nations Framework Convention on Climate Change (UNFCCC), Paris Agreement, 2015, unfccc.int/files/essential_background/convention/application/pdf/english_paris_agreement.pdf.
Figure 3. The oil and gas sector and the Sustainable Development Goals

Climate change and energy
Extracting, refining, and burning oil and gas products release GHGs, and constitute the primary contributor to anthropogenic climate change. Climate change has been found to cause extreme weather events, rising sea levels, changes in quantity and quality of water resources, ocean acidification and rising sea temperatures, accelerating biodiversity loss and ecosystem change, poorer air quality, and higher frequency of forest fires. Climate change also threatens lives, livelihoods, health, and the homes of millions of people, and can exacerbate other challenges, such as achieving access to clean water, food security, and poverty reduction. As a consequence, a low-carbon transition is essential while ensuring access to affordable, reliable, sustainable, and modern energy for economic growth, employment, education, poverty reduction, and health.

Environment and biodiversity
The oil and gas sector can have significant impacts on the environment and on biodiversity. Affecting the atmosphere, soil, as well as freshwater, marine, and terrestrial environments, these impacts vary according to location, lifespan of a project, size of activity, and technology used. Environmental impacts can also have repercussions on human health and well-being, such as through emissions or waste streams, or affect the availability of resources essential to local communities, such as water.

Health and safety
Activities associated with the oil and gas sector often involve hazardous, flammable, and explosive materials, complex industrial processes and large machinery, long working hours in remote locations or confined spaces, and extensive transportation routes, exposing workers and local communities to incidents that can cause widespread damage.

Transparency and governance
Communities
Employment
Health and safety
Environment and biodiversity
Climate change and energy

Employment
The oil and gas sector offers many employment opportunities across the value chain, as significant phases of operations rely on the contributions of employees and suppliers. At the same time, complex supply chains, remote working environments, and increasing use of contract labor make the sector vulnerable to labor-related issues that can violate fundamental principles and rights at work.

Communities
Oil and gas activities can yield economic and social development for nations, regions, and local communities, but can also pose communities to negative impacts that can compromise livelihoods and affect their health, safety, and well-being. The consequences of these impacts are often felt more severely by vulnerable groups, including indigenous peoples, women, and children.

Transparency and governance
Oil and gas revenues can be used to fuel economic development by funding social expenditure, such as on health and education. Although many public organizations in the sector are subject to extensive disclosure demands, lack of transparency over payments, ownership structures, competition practices, and lobbying activities is growing public concern and can have widespread impacts on sustainable development.
3. Sector topics

3.1. Overview of likely material topics

The following topics have been identified as likely material for organizations in the oil and gas sector. The topics are grouped by theme and elaborated on in Section 3.2.

Climate change

- **Greenhouse gas (GHG) emissions**
  Greenhouse gas (GHG) emissions comprise air emissions that contribute to climate change, such as carbon dioxide and methane. This topic covers direct and indirect GHG emissions (Scope 1 and Scope 2) as well as emissions related to construction activities, transportation, processing and refining, and end use of products (Scope 3).

- **Climate resilience and transition**
  Climate resilience refers to how organizations are adapting to current and anticipated future climate risks and hazards. This topic also covers approaches and actions organizations can take toward a just transition to low-carbon economies.

Environment and biodiversity

- **Air emissions**
  Air emissions are pollutants that can have adverse impacts on ecosystems, air quality, agriculture, and human and animal health. This topic covers impacts from such pollutants, including sulfur dioxides, nitrogen oxides, particulate matter, volatile organic compounds, carbon monoxide, and heavy metals, such as lead, mercury, and cadmium.

- **Biodiversity**
  Biodiversity has intrinsic value, and is closely connected to climate, human health and well-being, and economic prosperity. This topic covers impacts on biodiversity, including on plant and animal species, genetic diversity, and ecosystems.

- **Waste**
  Waste refers to anything that a holder discards, intends to discard, or is required to discard. When inadequately managed, waste can have significant negative impacts on the environment and human health, often extending beyond locations where waste is generated and discarded. This topic covers impacts from waste, including as a result of construction and remediation activities from active and inactive sites.

- **Water and effluents**
  The amount of water withdrawn and consumed by an organization and the quality of its discharges can impact the functioning of an ecosystem and have economic and social consequences for local communities and indigenous peoples. This topic covers impacts on freshwater – including groundwater, surface water, and seawater.

- **Closure and decommissioning**
  At the end of commercial use, organizations are expected to decommission assets and facilities and rehabilitate operational sites. The planning and execution of this phase is expected to take environmental as well as socioeconomic consequences into consideration. This topic covers impacts from closure and decommissioning on the environment, local communities, and workers.
Health and safety

- **Asset integrity and process safety**
  Asset integrity and process safety deal with prevention and control of events and incidents that can result in, for example, toxic effects, loss of containment, fires, or explosion. These, in turn, can lead to casualties or major injuries, property damage, production decrease, and environmental impacts. This topic covers impacts from such events and incidents on local communities and workers.

- **Occupational health and safety**
  Occupational health and safety include prevention of physical and mental harm and promotion of workers' health. This topic covers impacts related to workers' health and safety, including workers who are not employees.

Employment

- **Employment practices**
  Employment practices refer to an organization's approach to job creation, recruitment, retention, training, and development, as well as the working conditions set for its workers and suppliers. This topic covers impacts on workers as a result of employment practices.

- **Diversity and non-discrimination**
  Freedom from discrimination is a fundamental labor right. Discrimination can impose unequal burdens on or deny benefits to individuals instead of treating them fairly and on the basis of individual merit. This topic covers impacts from discrimination and an organization's practices related to diversity and inclusion.

- **Forced labor and modern slavery**
  Freedom from forced labor is a fundamental labor right. This topic covers concepts such as forced or compulsory labor, debt bondage, forced marriage, slavery and slavery-like practices, and human trafficking.

- **Freedom of association and collective bargaining**
  Freedom of association and collective bargaining are fundamental labor rights. They include the rights of employers and workers to form, join, and run their own organizations without prior authorization or interference, as well as to collectively negotiate working conditions and terms of employment. This topic covers impacts resulting from interference with freedom of association and collective bargaining.

Communities

- **Economic impacts**
  Organizations' activities can have direct impacts on the economic conditions of its stakeholders and on economic systems through, for example, revenues and other payments, local hiring, and local procurement. Indirect impacts can influence a community's well-being and long-term development through, for example, infrastructure investments and services supported. This topic covers economic impacts at local, national, and global levels.

- **Local community impacts**
  Local communities can comprise a range of persons, from those living adjacent to an organization's activities to those at a distance who are still likely to be affected by them. This topic covers socioeconomic, cultural, and environmental impacts on local communities.

- **Land use and resettlement**
The extensive land use required by oil and gas activities can affect a community’s rights by restricting its access to that land and lead to involuntary resettlement of communities and individuals using the land. This topic covers impacts on local communities as a result of land use and resettlement.

- **Rights of indigenous peoples**
  Indigenous peoples often have distinct customary cultural, economic, social, and political institutions, or lack economic resources, which renders them vulnerable to impacts caused by large-scale development projects. This topic covers impacts on the rights of indigenous peoples.

- **Conflict and security**
  An organization’s use of security personnel to safeguard its workers and operations can pose risks to the human rights of local communities. This topic covers impacts related to operating in areas of conflict and the conduct of security personnel toward third parties, such as local communities.

**Transparency and governance**

- **Anti-competitive behavior**
  Anti-competitive behavior and anti-trust practices can result in collusion with potential competitors, with the purpose of limiting the effects of market competition. This topic covers impacts as a result of such practices.

- **Anti-corruption**
  Corruption refers to corrupt practices, such as bribery, facilitation payments, fraud, extortion, collusion, and money laundering. It can also include self-dealing, influence peddling, and conflicts of interest. This topic covers impacts as a result of such practices.

- **Payments to governments**
  Payments to governments include paid taxes; production rights; royalties; signature, discovery, and production bonuses; commodity trading activities; and other payments. Lack of transparency about such payments can contribute to inefficient management of public funds, illicit financial flows, and corruption. This topic covers impacts related to lack of transparency on these payments.

- **Public policy and lobbying**
  An organization’s participation in public policy development can include activities, such as lobbying and, directly or through an intermediary organization, making financial or in-kind contributions to political parties, politicians, or causes. This topic covers impacts related to public policy development and lobbying activities.
3.2. Topic descriptions and what to report

The following section describes the most significant impacts related to the likely material topics for the oil and gas sector across upstream and downstream activities. An organization in the oil and gas sector needs to review each topic described in this section and determine whether it is material for it to report on. This section also assists the organization in determining what to report for each of these topics.

CLIMATE CHANGE

GHG emissions

Oil and gas are responsible for a large portion of two of the most significant greenhouse gas (GHG) emissions causing climate change: carbon dioxide (CO$_2$) and methane (CH$_4$). CO$_2$ and CH$_4$ constitute over 90% of global GHG emissions. The sector’s activities and product use makes up roughly half of the global CO$_2$ emissions and close to a quarter of CH$_4$ emissions caused by human activities.\(^6\) Recent measurements show a high degree of uncertainty in estimates of global CH$_4$ emissions from oil and gas activities, which has a significantly higher global warming potential than CO$_2$.

Other greenhouse gases from oil and gas activities include ethane (C$_2$H$_6$), nitrous oxide (N$_2$O), hydrofluorocarbons (HCFs), perfluorocarbons (PFCs), sulfur hexafluoride (SF$_6$), and nitrogen trifluoride (NF$_3$).

Scope 1 and 2 emissions

Oil and gas activities consume significant amounts of energy. Unless powered by renewable energy sources, these activities generate GHG emissions, which are classified as direct (Scope 1) GHG emissions for activities owned or controlled by the organization or indirect (Scope 2) GHG emissions, which are a result of purchased or acquired electricity, heating, cooling, and steam consumed by the organization. GHG emissions originate from stationary and mobile sources (e.g., transportation of materials, products, or waste); extraction; operation of facilities and equipment; transportation; liquefaction and regasification of natural gas; and oil refining.

Direct GHG emissions from oil and gas include emissions from fuel combustion during operations, process emissions such as those during loading and tankage, and fugitive emissions such as those from piping and equipment leaks.

In addition, flaring and venting are one of the most significant sources of GHG emissions from oil and gas activities. These practices are aimed to dispose of gas that cannot be contained or otherwise handled for safety, technical, or economic reasons. They occur during production, storage, refining, and electricity generation.

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Though improvements in production efficiency have reduced direct emissions, increasing depletion of traditional oil and gas resources moves production to complex or sensitive environments, such as offshore deep water and oil sands. These difficult settings and the unconventional extraction methods they necessitate have led to increased energy use and GHG emissions during production activities.

**Scope 3 emissions**

For oil and gas, end-use activities are responsible for the most significant GHG emissions, which are classified as other indirect (Scope 3) GHG emissions. Higher energy demands have led to higher GHG emissions, the majority of which originates from combustion processes. Oil and natural gas combustion represent over half of global CO₂ emissions. These emissions mostly originate from activities, such as electricity and heat generation, transportation, manufacturing, and construction.

### Flaring and venting

Routine venting of associated gases is widely considered poor industry practice. Venting releases CH₄ directly to the atmosphere, whereas flaring converts the gas to CO₂, which has a lower global warming potential. The International Finance Corporation recommends routing associated gas streams to an efficient flare system instead of venting it.

However, continuous flaring of gas should also be avoided. Although large amounts of associated gases from oil and gas activities are utilized or conserved, routine flaring still occurs in many major oil- and gas-producing countries. The World Bank defines routine flaring as that which occurs 'during normal oil production operations in the absence of sufficient facilities or amenable geology to re-inject the produced gas, utilize it on-site, or dispatch it to a market', and in 2019, estimated that around 4% of all natural gas produced was wasted by flaring. The uptick of shale oil production has also increased flaring volumes. Paradoxically, better regulation and detection of flaring could also result in increased venting, creating a net increase in global warming.

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**WHAT TO REPORT**

If an organization in the oil and gas sector has identified GHG emissions as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

   When reporting on actions taken to manage GHG emissions and related impacts and the effectiveness of these actions, the organization should report the actions taken to manage flaring and venting as well as the effectiveness of these actions.

