

e.

# GRI Sector Standards Project for Coal – Exposure draft

## Comments to be received by 30 July 2021

### Background

Sustainability reporting using the GRI Standards enables an organization to publicly disclose its most significant impacts and how it manages these impacts. However, reporting by individual organizations has been inconsistent in addressing a sector's key challenges and impacts.

The GRI Sector Program is developing Standards that are specific to certain sectors. The GRI Sector Standards will identify and describe one or more sectors' most significant impacts from a sustainable development perspective. They are intended to focus sustainability reporting on the impacts that matter most, as well as reflect stakeholder expectations for a sector's sustainability reporting. Developing a Sector Standard for coal is one of the pilot projects in the Sector Program. More information can be found on the program webpage.

#### Public comment for Coal

This GRI Coal Sector Standard exposure draft is published for public comment by the Global Sustainability Standards Board (GSSB), the independent standard-setting body of GRI.

Any interested party can submit comments on this draft **by 30 July 2021** via this online questionnaire. As required by the GSSB Due Process Protocol, only comments submitted in writing and in English will be considered. Comments will be published on the GRI website and considered a matter of public record. Instructions to submit comments are outlined on the first page of the online questionnaire.

An explanatory memorandum preceding the exposure draft summarizes the objectives of the project and the significant proposals contained within this exposure draft.

This draft is published for comment only and may change before official publication.

#### **GRI Universal Standards**

The GRI Sector Standards have been developed in conjunction with the review of the GRI Universal Standards. All references to the Universal Standards in this exposure draft refer to the revised Universal Standards submitted to the GSSB, considered for approval on 10 June 2021. The draft Universal Standards are subject to the approval of the GSSB and may change before official publication.

For questions regarding the exposure draft or the public comment period, please send an email to sector@globalreporting.org.

# **Explanatory memorandum**

This explanatory memorandum sets out the objectives of GRI Sector Standards Project for Oil, Gas, and Coal. It also includes the significant proposals resulting from this project and summarizes the Global Sustainability Standards Board (GSSB)'s involvement and views on development of the draft.

## **Objectives for the project**

The exposure draft for coal is the second Standard being developed under the GRI Sector Standards Project for Oil, Gas, and Coal. This is a pilot project for the GRI Sector Program.

The project aims to identify and describe the sectors' significant impacts and stakeholder expectations from a sustainable development perspective, and provide evidence and authoritative references for these. This will serve as a foundation for increased transparency and more consistent reporting from organizations in the sectors.

The project was initiated in 2019 to develop a Sector Standard for oil, gas and coal. As outlined in the GSSB's <u>Due Process Protocol</u>, a multi-stakeholder working group was established to contribute in the development of the Sector Standard.

During the course of the project, the GSSB received stakeholder submissions from the oil and gas sector raising concerns about addressing oil, gas, and coal in a combined Sector Standard, indicating a potential impediment to its uptake. These concerns were echoed by the Oil, Gas, and Coal Working Group, and the GSSB decided in April 2020 to separate coal from the oil and gas contents. As a consequence, this exposure draft focuses on the coal sector only.

For more information on the project, consult the project proposal and terms of reference.

The GRI Universal Standards have simultaneously been <u>under revision</u>. The implementation model of the Sector Standards will be incorporated into these revised Universal Standards. The final Universal Standards are expected to be approved in Q2 2021. For the purposes of this exposure draft, draft versions of the Universal Standards are used.

## Significant proposals

An exposure draft for coal has been developed in line with the project objectives set out above. Notable inclusions in this exposure draft are summarized below:

- **22 topics were identified to be likely material** for organizations in the coal sector (see Table 1). For each likely material topic, the sector's most significant impacts are described and disclosures to report information about the organization's impacts and approach in relation to the topic are listed. All topics list one or more disclosures from the GRI Topic Standards; six topics list additional sector disclosures in addition to Topic Standards disclosures; and 15 topics list additional sector recommendations to supplement Topic Standards disclosures.
- **The Standard emphasizes topics related to climate change**, notably *GHG emissions* and *Climate adaptation and resilience*. Robust disclosure on these topics, specifically related to governance, target setting, and organizations' strategic decision-making related to the low-carbon transition, have been identified as essential for the coal sector. Additional reporting recommendations and disclosures draw from relevant climate reporting frameworks, such as the TCFD Recommendations of the Task Force on Climate-related Financial Disclosures.
- New tailings disclosures are listed in the topic Asset integrity and critical incident management for reporting on integrity of tailings facilities. These disclosures have been developed in line with the *Global Industry Standard for Tailings Management*, launched in 2020 by the International Council on Mining & Metals, United Nations Environment Programme and Principles for Responsible Investment.



- Additional disclosures are also listed related to topics that deal with **payment transparency and prevention of corruption**, with additional sector disclosures based on the Extractive Industries Transparency Initiative *EITI Standard 2019*.
- Sector Profile section further outlines the sector's activities, business relationships, and its interactions with the global sustainable development agenda, including linkages to the UN Sustainable Development Goals. A mapping between the likely material topics and the relevant SDGs is included as part of the larger context in the section *1.2 The sectors and sustainable development*, providing a starting point for organizations that seek to integrate the SDGs into their reporting.

Table 1: Likely material topics included in the draft Sector Standard: Coal			
Likely material topic	Disclosures from GRI Topic Standards included for reporting on the topic	Whether additional sector recommendations or disclosures are listed for the topic	
1. GHG emissions	GRI 302: Energy 2016 GRI 305: Emissions 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 305-1 Direct (Scope 1) GHG emissions</li> </ul>	
2. Climate adaptation and resilience	GRI 201: Economic Performance 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 201-2 Financial implications and other risks and opportunities due to climate change</li> <li>+ Additional sector disclosures</li> </ul>	
3. Closure and rehabilitation	<i>GRI 402: Labor/Management Relations 2016</i> <i>GRI 404: Training and</i> <i>Education 2016</i>	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure 402-1 Minimum notice periods regarding operational changes</li> <li>Disclosure 404-2 Programs for upgrading employee skills and transition assistance programs</li> <li>+ Additional sector disclosures</li> </ul>	
4. Air emissions	GRI 305: Emissions 2016 GRI 416: Customer Health and Safety 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure 305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions</li> <li>Disclosure 416-1 Assessment of the health and safety impacts of product and service categories</li> </ul>	
5. Biodiversity	GRI 304: Biodiversity 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 304-3 Habitats protected or restored</li> </ul>	

Table 1: Likely material topics included in the draft Sector Standard: Coal



	1	1
6. Waste	GRI 306: Waste 2020	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure 306-3 Waste generated</li> <li>Disclosure 306-4 Waste diverted from disposal</li> <li>Disclosure 306-5 Waste directed to disposal</li> </ul>
7. Water and effluents	GRI 303: Water and Effluents 2018	Additional sector recommendations included for Disclosure 303-2 Management of water discharge-related impacts
8. Economic impacts	GRI 201: Economic Performance 2016 GRI 202: Market Presence 2016 GRI 203: Indirect Economic Impacts 2016 GRI 204: Procurement Practices 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 201-1 Direct economic value generated and distributed</li> </ul>
9. Local communities	GRI 413: Local Communities 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities</li> <li>+ Additional sector disclosures</li> </ul>
10. Land and resource rights	GRI 413: Local Communities 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities</li> </ul>
11. Rights of indigenous peoples	GRI 411: Rights of Indigenous People 2016 GRI 413: Local Communities 2016	<ul> <li>Additional sector recommendations included for:</li> <li>Disclosure MT-3 Management of material topics</li> <li>Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs</li> <li>Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities</li> </ul>
12. Conflict and security	<i>GRI 410: Security Practices</i> 2016	Additional sector recommendations included for Disclosure MT-3 Management of material topics

GSSB

13. Asset integrity and critical incident management	<i>GRI 306: Effluents and waste 2016</i>	Additional sector recommendations included for Disclosure MT-3 Management of material topics + Additional sector disclosures
14. Occupational health and safety	GRI 403: Occupational Health and Safety 2018	-
15. Employment	GRI 401: Employment 2016	-
practices	GRI 402: Labor/Management Relations 2016	×.
	GRI 402: Labor/Management Relations 2016	Cer.
	GRI 414: Supplier Social Assessment 2016	
16. Child labor	GRI 408: Child Labor 2016	0
17. Forced labor and modern slavery	GRI 409: Forced or Compulsory Labor 2016	-
18. Non-discrimination and equal opportunity	GRI 202: Market Presence 2016	
	GRI 401: Employment 2016	
	GRI 404: Training and Education 2016	
	GRI 405: Diversity and Equal Opportunity 2016	
	GRI 406: Non-discrimination 2016	
19. Freedom of	GRI 407: Freedom of	-
association and collective bargaining	Association and Collective Bargaining 2016	
20. Anti-corruption	GRI 205: Anti-corruption 2016	+ Additional sector disclosures
23. Payments to governments	GRI 201: Economic Performance 2016	Additional sector recommendations included for Disclosure 201-4 Financial assistance received from government
12	GRI 207: Tax 2019	+ Additional sector disclosures
22. Public policy and lobbying	GRI 415: Public Policy 2016	Additional sector recommendations included for Disclosure MT-3 Management of material topics



### Relationship to draft Sector Standard: Oil and Gas

Draft Sector Standards for oil and gas, and coal were developed in conjunction until April 2020, with the intention of forming a single Standard. Following a recommendation from the working group, these contents were separated.

There are two notable changes in the likely material topics for the coal sector compared to oil and gas - the inclusion of child labor as a likely material topic, and the exclusion of anti-competitive behavior. The exposure draft for coal also has an additional focus on tailings management, which is not relevant for oil and gas organizations outside of oil sands mining.

### GSSB involvement and views on the development of this draft

The GSSB appointed a subcommittee of three GSSB members for the Sector Program. The subcommittee was consulted on key conceptual issues on a regular basis.

The first (rough) draft of the Sector Standard for oil, gas, and coal – prior to the separation of the contents – was discussed by the GSSB during a virtual meeting on 26 March 2020, and the scope of the project was discussed on 23 April 2020.

The GSSB confirmed its support for content of the exposure draft for coal when it voted to approve the draft for public exposure at its meeting on 29 April 2021. The recording of the meetings can be accessed on the GSSB website.

# **Superseded publications**

The GRI Sector Standard: Coal will be relevant for coal organizations previously using the G4 Mining and Metals Sector Disclosures. The content of these Sector Disclosures was not updated as part of the transition from the G4 Guidelines to the GRI Standards.

# **GRI Coal Sector Standard exposure draft**

# Contents

ntroduction	3
Sectors this Standard applies to	3
1. Sector profile	8
1.1 Sector activities and business relationships	8
1.2 The sector and sustainable development	9
Sustainable Development Goals	10
2. Likely material topics	
2.1 Climate adaptation and resilience	13
2.2 GHG emissions	16
2.3 Closure and rehabilitation	19
2.4 Air emissions	21
2.5 Biodiversity	
2.6 Waste	25
2.7 Water and effluents	27
2.8 Economic impacts	29
2.9 Local communities	31
2.10 Land and resource rights	33
2.10 Earlie and resource rights	35
2.12 Conflict and security	37
2.13 Asset integrity and critical incident management	39
2.14 Occupational health and safety	
2.15 Employment practices	43
2.16 Child labor	45
2.17 Forced labor and modern slavery	47
2.18 Non-discrimination and equal opportunity	49
2.19 Freedom of association and collective bargaining	51
2.20 Anti-corruption	53
2.21 Payments to governments	55
2.22 Public policy and lobbying	58
Glossary	60
Bibliography	71



# Introduction

2 GRI Sector Standard: Coal provides information for organizations in the coal sector about their most

likely <u>material topics</u>. These topics have been identified as likely material for organizations in the coal
 sector on the basis of the sector's most significant <u>impacts</u> on the economy, environment, and people,
 including on human rights

5 including on <u>human rights</u>.