   When reporting on goals and targets, the organization should report the following:

   - How goals and targets are set;

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- Whether, and how, goals and targets take into account the context in which the impacts take place and are informed by expectations in internationally recognized instruments and, where relevant, by scientific consensus;
- Whether goals and targets are voluntary or mandatory (if mandatory, the organization can list the mandating legislation);
- Activities or business relationships to which the goals and targets apply;
- Baseline for the goals and targets; and
- Timeline for achieving the goals and targets.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:
   a. **GRI 302: Energy 2016**
      - Disclosure 302-1 Energy consumption within the organization
      - Disclosure 302-3 Energy intensity
   b. **GRI 305: Emissions 2016**
      - Disclosure 305-1 Direct (Scope 1) GHG emissions
        When reporting on direct (Scope 1) GHG emissions, the organization should report:
        - Percentage of methane emissions from gross direct (Scope 1) GHG emissions; and
        - Breakdown of direct (Scope 1) GHG emissions by type of source, including from flared gas, vented gas, and fugitive emissions.
      - Disclosure 305-2 Energy indirect (Scope 2) GHG emissions
      - Disclosure 305-3 Other indirect (Scope 3) GHG emissions
      - Disclosure 305-4 GHG emissions intensity
      - Disclosure 305-5 Reduction of GHG emissions

3. In addition to the disclosures listed above, when reporting **ACT-1 Activities, value chain, and other business relationships in GRI 102: About the Organization**, the organization should report efforts to move toward less GHG-intensive operations and products.

4. The following resources may help an organization in the oil and gas sector report on this topic:
Climate resilience and transition

Climate change cuts across environmental and socioeconomic systems. To achieve sustainable development while addressing climate change, both mitigation and adaptation strategies are required. Mitigation, in order to avoid extreme climate change effects by, for example, investing in renewable energy, nature-based solutions to climate mitigation, and technologies to remove CO₂ from the atmosphere. Adaption, in order to cope with impacts that cannot be avoided. If climate change is moderate rather than substantial, the resulting risks to sustainable development may also be limited.⁹

For organizations in the oil and gas sector, climate-related risks include transition risks that can affect the organization’s financial performance as well as physical risks driven by acute events and long-term shifts in climate patterns, which can have impacts on the health and safety of workers and local communities. Disruptions in operations can also cause gaps in energy supply and impact energy security.

Climate resilience and transition to low-carbon economies can limit these impacts and provide opportunities for organizations in the oil and gas sector, including improved resource efficiency, low-emission energy sources and consumption patterns, new products and services, and access to new markets.

Transition to low-carbon economies

There is wide agreement that to mitigate climate change and stabilize global temperatures, global CO₂ emissions need to be limited. They need to ‘eventually approach zero’, which requires a ‘fundamental transformation of the energy supply system’ involving a key role for low-GHG energy supply technologies.¹⁰ For an organization in the oil and gas sector, this poses a ‘strategic challenge of balancing short-term returns with its long-term license to operate’¹¹ while also facing increasing pressure to align with the transition to low-carbon energy in portfolios and business models.

Currently, proven global reserves of fossil fuels significantly exceed that which can be combusted while still keeping warming ‘well below 2 degrees’, the global goal established by the Paris Agreement. Aligning with this goal requires organizations to set carbon emission targets that are compatible with carbon budgets, which indicate ‘the cumulative amount of CO₂ emissions permitted over a period of time to keep within a certain temperature threshold’.¹² These projections are also referred to as ‘scenarios’. By making targets compatible with carbon budgets, organizations can better establish relevant mitigation and adaptation measures to navigate a climate-resilient pathway. The more limited

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Such changes in business models can have economic impacts, including loss of economic activity affecting sector workforces, local communities, and entire nations. Countries – particularly those with emerging economies whose gross domestic products heavily rely on fossil fuels – face greater transition-related challenges. Stricter climate policies, environmental regulations, and technological developments can increase the risk of stranded assets when demand for oil and gas decreases and production costs remain stable or increase. This can increase the need to retire production infrastructure, which can be a major economic burden for governments and taxpayers.

As oil and gas fields have finite lifespans, the coming decades are likely to see increases in closure and decommissioning without being counterbalanced by new developments. The social impact can be significant when substantial direct employment, broader job creation, and economic development in the region depend on the sector. Workers face other potential impacts related to employment, specifically surrounding employability, reskilling, and desirable re-employment.

Transitioning to low-carbon economies can also offer communities opportunities to transform economic activity, in turn, creating new jobs and skills development. To create opportunities and ensure a just transition for those most affected, it is essential to anticipate and facilitate workforce retraining and mobility through active dialogue between governments, employers, and workers.

**WHAT TO REPORT**

If an organization in the oil and gas sector has identified climate resilience and transition as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
   a. When reporting on actions taken to manage climate resilience and transition and related impacts, the organization should report:
      - Level and function within the organization assigned responsibility for managing the impacts (this can also be reported as part of GOV-3 Responsibilities for sustainable development topics and delegation in GRI 102: About the Organization);
      - Internal decision-making, budget allocation, and oversight processes to enable effective actions to manage the impacts (this can also be reported as part of GOV-13 Remuneration policies in GRI 102: About the Organization);
      - How performance criteria in the remuneration policies for highest governance body members and senior executives relate to the topic; and
      - Whether responsibility to manage the topic is linked to performance assessments or incentive mechanisms.
   b. When describing its policies on or commitments to the topic, the organization should report:
      - Policy commitments to climate change (this can be reported as part of RBC-2 Policy commitments in GRI 102: About the Organization);
      - Approach to public advocacy on climate change, including stance on issues related to climate change, and any differences between its lobbying positions and any stated policies, goals, or other public positions; and
      - Any industry and other membership associations and national and international advocacy organizations that participate in public advocacy on climate change in which the organization has a significant role (this can also be reported as part of RBC-7 Membership associations in GRI 102: About the Organization).
c. When reporting on goals and targets, the organization should report targets related to reducing Scope 3 emissions from use of sold products, including:
   - Strategy to achieve targets, including through investments in renewable energy, nature-based solutions to climate mitigation, and technologies to remove CO₂ from the atmosphere;
   - Baseline for the targets;
   - Whether and how the goals and targets take into account the context in which the impacts take place and are informed by expectations in internationally recognized instruments and, where relevant, by scientific consensus; and
   - Timeline for achieving goals and targets.

(Note: Reporting on goals and targets related to Scope 1 emissions and Scope 2 emissions is included in GHG emissions.)

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:

GRI 201: Economic Performance 2016

- Disclosure 201-2 Financial implications and other risks and opportunities due to climate change

When reporting on financial implications and other risks and opportunities due to climate change, the organization should report:
   - Whether climate change is considered in the organization’s strategy;
   - Scenarios used for outlining risks and opportunities;
   - Assumptions and/or projections used to address stranded asset risks; and
   - How the concept of just transition is considered to prevent or mitigate systemic negative impacts.

When reporting on methods used to manage risks or opportunities, the organization should report:
   - Investments in nature-based solutions to climate mitigation and technologies to remove CO₂, and net captured value of CO₂ removed;
   - Decisions not to invest in new oil and gas developments and project divestments;
   - Investments in exploration of new oil and gas reserves and development of new fields (percentage of total CAPEX)¹³.

3. The organization should also report its business model and lines of business when reporting ACT-I Activities, value chain, and other business relationships in GRI 102: About the Organization, including:

- Oil and gas production volumes for the reporting year and projected volumes for the next five years in percentages by crude oil, natural gas, oil sands, tight oil, and shale gas;
- Energy production from renewable sources by type of energy source and investment into renewable energy as well as projections for the next five years (percentage of total CAPEX and current total revenue); and
- Estimated reserves by resource type and emission potential of these reserves.

¹³ The definition of reserves refers to the one applied in the organization’s consolidated financial statements or equivalent documents.
4. The following resources may help organizations in the oil and gas sector report on this topic:

- Transition Pathway Initiative, Methodology and Indicators Report, 2019.
ENVIRONMENT AND BIODIVERSITY

Air emissions

In addition to GHGs, emissions from oil and gas activities and use constitute significant anthropogenic sources of air pollutants. Globally, these emissions result in severe negative health impacts and millions of deaths annually by contributing to heart and lung diseases, strokes, respiratory infections, and neurological damage. Children, the elderly, and the poor are disproportionately affected, as are communities adjacent to operations.

Air pollution also impacts ecosystems. For example, nitrogen emissions that enter the oceans can alter ocean chemistry, impacting marine life. Sulfur oxides can lead to acid rain and increase ocean acidification. Air pollution can also cause damage to plant life, such as impaired photosynthesis and reduced growth.

Air emissions from oil and gas activities include nitrogen oxides (NO\textsubscript{x}), sulfur oxides (SO\textsubscript{x}), volatile organic compounds (VOC), particulate matter (PM), ozone (O\textsubscript{3}), and other hazardous air pollutants, such as hydrogen sulfide (H\textsubscript{2}S) and benzene (C\textsubscript{6}H\textsubscript{6}). These can occur from venting, flaring, and blowdowns; equipment leaks, evaporation losses, accidents, and equipment failures (in the form of fugitive emissions); waste impoundments and storage; fuel combustion; refining and processing activities; and transportation of supplies and products.

WHAT TO REPORT

If an organization in the oil and gas sector has identified air emissions as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report:

   GRI 305: Emissions 2016
   - Disclosure 305-7 Nitrogen oxides (NO\textsubscript{x}), sulfur oxides (SO\textsubscript{x}), and other significant air emissions

3. The organization can also report the following disclosure:

   GRI 416: Customer Health and Safety 2016
   - Disclosure 416-1 Assessment of the health and safety impacts of product and service categories

   When reporting on the assessment of the health and safety impacts of product and service categories, the organization can also describe efforts to improve product quality to reduce air emissions.

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14 This scope does not include carbon dioxide (CO\textsubscript{2}) and methane (CH\textsubscript{4}), which are to be reported under GHG emissions.
Biodiversity

Oil and gas activities typically require large-scale infrastructure development, which have direct, indirect, and cumulative impacts on biodiversity occurring in the short and long term. Direct impacts can include air, soil, and water contamination, deforestation, soil erosion, and sedimentation of waterways. Other direct impacts involving species include mortality; habitat fragmentation and conversion; and the introduction of invasive species and pathogens.

These impacts can result from land clearance; seismic testing and drilling of exploration wells; construction of facilities, infrastructure, and pipelines; transportation; increased levels of noise and light; generation, use, and disposal of produced water and other effluents; disposal of drilling waste; spills and leaks; gas leakage and methane migration into freshwater; and contamination from tailings ponds.

Oil and gas resources are often located in sensitive ecosystems or areas with high biodiversity value, which can exacerbate the impacts on biodiversity. Threats to biodiversity will increase as easily accessible oil and gas resources are depleted and exploration moves into more remote areas. Unconventionally produced oil and gas, such as shale oil and gas, have a greater environmental footprint than conventional production.

Increased human settlement around operational sites can have indirect impacts, such as opening of routes to previously inaccessible areas and adding stress on areas of high biodiversity value.

Effects on species and ecosystems can also be the result of cumulative impacts. For example, habitat fragmentation caused by a pipeline can be compounded by land use change from agricultural operations. Impacts can also accumulate over time. Due to the scale and long lifespans of oil and gas activities, impacts can occur well beyond a project’s direct activities, including after closure and decommissioning.

Impacts on biodiversity can also generate other effects. Activities related to oil and gas can have impacts on local communities by limiting resource availability, accessibility, or quality. Due to extensive land use required for many projects, the sector’s activities can further contribute to GHG emissions and climate change through land-use change resulting in removal of carbon sinks. Climate change is expected to affect all aspects of biodiversity – including individual organisms, populations, species distribution, and ecosystem composition and function – and the impacts are anticipated to worsen with increasing temperatures.

To limit and manage its negative impacts on biodiversity and ecosystems, the oil and gas sector has been active in developing a mitigation hierarchy tool, which can be used to limit and manage its negative impacts on biodiversity and ecosystems.
WHAT TO REPORT

If an organization in the oil and gas sector has identified biodiversity as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

   When describing the actions taken to manage the topic and related impacts, the organization should describe whether it has implemented the mitigation hierarchy and how local community engagement is incorporated.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report:

   **GRI 304: Biodiversity 2016**

   - Disclosure 304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas

   - Disclosure 304-2 Significant impacts of activities, products, and services on biodiversity

   - Disclosure 304-3 Habitats protected or restored

   - Disclosure 304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations

3. The following resources may help organizations in the oil and gas sector report on this topic:


   - Integrated Biodiversity Assessment Tool (IBAT) Alliance, Integrated Biodiversity Assessment Tool.

   - International Petroleum Industry Environmental Conservation Association (IPIECA), International Association of Oil and Gas Producers (IOGP), Biodiversity and ecosystem services fundamentals, 2016.
**Waste**

Extraction of oil and gas generates various waste streams, often in large quantities, which can contain toxic or noxious substances, including heavy metals. Effective waste management and minimization are critical for protecting local communities and preventing damage to the environment.

Waste impacts from oil and gas can include contamination of surface water, groundwater, and food sources with chemicals or heavy metals. Further effects can be loss of land productivity and erosion.

Certain wastes require particularly robust management due to their type or volume. In remote areas with limited disposal methods, waste impacts can be more severe or slower to manifest.

Wastes are generated throughout oil and gas activities. In traditional oil and gas exploration and production, the largest waste stream derives from drilling, which can consist of rock cuttings and water and drilling muds. These, in turn, can contain salts, metals, hydrocarbons, chemical additives, and naturally occurring radioactive material (NORM). Drilling waste can pose risks to the environment if released in an uncontrolled manner. When disposed of in underground injection wells, drilling waste can cause earthquakes or contamination of groundwater. In the absence of an alternative outlet, drilling fluids might also be discharged into waterways or the ocean.

In oil sands surface mining, the largest waste streams constitute topsoil, overburden, and tailings. The process of separating oil from sand and clay produces tailings, a toxic waste. Some tailings ponds have been found to leach chemicals into the environment, causing health risks for local communities and wildlife, including birds that land on ponds and can drown from oiling.

At the end of an oil and gas exploration or extraction project, decommissioning and closure also yield significant waste, which can have lasting environmental and socioeconomic consequences.

Other typical wastes from oil and gas facilities include chemicals and waste oils, construction waste, office and packaging waste, and medical waste.

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**Use of materials**

The use of materials is increasing globally, requiring better and more efficient management as well as reduction in waste generation. Production of oil and gas largely consists of using water and chemicals for extraction and processing. However, much of the sector’s impacts from the use of materials comes from infrastructure development. Project construction, commissioning, and decommissioning and closure involve substantial use of steel and concrete. The oil and gas sector has opportunities for implementing more efficient use of materials as well as leveraging its significant purchasing power to create demand for more responsibly produced materials.

➔ The use of materials is addressed in *GRI 301: Materials 2016.*
**WHAT TO REPORT**

If an organization in the oil and gas sector has identified waste as a *material topic*, this section helps it determine what to report on this *topic*.

1. The organization is required to report on this topic and how it is managed using *GRI 103: Material Topics*.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   **GRI 306: Waste 2020**
   - Disclosure 306-1 Waste generation and significant waste-related impacts
   - Disclosure 306-2 Management of significant waste-related impacts
   - Disclosure 306-3 Waste generated
   - Disclosure 306-4 Waste diverted from disposal
   - Disclosure 306-5 Waste directed to disposal

   *When reporting on waste generated, diverted from disposal, and directed to disposal, the organization should report the composition of the waste broken down by:*
   - Drilling waste (muds and cuttings);
   - Total amounts of overburden, rock, and sludges; and
   - Tailings waste.

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic by organizations with oil sands mining operations:
   - Volume (m$^3$) and area (m$^2$) of tailings ponds
   - Types of tailings facilities the organization operates

4. The following resources may help organizations in the oil and gas sector report on this topic:
   - United Nations Environment (UN environment), International Council for Mining and Metals (ICMM), *Principles for Responsible Investment (PRI), Global Tailings Standard*.
   - International Association of Oil and Gas Producers (IOGP) *Guidelines for waste management with special focus on areas with limited infrastructure*.
Water and effluents

Oil and gas activities can have impacts on the availability of water resources, which can have consequences for local communities as well as other sectors. The sector’s impacts from water use depend on the quantity of water resources in the local context; where water is scarce, the sector has a greater impact and can increase conflicts between water users.

Water is used in the development, extraction, and processing of oil and gas. The quantity of water required for production varies depending on fuel type and extraction method, geology, and the degree of processing required. Unconventional extraction methods, including hydraulic fracturing and oil sands operations, are particularly water-intensive. The amount of water resources is further impacted by the ability to substitute water, water quality, reservoir characteristics, and recycling infrastructure.

In regions where water is scarce or in high demand for other uses, operations can use alternative sources, such as saline water or recycled wastewater.

Oil and gas activities can also have significant impacts on surface water and groundwater quality. In turn, long-term impacts on ecosystems and biodiversity can spread waterborne diseases, cause problems for human health and development, and impair food-chain productivity. Heavy metals and pollutants can accumulate in groundwater, lakes, and reservoirs; contaminate aquifers with methane; and pollute streams receiving water discharges and downstream communities.

Impacts on water quality can derive from inefficient treatment of water discharges, spills, and leaks. By volume, produced water is the largest wastewater source from the sector. Produced water that is not reinjected into a well or discharged into the ocean might be discarded to land or water or held in retention ponds, potentially causing surface water and groundwater contamination.

Contamination can also occur from spills and injection of drilling fluids into wells and flowback from hydraulic fracturing. Hydraulic fracturing and other forms of well stimulation for extracting oil and tar sands can cause underground contaminants to seep further and pollute groundwater resources. Seepage or failure of an oil sands tailings dam can also have significant impacts on surface and groundwater quality. Oil spills from transportation accidents and ruptured pipelines can similarly have negative impacts on local water resources.

Droughts, floods, and other extreme weather events related to climate change will likely pose further challenges to water availability and quality and exacerbate the impacts of this sector.

WHAT TO REPORT

If an organization in the oil and gas sector has identified water and effluents as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

**GRI 303: Water and Effluents 2018**

- Disclosure 303-1 Interactions with water as a shared resource
- Disclosure 303-2 Management of water discharge-related impacts
- Disclosure 303-3 Water withdrawal
- Disclosure 303-4 Water discharge

When reporting on water discharge, the organization should report the total volume of hydrocarbon discharged within produced water.
3. The following resources may help organizations in the oil and gas sector report on this topic:

Closure and decommissioning

Developing oil and gas fields can impact the surrounding area and cause changes beyond the location or lifespan of a project. Impacts following closure may include soil and water contamination, changes to landforms, disturbance of biodiversity and wildlife, and lasting socioeconomic consequences for local communities.

Closure and decommissioning often requires planning from the early phases of a project’s lifecycle, to consider potential impacts on the economy, environment, and people. Failure to decommission assets and rehabilitate sites soundly can render land unusable for other productive uses, due to the presence of toxic materials or contamination, as well as cause health and safety hazards. Without clearly assigned responsible parties or allocated funds, closed and decommissioned oil and gas fields can also leave behind legacy environmental issues and financial burden for communities and governments.

Over the course of an oil and gas project, communities might come to depend on the sector’s activities for jobs, income, royalties, tax payments, charitable donations, and other benefits. This can lead to negative economic and social impacts after the project ends. For example, insufficient notice of closure or lack of adequate planning for economic revitalization, social protection, and labor transition can hinder the transition of workers and local communities to a post-closure phase and cause retrenchment, economic downturn, and social unrest.

The need to reduce GHG emissions and transition to low-carbon economies increases the likelihood of more frequent closures, which will not, as in the past, be counterbalanced by openings. In areas where employment largely derives from oil and gas activities, social impacts will be significant, requiring collaboration between local and national governments, companies, workers and unions to ensure a just transition.

Closure and decommissioning of oil and gas fields can include removal and final disposal of hazardous materials and chemicals; capping or plugging of abandoned wells; dismantling and discarding structures; remediation of land or water; and restoration of lands to a condition or economic value approximates pre-development state. Closing oil sands operations also involves management of tailings ponds (see also Waste).

Decommissioning offshore structures can be more complex and costly than for onshore operations. International conventions require decommissioning all offshore platforms at the end of field life. Leaving offshore installations intact, after decommissioning, might cause marine pollution from corrosion, ecosystem changes, damage to fishing equipment, and navigational hazards to shipping. However, leaving them intact might be an appropriate solution in cases where rigs have become integral to the benthic community and habitat.15

The closure and decommissioning phase can create significant employment opportunities at the end of an asset lifecycle and involve an influx of additional workers for an extended period of time. The arrival of workers from the surrounding areas or through a fly-in-fly-out approach during this project’s phase can, in turn, exacerbate other pressures on the environment.

15 Benthic communities ‘are biological communities that live in or on the seabed’, as defined by the Australian Environmental Protection Authority (EPA, Environmental Factor Guideline: Benthic Communities and Habitats, 2016, epa.wa.gov.au/sites/default/files/Policies_and_Guidance/Guideline-Benthic-Communities-Habitats-131216_2.pdf).
WHAT TO REPORT

If an organization in the oil and gas sector has identified closure and decommissioning as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   a. GRI 402: Labor/Management Relations 2016
      - Disclosure 402-1 Minimum notice periods regarding operational changes
      When reporting on minimum notice periods regarding operational changes, the organization should describe its worker consultation practices in advance of significant operational changes.

   b. GRI 404: Training and Education 2016
      - Disclosure 404-2 Programs for upgrading employee skills and transition assistance programs
      When reporting on programs for upgrading employee skills and transition assistance programs, the organization should describe labor transition plans in place to help workers manage the transition to post-closure phase of operations (which can include re-deployment, assistance with re-employment, resettlement, and redundancy).

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:

   - A list of the active fields or facilities with decommissioning plans, fields and facilities that have been decommissioned, and those fields and facilities in the process of being decommissioned. The organization can also provide a breakdown of these by onshore and offshore locations.

   - Total amount of financial provisions made by the organization for decommissioning and closure, as well as post-decommissioning and closure monitoring and aftercare for their fields and facilities.

4. The following resources may help organizations in the oil and gas sector report on this topic:


   - International Association of Oil and Gas Producers (IOGP), Decommissioning of offshore concrete gravity-based structures (CGBS) in the OSPAR maritime area/other global regions IOGP Report 484, 2018.
HEALTH AND SAFETY

Asset integrity and process safety

Major incidents in the oil and gas sector can have catastrophic consequences on workers, local communities, and the environment, as well as cause damage to assets and infrastructure. Significant impacts include fatalities, injuries, and health impacts, including toxicological and mental health effects for communities and workers, economic loss, conflict, threats to livelihoods and food safety and security, social disruption, cultural erosion, litigation stress, environmental degradation, and direct species mortality. Events or incidents that cause methane and other GHG emissions, such as well blowouts, pipeline pigging, and refinery releases, further contribute to climate change.

Focus areas associated with asset integrity and process safety in the oil and gas sector commonly involve unplanned or uncontrolled hydrocarbon releases. Distribution of oil and gas in pipelines and by water, road, or rail also come with the risk of spills, which can pollute soil and water as well as harm species and livelihoods (see also Water and Effluents and Biodiversity). Other events or incidents include oil or gas well blowout, explosions, fires, unplanned plant disruption and shutdown, and tailings dam failures from oil sands operations. Gas leaks from oil and gas equipment and distribution systems are also common, yet often insufficiently monitored and regulated.

Besides prevention of events and incidents with sound asset integrity and process safety systems, the consequences of incidents can be minimized through measures ensuring emergency preparedness and response. A highly effective process safety management system can also limit impacts associated with extreme weather events, the frequency and intensity of which will likely increase due to the effects of climate change.

WHAT TO REPORT

If an organization in the oil and gas sector has identified asset integrity and process safety as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
   When describing its policies or commitments for this topic, the organization should describe its emergency preparedness and response programs and plans.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:

   **GRI 306: Effluents and Waste 2016**

   - Disclosure 306-3 Significant spills
   When reporting on significant spills, the organization should report cause of spill and volume of substance recovered.

   **Note:** GRI 306: Effluents and Waste 2016 can continue to be used for reports or other materials only if they are published on or before 31 December 2021.

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:

   - Number of Tier 1 and Tier 2 process safety events per API RP 754 definitions, reported per business activity (e.g., refining, upstream).

4. The following resources may help organizations in the oil and gas sector report on this topic:

International Association of Oil and Gas Producers (IOGP), *Asset Integrity – the Key to Managing Major Incident Risks*, 2018.


Occupational Health and Safety

Some occupations in the oil and gas sector can potentially have significant impacts on workers’ health and safety. Many of the work-related hazards are associated with key processes in exploration and production phases, such as working with heavy machinery and exposure to or handling of explosive, flammable, poisonous, or harmful substances. Despite the sector’s efforts to eliminate work-related hazards and achieve improvements, exposure to these hazards has resulted in higher fatality rates than in many other sectors.

Other hazards to workers’ health and safety can derive from working in confined spaces or isolated locations; long working hours; and the type of physical, often repetitive, labor required by the oil and gas sector. Work-related hazards can vary according to the extraction method. For example, offshore workers can be exposed to more health and safety risks due to, for example, challenging working conditions and remote locations.