6 Sector Standard: Coal also contains a list of disclosures from the GRI Topic Standards and other

- sources for organizations in the coal sector to report information about their impacts and approach in
  relation to each likely material topic.
- 9 Sector Standards are developed using multi-stakeholder expertise, authoritative intergovernmental
   10 instruments, and other relevant evidence.
- II This Standard is structured as follows:
- Section 1 provides a high-level overview of the sector, including its activities, <u>business</u>
   <u>relationships</u>, sustainability context, and the connections between the Sustainable Development
   Goals (SDGs) and the likely material topics for the sector.
- Section 2 outlines the topics that have been identified as likely material for organizations in the coal sector and therefore potentially merit reporting. For each likely material topic, the coal sector's most significant impacts are described and disclosures to report information about the organization's impacts and approach in relation to the topic are listed.
- 19 Glossary contains defined terms with specific meaning when used in the GRI Standards.
- Bibliography lists the authoritative intergovernmental instruments and other sources used to develop each topic, as well as further resources that may be helpful for reporting on the topic.
- The rest of this Introduction section offers an overview of the sectors this Standard applies to, an overview of the system of GRI Standards, and further information on using this Standard.

## 24 Sectors this Standard applies to

- 25 GRI Sector Standard: Coal applies to organizations undertaking the following:
- Exploration, mining, and processing of thermal and metallurgical coal from underground or open pit mines.
- Supply of equipment and services to coal mines, such as drilling, exploration, seismic information services, and mine construction.
- Storage or transportation of coal, such as slurry pipelines.
- 31 This Standard can be used by coal organizations of any size or type in any geographic location.
- 32 Not all topics listed in this Standard may be material for all organizations in the sector. The
- 33 organization will determine its material topics based on its specific circumstances.
- 34 When identifying the applicable Sector Standards, an organization should consider its main sector. If
- 35 the organization has substantial activities across more than one sector, it must use all applicable
- 36 Sector Standards.

## 37 Sector classifications

- 38 Table1 lists industry groupings relevant to the coal sector in the Global Industry Classification
- 39 Standard (GICS®), Industry Classification Benchmark (ICB), International Standard Industrial
- 40 Classification of All Economic Activities (ISIC), and Sustainable Industry Classification System
- 41 (SICS®). The table is intended to assist an organization in identifying whether the Sector Standard:
- 42 Coal applies to it and is for reference only.



43 Table 1. Industry groupings relevant to the coal sector in other classification systems

Classification system	Classification number	Classification name
GICS	10102050	Coal & consumable fuels
ICB	60101040	Coal
ISIC	B05	Mining of coal and lignite
SICS®	EM-CO	Coal operations

#### System of GRI Standards 44

- 45 This Standard is part of the GRI Sustainability Reporting Standards (GRI Standards). The GRI
- Standards enable an organization to report information on its most significant impacts on the 46
- economy, environment, and people, including impacts on their human rights, and how it manages 47 48 these impacts.
- 49 The GRI Standards are structured as a system of interrelated standards that are organized into three 50 series: Universal Standards, Sector Standards, and Topic Standards.

#### Universal Standards: GRI 101, 102, and 103 51

- Note: All references to the GRI Universal Standards in this Standard refer to the drafts that have been 52
- made available as part of the review of the Universal Standards. The GRI Sector Standards will work 53
- in conjunction with the revised Universal Standards. The draft Universal Standards are subject to the 54 approval of the Global Sustainability Standards Board and may change.
- 55
- 56 GRI 101: Using the GRI Standards sets out the requirements that the organization must comply with to report in accordance with the GRI Standards. The organization begins using the GRI Standards by 57 58 consulting GRI 101.
- GRI 102: About the Organization contains disclosures that the organization uses to provide 59
- 60 information about its reporting practices and other organizational details, such as activities,
- governance, and policies. 61
- GRI 103: Material Topics provides guidance on how to determine material topics. It also contains 62
- 63 disclosures that the organization uses to report information about its process to determine material 64 topics, its list of material topics, and how it manages each topic.

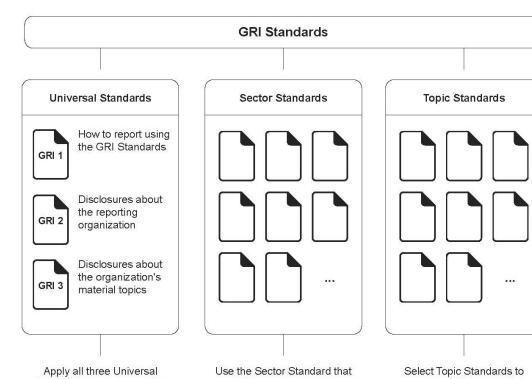
#### 65 Sector Standards

- The Sector Standards provide information for organizations in a given sector about their most likely 66
- material topics. The organization uses the Sector Standards that apply to its sectors when 67
- 68 determining its material topics and when determining what to report for each material topic.

#### 69 **Topic Standards**

- 70 The Topic Standards contain disclosures that the organization uses to report information about its
- 71 impacts in relation to particular topics. The organization uses the Topic Standards according to the list
- 72 of material topics it has determined using GRI 103.





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

Apply all three Universal Standards to your reporting

applies to your sector in determining your material topics and what to report for them Select Topic Standards to report specific information on your material topics

## 73 Using this Standard

- An organization in the coal sector reporting in accordance with the GRI Standards is required to use
- this Standard when determining its material topics and when determining what information to reportfor the material topics.

## 77 Determining material topics

- Material topics are topics that represent the organization's most significant impacts on the economy,
   environment, and people, including impacts on their human rights.
- 80 An organization in the coal sector is required to use this Standard when determining its material
- topics. The organization needs to review each topic described in Section 2 of this Standard and
   determine whether it is a material topic for the organization.
- 83 This Standard helps the organization determine its material topics, but the organization still needs to 84 consider its own specific circumstances when determining its material topics. The topics an
- organization identifies as material may vary according to its circumstances, such as its business
- 86 model; sector; geographic, cultural, and legal operating contexts; ownership structure; and the nature
- of its impacts. *GRI 3: Material Topics 2021* provides step-by-step guidance on how to determine
- 88 material topics.
- 89 Not all topics listed in this Standard may be material for all organizations in the sectors. If any of the
- topics that are included in this Standard have been determined by the organization as not material,
- 91 the organization is required to list them in the GRI content index and explain why they are not material
- 92 (see <u>Requirement 7 in Section 3 of *GRI 1: Foundation 2021*).</u>
- 93 See <u>Requirement 3 in Section 3 of GRI 1: Foundation 2021</u> and <u>Figure 1 in GRI 103: Material Topics</u>
- for more information on using Sector Standards when determining material topics.



### 95 **Determining what to report**

- 96 When a topic included in this Standard is determined by the organization as material, the Standard
- helps the organization identify disclosures to report information about its impacts in relation to that
   topic.
- 99 A what to report section is included for each topic in Section 2 of this Standard. What to report
- 100 sections list disclosures from the GRI Topic Standards. They may also list additional sector
- 101 recommendations and disclosures for the organization to report on, in cases where the Topic
- 102 Standards do not provide disclosures, or where the disclosures from the Topic Standards do not
- 103 provide sufficient information about an organization's impacts and approach in relation to a topic
- 104 Additional sector recommendations and disclosures may be based on other sources.

### 105 Figure 2. Structure of what to report sections

#### What to report

If the organization has identified closure and rehabilitation as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the coal sector.

	Standard	Disclosure	recommendations
1 Management of the topic	Management of the topic		
The organization is required to report how it manages each material topic	GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
using Disclosure 3-3 in <i>GRI 3:</i> Material Topics 2021.	Topic Standards disclose	ures	
2 Topic Standards disclosures	<u>GRI 402:</u> <u>Labor/Management</u> <u>Relations 2016</u>	Disclosure 402-1 Minimum notice periods regarding operational changes	Describe how workers are consulted in advance of significant operational changes.
Disclosures from the GRI Topic Standards that have been identified as relevant for organizations in the sector(s) are listed here. When the topic is determined by the organization as material, it is required to report those disclosures or explain why they are not	GRI 404: Training and Education 2016	Disclosure 404-2 Programs for upgrading employee skills and transition assistance programs	Describe the labor transition plans in place to help workers manage the transition to post-closure phase of operations (which can include redeployment, assistance with re-employment, resettlement, and redundancy payments).
Applicable in the GRI context index. See the Topic Standard for the content of the disclosure, including requirements, recommendations, and guidance.	<ul> <li>have been closed</li> </ul>	operations that: and rehabilitation plans;	
3 Additional sector recommendations		value of financial provisions made by st-closure and rehabilitation monitorin	
Additional sector recommendations may be listed. These complement Topic Standards disclosures and are recommended for an organization in the sector(s).	Additional sector disc Topic Standards disc	tor disclosures losures may be listed. Reportin losures, ensures the organizatio impacts in relation to the topic.	· · · · · · · · · · · · · · · · ·

- 106 For topics determined by the organization as material, the organization is required to report the
- 107 disclosures drawn from Topic Standards listed in the what to report section for that topic. If any
- 108 disclosures listed are not relevant for reporting on the organization's impacts and approach in relation
- 109 to the topic, then the organization is not required to report these but is required to list them in the GRI
- 110 Context Index, provide the 'not applicable' reason for omission and a brief explanation (see
- III Requirement 7 in Section 3 of GRI 1: Foundation 2021).
- 112 The additional sector recommendations and disclosures outline additional information that the
- organization should report on the topic. An organization should provide sufficient information about its
- impacts in relation to each material topic, so that information users can make informed assessments
- and decisions about the organization. The additional sector disclosures and recommendations have
- been identified as relevant for organizations in the coal sector in relation to the topic. Reporting on
- 117 these is encouraged, however, it is not a requirement.



- 118 When the organization reports the additional sector disclosures, it is required to list them in the GRI 119 content index.
- See Requirement 5 in Section 3 of GRI 1: Foundation 2021 for more information on using Sector 120 121 Standards when identifying disclosures to report on.

#### **Defined terms** 122

123 Defined terms are <u>underlined</u> in the text of the GRI Standards and hyperlinked to their definitions in 124 the Glossary. The organization is required to apply the definitions in the Glossary.

#### **References and resources** 125

126 Each GRI Topic Standard includes a list of authoritative intergovernmental instruments and other

sources used in developing the Standard, as well as additional resources that can be consulted by 127 d .ces .ul for u . at the end . . at organizations on the topic. Additional authoritative instruments and sources used to develop the 128

129 topics in this Standard, as well as further resources that may be helpful for understanding and

130 reporting on the topic by organizations in the coal sector are listed at the end of the Standard.



# **1. Sector profile**

132 Coal is an abundant and widespread natural resource. Its use dates from ancient history, and coal

extraction now represents a large global sector supplying key raw materials for energy generation and

metallurgical processes. It is currently a fundamental input in some major industries, notably steel,
 which accounts for 15% of the use of world coal production.<sup>1</sup> Coal is also used in production of

- 136 synthetic compounds, such as cement, dye, oil, waxes, pharmaceuticals, and pesticides.
- 137 Coal organizations are diverse in nature. While some focus on this sole commodity combining
- extraction, distribution, and consumption channels under a single ownership others are large
   diversified organizations, extracting different commodities or operating across different sectors. Some
- 140 of the largest organizations in the sector are state-owned enterprises.
- Coal is still widely used to generate electricity in many countries, though its consumption for this
   purpose has declined globally since 2013.<sup>2</sup>

## **143 1.1 Sector activities and business relationships**

- 144 When determining its <u>material topics</u>, the organization should consider the <u>impacts</u> of both its
- 145 activities and its <u>business relationships</u>.