The oil and gas sector extensively uses suppliers to perform sometimes significant parts of projects. Suppliers can also have higher accident and fatality rates, which can be the result of suppliers undertaking the most dangerous jobs. They might also not be covered by the oil and gas organization’s occupational health and safety management system, be less familiar with the workplace and the organization’s safety practices or be less committed to those practices.

The following hazards present occupational health and safety risks for the oil and gas sector, with the potential to result in a high-consequence work-related injury or ill health.

Hazards with a potential to result in injury

Transportation incidents are the most common source of fatalities and injuries in the oil and gas sector. These can occur when workers and equipment are transported to and from wells and offshore rigs, sometimes over long distances along dangerous routes.

Fires and explosions are another major hazard, which can originate from dust and flammable gases, such as methane, well gases, and vapors during oil and gas production, transportation, and processing.

Electrical hazards can be associated with high-voltage systems used in exploration and production facilities or equipment.

Incidents categorized as ‘struck-by’, ‘caught-in’, or ‘caught-between’ can involve falling equipment or structures, faulty operation of heavy machinery, or malfunctioning of electrical, hydraulic, or mechanical installations. Workers can also be at risk of falls, slips, and trips, such as when accessing platforms and equipment located high above the ground or water.

Hazards with a potential to result in ill health

Commonly reported chemical hazards include respirable free crystalline silica, which is released during, for example, hydraulic fracturing, and can cause silicosis and lung cancer. Exposure to hydrogen sulfide released by oil and gas wells can lead to incapacitation or death. Workers can also be exposed to harmful or carcinogenic hydrocarbon gases and vapors. Concentration of gases such as methane, carbon monoxide, and nitrogen in confined spaces can create poisonous environments which may lead to asphyxiation.

Physical hazards in the sector include extreme temperatures, causing fatigue and body stress reactions; harmful levels of carcinogenic radiation from industrial processing; harmful levels of machinery noise or vibration causing impaired hearing or musculoskeletal disorders; and ergonomics-related injury risks.
Biological hazards faced by many oil and gas workers include communicable diseases present in the local community or diseases due to poor hygiene and quality of water or food.

Hazards related to work organization and psychosocial well-being due to common employment practices in the sector, such as the use of fly-in-fly-out work organization, can increase risks of fatigue, strain, or stress, and affect physical, psychological, and social health. These hazards include expatriation, rotational work, long shifts, irregular or odd working hours, and solitary or monotonous work. Psychological reactions, such as post-traumatic stress disorder, can also occur when, for example, being involved in a major incident. Finally, gender imbalance can contribute to stress, discrimination, or sexual harassment (see also Diversity and non-discrimination).

**WHAT TO REPORT**

If an organization in the oil and gas sector has identified occupational health and safety as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   **GRI 403: Occupational Health and Safety 2018**
   - Disclosure 403-1 Occupational health and safety management system
   - Disclosure 403-2 Hazard identification, risk assessment, and incident investigation
   - Disclosure 403-3 Occupational health services
   - Disclosure 403-4 Worker participation, consultation, and communication on occupational health and safety
   - Disclosure 403-5 Worker training on occupational health and safety
   - Disclosure 403-6 Promotion of worker health
   - Disclosure 403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships
   - Disclosure 403-8 Workers covered by an occupational health and safety management system
   - Disclosure 403-9 Work-related injuries
   - Disclosure 403-10 Work-related ill health

3. The following resources may help organizations in the oil and gas sector report on this topic:

   - International Association of Oil and Gas Producers (IOGP) – International Petroleum Industry Environmental Conservation Association (IPIECA), *Health management in the oil and gas industry*, 2019.
Employment practices

Employment opportunities generated by the oil and gas sector across the value chain can have positive socioeconomic impacts on communities, countries, and regions. While usually offering well-paid opportunities for skilled workers, employment practices in the sector are associated with a number of negative impacts related to, for example, working conditions, use of contract labor and related disparities in working conditions, shortfalls of labor-management consultations, and job security.

Many oil and gas jobs have complex shift patterns to ensure continuity of operations around the clock, sometimes requiring overtime employment and night shifts, which can cause high fatigue levels and augment risks related to occupational health and safety and process safety. An organization may also use fly-in-fly-out work arrangements, in which workers are flown to the site of operations for a number of weeks at a time and often required to work extended shifts. Irregular work shifts and schedules and time spent away from families can have further psychosocial impacts on workers.

Various oil and gas activities are commonly outsourced to suppliers. This is prevalent during peak periods, such as construction or maintenance works, or for specific activities, such as drilling, catering, transportation, and security. Outsourcing operations and using agency workers could allow organizations in the oil and gas sector to reduce their labor costs by, for example, avoiding legal obligations to employ a worker following a period of employment as a contract worker or by bypassing collective agreements that are in place for workers in direct employment (see also Freedom of association and collective bargaining).

Compared to employees, agency workers commonly have less favorable employment conditions, lower compensation, less training, higher accident rates, and less job security. They often lack social protection and access to grievance mechanisms. Suppliers’ standards for working conditions can also be lower and, as a consequence, expose organizations in the oil and gas sector to human and labor rights violations through their business relationships (see also Forced labor and modern slavery).

Employment terms can also vary significantly when offered to local workers, expatriates (temporary oil and gas workers who are usually brought in by employers), and contract workers. Remuneration might be unequal, and benefits, such as bonuses, housing allowances, and private insurance plans, might only be offered to expatriates. Lack of relevant skills, knowledge, or accessible training programs can restrict the local communities from accessing employment opportunities created by the sector in the first place (see also Economic impacts).

Job security is another concern in this sector. For example, closure and decommissioning phases or oil price drops can occur suddenly, leading to job losses and increasing pressure on remaining workers. Low job security is further compounded by automation and changing operating models, such as when triggered by the transition to low-carbon economies. Without timely skills development measures that aim to improve employability, many workers might end up with an inadequate skill set and face unemployment.

WHAT TO REPORT

If an organization in the oil and gas sector has identified employment practices as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:
   a. **GRI 401: Employment 2016**
      - Disclosure 401-1 New employee hires and employee turnover
      - Disclosure 401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees
      - Disclosure 401-3 Parental leave
   b. **GRI 402: Labor/Management Relations 2016**
      - Disclosure 402-1 Minimum notice periods regarding operational changes
   c. **GRI 404: Training and Education 2016**
      - Disclosure 404-1 Average hours of training per year per employee
      - Disclosure 404-2 Programs for upgrading employee skills and transition assistance programs
   d. **GRI 414: Supplier Social Assessment 2016**
      - Disclosure 414-1 New suppliers that were screened using social criteria
      - Disclosure 414-2 Negative social impacts in the supply chain and actions taken
Diversity and non-discrimination

The oil and gas sector commonly requires skilled workers, which can set a high barrier for entry and hinder employee diversity. The condition, location, and type of work associated with jobs in the sector can be a further impediment to having a diverse workforce. This can result in discrimination, which has been documented in the oil and gas sector in relation to, for example, race, color, sex, gender, religion, national extraction, and worker status. The sector’s widespread use of contract labor, often with differing terms of employment, can also be a source of discrimination.

Discriminatory practices can impede access to jobs and career development, as well as lead to unequal treatment and remuneration. Jobseekers from local communities are sometimes excluded from the hiring process because of a recruitment system bias that favors a dominant ethnic group. Compared to expatriates, local workers might receive significantly lower pay for equal work.

The oil and gas sector is also characterized by a significant gender imbalance. In many countries, the percentage of women working in this sector is significantly lower compared to the overall number of working women. Women are especially underrepresented in senior management. One of the root causes of this imbalance is that fewer women graduate with degrees in disciplines pertinent to the sector, such as science, technology, engineering, and mathematics. In addition, some resource-rich countries have laws that prevent women from working in hazardous or arduous occupations. Social or cultural customs and beliefs can also limit women’s access to jobs in this sector or prevent them from taking on specific roles.

WHAT TO REPORT

If an organization in the oil and gas sector has identified diversity and non-discrimination as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   - **GRI 202: Market Presence 2016**
     - Disclosure 202-1 Ratios of standard entry level wage by gender compared to local minimum wage
   
   - Disclosure 202-2 Proportion of senior management hired from the local community

   - **GRI 405: Diversity and Equal Opportunity 2016**
     - Disclosure 405-1 Diversity of governance bodies and employees
     - Disclosure 405-2 Ratio of basic salary and remuneration of women to men

   - **GRI 406: Non-discrimination 2016**
     - Disclosure 406-1 Incidents of discrimination and corrective actions taken
   
   - **GRI 404: Training and Education 2016**
     - Disclosure 404-1 Average hours of training per year per employee
Forced labor and modern slavery

Organizations in the oil and gas sector interact with a large number of suppliers, including in countries characterized as having low rates of enforcement of labor rights. This can increase the potential of using suppliers that do not adhere to labor rights or relevant codes of conduct, leaving supply chains vulnerable to human rights violations. These include modern slavery, which refers to forced labor and marriage, debt bondage, other slavery-like practices, and human trafficking. The violations most frequently reported in the oil and gas sector are forced labor and situations of exploitation where a person cannot refuse or leave because of coercion, deception, threats, violence, or other abuse of power. Increased attention to modern slavery has prompted a global response to address the issue, with a number of governments issuing legislation for businesses to publicly report on progress toward addressing these impacts.

In addition to impacts through their supply chains, oil and gas organizations can be directly linked to occurrences of modern slavery through joint ventures and other business relationships, including state-owned enterprises in countries where international human rights standards violations occur.

Documented cases show forced labor and modern slavery in oil and gas activities such as shipping, construction, cleaning, catering, onshore transportation, supply base activities, waste management, maintenance, and modifications. Offshore oil and gas workers can be at higher risk of forced labor due to the isolation of extraction sites, making it more challenging to reinforce measures. Higher risk related to shipping is tied to ships being registered in a country other than that of the beneficial owner, obscuring accountability through layers of management and crewing companies.

Migrant workers also face higher risks of modern slavery. For example, third-party employment agencies have been found to overcharge workers for visas and flights or to demand recruitment costs be paid by employees rather than employers.

**Impacts on children’s rights**

Risks of child labor in the oil and gas sector mainly occur through business relationships, including joint ventures and the supply chain, such as during facilities construction or pipeline operations.

Suppliers can operate in countries with working ages below the ILO’s minimum age.

Other impacts on children’s rights and well-being can come from an oil or gas project’s proximity to the local community through, for example, environmental impacts or land use and resettlement.

Parents’ labor conditions, including hours, shift work, and fly-in-fly-out practices, can also have indirect impacts on children (see also [Employment practices](#)).

> Child labor is addressed in [GRI 408: Child Labor 2016](#).

**WHAT TO REPORT**

If an organization in the oil and gas sector has identified forced labor and modern slavery as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using [GRI 103: Material Topics](#).

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   a. [GRI 409: Forced or Compulsory Labor 2016](#)

   - Disclosure 409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor
b. **GRI 4-14: Supplier Social Assessment 2016**

- Disclosure 4-14-1: New suppliers that were screened using social criteria
Freedom of association and collective bargaining

The right to organize and take collective action is critical for the oil and gas sector to enable public debate about the sector’s governance and practices, reduce social inequality, and improve labor standards, including occupational health and safety, working conditions, wages, and job security.

Many professions associated with the sector have traditionally been represented by trade unions and covered by collective bargaining agreements, which are negotiated by national, regional, or global sectoral federations and associations. However, some oil and gas resources are located in countries where these rights are restricted. Workers in such locations face risks when seeking to join trade unions and engage in collective bargaining. Even in countries where unions are legal, restrictions might exist to prevent effective representation, and workers joining unions might face intimidation or unfair treatment.

Documented cases of interference with freedom of association and collective bargaining include detention of managers and employees; invasion of privacy; not adhering to collective agreements; prevention of union access to workplaces so as to assist workers; refusal to bargain in good faith with workers’ chosen unions; unfair dismissal of trade union members and leaders; and unilateral cancellation of collective bargaining agreements.

Contract workers, who are widely used in these sectors, are often excluded from the scope of collective bargaining agreements, which can cause them to have reduced benefits and worse working conditions (see also Employment practices).

Freedom of association and civic space

Freedom of association is a fundamental human right, which comprises the right to freedom of peaceful assembly and association. This entails engaging in free speech about sector policies and organizations’ practices not only for workers and employees, but also through active participation of independent civil society. Restrictions on civic space can limit citizens’ ability to engage in public debate about sector policies and company practices.