### I46 Activities

- The impacts of an organization vary according to the types of activities it undertakes. The following listoutlines some of the key activities of the coal sector. The list is not exhaustive.
- *Prospecting and exploration:* Surveying of resources through, for example, feasibility assessments,
   geologic mapping, aerial photography, geophysical measuring, and drilling.
- *Development:* Design, planning, and constructing a mine, including facilities for coal processing and workers.
- 153 Mining: Coal extraction using surface mining, underground mining, or in-situ techniques.
- *Processing:* Crushing, cleaning, and processing coal from unwanted materials; processing it into
   briquettes, liquids, and gas or into coke for steelmaking.
- *Closure and rehabilitation:* Decommissioning processing facilities, land reclamation and rehabilitation,
   and closing and sealing waste facilities.
- *Transportation:* Moving coal to the point of consumption by barge, conveyor belt, train, truck, or ship;or when mixed with oil or water, transported as coal slurry by pipeline.
- 160 *Storage:* Storing coal at mining sites or import and export terminals.
- Sales and marketing: Trading and customer sales of products for the purpose of, for example, ironand steel production, cement production, electricity production, and manufacturing.

### **Business relationships**

An organization's business relationships include those with <u>business partners</u>, entities in its <u>value</u> chain, including those beyond the first tier, and any other entities directly linked to its operations,

<sup>&</sup>lt;sup>2</sup> World Economic Forum (WEF), <u>Chart of the day: Is 2019 the beginning of the end for coal in Europe?</u>, accessed on 5 April 2021; International Energy Agency (IEA), <u>Coal 2019: Analysis and Forecasts to 2024</u>, accessed on 5 April 2021.



<sup>&</sup>lt;sup>1</sup> International Energy Agency (IEA), <u>Coal Information: Overview</u>, accessed on 5 April 2021.

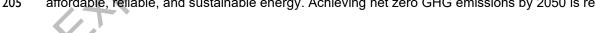
- products, or services. The following types of business relationships are of particular relevance whenidentifying the impacts of organizations in the coal sector.
- 168 Joint ventures are common arrangements, particularly in upstream coal operations, in which
- organizations share costs, benefits, and liabilities of assets or a project. Even as a non-operating
   partner, an organization can be involved with negative impacts as a result of a joint venture.
- partner, an organization can be involved with negative impacts as a result of a joint venture.

171 <u>Suppliers</u> and contractors are used often in the coal sector during certain phases of the project, such

- as construction, or to provide services. Some of the most significant impacts related to the topics inthis Sector Standard involve the supply chain.
- 174 *Customer organizations* use coal to produce heat, energy, or materials. When these organizations
- burn coal, they generate large amounts of greenhouse gas (GHG) and other air emissions. While
- 176 customer organizations play a key role in reducing and managing their emissions, organizations that
- 177 extract coal are increasingly expected to take responsibility for emissions from the combustion of their
- 178 products and to disclose the related emissions. This Sector Standard therefore includes disclosures
- on all <u>Scopes of GHG emissions</u> (1, 2, 3) as well as on other environmental and health impacts that
   occur through product use.

## **1.2 The sector and sustainable development**

- 182 Energy is a key driver of economic growth and sustainable development. Coal has been a
- 183 fundamental source of the world's energy, contributing to economic growth and poverty reduction.
- 184 Coal represents the largest resource for electricity production, providing over a third of the total
- 185 supply.<sup>3</sup>
- 186 The role of coal remains important in regions or countries where coal is a key source of revenue or a
- 187 strategic asset that guarantees energy independence. Although the number of people worldwide
- working in coal mining is not very large,<sup>4</sup> coal can be the main economic resource of a community. In
- addition to employment, coal activities can also bring about local economic development, along with
- infrastructure and services. Most of the world's coal is not traded internationally, but consumed in the same country where it is produced, though some major producing countries export the majority of the
- 192 coal produced.
- 193 Meanwhile, coal consumption is declining globally, though in many countries, particularly in Asia, its
- use is still growing. Burning coal for energy generation is responsible for 40% of all greenhouse
- gas (GHG) emissions from fossil fuels, representing the main contributor to climate change. In
- addition, coal has the highest emissions intensity when combusted. Coal typically releases more than
- 197 twice the amount of GHGs than natural gas per unit of energy produced.<sup>5</sup>
- 198 The majority of the world's countries has committed to combating climate change, as outlined in the
- 199 Paris Agreement. Climate change threatens the lives, livelihoods, health, and homes of millions of
- people. The International Panel on Climate Change (IPCC) warns that continuing to consume fossil
   fuels at the current rate could result in dangerous global temperature increases leading to magnified
- risks of extreme weather and climate events.<sup>6</sup> Other reports show that with current policy
- 202 commitments, the world is indeed heading toward a dangerous 3.2-degree Celsius rise in temperature
- 204 by 2100.<sup>7</sup> These projections underline the need to transition to a low-carbon economy based on
- 205 affordable, reliable, and sustainable energy. Achieving net zero GHG emissions by 2050 is required to



<sup>5</sup> Energy Information Administration (EIA), <u>How much carbon dioxide is produced per kilowatthour of U.S. electricity</u> <u>generation?</u>, accessed on 5 April 2021.

<sup>6</sup> International Panel on Climate Change (IPCC), <u>Global Warming of 1.5°C</u>, 2018.

<sup>&</sup>lt;sup>7</sup> United Nations Environment Programme (UNEP), <u>Emissions Gap Report 2019</u>, 2019.



<sup>&</sup>lt;sup>3</sup> International Energy Agency (IEA), <u>World Energy Outlook 2020</u>, 2020, accessed on 5 April 2021.

<sup>&</sup>lt;sup>4</sup> Eight million people are estimated to work in coal mining in the world; see M. Jakob et al., <u>'The Future of Coal in a Carbon-Constrained Climate'</u>, *Nature Climate Change*, vol. 10, no. 8, August 2020.

206 limit global warming to 1.5 degrees Celsius above pre-industrial levels, which is predicted to pose 207 significantly lower risks to natural and human systems than a warming of 2 degrees Celsius.<sup>8</sup> Actions 208 taken by high-emitting sectors, such as the coal sector, are essential for this transition. These actions 209 can include business model changes, investing in renewable energy sources, prioritizing energy-210 efficient practices, and developing and adopting new technologies and nature-based solutions to remove carbon from the atmosphere. 211

212 The coal sector faces additional pressure to embark on the transition path as governments and the

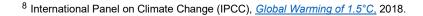
- financial sector implement climate-resilient policies and portfolios, resulting in financial restrictions or 213 divestments from coal. While these policies incentivize decarbonizing the economy, they will also 214
- 215 result in decreased employment opportunities for workers in the sector and its supply chains. Many
- mining communities have few alternative sources of employment, and decline in coal mining can lead 216
- 217 to high local unemployment rates. To ensure a just transition, it is essential for governments and
- organizations to work together. A just transition refers to a fair and equitable pathway through 218
- 219 industrial transformation to a sustainable future, that integrates worker-centric public and employer
- 220 policies and programs to provide a secure and decent future for all workers, their families, and the 221 communities that rely on them. The roadmap to a low-carbon transition will differ between countries
- 222 according to their context and differing capabilities to respond to and mitigate impacts of climate
- 223 change.
- 224 In addition to contributing to climate change, the coal sector generates various negative impacts on
- the environment and people, including impacts on human rights. These include, for example, water, 225
- air, and soil pollution as well as impacts on biodiversity, which can also result in serious health 226
- impacts on people. Accidents and working conditions can pose further health and safety risks for 227

228 workers and local communities. The use of land for sector activities may also lead to disputes, often

- 229 triggered by issues related to tenure rights, resettlement of local communities, or restricted access to 230 land and natural resources. These impacts are especially relevant for indigenous peoples, who often
- 231
- have a special relationship with land and the natural environment.

#### Sustainable Development Goals 232

- The United Nations (UN) Sustainable Development Goals (SDGs), part of the 2030 Agenda for 233
- Sustainable Development adopted by the 193 United Nations member states, comprise the world's 234 235 comprehensive plan to achieving sustainable development.
- Since the SDGs and targets associated with them are integrated and indivisible, coal organizations 236 237 have the potential to impact all SDGs by either enhancing their positive contributions or avoiding and 238 mitigating negative impacts.
- 239 While the coal sector contributes to meeting the world's energy demand and thus plays a role
- 240 in achieving Goal 7: Affordable and Clean Energy, extracting and burning coal is the primary
- 241 contributor to climate change. Climate change can also exacerbate other challenges, such as
- achieving access to clean water, food security, and poverty reduction. Ensuring access to affordable, 242
- reliable, and sustainable energy while mitigating GHG emissions as per Goal 13: Climate Action and 243
- 244 the necessary transition to a low-carbon economy is one of the sector's greatest challenges.
- 245 Because the coal sector is in many regions still a central source of employment and income, it makes 246 positive contributions to Goal 8: Decent Work and Economic Growth and Goal 1: No
- 247 Poverty. Coal operations can also stimulate other economic activity and bring along infrastructure
- and services to local communities around mining sites. With proper management of environmental 248
- impacts caused by coal operations, the sector can thus contribute to Goal 11: Sustainable cities 249
- 250 and communities and Goal 12: Responsible Consumption and Production.





- 251 Table 2 highlights connections between the likely <u>material topics</u> for the coal sector and the SDGs.
- 252 These linkages were identified based on an assessment of the impacts described in each likely
- 253 material topic, the targets associated with each SDG, and existing mapping undertaken for the sector.