WHAT TO REPORT

If an organization in the oil and gas sector has identified freedom of association and collective bargaining as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:

- **GRI 407: Freedom of Association and Collective Bargaining 2016**

  - Disclosure 407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk
Economic impacts

Oil and gas activities can be an important source of investment and income for local communities, countries, and regions. Impacts can vary according to the scale of operations and the importance of the activity in the economic context. For example, in some resource-rich countries, oil and gas development-related investments and operational revenues account for a significant amount of national gross domestic product. However, if not well managed, this can harm economic performance and lead to macroeconomic instability and distortions. Economies dependent on these finite resources can also be vulnerable to commodity price and production fluctuations.

The sector can have positive impacts on communities, countries, and regions through royalty payments, taxes, and wealth creation. Investments by oil and gas organizations in the development of enabling infrastructure, such as public power utilities to improve access to energy or other public services can be beneficial for communities. Oil and gas activities can also stimulate economies and create benefits through local employment. Increased wages for jobs in the oil and gas sector can potentially lead to increased purchasing power and positive impacts on local businesses, local procurement of products and services, and supplier development. Skills development of local communities through education and training can help increase access to jobs in the sector.

The extent to which local communities can benefit from the presence of the oil and gas depends on existing development and industrialization levels as well as the community’s capacity to offer qualified workers for the new employment opportunities or supporting activities related to the project. In addition, the net employment impacts depend on how employment by the sector affects existing employment in other sectors. These impacts can also be affected by an organization’s employment practices. For example, a fly-in fly-out work approach can offset pressures associated with influxes of people in small communities while still supplying the necessary workers (see also Local community impacts). However, this approach reduces the employment opportunities available to local communities, detracting from the potential economic benefits.

The introduction of new oil and gas sector activities can also generate negative impacts on local communities, including competition over jobs and economic disparity, with vulnerable groups often disproportionately negatively affected. The resulting influx of external workers can also increase pressure on housing, infrastructure, and public services. Other economic impacts include environmental legacy costs, related to, for example, contamination, incidents, or lack of proper rehabilitation after closure and decommissioning.

Governments and regions currently face the risk of stranded assets due to stricter climate policies and technological developments driving the transition to low-carbon economies (see also Climate resilience and transition). The transition is expected to lead to decreased sector activity, making communities and countries that depend on the sector’s revenues or employment more vulnerable to resulting economic downturn. In these cases, collaboration between local and national governments and organizations in the oil and gas sector is essential to ensure a just transition.

WHAT TO REPORT

If an organization in the oil and gas sector has identified economic impacts as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.
When describing policies on or commitments to the topic, the organization should describe its approach to providing local employment opportunities.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   a. **GRI 201: Economic Performance 2016**
      - Disclosure 201-1 Direct economic value generated and distributed
        When reporting on direct economic value generated and distributed, the organization should report by country, regional, and project levels.

   b. **GRI 202: Market Presence 2016**
      - Disclosure 202-1 Ratios of standard **entry level wage** by gender compared to local minimum wage
      - Disclosure 202-2 Proportion of senior management hired from the local community

   c. **GRI 203: Indirect Economic Impacts 2016**
      - Disclosure 203-1 Infrastructure investments and services supported
        When reporting on indirect economic impacts, the organization should report the extent to which different communities or local economies are impacted by the organization’s infrastructure investments and services supported.
      - Disclosure 203-2 Significant indirect economic impacts

   d. **GRI 204: Procurement Practices 2016**
      - Disclosure 204-1 Proportion of spending on local suppliers

3. The following resources may help an organization in the oil and gas sector report on this topic:

Local community impacts

Oil and gas activities can result in various social and human rights impacts on local communities. Impacts can occur as a result of, for example, land use requirements for activities or transportation and distribution of products; influx of people seeking employment and economic opportunities; environmental degradation; and use of local resources for sector activities. Types and significance of impacts commonly associated with the oil and gas sector vary according to the characteristics and context of the local community.

Land use requirements can cause displacement and loss of access to land and water, as well as lead to competition over other land uses, such as farming, fishing, or recreational uses (see also Land use and resettlement). This can disrupt traditional livelihoods, increase risks of impoverishment, and restrict access to essential services, such as education and healthcare. The sectors’ activities can also incur damage to cultural heritage sites, potentially leading to loss of culture, tradition, or cultural identity, especially among indigenous peoples.

The arrival of workers from the surrounding areas or through a fly-in-fly-out approach during a project’s construction or expansion phase can result in a range of impacts. A large-scale influx of expatriate workers can put local services and resources under pressure. Local communities can suffer from inflation of housing and food costs, which might lead to an increase in homelessness, especially among vulnerable groups. Inflows of cash associated with in-migration and new employment opportunities might be unevenly distributed, leading to increased inequalities and social disruption through, for example, increased alcohol consumption, gambling, and prostitution.

Further impacts on community health and well-being might come from air, soil, and water pollution related to chemical use, dust from transportation, emissions, increased levels of noise and light, leaks and waste streams, all of which can lead to a reduced standard of living. Expatriate or migrant workers can also introduce new communicable diseases. The influx of predominantly male migrant workers can also change the composition of the local community. This can impact women in particular, as it can lead to a rise in sexual violence and trafficking, as well as sexually transmitted diseases (see also Rights of indigenous peoples). The sector has also been linked to domestic and gender-based violence, both on operational sites and in local communities.16

Safety of local communities can be threatened by potential incidents, such as explosions, fires, mine collapses, spills, tailings dams, and pipelines failures (see also Asset integrity and process safety). Increased traffic to operational sites can pose additional road accident hazards.

Communities can also experience conflicts when faced with impacts that are disproportionally negative in proportion to the benefits gained through oil and gas activities (see also Conflict and security).

Effective local community engagement can mitigate the social impacts of oil and gas activities. If community engagement is flawed or overlooked, community concerns might not be understood or addressed, which can exacerbate existing impacts or create new ones.

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WHAT TO REPORT

If an organization in the oil and gas sector has identified local community impacts as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   **GRI 413: Local Communities 2016**
   
   - When reporting clause 1.1 in GRI 413: Local Communities, the organization should report:
     - the means by which stakeholders are identified and engaged with;
     - which vulnerable groups have been identified;
     - if any collective or individual rights have been identified that are of particular concern for the community;
     - how it engages with stakeholder groups particular to the community;
     - the means by which it addresses risks and impacts or supports independent third parties to engage with stakeholders and address risks and impacts.

   - Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs

   - Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities

   When reporting on operations with significant actual and potential negative impacts on local communities, the organization should report the local community’s exposure to its operations resulting from volume and type of pollution released or the use of hazardous substances that impact the environment and human health.

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:

   - Number and description of significant disputes with local communities and indigenous peoples, including actions taken and outcomes.

4. The following resources may help organizations in the oil and gas sector report on this topic:


   - International Petroleum Industry Environmental Conservation Association (IPIECA), American Petroleum Institute (API), International Association of Oil and Gas Producers (IOGP), *Sustainability reporting guidelines for the oil and gas industry*, 2020.
Land use and resettlement

Oil and gas activities require land for a number of purposes, including operations, access routes, and distribution of products. This can sometimes lead to involuntary resettlement of local communities, which can have widespread impacts on people’s livelihoods, access to resources and services, and human rights. Involuntary resettlement can involve physical displacement (e.g., relocation or shelter loss) and economic displacement (e.g., loss or access to assets).

Impacts from land use vary according to methods of extraction, resource location, processing required, and transportation methods. For example, oil and gas pipelines can have a large footprint due to their geographical reach and large safety buffer zones.

Unclear tenure rules regarding rights to land access, use, and control or lack of proper compensation to affected communities often cause disputes, economic and social tensions, and conflict. Local communities can receive monetary compensation or equivalent land for lost assets. However, determining the value of lost access to the natural environment is complex, as considerations must include income-generating activities, human health, and non-material aspects of quality of life. The amount of compensation might therefore prove unrepresentative of the loss. In some cases, individuals who are customary titleholders to the land might not be compensated at all or might only be compensated for crops but not the land.

Resettlement typically requires more extensive engagement between organizations and local communities. Impacts of resettling communities can be exacerbated by a flawed process or lack of transparency in cases of, for example, poor community consultation or the absence of free, prior, and informed consent (FPIC), specifically for indigenous peoples. Community members resisting resettlement can also face threats and intimidation, as well as violent, repressive, or life-threatening removal from lands by security forces or government agents (see also Conflict and security).

WHAT TO REPORT

If an organization in the oil and gas sector has identified land use and resettlement as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

   When reporting actions taken to manage land use and resettlement and related impacts, the organization should report approaches taken to prevent or mitigate systemic negative impacts.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   GRI 413: Local Communities 2016

   - Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs

     When reporting on operations with local community engagement, impact assessments, and development programs, the organization should report how communities’ reliance on natural resources and ecosystem services is measured and valued.

   - Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities

     When reporting on operations with significant actual and potential negative impacts on local communities, the organization should report locations of operations or facilities where involuntary resettlements took place or are ongoing and how resettled peoples’ livelihoods were affected and restored (e.g., customary rights, economic impacts, access to services, and cultural impacts).
3. The following resources may help organizations in the oil and gas sector report on this topic:


Rights of indigenous peoples

Oil and gas activities can have particularly significant impacts on indigenous peoples. These impacts can be connected to various sociocultural factors, for example, indigenous peoples’ special relationship with land, traditional lifestyles, cultural heritage, and social vulnerability.

The sector’s activities can disrupt indigenous peoples’ cultural, spiritual, and economic ties to their lands or natural environments, compromise their rights and well-being, and cause displacement (see also Land use and resettlement). Availability of and access to water, which is a key concern for indigenous communities, can also be compromised. Considering indigenous peoples’ distinct relationship with and sometimes dependence on nature, the oil and gas sector’s role as a major contributor to climate change exacerbates these impacts.

The sector’s presence in indigenous communities can also impact social cohesion and well-being. The in-migration of workers from other areas might create social tensions and result in discrimination. Other impacts on indigenous peoples’ welfare and safety include risks of prostitution, bonded labor, violence against women, and increased exposure to communicable diseases (see also Local community impacts).17

Indigenous peoples often also have a special legal status in national legislation. Before initiation of development projects that require resettlement or have potential impacts on lands or resources that indigenous peoples use or own, organizations are expected to seek free, prior, and informed consent (FPIC) from indigenous peoples. However, disputes and conflicts between indigenous peoples and organizations in the oil and gas sector regularly occur over land ownership and rights. Indigenous peoples can be customary or legal owners of lands to which organizations in the oil and gas sector are granted use rights by governments. Further, some national governments might not recognize or enforce indigenous land rights or indigenous peoples’ rights to consent. Documented cases show an absence of good faith consultations as well as undue pressure and harassment toward indigenous peoples to accept projects, with opposition to such projects sometimes leading to violence and death.18
Oil and gas development projects can present significant economic opportunities and benefit sharing for indigenous peoples, especially when indigenous peoples are provided the opportunity to control and develop the resources themselves. Indigenous peoples can also benefit from oil and gas activities through employment, training, and community development programs (see also Economic impacts). However, conflicts can arise when benefits to indigenous peoples are or appear to be of less economic value than profits generated by the organization or are insufficient to compensate the negative impacts of the development (see also Conflict and security).

WHAT TO REPORT

If an organization in the oil and gas sector has identified rights of indigenous peoples as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics. When describing actions taken to manage the topic and related impacts, the organization should explain how commitment to manage the topic incorporates the right to free, prior, and informed consent (FPIC) and other rights as set out in the United Nations Declaration on the Rights of Indigenous Peoples and the International Labour Organization Convention 169 'Indigenous and Tribal Peoples'.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   a. **GRI 411: Rights of Indigenous Peoples 2016**
      - Disclosure 411-1 Incidents of violations involving rights of indigenous peoples

   b. **GRI 413: Local Communities 2016**
      - Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs

      When reporting on operations with local community engagement, impact assessments, and development programs, the organization should report:

      o engagement strategies and processes in place aimed to avoid, minimize, mitigate, or compensate negative impacts on indigenous peoples; and

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how it identifies and implements development benefits for indigenous peoples, such as access to jobs, supply opportunities, and benefit-sharing contracts, or an indigenous employment strategy.

- Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities

When reporting on operations with significant actual and potential negative impacts on local communities, the organization should report operations where indigenous peoples are present or affected by its activities.

3. The following resources may help organizations in the oil and gas sector report on this topic:

Conflict and security

Many organizations in the oil and gas sector operate in conflict situations. Pre-existing conflicts are common when, for example, organizations operate in countries characterized by political and social instability. The risk of human rights abuses is also heightened in areas of conflict.