254 It is a starting point for organizations that seek to integrate the SDGs into their reporting.

### 255 Table 2: Linkages between the likely material topics for the coal sector and the SDGs

Likely material topics	Corresponding Sustainable Development Goals
	Goal 1: No Poverty
	Goal 7: Affordable and Clean Energy
2.1 Climate adaptation and resilience	Goal 8: Decent Work and Economic Growth
	Goal 9: Industry, Innovation and Infrastructure
	Goal 13: Climate Action
	Goal 13: Climate Action
2.2 GHG emissions	Goal 14: Life Below Water
	Goal 8: Decent Work and Economic Growth
2.3 Closure and rehabilitation	Goal 11: Sustainable Cities and Communities
	Goal 15: Life on Land
	Goal 3: Good Health and Well-being
2.4 Air emissions	Goal 11: Sustainable Cities and Communities
	Goal 15: Life on Land
	Goal 6: Clean Water and Sanitation
	Goal 12: Responsible Consumption and Production
2.5 Biodiversity	Goal 14: Life Below Water
	Goal 15: Life on Land
	Goal 3: Good Health and Well-being
	Goal 6: Clean Water and Sanitation
2.6 Waste	Goal 12: Responsible Consumption and Production
	Goal 15: Life on Land
	Goal 6: Clean Water and Sanitation
2.7 Water and effluents	Goal 12: Responsible Consumption and Production
	Goal 14: Life Below Water
	Goal 15: Life on Land
	Goal 1: No Poverty
1.7	Goal 5: Gender Equality
2.8 Economic impacts	Goal 8: Decent Work and Economic Growth
•	Goal 9: Industry, Innovation and Infrastructure
	Goal 10: Reduced Inequalities
	Goal 1: No Poverty
	Goal 3: Good Health and Well-being
2.9 Local communities	Goal 5: Gender Equality
	Goal 6: Clean Water and Sanitation
	Goal 16: Peace, Justice and Strong Institutions



	Cool 1: No Deverty
2.40 Land and measures rights	Goal 1: No Poverty
2.10 Land and resource rights	Goal 11: Sustainable Cities and Communities
	Goal 16: Peace, Justice and Strong Institutions
	Goal 1: No Poverty
	Goal 3: Good Health and Well-being
2.11 Rights of indigenous peoples	Goal 5: Gender Equality
	Goal 11: Sustainable Cities and Communities
	Goal 16: Peace, Justice and Strong Institutions
2.12 Conflict and security	Goal 16: Peace, Justice and Strong Institutions
2.13 Asset integrity and critical	Goal 3: Good Health and Well-being
incident management	Goal 11: Sustainable Cities and Communities
	Goal 3: Good Health and Well-being
2.14 Occupational Health and Safety	Goal 8: Decent Work and Economic Growth
	Goal 1: No Poverty
	Goal 5: Gender Equality
2.15 Employment practices	Goal 8: Decent Work and Economic Growth
	Goal 10: Reduced Inequalities
	Goal 1: No Poverty
2.16 Child labor	Goal 8: Decent Work and Economic Growth
	Goal 16: Peace, Justice and Strong Institutions
	Goal 8: Decent Work and Economic Growth
2.17 Forced labor and modern slavery	Goal 16: Peace, Justice and Strong Institutions
	Goal 5: Gender Equality
2.18 Non-discrimination and equal	Goal 8: Decent Work and Economic Growth
opportunity	Goal 10: Reduced Inequalities
	Goal 16: Peace, Justice and Strong Institutions
2.19 Freedom of association and	Goal 8: Decent Work and Economic Growth
collective bargaining	Goal 16: Peace, Justice and Strong Institutions
	Goal 12: Responsible Consumption and Production
2.20 Anti-corruption	Goal 16: Peace, Justice and Strong Institutions
8	Goal 1: No Poverty
2.21 Payments to governments	Goal 16: Peace, Justice and Strong Institutions
	Goal 17: Partnerships for the Goals
2.22 Public policy and lobbying	Goal 16: Peace, Justice and Strong Institutions



# **256 2. Likely material topics**

The following section outlines the likely <u>material topics</u> for the coal sector. Each topic describes the
 most significant <u>impacts</u> related to the topic and lists disclosures that have been identified as relevant
 for reporting on the topic by the sector. The organization needs to review each topic in this section

and determine whether it is material for it to report on.

## 261 2.1 Climate adaptation and resilience

262 Climate adaptation and resilience refer to how an organization adjusts to current and 263 anticipated climate-related risks, as well as how it contributes to the ability of societies and

264 economies to withstand impacts from climate change. This topic covers an organization's

strategy in relation to the transition to a low-carbon economy and the impacts of that

### transition on workers and local communities.

267 Signatories of the Paris Agreement have committed to keeping global warming 'well below 2 degrees'.

268 Yet the maximum amount of fossil fuels that can be burned while remaining within that limit – the

269 global carbon budget – is far lower than the proven reserves that organizations could be extracted.

- This puts pressure on producers to modify their business models, establish carbon emissions targets,
- 271 create carbon sinks, and diversify away from fossil fuels.
- 272 Since coal emits the largest amount of carbon dioxide (CO<sub>2</sub>) and has the highest intensity of
- 273 emissions per unit of energy among fossil fuels (see topic 2.2 GHG emissions), burning coal is likely

to be the first activity governments seek to suppress in fulfilling their commitments under the Paris

- Agreement. Since its peak consumption in 2013, the energy transition has commenced and total consumption of coal has been declining.<sup>9</sup>
- This transition presents high risks for organizations, workers, and <u>local communities</u> reliant on coal operations. As the market for coal shrinks, some organizations will be forced to close operations,
- 279 impacting their financial viability. Workers are faced with challenges related to their employability and
- finding desirable re-employment. Coal mining regions may end up with environmental legacy costs
- 281 related to asset closure as well as significant reductions of economic activity that lead to lower tax
- revenues and depopulation.
- 10 2040, coal use as a share of total global energy use could vary between an estimated 20% and

10% depending on the policy scenario.<sup>10</sup> The transition will also be unequal across countries, as
 some countries are much more dependent on coal for electricity generation than others. Similarly,

205 some countries are much more dependent on coar for electricity generation than others. Similarly, 286 while alternatives are available for energy generation, steelmakers still lack a feasible alternative for

- coal, so their transition might take longer. Technological solutions for burning coal without emitting
- $CO_2$  (e.g., through carbon capture and storage or utilization) are being tested, but the technology has
- not progressed at the rate necessary to meet the required emissions reductions to limit global
- 290 warming to levels committed to in the Paris Agreement, and new investment is scarce.<sup>11</sup>
- 291 Many coal operations will face closure, but others are expected to remain operational for decades.
- 292 Which remain operational longer will depend on technological, geographic, and political factors.
- 293 Organizations are at risk of owning stranded assets or pieces of physical capital that become
- drastically reduced in value by the transition, leading to write-offs. Organizations may mitigate these

<sup>&</sup>lt;sup>11</sup> International Energy Agency (IEA), <u>World Energy outlook 2018</u>, accessed 5 April 2021.



<sup>&</sup>lt;sup>9</sup> International Energy Agency (IEA), <u>Coal Information: Overview</u>, accessed on 5 April 2021.

<sup>&</sup>lt;sup>10</sup> The share of coal in the energy mix was 27% in 2018. International Energy Agency (IEA) uses two policy scenarios for forecasting the use of coal: under the Current Policy Scenario (assuming no change in policies), this share will be reduced to 20% in 2040; under the Sustainable Development Scenario (assuming policies compatible with the Paris Agreement), the share will be reduced to 10% in 2040. World Energy Outlook 2019, accessed 5 April 2021.

- risks by diversifying away from coal, investing in technological solutions, and focusing on market
   segments expected to remain operational longer.
- 297 A just transition to a low-carbon economy requires recognizing the different levels of dependence on
- coal by regions and countries and the need to create quality jobs for persons affected. Examples of
- 299 potential actions from coal organizations to ensure a just transition include providing plenty of notice
- 300 of closures, collaborating with governments and unions, retraining and redeploying workers, and
- providing alternate investments in affected communities. Meaningful, early consultations with
   stakeholders and communities have proven crucial (see topic 2.3 Closure and rehabilitation).
- The transition can also bring along opportunities to reinvigorate economic activity and provide new employment opportunities and skills development.

#### 305 What to report

306 If the organization has identified climate adaptation and resilience as a <u>material topic</u>, this section lists 307 the disclosures that have been identified as relevant for reporting on the topic by the coal sector.

- · ·				
Standard	Disclosure	Additional sector recommendations		
Management of the to	Management of the topic			
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>Report the level and function within the organization that has been assigned responsibility for managing climate change- related impacts.</li> </ul>		
		<ul> <li>Describe the board's oversight to manage climate-change related impacts.</li> </ul>		
	Arait	Report whether responsibility to manage climate change-related impacts is linked to performance assessments or incentive mechanisms, including in the <u>remuneration</u> policies for <u>highest governance body</u> members and <u>senior executives</u> .		
	KO (	<ul> <li>Describe any commitments, policies, and actions taken to mitigate the impacts of the transition to a low-carbon economy on workers and communities.</li> </ul>		
Topic Standards disc	losures			
GRI 201: Economic Performance 2016	Disclosure 201-2 Financial implications and other risks and opportunities due to	<ul> <li>Describe the climate change-related scenarios used to assess the resilience of the organization's strategy, including a 2-degree or lower scenario.</li> </ul>		
	climate change	<ul> <li>Describe how the climate-change related scenarios affect or could affect the organization's operations or revenue, including potential write-offs and early closure of existing assets.</li> </ul>		
		<ul> <li>Report the coal production volumes for the reporting year and projected volumes for the next five years.</li> </ul>		



<ul> <li>Report the estimated reserves and potential emissions from these reserves.</li> </ul>
<ul> <li>Report the percentage of capital expenditure (CapEx) allocated to investments in:</li> </ul>
<ul> <li>prospecting and exploration of new reserves;</li> <li>low-carbon technology;</li> <li>energy from renewable sources.</li> </ul>
<ul> <li>Report investments in nature-based solutions for climate change <u>mitigation</u> and technologies to remove CO<sub>2</sub>; and net captured value of CO<sub>2</sub> removed.</li> </ul>
<ul> <li>Report diversification of operations away from a reliance on sales and transport of coal.</li> </ul>

### Additional sector disclosures

Describe the organization's approach to public policy advocacy on climate change, including:

- the organization's stance on issues related to climate change;
- any differences between the organization's lobbying positions and any stated policies, goals, or other public positions; and
- a list of industry and other membership associations and national or international organizations participating in public policy advocacy on climate change in which the organization has a significant role.

Note: The final disclosure is related to <u>Disclosure 2-28 Membership associations</u>. If the information reported by the organization in 2-28 covers the membership associations requested by this disclosure, the organization can provide a reference to this information.

#### 308 References and resources

: <del>1</del>805

- 309 <u>GRI 201: Economic Performance 2016</u> lists authoritative intergovernmental instruments and other
- 310 sources relevant to reporting on this topic.
- 311 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 313 sector are listed in the Bibliography on page 72.



#### 2.2 GHG emissions 314

Greenhouse gas (GHG) emissions comprise air emissions that contribute to climate change. 315

such as carbon dioxide and methane. This topic covers direct and energy indirect GHG 316

emissions (Scope 1 and Scope 2) related to an organization's activities, as well as other 317

318 indirect GHG emissions (Scope 3) related to the end use of an organization's products.

319 Greenhouse gas (GHG) emissions are the single biggest contributor to climate change, the impacts of 320 which are occurring at an accelerating rate. Studies show that approximately half of the total anthropogenic carbon dioxide (CO<sub>2</sub>) emissions from 1750 onwards have occurred in the last 40 years, 321 mostly due to increased use of fossil fuels, including coal.<sup>12</sup> Although the energy efficiency of 322

production has improved, increased energy demand has caused a rise in global GHG emissions, the 323

324 majority of which originates from combustion of fossil fuels.<sup>13</sup>

325 Besides CO<sub>2</sub>, coal operations also cause the emission of another powerful GHG: methane (CH<sub>4</sub>). This

GHG has a significantly higher global warming potential than CO2; when considering its impact over 326

100 years, one ton of CH<sub>4</sub> is equivalent to 28 to 36 tons of CO<sub>2</sub>.<sup>14</sup> The energy sector has been 327

identified as the second-largest source of anthropogenic CH4 emissions. Recent measurements 328

329 indicate that available figures on CH<sub>4</sub> emissions from energy could be underestimates. Other GHG 330

emissions related to coal extraction and use include nitrous oxide ( $N_2O$ ) and ozone ( $O_3$ ).

Activities related to coal mining and processing consume significant amounts of energy. Unless they 331

332 are powered by renewable energy sources, these operations generate CO2 emissions. These are

333 classified as direct (Scope 1) GHG emissions for activities owned or controlled by the organization or

energy indirect (Scope 2) GHG emissions for activities that result from purchased or acquired 334

electricity consumed by the organization. 335

The amount of energy used in coal mining depends on several factors, such as the method of mining, 336

337 mine depth, geology, mine productivity, and degree of refining required. Activities among the most

energy-consuming include transportation, exploration activities, drilling, excavation, extraction, 338

grinding, crushing, milling, pumping, and ventilation processes. Extraction and transportation in 339

- 340 underground mines might require more energy than surface mining due to, for example, greater 341 requirements for hauling, ventilation, and water pumping. Closure and rehabilitation activities are also
- a source of GHG emissions. 342

Coal mines are also a source of CH<sub>4</sub> emissions, which are produced during the process of coal 343

formation and released to the atmosphere during and after the mining process. Coal mine methane 344

(CMM) can be released via degasification systems and ventilation air from underground coal mines, 345

346 seepage from abandoned or closed mines through vent holes or cracks in the ground, coal seams of 347 surface mines, and fugitive emissions from storage and transportation. Underground mines are

348 responsible for the majority of Scope 1 coal CH<sub>4</sub> emissions due to the higher gas content of deeper

349 seams.

For coal, end-use activities are responsible for the most significant GHG emissions, which are 350

classified as part of other indirect (Scope 3) GHG emissions. Coal is a carbon-intensive fuel, and its 351

352 combustion generates the single largest source of global CO<sub>2</sub> emissions. These emissions mostly

353 originate from electricity and heat generation, steel production, and cement manufacturing.

<sup>&</sup>lt;sup>14</sup> Greenhouse Gas Protocol, Global Warming Potential Values; International Energy Agency (IEA), Methane tracker 2020, accessed 5 April 2021.



<sup>&</sup>lt;sup>12</sup> Intergovernmental Panel on Climate Change (IPCC), <u>Climate Change 2014: Synthesis Report</u>, 2014.

<sup>&</sup>lt;sup>13</sup> International Energy Agency (IEA), Market Report Series: Energy Efficiency 2018, accessed 5 April 2021; CO2 Emissions from Fuel Combustion: Highlights, 2018.

### 354 What to report

If the organization has identified GHG emissions as a <u>material topic</u>, this section lists the disclosures
 that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the topic			
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>When reporting on goals and targets, report:</li> <li>Report the scopes of GHG emissions (1, 2, 3) and the activities and <u>business</u> relationships to which the goals and targets apply.</li> <li>Report how the goals and targets are set and which instruments and mandatory legislation the goals and targets are based on or aligned with.</li> <li>Report the <u>baseline</u> for setting goals and targets and the timeline for achieving them.</li> </ul>	
Topic Standards disc	losures		
<u>GRI 302: Energy</u> 2016	Disclosure 302-1 Energy consumption within the organization		
	Disclosure 302-2 Energy consumption outside of the organization		
	Disclosure 302-3 Energy intensity		
EXPOSI			



Standard	Disclosure	Additional sector recommendations
Topic Standards disc	losures	
<u>GRI 305: Emissions</u> 2016	Disclosure 305-1 Direct (Scope 1) GHG emissions	<ul> <li>Report the percentage of direct (<u>Scope</u></li> <li><u>1</u>) methane emissions.</li> </ul>
		<ul> <li>Report the breakdown of gross direct (Scope 1) GHG emissions by type of source (stationary combustion, process, fugitive).</li> </ul>
		Note: This recommendation is based on the guidance to clause 2.2.5.3 in GRI 305: Emissions 2016.
	Disclosure 305-2 Energy indirect (Scope 2) GHG emissions	con
	Disclosure 305-3 Other indirect (Scope 3) GHG emissions	
	Disclosure 305-4 GHG emissions intensity	
	Disclosure 305-5 Reduction of GHG emissions	

#### 357 **References and resources**

EXPOSU

- <u>GRI 302: Energy 2016</u> and <u>GRI 305: Emissions 2016</u> list authoritative intergovernmental instruments 358
- and other sources relevant to reporting on this topic. 359
- 360 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coal 361 sector are listed in the Bibliography on page 72. 362



## **2.3 Closure and rehabilitation**

At the end of commercial use, organizations are expected to close assets and facilities and
 rehabilitate operational sites. The planning and execution of this phase should take
 environmental as well as socioeconomic impacts into consideration. This topic covers an
 organization's approach to closure and rehabilitation, including impacts on the environment,
 local communities, and workers.

369 Potential <u>impacts</u> of coal mining following closure include soil and water contamination, changes to

370 landforms, and disturbance of biodiversity and wildlife. Closure can also lead to lasting socioeconomic

371 consequences for <u>local communities</u> (see topic 2.9 Local communities). Closure often requires

372 planning that begins in the early phases of a project's lifecycle in order to anticipate potential impacts. 373 Failure to close assets and rehabilitate sites effectively can render land unusable for other productive

- Failure to close assets and rehabilitate sites effectively can render land unusable for other productive uses due to the presence of toxic materials or contamination. It can also result in health and safety
- 375 hazards.

376 Environmental impacts from the closure of surface and underground mining can differ. For example,

surface mining requires more land use and more substantial rehabilitation, whereas abandoned
 underground mines may emit coal mine methane even after active mining has ceased, contributing to

- 378 underground mines may emit coal mine methane even alter 379 GHG emissions.
  - 380 Over the course of a coal mining project, communities may come to depend on the sector's activities
  - 381 for jobs, income, royalties, tax payments, charitable donations, and other benefits (see also topic 2.21
  - 382 Payments to governments). This can lead to negative impacts on the economy and people once the

383 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 <u>workers</u> and local

communities to a post-closure phase and cause retrenchment, economic downturn, and social unrest.
 Without clearly assigned responsible parties or allocated funds, closed coal mines can also leave

387 behind legacy environmental issues and financial burden for local communities and governments.

388 Closure and rehabilitation of coal operations can also create employment and business opportunities.

- 389 This can 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 phase can, in turn,
- 391 exacerbate other pressures on the environment.

392 Closure and rehabilitation of coal mining operations should result in a stable and sustainable

393 ecosystem, compatible with planned post-closure land use. Activities can include stabilization of

open-pit or underground workings and removal or conversion of infrastructure to ensure safety of

395 people; rehabilitation of waste rock stockpiles and tailings facilities to control erosion and land

degradation; management of <u>waste</u>, <u>surface water</u>, and <u>groundwater</u> quality issues resulting from
 abandoned rock drainage, waste rock, and leaching from tailings (see also topic 2.6 Waste and 2.7

398 Water and effluents); and post-closure monitoring.

399 The need to reduce GHG emissions and to transition to a low-carbon economy (see topic 2.1 Climate

400 adaptation and resilience) is leading to more frequent closures. These are less likely to be

401 counterbalanced by openings, as has been the case in the past. In areas where employment largely

- 402 derives from coal activities, mitigating significant socioeconomic impacts requires collaboration
- 403 between local and national governments, coal organizations, workers, and unions to ensure a just404 transition.



#### 405 What to report

If the organization has identified closure and rehabilitation as a <u>material topic</u>, this section lists the
 disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the to	Management of the topic		
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics		
Topic Standards disc	Topic Standards disclosures		
<u>GRI 402:</u> Labor/Management Relations 2016	Disclosure 402-1 Minimum notice periods regarding operational changes	Describe how workers are consulted in advance of <u>significant operational changes</u> .	
<u>GRI 404: Training</u> and Education 2016	Disclosure 404-2 Programs for upgrading employee skills and transition assistance programs	Describe the labor transition plans in place to help workers manage the transition to post-closure phase of operations (which can include redeployment, assistance with re-employment, resettlement, and redundancy payments).	
Additional sector disclosures			
Report the organization's operations that: - have closure and rehabilitation plans; - have been closed; - are in the process of being closed.			
Report the total monetary value of financial provisions made by the organization for closure and rehabilitation, including post-closure and rehabilitation monitoring, and aftercare.			

#### 408 **References and resources**

- 409 <u>GRI 402: Labor/Management Relations 2016</u> and <u>GRI 404: Training and Education 2016</u> list
- 410 authoritative intergovernmental instruments and other sources relevant to reporting on this topic.
- 411 The additional intergovernmental instruments and references used to develop this topic description as
- 412 well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 413 sector are listed in the Bibliography on page 73.



## 414 **2.4 Air emissions**

Air emissions include pollutants that can have negative impacts on air quality, ecosystems,

and human and animal health. This topic covers impacts from emissions of sulfur oxides

417 (SOx), nitrogen oxides (NOx), particulate matter (PM), volatile organic compounds(VOC),

418 carbon monoxide(CO), and heavy metals, such as lead, mercury, and cadmium.

In addition to greenhouse gas (GHG) emissions, coal is a significant source of anthropogenic air emissions classified as pollutants. Globally, air pollution causes acute health problems and millions of deaths annually<sup>15</sup> by contributing to heart and lung diseases, strokes, respiratory infections, and neurological damage. Children, the elderly, and the poor are disproportionately affected, as are encoded and the problems and the poor are disproportionately affected, as are

- 423 communities adjacent to operations.
- 424 The emission of pollutants also has <u>impacts</u> on ecosystems. For example, nitrogen emissions and
- 425 mercury that enter the oceans or waterways can impact marine life. They are also a major cause of 426 ground-level ozone – commonly known as smog – which can lead to or worsen respiratory illnesses.
- 427 Sulfur oxides can lead to acid rain and increase ocean acidification. Further adverse effects from acid
- rain and ground-level ozone include degradation of water, soil, flora, and fauna, and impairment of
- 429 their ability to function and grow.
- 430 Air emissions from coal operations include CO, NO<sub>x</sub>, PM from coal dust, and SO<sub>2</sub>. These emissions
- 431 can occur from evaporation from tailings ponds or <u>waste</u> areas; fugitive dust emissions from drilling,
- blasting, storage, transportation, loading, and unloading; refining and processing activities; and
- transportation of supplies and products. Emissions related to product use include NO<sub>x</sub>, PM, SO<sub>2</sub>,
   arsenic, cadmium, lead, mercury, selenium, and other heavy metals.
- 435 In addition to their impacts on climate change (see topic 2.2 GHG emissions), air emissions from
- 436 burning coal in power plants or industrial processes can also have negative impacts on people.
- 437 Outdoor air pollution causes millions of deaths every year, and burning coal is a major source of this
- 438 pollution. These emissions are caused by organizations in other sectors, such as utilities and steel,
- 439 but their impacts can often be directly linked to the coal sector.

#### 440 What to report

If the organization has identified air emissions as a <u>material topic</u>, this section lists the disclosures that
have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations
Management of the topic		
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	

<sup>&</sup>lt;sup>15</sup> World Health Organization (WHO), Ambient Air Pollution: A Global Assessment of Exposure and Burden of Disease, 2016.



Standard	Disclosure	Additional sector recommendations
Topic Standards disclosures		
<u>GRI 305: Emissions</u> 2016	Disclosure 305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	<ul> <li>Report particulate matter (PM) emissions from coal dust separately from total PM.</li> <li>Report carbon monoxide (CO) emissions.</li> </ul>
GRI 416: Customer Health and Safety 2016	Disclosure 416-1 Assessment of the health and safety impacts of product and service categories	Describe actions taken to improve product quality to reduce air emissions.

#### 443 **References and resources**

- 444 GRI 305: Emissions 2016 and GRI 416: Customer Health and Safety 2016 list authoritative
- .tr .derstanding .tr .derstanding intergovernmental instruments and other sources relevant to reporting on this topic. 445
- 446 The additional intergovernmental instruments and references used to develop this topic description as
- 447 well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 448



#### 2.5 Biodiversity 449

Biodiversity not only has intrinsic value, but is also vital to climate, human health and well-450 45 I being, food security, and economic prosperity. This topic covers impacts on biodiversity,

452 including on plant and animal species and genetic diversity.