Conflict can be directly linked to the presence of oil and gas activities. These conflicts can be triggered by poor engagement with or exclusion of local communities and indigenous peoples; uneven distribution of economic benefits; excessive negative impacts on the economy, environment, or people; and disputes over use of scarce resources. Conflict can also be triggered by mismanagement of funds for individual gains at the expense of local interests (see also Anti-corruption).

Organizations in the oil and gas sector might use security personnel to protect their assets or ensure their employees’ safety. Security personnel can take action against community members, including when they are protesting projects or protecting their lands. These actions can violate human rights, such as rights to freedom of association and free speech, as well as lead to violence, injuries, or deaths. Security contractors can also be connected to military or paramilitary groups.

Security might also be provided by national police or military forces. In such cases, organizations in the oil and gas sector might be contributing to potential negative human rights impacts through their business relationship with these military and security forces though have limited control over their actions. When oil and gas projects are endorsed by local governments but remain disagreeable to local populations, the use of private military or security forces might increase tensions between companies and local communities, exacerbating a power imbalance.

WHAT TO REPORT

If an organization in the oil and gas sector has identified conflict and security as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

   When reporting how it has identified and prioritized impacts for reporting, the organization should report whether it has fields or facilities in areas of conflict.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:


   - Disclosure 410-1 Security personnel trained in human rights policies or procedures

3. The following resources may help organizations in the oil and gas sector report on this topic:

   - International Association of Oil and Gas Producers (IOGP), Conducting security risk assessments (SRA) in dynamic threat environments, 2016.
   - International Association of Oil and Gas Producers (IOGP), Security management system – Processes and concepts in security management, 2014.
   - International Association of Oil and Gas Producers (IOGP), Integrating security in major projects – principles and guidelines, 2014.
TRANSPARENCY AND GOVERNANCE

Anti-competitive behavior

The significant investments, reliance on high technology, and high risks associated with the oil and gas sector mean that barriers to entry are high. A limited number of multinational corporations continue to dominate the global market for oil and gas. As such, fair competition is essential to enable adequate access to oil and gas resources and to avoid excessive price variations and low quality of products.

Anti-competitive behavior, including violations of anti-trust and monopoly legislation, can affect commodity prices of oil and gas as well as other market conditions. As producers of an essential commodity, organizations in the oil and gas sector can behave in ways that affect other industries using their products.

Anti-competitive behavior can occur throughout the value chain, from license allocations to final sales and marketing. Horizontal agreements between producers, also known as cartels, can affect output volume by restricting supply contracts and imposing penalties that threaten supply security. Bid rigging can inflate prices or reduce the quality of goods or services in a public procurement process, which can be costly for taxpayers and can erode public confidence (see also Anti-corruption).

Organizations in the oil and gas sector can also deliberately limit competitors’ access to transportation networks and shipping lines. Anti-competitive mergers in the oil and gas sector can further diminish direct competition by, for example, creating monopolies over transmission and supply to consumers.

Vertical agreements among organizations and energy distributors can include unfair contractual obligations, which might, for example, restrain distributors from switching to an alternative energy supplier. High presence of vertical integration in the oil and gas sector, in which one organization owns an entire supply chain, also creates risks of discrimination against other market players.

National state-owned oil and gas monopolies and international cartels can get exemptions from anti-trust laws or regulatory regimes. State-owned enterprises control two-thirds of the oil market, thus being able to set prices and control outputs and imports. However, the consequences of anti-competitive practices can be as harmful as private organizations’ restrictions on competition.

WHAT TO REPORT

If an organization in the oil and gas sector has identified anti-competitive behavior as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:
   
   GRI 206: Anti-competitive Behavior 2016
   
   – Disclosure 206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices
Anti-corruption

Organizations in the oil and gas sector often operate in emerging countries characterized by weaker governance and transparency requirements, which exposes the sector to corruption. Corruption in the oil and gas sector has been linked to various negative impacts, such as misallocation of resource revenues and related investments, damage to the environment, abuse of democracy and human rights, and political instability.

Corruption can occur throughout the value chain. Documented cases of corruption include bribery of officials, misappropriation and diversion of public funds, abuse of office, influence peddling, favoritism, extortion, and manipulation of policies and practices for personal and political benefit to the detriment of public interest.

Corruption can lead to diversion of resource revenues from public needs, such as infrastructure or basic services, which can have major impacts, especially in countries with high levels of poverty. This can lead to increased inequalities and conflicts over oil and gas resources (see Conflict and security). Other factors exposing the sector to corruption include the frequent interaction between oil and gas companies and government officials; centralized government ownership and control over natural resources leads to companies dealing with politically exposed persons for licenses and regulation. The sector’s international reach and complex transactions and flows of money can further reduce transparency and enable corruption.

Some organizations in the oil and gas sector have been found to use corrupt practices to:

- influence the decision-making process in order to extract resources; avoid or overlook environmental requirements; shape policies and rules; or influence protection of land rights and land access restrictions affecting livelihoods of local communities and indigenous peoples;
- gain preferential terms or permit approvals;
- gain favorable treatment or confidential information in awarding in the bidding process for exploration and production rights through a bidding process; or for avoiding specific requirements, potentially resulting in awarding licenses or contracts being awarded to less qualified organizations and/or securing contracts at inflated prices;
- influence environmental, social, and other regulations, and the enforcement of these regulations, related to impact assessment processes or consultation with local communities;
- incentivize suppliers of equipment, products, and services to secure contracts by using bribes and kickbacks to, for example, cover up fraud or to get a waiver of regulations or quality requirements for products and services;
- gain favorable treatment in relation to taxes and other government levies, such as royalties and import duties, to deny the state revenue, or to divert payments to private beneficiaries instead;
- block unfavorable legislation, including environmental policies or pollution taxes (see also Public policy and lobbying).

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20 According to the Financial Action Task Force, a politically exposed person is ‘an individual who is or has been entrusted with a prominent public function’; FATF, FATF guidance: Politically exposed persons (recommendations 12 and 22), 2013, fatf-gafi.org/media/fatf/documents/recommendations/Guidance-PEP-Rec12-22.pdf.
Transparency about contracts and ownership structures

Contracts governing the extraction of oil and gas resources are devised by companies and governments on behalf of citizens or local communities, commonly without public oversight. Due to the long-term horizons and various impacts of projects, fair terms for sharing risk and rewards benefits are particularly important. Contract transparency helps local communities hold governments and companies accountable for their negotiated commitments and obligations, as well as helps create a level playing field that enables governments to negotiate for better deals. Contract transparency has been “established as an international norm,” and is endorsed by organizations such as the UN, the International Bar Association, and the OECD.

Lack of transparency about ownership structures can make it difficult to determine who benefits from financial transactions in the sector. Insufficient disclosure about beneficial ownership has been identified as a significant problem, enabling tax evasion and avoidance, money laundering, conflicts of interest, and corruption.

WHAT TO REPORT

If an organization in the oil and gas sector has identified anti-corruption as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:

   GRI 205: Anti-corruption 2016
   - Disclosure 205-1 Operations assessed for risks related to corruption
   - Disclosure 205-2 Communication and training about anti-corruption policies and procedures
   - Disclosure 205-3 Confirmed incidents of corruption and actions taken

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:

   - A description of the company’s policy on contract transparency and a link to publicly available contracts and licenses, in line with EITI Requirement 2.4. If a contract or license is not publicly available, an explanation of the reasons why along with a description of any actions taken by the company to overcome any barriers to publication.
   - A description of the organization’s corporate structure and beneficial owners and a description of how the organization identifies the beneficial owners of business partners, including joint ventures and suppliers, in line with EITI Requirement 2.5. Publicly listed companies should report the stock exchange where they have made filings that include beneficial ownership information and a link to those filings.

4. The following resource may help organizations in the oil and gas sector report on this topic:

Payments to governments

Organizations in the oil and gas sector deal with a large number of complex financial transactions subject to a variety of taxes and other payments to governments. Insufficient transparency about these transactions can impede detection of misuse or misappropriation of funds and corruption; prevent civil society from monitoring the sector’s activities, including infrastructure and other community development spending; and decrease economic stability. Payment transparency can help organizations in the oil and gas sector demonstrate their economic contribution to the host country via taxes and other payments to government, allow informed decision-making and public debate, and help governments strengthen revenue collection and management.

Taxes, royalties, and other payments from organizations in the oil and gas sector represent significant revenues for governments. Tax non-compliance in the form of tax evasion and tax avoidance can direct significant funds away from governments. This can be particularly damaging for developing economies incapable of pursuing enforcement of tax legislation. In addition, organizations in this sector are often liable for taxes in locations distinct from the locations of their operations. When an organization has oil and gas entities across different locations, it can make inter-company payments, moving profits to locations with more advantageous taxation. National tax authorities might lack access to specific information to determine where profits are to be reported.

When disclosing information on payments to governments, organizations in the oil and gas sector often report aggregate payments at a global level. However, aggregated figures provide limited insight into payments made in each country or per project. Reporting country-level or project-level payments enables governments to compare the actual payments made to those stipulated in fiscal, legal, and contractual terms and to assess the financial contribution of oil and gas projects to communities. It can also enable tax authorities to address tax avoidance and evasion by revealing information on transfer pricing arrangements and transactions. This can remove information asymmetry and provide a level playing field for governments when negotiating contracts.

State-owned enterprises

A state-owned enterprise (SOE) is, according to the Extractives Industry Transparency Initiative (EITI), ‘a wholly or majority government-owned company that is engaged in extractive activities on behalf of the government’. SOEs often have special status, which can involve financial advantages and preferential treatment.

SOEs usually sell shares of the produced resource to commodity trading companies. This first sale represents an important revenue stream for countries and can involve a high volume of financial transactions. However, data on these transactions is often scarce or inaccessible. The first trade can be subject to trade mispricing in the form of under-invoicing exports or over-invoicing imports to obtain financial gain. Other risks include selection of buyers and allocation of sales contracts (which can involve bribery and conflicts of interest) and moving income to a state treasury, potentially causing misallocation of revenues or generating public mistrust of revenue management (see also Anti-corruption).

Transparency in the operations and objectives of SOEs is crucial for monitoring their performance and maximizing their economic and social contributions.

* Extractive Industry Transparency Initiative (EITI), Requirement 2.6 State participation, eiti.org/document/eiti-standard-2019#r2-6, accessed 3 July 2020
WHAT TO REPORT

If an organization in the oil and gas sector has identified payments to governments as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosures from the GRI Topic Standards have been identified as appropriate to report on this topic:
   a. GRI 201: Economic Performance 2016
      - Disclosure 201-1 Direct economic value generated and distributed
      - Disclosure 201-4 Financial assistance received from government
   b. GRI 207: Tax 2019
      - Disclosure 207-1 Approach to tax
      - Disclosure 207-2 Tax governance, control, and risk management
      - Disclosure 207-3 Stakeholder engagement and management of concerns related to tax
      - Disclosure 207-4 Country-by-country reporting

3. The following additional disclosures have also been identified as appropriate and should be reported on this topic:
   - Payments to governments broken down by revenue stream and project, in line with the EITI Requirement 4.1 and EITI Requirement 4.7.
   - Volumes and type of oil and gas purchased from the state or third parties appointed by the state to sell on their behalf, the full name of the buying entity, the payments made for the purchase, and the recipient of the payment, in line with the EITI Requirement 4.2 and the EITI guidelines for buying companies.

4. The following additional disclosures have also been identified as appropriate and should be reported on this topic by State-owned enterprises (SOEs):
   - The level of state ownership in the organization and the financial relationship between the government and the SOE, in line with the EITI Requirement 2.6.

5. The following resources may help organizations in the oil and gas sector report on this topic:
Public policy and lobbying

The oil and gas sector can exert significant influence on government policies and is among the sectors with the largest lobbying expenditure. Lobbying by the oil and gas sector can result in significant, long-lasting impacts on the economy, environment, and local communities.

The sector has represented a strong force against ambitious climate policies through lobbying activities by individual organizations and industry bodies. These lobbying activities have often aimed to prevent meaningful carbon pricing, carbon budgets, or other actions to reduce GHG emissions that could leave oil and gas assets or resources stranded. These activities sometimes contradict publicly stated corporate strategies or positions that support policies addressing the climate crisis.

Other lobbying activities by the sector include hindering environmental policies; blocking or amending legislation on environmental and social assessments of projects or fair participation of all stakeholders; overturning restrictions on resource development; acquiring permits for pipelines; and supporting the lowering of corporate taxes and resource royalties.

Due to the large revenues distributed to their host-country governments, organization in the oil and gas sector might be given better access to and representation in meetings with government representatives, leading to undue influence over public policy discussions. Documented cases show how the sector has habitually donated to political parties whose policies favor corporate agendas or in order to gain special access to politicians.