453 Coal operations typically require large-scale infrastructure development, which have direct, indirect, 454 and cumulative impacts on biodiversity in the short and long term. Due to the scale and long lifespans 455 of coal projects, impacts can occur well beyond a project's temporal and geographical parameters, 456 including after closure. Direct impacts include air, soil, and water contamination, deforestation, soil 457 erosion, and sedimentation of waterways. Other impacts include habitat fragmentation and

- 458 conversion, the introduction of invasive species and pathogens, and species mortality.
- 459 Impacts on biodiversity can result from land clearance for pits, access routes, and progressive
- expansion into new areas; habitat fragmentation from access roads and other linear infrastructure; 460
- 461 disruption of surface water, wetland, and groundwater ecosystems; and effluent discharges, groundwater, or surface stream contamination from acidic water, coal tailings ponds, or overburden
- 462
- piles (see also topic 2.6 Waste and 2.7 Water and effluents). 463
- 464 Different mining methods present distinct risks for biodiversity. Open-pit mines generate more severe
- impacts than underground mines due to progressive deepening and widening of the mining site. 465
- increasing affected areas over time. Coal resources can also be located in sensitive ecosystems or 466
- 467 areas with high biodiversity value, which can exacerbate impacts on biodiversity. In addition,
- 468 increased human settlement around operational sites can have impacts through opening of routes to 469 previously inaccessible areas, adding stress and contributing to cumulative impacts within the
- 470 landscape.
- 471 Coal activities can contribute to cumulative impacts on biodiversity. For example, habitat
- fragmentation caused by the presence of a mining site can be compounded by land use change from 472
- 473 agricultural operations. Extensive land use requirements for open-pit mining can also contribute to
- 474 GHG emissions and climate change, namely through land use change resulting in removal of carbon
- 475 sinks. Climate change, in turn, is expected to affect all aspects of biodiversity - including individual
- 476 organisms, populations, species distribution, and ecosystem composition and function - and the
- impacts are anticipated to become more severe as temperatures increase (see also topic 2.1 Climate 477 adaptation and resilience and 2.2. GHG emissions). 478
- The coal sector has participated in developing a mitigation hierarchy tool, which can be used to limit 479
- 480 and manage negative impacts on biodiversity and ecosystems. The tool presents a prioritized
- 481 sequence of measures for the sustainable management of natural resources, with preventive actions
- 482 taking precedence over remediation. Priority is given to avoidance and, where avoidance is not
- possible, to minimization of impacts. Only at the point that all preventative steps are adopted should 483 remediation measures be used, including rehabilitation or restoration of degradation or damage, and 484
- 485 offsetting residual impacts remain after all other measures have been applied.<sup>16</sup>

#### What to report 486

If the organization has identified biodiversity as a material topic, this section lists the disclosures that 487 have been identified as relevant for reporting on the topic by the coal sector. 488

<sup>&</sup>lt;sup>16</sup> Cross Sector Biodiversity Initiative (CSBI), A cross sector guide for implementing the Mitigation Hierarchy, 2015.



Standard	Disclosure	Additional sector recommendations
Management of the	topic	
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>Describe any commitments to achieving no net loss or net gain to biodiversity on operational sites, and report whether these commitments apply to existing or future operations, and whether they also apply to operations beyond areas of <u>high</u> <u>biodiversity value</u>.</li> <li>Report whether application of the <u>mitigation</u> hierarchy has informed actions to manage the topic and related impacts.</li> </ul>
Topic Standards disclosures		
<u>GRI 304:</u> 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	JOH
	Disclosure 304-2 Significant impacts of activities, products, and services on biodiversity	•
	Disclosure 304-3 Habitats protected or restored	<ul> <li>Describe how the application of the mitigation hierarchy has resulted in:</li> <li><u>areas protected</u> through avoidance measures or through offset measures;</li> <li><u>areas restored</u> through on-site restoration measures or through offset measures.</li> </ul>
CXP05	Disclosure 304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	

### 489 **References and resources**

- 490 <u>*GRI 304: Biodiversity 2016*</u> lists authoritative intergovernmental instruments and other sources
   491 relevant to reporting on this topic.
- 492 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coalsector are listed in the Bibliography on page 74.



## 495 **2.6 Waste**

496 Waste refers to anything that a holder discards, intends to discard, or is required to discard.

497 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.

499 This topic covers impacts from waste, including as a result of construction and remediation 500 activities from active and inactive sites.

501 Waste impacts from coal activities can include contamination of surface water, groundwater, and food

502 sources with chemicals and heavy metals. Further effects can be loss of land productivity and

sources with chemicals and neavy metals. Further chects can be loss of land productivity and
 erosion. Certain <u>wastes</u> require particularly robust management due to their type or volume. In remote
 areas with limited w<u>aste disposal methods</u>, waste impacts can be more severe or harder to monitor.

- 505 The largest waste stream from coal operations comprises overburden, rock waste, and tailings. Often
- 506 produced in large quantities, these wastes can also contain toxic or noxious substances, including
- heavy metals. Effective waste management and minimization are therefore critical for protecting <u>local</u>
   <u>communities</u> and preventing damage to the environment.
- 509 Overburden from surface mining is usually stored on adjacent undisturbed land until it can backfill the
- 510 pit once mining is complete. Disposal options are limited for some surface mining techniques, such as
- 511 mountain-top removal, since the overburden cannot be returned to the pit. In these cases, the
- 512 disposal method consists of adjacent valley filling, which can lead to various environmental and
- 513 biodiversity impacts (see topic 2.5), such as burial of waterways and concentration of noxious
- substances harmful to ecosystems and humans (see also topic 2.7 Water and effluents).
- 515 Rock waste and coarse tailings are usually managed on heaps or disposed in constructed waste rock
- 516 dumps or former open-pit operations. Associated environmental impacts concern air pollution from
- 517 dust from these dumps, which wind or rainwater can carry to affect air quality, watercourses, or lands.
- 518 Coal slurry waste from mining and processing is generally discarded into ponds, filtered, stored in
- 519 heaps, or disposed of in underground voids. Surface tailing storage facilities can cover vast areas and
- 520 be contained by tailings dams. Tailings without harmful substances can be drained and stored until
- 521 being reshaped and covered with soil and vegetated. However, tailings pose a health risk for local
- 522 communities when they contain heavy metals, cyanide, chemical-processing agents, sulfides, or
- suspended solids that can pollute the environment, including groundwater and surface water
- (incidents related to tailings facilities are discussed in topic 2.13 Asset integrity and critical incident
   management).
- 526 Other typical wastes from coal operations include waste oils and chemicals, spent catalysts, solvents 527 and other industrial wastes, as well as packaging and construction wastes.
- 528 The nature and quantity of generated waste often requires management beyond the productive phase
- 529 of a mining operation. At the end of a coal exploration or extraction project, closure can also yield 530 significant waste, which can have lasting environmental and socioeconomic consequences (see topic
- significant waste, which can have lasting environmental an2.3 Closure and rehabilitation).



### 532 What to report

If the organization has identified waste as a <u>material topic</u>, this section lists the disclosures that have
been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the to	Management of the topic		
<u>GRI 3: Material</u> Topics 2021	Disclosure 3-3 Management of material topics		
Topic Standards disc	Topic Standards disclosures		
<u>GRI 306: Waste</u> 2020	Disclosure 306-1 Waste generation and significant waste-related impacts	Contra	
	Disclosure 306-2 Management of significant waste-related impacts	jiC	
	Disclosure 306-3 Waste generated	Report a breakdown of the composition of waste by the following waste streams: - overburden; - rock waste; - tailings.	
	Disclosure 306-4 Waste diverted from disposal	Report a breakdown of the composition of waste by the following waste streams: - overburden; - rock waste; - tailings.	
19051	Disclosure 306-5 Waste directed to disposal	Report a breakdown of the composition of waste by the following waste streams: - overburden; - rock waste; - tailings.	

### 535 References and resources

536 <u>GRI 306: Waste 2020</u> lists authoritative intergovernmental instruments and other sources relevant to
 537 reporting on this topic.

538 The additional intergovernmental instruments and references used to develop this topic description as

well as further resources that may be helpful for understanding and reporting on the topic by the coal
 sector are listed in the Bibliography on page 74.



## 541 **2.7 Water and effluents**

Recognized by the United Nations as a human right, access to fresh water is essential for
 human life and wellbeing. The amount of water withdrawn and consumed by an organization

### and the quality of its discharges can have impacts on ecosystems and people.

545 Coal activities can have <u>impacts</u> on the availability and quality of water resources, which can in turn
546 have impacts on ecosystems and water users. The coal sector's <u>water consumption</u> in operations can
547 reduce water availability for <u>local communities</u> and other sectors that also rely on the resource.
548 Certain mining methods can involve substantive vegetation clearance and land use changes, which
549 can also lead to erosion and sediments flows. Alterations in water flows and increased sedimentation

- 550 affect water quality and aquatic and terrestrial habitats.
- 551 Water in coal mining is used for cooling and cutting in mines; dust suppression in mining and hauling;
- washing to improve coal quality; re-vegetation of surface mines; and long-distance transportation of
- coal slurry. The amount of water needed for operations depends on whether mining occurs on the
- 554 surface or underground as well as on operational efficiency. The amount of water withdrawn also 555 varies according to the ability to substitute water, water guality, reservoir characteristics, and recycling
- 556 infrastructure.

EXPOSITE

- 557 The coal sector's impacts on water additionally depends on the quantity of water resources in the
- 558 local context; where water is scarce, the sector has a greater impact. A large proportion of the world's
- 559 coal resources are found in areas that are arid or experience water stress. In such areas, the sector's
- set activities are likely to increase competition for water with other demands such as for household use
- 561 and fishing, aquaculture, or agriculture activities and exacerbate tensions between as well as within
- 562 sectors or local communities. Droughts, floods, and other extreme weather events related to climate
- 563 change will likely pose more challenges related to water availability and quality.
- 564 Coal activities can have significant impacts on the quality of <u>surface water</u> and <u>groundwater</u>, which
- 565 can translate into long-term implications for ecosystems and biodiversity, spread waterborne
- diseases, cause health and development problems for humans, and impair food chain productivity.
- 567 These impacts can occur from leaching from tailings, failure of tailings facilities, and acid mine
- 568 drainage, which involves acidic water containing heavy metals. Underground operations might also
- 569 disrupt or contaminate aquifers. Transportation accidents and related coal <u>spills</u> can result in
- waterways and wetlands being contaminated with harmful materials, such as arsenic, lead, mercury,
   and sulfur compounds (see also topic 2.13 Asset integrity and critical incident management).

#### 572 What to report

- 573 If the organization has identified water and effluents as a <u>material topic</u>, this section lists the
- 574 disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations		
Management of the to	Management of the topic			
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics			
Topic Standards disclosures				
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	Describe actions taken to prevent or <u>mitigate</u> impacts from acid mine drainage.		
	Disclosure 303-3 Water withdrawal			
	Disclosure 303-4 Water discharge			
	Disclosure 303-5 Water consumption			

### 575 References and resources

: XPO

- 576 *GRI 303: Water and Effluents 2018* lists authoritative intergovernmental instruments and other
- 577 sources relevant to reporting on this topic.
- 578 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coalsector are listed in the Bibliography on page 75.



#### 2.8 Economic impacts 581

582 An organization's activities can have impacts on the economic conditions of its stakeholders 583 and on economic systems through, for example, revenues and other payments, hiring, and 584 procurement. Infrastructure investments and services supported by an organization can also 585 have impacts on a community's well-being and long-term development. This topic covers economic impacts at local, national, and global levels. 586

587 Coal activities can be an important source of investment and income for local communities, countries. 588 and regions. Actual impacts vary according to the scale of operations, stimulation of other economic activity, and effectiveness of management of coal-related revenues by local governments. In some 589

- 590 resource-rich countries, a significant amount of the gross domestic product is derived from
- 591 investments in the development of coal resources and revenues from mining. However,
- 592 mismanagement of these revenues can harm economic performance and lead to macroeconomic
- 593 instability and distortions (see also topic 2.21 Payments to governments and 2.20 Anti-corruption).
- 594 Economies dependent on finite resources can also be vulnerable to commodity price and production 595 fluctuations.
- 596 The coal sector can have positive impacts on communities, countries, and regions through royalty
- 597 payments, taxes, and wealth creation. Investments by coal organizations in the development of
- 598 enabling infrastructure, such as public power utilities to improve access to energy, can benefit local
- 599 communities. Coal activities can also stimulate economies and create local employment, with well-
- 600 paid jobs in the coal sector potentially resulting in increased purchasing power. Skills development of
- local communities through education and training can also help increase access to jobs in the sector. 601
- Positive impacts on local businesses can result from local procurement of products and services as 602 well as from supplier development. 603
- The extent to which local communities benefit from the coal sector's presence depends on existing 604
- 605 development and industrialization levels and the community's capacity to offer qualified workers for
- 606 the new employment opportunities. In addition, the net employment impacts depend on how
- 607 employment by the sector affects existing jobs in other sectors. These impacts can also be affected
- 608 by an organization's employment practices. For example, a fly-in-fly-out work approach can offset
- 609 pressures associated with influxes of people in small communities while still supplying workers to fill positions (see also topic 2.15). However, this approach reduces employment opportunities available
- 610 to local communities, thus detracting from potential economic benefits.
- 611
- Introduction of new coal activities can also generate negative impacts on local communities, including 612
- 613 competition over jobs and economic disparity; vulnerable groups, including women, are often
- 614 disproportionately affected (see also topic 2.9 Local communities). An influx of external workers can
- increase pressure on housing, infrastructure, and public services. Other potential negative impacts 615
- 616 include environmental legacy costs related to, for example, contamination, incidents, or lack of proper
- 617 rehabilitation after closure (see also topic 2.3 Closure and rehabilitation).
- 618 Governments and regions with coal resources currently face the risk of stranded assets due to stricter climate policies and technological developments driving the transition to a low-carbon economy (see 619
- topic 2.1 Climate adaptation and resilience). The transition is expected to result in significant 620
- 621 reductions in coal mining, making communities and countries that depend on the sector's revenues or
- 622 employment vulnerable to resulting economic downturn. In these cases, collaboration between local
- 623 and national governments and organizations in the coal sector is essential to ensure a just transition.



#### 624 What to report

625 If the organization has identified economic impacts as a <u>material topic</u>, this section lists the

disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the to	Management of the topic		
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	Describe the organization's approach to providing local procurement and employment opportunities, including training programs.	
Topic Standards disclosures			
GRI 201: Economic Performance 2016	Disclosure 201-1 Direct economic value generated and distributed	Report direct economic value generated and distributed by project.	
<u>GRI 202: Market</u> <u>Presence 2016</u>	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 203: Indirect Economic Impacts 2016	Disclosure 203-1 Infrastructure investments and services supported		
2010	Disclosure 203-2 Significant indirect economic impacts		
GRI 204: Procurement Practices 2016	Disclosure 204-1 Proportion of spending on local suppliers		

### 627 **References and resources**

628 <u>GRI 201: Economic Performance 2016</u> and <u>GRI 202: Market Presence 2016</u> list authoritative

629 intergovernmental instruments and other sources relevant to reporting on this topic.

630 The additional intergovernmental instruments and references used to develop this topic description as

631 well as further resources that may be helpful for understanding and reporting on the topic by the coal

632 sector are listed in the Bibliography on page 75.



# **2.9 Local communities**

634 Local communities can comprise individuals or groups of individuals living and/or working in

areas that are affected or that could be affected by an organization's activities. An organization

636 is expected to conduct community engagement to understand the vulnerabilities of local

637 communities and how they might be affected by the organization's activities. This topic covers

638 socioeconomic, cultural, health, and human rights impacts on local communities.

639 Coal organizations can have positive impacts on local communities through employment, local

640 procurement, and local taxes (see also topic 2.8 Economic impacts, 2.15 Employment practices and

- 641 2.21 Payments to governments). Organizations in the sector can also benefit local communities
- through <u>community development programs</u> and providing access to <u>infrastructure</u> and services,
   including access to energy, if the services and infrastructure are designed with community needs in
- 644 mind.
- 645 The coal sector's activities can also lead to negative impacts on communities. For example, land use
- requirements for activities or transportation and distribution of products, influxes of people seeking
- employment and economic opportunities, environmental degradation, and use of natural resources for
- sector activities can all cause negative impacts. Types and significance of impacts commonly
   associated with the sector vary according to the characteristics and context of the local community.
- associated with the sector vary according to the characteristics and context of the local community.
- Land use requirements can cause displacement and loss of access to land, water and other natural
- resources (see 2.10 Land and resource rights). Land use for coal mining can compete with other land
- uses, such as farming, fishing, or recreation. Displacement can additionally impact human rights of
   individuals in local communities. The sector's land use may also result in damage to cultural heritage
- sites, which can lead to loss of culture, tradition, or cultural identity. Such damage especially affects
- 655 indigenous peoples. Decreased availability of resources can have more severe impacts on women,
- 656 who are often responsible for obtaining water, food, and fuel.
- 657 The arrival of <u>workers</u> from the surrounding areas or through a fly-in-fly-out work approach during
- 658 construction or expansion of a coal mine might lead to greater economic inequality within the local
- community. There may be an increase in activities that compromise social order, such as substance
- abuse, gambling, and prostitution, specifically affecting <u>vulnerable groups</u>. The influx of predominantly
   male migrant workers can also change the social dynamics of the local community. This impacts
- 662 women in particular, as it can lead to a rise in sexual violence and trafficking as well as sexually
- transmitted diseases (see also topic 2.11 Rights of indigenous peoples). The sector has also been
- 664 linked to domestic and gender-based violence, both on mining sites and in local communities. In-
- migration of workers can also introduce new communicable diseases and increase pressure on local
- 666 services and resources.
- Organizations can have further impacts on community health, safety, and well-being due to air, soil,
   and water pollution; increased levels of noise and light; <u>waste</u> streams and leaks; and dust. Incidents,
- such as explosions, fires, mine collapses, <u>spills</u>, and tailings dams failures, can threaten the safety of
- 669 such as explosions, files, filles, filles collapses, <u>splits</u>, and tailings darks failures, can threaten the safety 670
   670 local communities (see also topic 2.13 Asset integrity and critical incident management). Increased
- 671 traffic to operational sites can pose additional road accident hazards.
- 672 When operating in areas of pre-existing conflict or where negative impacts from coal activities are left
- unattended, conflicts can arise or become exacerbated (see also topic 2.12 Conflict and security).
- 674 Effective local community engagement can contribute to better management of the social impacts of
- 675 coal projects. If organizations in the coal sector overlook or poorly execute such engagement,
- 676 community concerns might not be understood or addressed, which can exacerbate existing impacts
- 677 or create new ones.



## 678 What to report

- 679 If the organization has identified local communities as a <u>material topic</u>, this section lists the
- disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the to	Management of the topic		
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>Describe the means for identifying and engaging with <u>local communities</u>.</li> <li>List the <u>vulnerable groups</u> that the organization has identified.</li> <li>List any collective or individual rights that the organization has identified to be of particular concern to the local communities.</li> <li>Note: These recommendations are based on the guidance to clause 1.1 in GRI 413: Local Communities 2016.</li> </ul>	
Topic Standards disc	losures		
<u>GRI 413: Local</u> <u>Communities 2016</u>	Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs	R	
	Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities	Describe significant <u>impacts</u> on the health of local communities as a result of <u>exposure</u> to pollution caused by the organization's operations or use of hazardous substances.	
Additional sector disclosures			

Report the number and description of disputes from local communities, including actions taken and outcomes of the actions.

# 681 References and resources

- 682 *GRI 413: Local Communities 2016* lists authoritative intergovernmental instruments and other sources 683 relevant to reporting on this topic.
- 684 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coal
   sector are listed in the Bibliography on page 76.



# 687 2.10 Land and resource rights

Land and resource rights encompass the rights to use, manage and control land, fisheries,
 forests, and other natural resources. Organizations can have impacts on the availability and
 accessibility of these to local communities and other users. This topic covers impacts from an
 organization's use of land and natural resources on human rights and tenure rights, including
 from resettlement of local communities.

693 Coal operations require access to land for prospecting, exploration, mining, coal and <u>waste</u> storage,
 694 processing, transportation, and distribution of products. This can sometimes lead to displacement of
 695 other land users, restricted access to resources and services, and resettlement. <u>Impacts</u> from land
 696 use vary according to methods of extraction, resource location, processing required, and
 697 transportation methods. For example, displacement is more often associated with open-pit mining

- 698 than underground coal mining.
- Unclear rules regarding tenure rights to access, use, and control land often cause disputes, economic
- and social tensions, and conflict. Insufficient consultation with, and inadequate compensation to,
   affected communities can also exacerbate tensions and conflict. For example, the relationship
- between subsurface (i.e., mineral) rights and surface (i.e., land) rights might be unclear; formal
- 702 between subsurface (i.e., mineral) rights and surface (i.e., land) rights might be unclear, formal 703 statutory tenure rules might overlap or conflict with traditional customary rules: legitimate rights may
- 709 statutory tendre rules might overlap of connect with traditional customary rules, regulater rights may 704 not be recognized or enforced; or people may lack formal documentation of their rights to land.
- 705 Community consultations may also fail to include all affected members. Women, for example, are
- often excluded from decision-making processes related to the development a new project.

707 Organizations may provide <u>local communities</u> with monetary compensation or land that is equivalent

- to lost assets. However, determining the value of local communities' lost access to the natural
   environment is complex. It requires considerations of income-generating activities, human health, and
- 710 non-material aspects of quality of life. The amount of compensation provided may therefore not be
- equivalent to the loss suffered. In some cases, customary titleholders to the land may not be
   compensated at all or may only be compensated for crops they were cultivating on the land rather
- 712 compensated at all or may only be of 713 than also for the land itself.
- 714 Involuntary resettlement of local communities can have impacts on people's livelihoods and human
- 714 rights. These impacts can be exacerbated for vulnerable groups. Involuntary resettlement can involve
- 716 physical displacement (e.g., relocation or shelter loss) and economic displacement (e.g., loss or
- 717 access to assets). Involuntary resettlement typically requires more extensive engagement between
- 718 organizations and local communities. Impacts of resettling communities can be exacerbated by a
- flawed process or lack of transparency, for example, in the absence of free, prior, and informed
   consent (FPIC), specifically for <u>indigenous peoples</u> (see also topic 2.11 Rights of indigenous
- 721 peoples).
- 722 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 topic 2.12 Conflict and security).

# 725 What to report

- 726 If the organization has identified land and resource rights as a <u>material topic</u>, this section lists the
- 727 disclosures that have been identified as relevant for reporting on the topic by the coal sector.