Lobbying can also be used to gain or retain government subsidies, which can result in commodity prices that do not reflect the full environmental costs of products. Subsidies for the oil and gas sector can inhibit sustainable development in numerous ways, including reducing or inefficiently allocating available national resources, increasing dependence on fossil fuels, and discouraging investment in renewable energy and energy efficiency, which impedes the transition to low-carbon economies (see also Climate resilience and transition).

WHAT TO REPORT

If an organization in the oil and gas sector has identified public policy and lobbying as a material topic, this section helps it determine what to report on this topic.

1. The organization is required to report on this topic and how it is managed using GRI 103: Material Topics.

2. The following disclosure from the GRI Topic Standards has been identified as appropriate to report on this topic:

   **GRI 415: Public Policy 2016**

   - When reporting clause 1.1 in GRI 415: Public Policy 2016, the organization should report:
     - **significant issues that are the focus of its participation in public policy development and lobbying; and**
     - **its stance on these issues as well as any differences between lobbying positions and stated policies, goals, or other public positions.**

3. In addition to disclosures listed above, when reporting RBC-7 Membership associations in GRI 102: About the Organization, the organization should also report its memberships or contributions to organizations that participate in public advocacy on climate change.
This glossary includes definitions for terms used in the GRI Sector Standard: Oil and Gas. The organization is required to apply these definitions when using this Sector Standard. Some definitions included in this glossary contain terms that are further defined in the complete GRI Standards Glossary. All defined terms are underlined. If a term is not defined in this glossary or the complete GRI Standards Glossary, definitions that are commonly used and understood apply.

**Proposed additions to the GRI Glossary**

The GRI Standards Division proposes including to the GRI Glossary three new terms that are seen as applicable beyond the Oil and Gas Sector Standard. Comments on these additions are sought in the current public comment period for the draft Sector Standard: Oil and Gas.

**free, prior, and informed consent (FPIC)** right recognized in the United Nations Declaration on the Rights of Indigenous Peoples that allows indigenous peoples to give or withhold consent to a project that may affect them or their territories as well as to negotiate project conditions.

**Note 1:** This definition is based on Food and Agriculture Organization of the United Nations (FAO), Free Prior and Informed Consent Manual, 2016. fao.org/3/a-i6190e.pdf.


**Note 3:** 'Free' implies no coercion, intimidation, or manipulation. ‘Prior’ implies consent sought sufficiently ahead of any activity authorization or commencement, with respect for time requirements of indigenous consultation and consensus processes. ‘Informed’ implies a range of information is provided, including any proposed project’s or activity’s nature, size, pace, reversibility, scope, purpose, duration, locality, and areas affected as well as a preliminary assessment of likely cultural, economic, environmental, and social impacts and the personnel likely entailed in execution and procedures.

**just transition**

framework that encourages sectors and economies to become more environmentally sustainable while ensuring decent work, social inclusion, and poverty eradication. A just transition involves not only phasing out polluting sectors, but also implementing measures to reduce impacts of job and industry loss.

**Note 1:** The Paris Agreement recognizes a just transition as an essential element of climate action.

**Note 2:** This definition is based on the following sources:


**mitigation hierarchy**

sequence of actions providing a best-practice approach for the sustainable management of living natural resources in order to:

- avoid impacts on biodiversity and ecosystem services;
- where avoidance is not possible, minimize;
- when impacts occur, rehabilitate or restore; and
- where significant residual impacts remain, offset.

**Note:** This definition is based on Cross Sector Biodiversity Initiative (CSBI), *A cross sector guide for implementing the Mitigation Hierarchy*, 2015.


**anti-competitive behavior**

action of the organization or employees that can result in collusion with potential competitors, with the purpose of limiting the effects of market competition

**Note:** Examples of anti-competitive behavior actions can include fixing prices, coordinating bids, creating market or output restrictions, imposing geographic quotas, or allocating customers, suppliers, geographic areas, and product lines.

**anti-trust and monopoly practice**

action of the organization that can result in collusion to erect barriers for entry to the sector, or another collusive action that prevents competition

**Note:** Examples of collusive actions can include unfair business practices, abuse of market position, cartels, anti-competitive mergers, and price-fixing.

**area of high biodiversity value**

area not subject to legal protection, but recognized for important biodiversity features by a number of governmental and non-governmental organizations

**Note 1:** Areas of high biodiversity value include habitats that are a priority for conservation, which are often defined in National Biodiversity Strategies and Action Plans prepared under the United Nations (UN) Convention, ‘Convention on Biological Diversity’, 1992.

**Note 2:** Several international conservation organizations have identified particular areas of high biodiversity value.

**baseline**

starting point used for comparisons

**Note:** In the context of energy and emissions reporting, the baseline is the projected energy consumption or emissions in the absence of any reduction activity.

**basic salary**

fixed, minimum amount paid to an employee for performing his or her duties, excluding any additional remuneration, such as payments for overtime working or bonuses
benefit

direct benefit provided in the form of financial contributions, care paid for by the organization, or the reimbursement of expenses borne by the employee

Note: Redundancy payments over and above legal minimums, lay-off pay, extra employment injury benefit, survivors’ benefits, and extra paid holiday entitlements can also be included as a benefit.

business relationships [as proposed in the revised Universal Standards draft]

entity with which the organization has some form of direct and formal engagement for the purpose of meeting its business objectives

Note 1: Examples of business partners can include affiliates, business-to-business customers, clients, first-tier suppliers (such as a supplier that manufactures the organization’s products), franchisees, joint venture partners, and investee companies in which the organization has a shareholding position.

Note 2: Business partners do not include subsidiaries and affiliates that the organization controls.

child

person under the age of 15 years, or under the age of completion of compulsory schooling, whichever is higher

Note 1: Exceptions can occur in certain countries where economies and educational facilities are insufficiently developed and a minimum age of 14 years applies. These countries of exception are specified by the International Labour Organization (ILO) in response to a special application by the country concerned and in consultation with representative organizations of employers and workers.

Note 2: The ILO Minimum Age Convention, 1973 (No. 138), refers to both child labor and young workers.

collective bargaining [as proposed in the revised Universal Standards draft]

negotiations between one or more employers or employers’ organizations and one or more workers’ organizations (trade unions), to determine working conditions and terms of employment or to regulate relations between employers and workers

Note: This definition is based on the International Labour Organization (ILO), Collective Bargaining Convention, 1981 (No. 154).

community development program

plan that details actions to minimize, mitigate, or compensate for adverse social and/or economic impacts, and/or to identify opportunities or actions to enhance positive impacts of a project on the community

conflict of interest

situation where an individual is confronted with choosing between the requirements of his or her function and his or her own private interests

corruption
"abuse of entrusted power for private gain",\textsuperscript{21} which can be instigated by individuals or organizations.

\textbf{Note:} In the GRI Standards, 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 breach of trust in the conduct of the enterprise’s business.\textsuperscript{22} This can include cash or in-kind benefits, such as free goods, gifts, and holidays, or special personal services provided for the purpose of an improper advantage, or that can result in moral pressure to receive such an advantage.

\textbf{direct (Scope 1) GHG emissions}

GHG emissions from sources that are owned or controlled by an organization.

\textbf{Note 1:} A GHG source is any physical unit or process that releases GHG into the atmosphere.

\textbf{Note 2:} Direct (Scope 1) GHG emissions can include the CO\textsubscript{2} emissions from fuel consumption.

\textbf{discrimination}

act and result of treating persons unequally by imposing unequal burdens or denying benefits instead of treating each person fairly on the basis of individual merit.

\textbf{Note:} Discrimination can also include harassment, defined as a course of comments or actions that are unwelcome, or should reasonably be known to be unwelcome, to the person toward whom they are addressed.

\textbf{effluent}

treated or untreated wastewater that is discharged.

\textbf{Note:} This definition is based on the Alliance for Water Stewardship (AWS), AWS International Water Stewardship Standard, Version 1.0, 2014.

\textbf{employee}

individual who is in an employment relationship with the organization, according to national law or its application.

\textbf{employee turnover}

employees who leave the organization voluntarily or due to dismissal, retirement, or death in service.

\textbf{entry level wage}

full-time wage in the lowest employment category.

\textbf{Note:} Intern or apprentice wages are not considered entry level wages.

\textbf{exposure}

\textsuperscript{21} Transparency International

\textsuperscript{22} These definitions are based on Transparency International, 'Business Principles for Countering Bribery', 2011.
quantity of time spent at or the nature of contact with certain environments that possess various
degrees and kinds of hazard, or proximity to a condition that might cause injury or ill health (e.g.,
chemicals, radiation, high pressure, noise, fire, explosives)

financial assistance

direct or indirect financial benefits that do not represent a transaction of goods and services, but
which are an incentive or compensation for actions taken, the cost of an asset, or expenses incurred

Note: The provider of financial assistance does not expect a direct financial return from the
assistance offered.

forced or compulsory labor

all work and service that is exacted from any person under the menace of any penalty and for which
the said person has not offered herself or himself voluntarily

Note 1: The most extreme examples of forced or compulsory labor are slave labor and bonded
labor, but debts can also be used as a means of maintaining workers in a state of forced labor.

Note 2: Indicators of forced labor include withholding identity papers, requiring compulsory deposits,
and compelling workers, under threat of firing, to work extra hours to which they have not previously
agreed.

Note 3: This definition is based on International Labour Organization (ILO) Convention 29, ‘Forced

freedom of association

right of employers and workers to form, to join and to run their own organizations without prior
authorization or interference by the state or any other entity

freshwater

water with concentration of total dissolved solids equal to or below 1,000 mg/L

Note: This definition is based on ISO 14046:2014; the United States Geological Survey (USGS),
Water Science Glossary of Terms, water.usgs.gov/edu/dictionary.html, accessed on 1 June 2018; and

global warming potential (GWP)

value describing the radiative forcing impact of one unit of a given GHG relative to one unit of CO2
over a given period of time

Note: GWP values convert GHG emissions data for non-CO2 gases into units of CO2 equivalent.

greenhouse gas (GHG)

gas that contributes to the greenhouse effect by absorbing infrared radiation

grievance mechanism [as proposed in the revised Universal Standards draft]

routinized process through which grievances can be raised and remedy can be sought

Note 1: Grievance mechanisms include routinized, State-based or non-State-based, judicial or non-
judicial processes. They also include operational-level grievance mechanisms, which are administered
by the organization either alone or in collaboration with other parties, and which are directly
accessible by the organization’s stakeholders.

Note 2: According to UN Guiding Principle 31, effective grievance mechanisms are legitimate,
accessible, predictable, equitable, transparent, rights-compatible, and a source of continuous learning.
In addition to these criteria, effective operational-level grievance mechanisms are also based on engagement and dialogue.


groundwater

water that is being held in, and that can be recovered from, an underground formation

Note: This definition comes from ISO 14046:2014.

high-consequence work-related injury

work-related injury that results in a fatality or in an injury from which the worker cannot, does not, or is not expected to recover fully to pre-injury health status within 6 months

impact [as proposed in the revised Universal Standards draft]

In the GRI Standards, unless otherwise stated, ‘impact’ refers to the effect the organization has on the economy, environment, and/or people, including on human rights, which in turn can indicate the organization’s contribution (negative or positive) to sustainable development.

Note: In the GRI Standards, the term ‘impact’ can refer to:

• actual impacts (those that have already occurred) or potential impacts (those that could occur but have not yet occurred);
• negative impacts or positive impacts;
• short-term impacts or long-term impacts;
• intended impacts or unintended impacts;
• reversible impacts or irreversible impacts.

See ‘impact’ in Section 2 of GRI 101: Using the GRI Standards.

indigenous peoples

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.

Note: This definition comes from the International Labour Organization (ILO), Indigenous and Tribal 3004 Peoples Convention, 1989 (No. 169).

infrastructure

facilities built primarily to provide a public service or good rather than a commercial purpose, and from which an organization does not seek to gain direct economic benefit

Note: Examples of facilities can include water supply facilities, roads, schools, and hospitals, among others.

local community [as proposed in the revised Universal Standards draft]
individuals or groups of individuals living and/or working in areas that are, or could be, affected by the organization’s activities and decisions

**Note:** The local community can range from individuals living adjacent to the organization’s operations to those living at a distance who are still likely to be affected by these operations.

**local minimum wage**

minimum compensation for employment per hour, or other unit of time, allowed under law

**Note:** Some countries have numerous minimum wages, such as by state or province or by employment category.

**local supplier**

organization or person that provides a product or service to the reporting organization, and that is based in the same geographic market as the reporting organization (that is, no transnational payments are made to a local supplier)

**Note:** The geographic definition of ‘local’ can include the community surrounding operations, a region within a country or a country.

**material topic** [as proposed in the revised Universal Standards draft]

topic that reflects the organization’s most significant impacts on the economy, environment, and people, including impacts on human rights

**Note:** See Section 2 of GRI 101: Using the GRI Standards and Section 2 of GRI 103: Material Topics for more information.

**mitigation** [as proposed in the revised Universal Standards draft]

action(s) taken to reduce the extent of a negative impact

**Note 1:** The mitigation of an actual negative impact refers to actions taken to reduce the extent of the negative impact that has occurred, with any residual impact needing remediation. The mitigation of a potential negative impact refers to actions taken to reduce the likelihood of the negative impact occurring.

**Note 2:** This definition is based on the United Nations (UN), The Corporate Responsibility to Respect Human Rights: An Interpretive Guide, 2012.

**occupational health and safety management system**

set of interrelated or interacting elements to establish an occupational health and safety policy and objectives, and to achieve those objectives

**Note:** This definition comes from the International Labour Organization (ILO), Guidelines on Occupational Safety and Health Management Systems, ILO-OSH 2001, 2001.

**occupational health and safety risk**

combination of the likelihood of occurrence of a work-related hazardous situation or exposure and the severity of injury or ill health that can be caused by the situation or exposure

**Note:** This definition is based on ISO 45001:2018.

**occupational health services**

services entrusted with essentially preventive functions, and responsible for advising the employer, the workers, and their representatives in the undertaking, on the requirements for establishing and maintaining a safe and healthy work environment, which will facilitate optimal physical and mental
health in relation to work and the adaptation of work to the capabilities of workers in the light of their state of physical and mental health

**Note 1:** Functions of occupational health services include:

- surveillance of factors in the work environment, including any sanitary installations, canteens, and housing provided to workers, or in work practices, which might affect workers’ health;
- surveillance of workers’ health in relation to work;
- advice on occupational health, safety, and hygiene;
- advice on ergonomics and on individual and collective protective equipment;
- promotion of the adaptation of work to the worker;
- organization of first aid and emergency treatment.

**Note 2:** This definition comes from the International Labour Organization (ILO) Convention 161, ‘Occupational Health Services Convention’, 1985.

**Operation with significant actual or potential negative impacts on local communities**

An operation, considered alone or in combination with the characteristics of local communities, that has a higher than average potential of negative impacts, or actual negative impacts, on the social, economic or environmental well-being of local communities

**Note:** Examples of negative impacts on local communities can include impacts to local community health and safety.

**Other indirect (Scope 3) GHG emissions**

Indirect GHG emissions not included in energy indirect (Scope 2) GHG emissions that occur outside of the organization, including both upstream and downstream emissions

**Parental leave**

Leave granted to men and women employees on the grounds of the birth of a child

**Political contribution**

Financial or in-kind support given directly or indirectly to political parties, their elected representatives, or persons seeking political office

**Note 1:** Financial contributions can include donations, loans, sponsorships, retainers, or the purchase of tickets for fundraising events.

**Note 2:** In-kind contributions can include advertising, use of facilities, design and printing, donation of equipment, or the provision of board membership, employment, or consultancy work for elected politicians or candidates for office.

**Produced water**

Water that enters an organization’s boundary as a result of extraction (e.g., crude oil), processing (e.g., sugar cane crushing), or use of any raw material, and has to consequently be managed by the organization

**Note:** This definition is based on CDP, CDP Water Security Reporting Guidance, 2018.

**Product**

Article or substance that is offered for sale or is part of a service delivered by the organization

**Protected area**

Geographic area that is designated, regulated, or managed to achieve specific conservation objectives
reduction of greenhouse gas (GHG) emissions

decrease in GHG emissions or increase in removal or storage of GHG from the atmosphere, relative to baseline emissions

Note: Primary effects will result in GHG reductions, as will some secondary effects. An initiative’s total GHG reductions are quantified as the sum of its associated primary effect(s) and any significant secondary effects (which may involve decreases or countervailing increases in GHG emissions).

remediation [as proposed in the revised Universal Standards draft]

provision of remedy

Note: This definition is based on the United Nations (UN), The Corporate Responsibility to Respect Human Rights: An Interpretive Guide, 2012.

remedy [as proposed in the revised Universal Standards draft]

means to counteract or make good a negative impact

Note 1: Remedy can take a range of forms, such as apologies, restitution, restoration, rehabilitation, financial or non-financial compensation, and punitive sanctions (whether criminal or administrative, such as fines), as well as the prevention of harm through, for example, injunctions or guarantees of non-repetition.


remuneration

basic salary plus additional amounts paid to a worker

Note: Examples of additional amounts paid to a worker can include those based on years of service, bonuses including cash and equity such as stocks and shares, benefit payments, overtime, time owed, and any additional allowances, such as transportation, living and childcare allowances.

renewable energy source

energy source that is capable of being replenished in a short time through ecological cycles or agricultural processes

Note: Renewable energy sources can include geothermal, wind, solar, hydro, and biomass.

seawater

water in a sea or in an ocean

Note: This definition comes from ISO 14046:2014.

sector [as proposed in the revised Universal Standards draft]

subdivision of an economy, society, or sphere of activity, defined on the basis of some common characteristic such as similar or related products or services

Note: Sector types can include classifications such as the public or private sector, as well as industry-specific categories such as the education, technology, or financial sectors.

security personnel

individuals employed for the purposes of guarding property of the organization; crowd control; loss prevention; and escorting persons, goods, and valuables
service: action of the organization to meet a demand or need

services supported: services that provide a public benefit either through direct payment of operating costs or through staffing the facility or service with an organization’s own employees.

Note: Public benefit can also include public services.

significant air emission: air emission regulated under international conventions and/or national laws or regulations.

Note: Significant air emissions include those listed on environmental permits for an organization’s operations.

significant operational change: alteration to the organization’s pattern of operations that can potentially have significant positive or negative impacts on workers performing the organization’s activities.

Note: Significant operational change can include restructuring, outsourcing of operations, closures, expansions, new openings, takeovers, sale of all or part of the organization, or mergers.

significant spill: spill that is included in the organization’s financial statements, for example due to resulting liabilities, or is recorded as a spill by the organization.

spill: accidental release of a hazardous substance that can affect human health, land, vegetation, water bodies, and ground water.

stakeholder [as proposed in the revised Universal Standards draft]: individual or group that has an interest that is, or could be, affected by the organization’s activities and decisions.

Note 1: Common categories of stakeholders for organizations include business partners, civil society organizations, consumers, customers, employees and other workers, governments, local communities, non-governmental organizations, shareholders, suppliers, trade unions, and vulnerable groups. See ‘stakeholder’ in Section 2 of GRI 101: Using the GRI Standards.

Note 2: This definition is based on the Organisation for Economic Co-operation and Development (OECD), OECD Due Diligence Guidance for Responsible Business Conduct, 2018.

supplier [as proposed in the revised Universal Standards draft]: entity in the organization’s supply chain, which provides a product or service that contributes to the organization’s own products or services.

Note 1: Examples of suppliers include brokers, consultants, contractors, distributors, franchisees, home workers, independent contractors, licensees, manufacturers, primary producers, sub-contractors, and wholesalers.

Note 2: A supplier can have a direct business relationship with the organization (often referred to as first-tier supplier) or an indirect business relationship.

supply chain [as proposed in the revised Universal Standards draft]

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GRI Sector Standard: Oil and Gas

Page 66 of 87
range of activities carried out by entities upstream in the organization’s value chain, which provide products or services that contribute to the organization’s own products or services.

surface water

water that occurs naturally on the Earth’s surface in ice sheets, ice caps, glaciers, icebergs, bogs, ponds, lakes, rivers, and streams.

Note: This definition is based on CDP, CDP Water Security Reporting Guidance, 2018.

sustainable development/sustainability [as proposed in the revised Universal Standards draft]

development that meets the needs of the present without compromising the ability of future generations to meet their own needs.

Note 1: Sustainable development encompasses broader economic, environmental, and societal interests, rather than the individual interests of organizations.

Note 2: In the GRI Standards, the terms ‘sustainability’ and ‘sustainable development’ are used interchangeably.

Note 3: This definition comes from the World Commission on Environment and Development, Our Common Future, 1987.

value chain [as proposed in the revised Universal Standards draft]

range of activities carried out by the organization and other entities, which convert input into output by adding value throughout the life cycle of a product or service from conception to end use.

Note: The value chain includes the organization’s own activities, as well as activities carried out by entities upstream and downstream from the organization in relation to the organization’s products and services. The upstream entities (e.g., suppliers) provide products or services that contribute to the organization’s own products or services. The downstream entities (e.g., distributors, customers) receive products or services from the organization.

vulnerable group [as proposed in the revised Universal Standards draft]

group of individuals with some specific economic, physical, political, or social condition or characteristic that could experience negative impacts as a result of the organization’s activities and decisions more severely than others.

Note 1: Vulnerable groups can include children and youth, elderly persons, ethnic minorities, ex-combatants, HIV/AIDS-affected households, indigenous peoples, internally displaced persons, people with disabilities, and refugees or returning refugees.

Note 2: Vulnerabilities and impacts can differ by gender.

water consumption

sum of all water that has been withdrawn and incorporated into products, used in the production of crops or generated as waste, has evaporated, transpired, or been consumed by humans or livestock, or is polluted to the point of being unusable by other users, and is therefore not released back to surface water, groundwater, seawater, or a third party over the course of the reporting period.

Note 1: Water consumption includes water that has been stored during the reporting period for use or discharge in a subsequent reporting period.

Note 2: This definition is based on CDP, CDP Water Security Reporting Guidance, 2018.

water discharge
sum of effluents, used water, and unused water released to surface water, groundwater, seawater, or a third party, for which the organization has no further use, over the course of the reporting period.

**Note 1:** Water can be released into the receiving waterbody either at a defined discharge point (pointsource discharge) or dispersed over land in an undefined manner (non-point-source discharge).

**Note 2:** Water discharge can be authorized (in accordance with discharge consent) or unauthorized (if discharge consent is exceeded).

**water stress**

ability, or lack thereof, to meet the human and ecological demand for water.

**Note 1:** Water stress can refer to the availability, quality, or accessibility of water.

**Note 2:** Water stress is based on subjective elements and is assessed differently depending on societal values, such as the suitability of water for drinking or the requirements to be afforded to ecosystems.

**Note 3:** Water stress in an area may be measured at catchment level at a minimum.

**Note 4:** This definition comes from the CEO Water Mandate, Corporate Water Disclosure Guidelines, 2014.

**water withdrawal**

sum of all water drawn from surface water, groundwater, seawater, or a third party for any use over the course of the reporting period.

**worker** [as proposed in the revised Universal Standards draft]

person that performs work

**Note 1:** Workers include, but are not limited to, employees. Further examples of workers include interns, apprentices, self-employed persons, and persons working for organizations other than the reporting organization (e.g., for suppliers).

**Note 2:** In the context of the GRI Standards, in some cases it is specified whether a particular subset of workers is to be used.

**worker consultation**

seeking of workers’ views before making a decision

**Note 1:** Worker consultation might be carried out through workers’ representatives.

**Note 2:** Consultation is a formal process, whereby management takes the views of workers into account when making a decision. Therefore, consultation needs to take place before the decision is made. It is essential to provide timely information to workers or their representatives in order for them to provide meaningful and effective input before decisions are made. Genuine consultation involves dialogue.

**Note 3:** Worker participation and consultation are two distinct terms with specific meanings. See definition of ‘worker participation’.

**worker participation**

workers’ involvement in decision-making

**Note 1:** Worker participation might be carried out through workers’ representatives.
Note 2: Worker participation and consultation are two distinct terms with specific meanings. See definition of 'worker consultation'.

**work-related hazard**

Source or situation with the potential to cause injury or ill health

Note 1: Hazards can be:
- physical (e.g., radiation, temperature extremes, constant loud noise, spills on floors or tripping hazards, unguarded machinery, faulty electrical equipment);
- ergonomic (e.g., improperly adjusted workstations and chairs, awkward movements, vibration);
- chemical (e.g., exposure to solvents, carbon monoxide, flammable materials, or pesticides);
- biological (e.g., exposure to blood and bodily fluids, fungi, bacteria, viruses, or insect bites);
- psychosocial (e.g., verbal abuse, harassment, bullying);
- related to work-organization (e.g., excessive workload demands, shift work, long hours, night work, workplace violence).

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Forced labor and modern slavery


Diversity and non-discrimination


Local community impacts


**Freedom of association and collective bargaining**


**Economic impacts**


**Local community impacts**


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