Standard	Disclosure	Additional sector recommendations	
Management of the to	Management of the topic		
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	Describe how the organization seeks to ensure meaningful engagement with <u>vulnerable</u> <u>groups</u> , including how it ensures safe and equal gender participation. Note: This recommendation is related to Disclosure 2-29 Approach to stakeholder engagement. If the information reported by the organization in 2-29 describes how it seeks to ensure meaningful engagement with <u>vulnerable groups</u> , the organization can provide a reference to this information.	
Topic Standards disc	Topic Standards disclosures		
<u>GRI 413: Local</u> <u>Communities 2016</u>	Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs	JOIC	
	Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities	<ul> <li>Report the locations of operations or facilities which necessitated involuntary resettlement or where such resettlement is ongoing. For each location, describe how peoples' livelihoods and <u>human rights</u> were affected as a result of the resettlement, and any <u>remedy</u> provided. (For example, describe the impacts on people's customary rights, cultural rights, and access to economic resources and services as a result of the resettlement, and any remedy provided.)</li> </ul>	
EXPOSI		<ul> <li>Describe the process for providing remediation to <u>local communities</u> subject to involuntary resettlement, such as the process for establishing compensation for loss of assets or other assistance to improve or restore standards of living or livelihoods.</li> </ul>	

#### **References and resources** 728

- 729 GRI 413: Local Communities 2016 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 730
- 731
- The additional intergovernmental instruments and references used to develop this topic description as well as further resources that may be helpful for understanding and reporting on the topic by the coal sector are listed in the Bibliography on page 76. 732
- 733



#### 2.11 Rights of indigenous peoples 734

Indigenous peoples are considered a vulnerable group that could experience negative impacts 735

as a result of an organization's activities more severely than the general population. 736

Indigenous peoples have both collective and individual rights, as set out in United Nations 737

738 Declaration on the Rights of Indigenous Peoples and other international human rights

739 instruments. This topic covers impacts on the rights of indigenous peoples.

740 The coal sector can have impacts on indigenous peoples that are often connected with sociocultural 741 factors, such as their cultural heritage and special relationship with land. Development of coal 742 activities can present positive economic impacts through, for example, employment opportunities and community development programs (see also topic 2.8) but the sector's activities can also disrupt 743 744 indigenous peoples' cultural, spiritual, and economic ties to their lands or natural environments. 745 compromise their rights and well-being, and cause displacement (see also topic 2.10 Land and 746 resource rights). Availability of and access to water, as a key concern for indigenous communities, 747 can also be impacted. Considering many indigenous peoples' distinct relationship with and 748 dependence on nature, the sector's role as a major contributor to climate change exacerbates 749 impacts on the environment.

750 The collective and individual rights of indigenous peoples are recognized in international instruments.

75 I Indigenous peoples also often have a special legal status in national legislation, and/or can be

752 customary or legal owners of lands to which organizations in the coal sector are granted use rights by 753 governments. As such, before initiating development projects that require resettlement or have

potential impacts on lands or resources used or owned by indigenous peoples, organizations are

754 expected to seek free, prior, and informed consent (FPIC) from indigenous peoples. This right is 755

recognized in the United Nations Declaration on the Rights of Indigenous Peoples and allows 756

757 indigenous peoples to give or withhold consent to a project that may affect them or their territories as

well as to negotiate project conditions. However, some national governments might not recognize or 758

759 enforce indigenous land rights or indigenous peoples' rights to consent. Documented cases show

absence of good faith consultations as well as undue pressure and harassment toward indigenous 760

peoples to accept projects; opposition to such projects has in some cases led to violence and death 761 762 (see also topic 2.12 Conflict and security). Organizations in the coal sector and indigenous peoples

regularly have disputes and conflicts over land ownership and rights. 763

The sector can further undermine social cohesion, welfare, and safety of indigenous communities 764 through tension created by the influx of foreign workers, risks of prostitution and forced labor, violence 765

against women, and increased exposure to communicable diseases (see also topic 2.9 Local 766 communities). Negative socioeconomic impacts from coal mining projects often affect indigenous 767

768 women more than men.

#### What to report 769

770 If the organization has identified rights of indigenous peoples as a material topic, this section lists the 771 disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations
Management of the to	opic	
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>Describe the mutually accepted process to incorporate 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'.</li> </ul>



Standard	Disclosure	Additional sector recommendations
GRI 3: Material Topics 2021 (cont.)	Disclosure 3-3 Management of material topics	<ul> <li>Describe how the organization seeks to ensure meaningful engagement with indigenous peoples, including how it ensures safe and equal gender participation.</li> </ul>
		Note: this recommendation is related to Disclosure 2-29 Approach to stakeholder engagement. If the information reported by the organization in SE-1 describes the means for ensuring equal and safe gender participation, the organization can provide a reference to this information.
Topic Standards disc	losures	
<u>GRI 411: Rights of</u> Indigenous Peoples 2016	Disclosure 411-1 Incidents of violations involving rights of indigenous peoples	
<u>GRI 413: Local</u> <u>Communities 2016</u>	Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs	Describe the process for identifying and implementing <u>community development</u> <u>programs</u> for indigenous peoples, such as providing training and access to jobs, providing supply opportunities and benefit- sharing contracts, or implementing an indigenous employment strategy.
	Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities	List the locations of operations where indigenous peoples are present or affected by ongoing coal activities.

#### **References and resources** 772

773 GRI 411: Rights of Indigenous Peoples 2016 and GRI 413: Local Communities 2016 list authoritative 774 intergovernmental instruments and other sources relevant to reporting on this topic.

775

The additional intergovernmental instruments and references used to develop this topic description as

well as further resources that may be helpful for understanding and reporting on the topic by the coal 776 777 sector are listed in the Bibliography on page 77.



# 778 2.12 Conflict and security

An organization's activities may trigger conflict, or they may be located in areas facing conflict situations. An organization's use of security personnel or reliance on national security forces in conflict situations can have negative impacts and needs to be carefully managed to ensure that the human rights of local communities and other third parties are respected. This topic covers the organization's security practices and its approach to operating in areas of conflict.

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

- 787 Conflict can also be caused by the presence of coal activities. These conflicts can be triggered by
- 788 poor engagement with or exclusion of <u>local communities</u> and <u>indigenous peoples</u> from decision-
- making processes; uneven distribution of economic benefits; negative <u>impacts</u>, such as environmental
   pollution or reduced access to resources seen as disproportionate to the benefits received; or
- 790 disputes over use of scarce resources. Conflict can also be triggered by mismanagement of coal-
- related revenues by public officials for individual gains at the expense of local interests (see also topic
- 793 2.20 Anti-corruption).
- 794 Organizations in the coal sector may use <u>security personnel</u> to protect their assets or ensure their
- 795 <u>workers'</u> safety. Security personnel may 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 freedom of speech (see also topic 2.19), as well as lead to
- violence, injuries, or deaths. Security contractors may also be connected to military or paramilitary groups.
- 800 Security may be provided by host government police or military forces. In such cases, organizations in
- the coal sector might be involved with negative human rights impacts as a result of their <u>business</u>
- 802 <u>relationships</u> with these military and security forces, over whose actions they have limited control.
- 803 When coal projects are endorsed by local governments but remain disagreeable to local communities,
- the use of private military or security forces may increase tensions and exacerbate the power imbalance between companies and local communities.
- 806 Effectively addressing such negative impacts involves assessing security risks, which includes
- 807 engaging with stakeholders, and working with security providers to ensure human rights are
- respected. This may also help organizations improve safety and security in local communities
- 809 through, for example, facilitating communication between government security forces and local
- 810 communities and supporting efforts to address other sources of conflict.

EXPOSUI



#### 811 What to report

- 812 If the organization has identified conflict and security as a material topic, this section lists the
- disclosures that have been identified as relevant for reporting on the topic by the coal sector. 813

Standard	Disclosure	Additional sector recommendations
Management of the to	opic	
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	List the organization's significant operations in areas of conflict.
Topic Standards disclosures		
GRI 410: Security Practices 2016	Disclosure 410-1 Security personnel trained in human rights policies or procedures	con

#### **References and resources** 814

815 GRI 410: Security Practices 2016 lists authoritative intergovernmental instruments and other sources

- relevant to reporting on this topic. 816
- age 78. The additional intergovernmental instruments and references used to develop this topic description as 817
- well as further resources that may be helpful for understanding and reporting on the topic by the coal 818
- 819



#### 2.13 Asset integrity and critical incident management 820

Asset integrity and critical incident management deal with prevention and control of incidents 821

#### 822 that can lead to fatalities, injuries or ill health, environmental impacts, and damage to 823 communities and infrastructure. This topic covers impacts from such incidents and an

organization's approach to critical incident management. 824

825 Critical incidents in the coal sector can have catastrophic consequences on workers, local

communities, and the environment, as well as cause damage to the organization's assets. In addition 826

to fatalities and injuries, these incidents can cause economic loss, conflict, threats to livelihoods, 827

compromised food safety and security, social disruption, cultural erosion, litigation stress, 828

environmental degradation, and direct species mortality. Incidents that cause methane and other 829

GHG emissions, such as gas and coal dust explosions, also contribute to climate change. 830

Critical incidents related to coal mining include mine collapses, poisonous gas leaks, dust explosions. 831

- 832 stope collapses, fires, mining-induced seismicity, floods, vehicle collisions, and mechanical errors due
- 833 to improperly operated or malfunctioning equipment (see also topic 2.14 Occupational health and 834 safety). Coal fires can release fly ash and smoke containing GHG emissions and toxic chemicals that
- 835 can enter food chains.
- Other critical incidents involve failures related to tailings management. Poor management or design of 836
- tailing facilities can lead to leaks or collapses, with severe impacts on local communities, livelihoods, 837
- infrastructure, and the environment. Failures can be due to poor water management, overtopping, 838

839 foundation or drainage failure, erosion, and earthquakes. Impacts become more severe when tailings

840 also contain high levels of bioavailable metals or hazardous chemicals. Incidents related to spills and

841 leaks of coal slurry ponds and tailings pipelines can also cause significant damage.

842 Critical incident risks can be identified and anticipated through implementation of a critical control

843 management approach, which addresses the sources or factors likeliest to lead to potential incidents.

Organizations can mitigate their impacts through measures that ensure emergency preparedness and 844

response. This includes effective communication with local communities to mitigate exposure to 845

- pollution and other impacts during emergencies (see also topic 2.9 Local communities). Effective 846 847 critical control management can also limit impacts associated with natural calamities and extreme
- weather events, which are likely to increase in frequency and intensity due to climate change. 848

#### What to report 849

- If the organization has identified asset integrity and critical incident management as a material topic. 850
- 851 this section lists the disclosures that have been identified as relevant for reporting on the topic by the Free Contractions of the second secon
- 852 coal sector.



Standard	Disclosure	Additional sector recommendations
Management of the topic		
<u>GRI 3: Material</u> <u>Topics 2021</u>	Disclosure 3-3 Management of material topics	<ul> <li>Report whether the organization complies with the Global Industry Standard on Tailings Management (GISTM) and, if so, provide a link to the latest information disclosed in line with GISTM Principle 15.<sup>17</sup></li> <li>Describe the actions taken to:         <ul> <li>manage impacts from tailings facilities throughout the lifecycle, including closure and post-closure;</li> <li>prevent catastrophic failures of tailings facilities.<sup>18</sup></li> </ul> </li> </ul>
Topic Standards disc	losures	
GRI 306: Effluents and waste 2016	Disclosure 306-3 Significant spills	
Additional sector dis	closures	
<ul> <li>For each tailings fa</li> <li>description of f</li> <li>operational state</li> <li>Dam Failure C</li> <li>date and main</li> </ul> Note: If the organization		:.); ne with the GISTM;
	.01	and response programs and plans.
References and res		

854 GRI 306: Effluents and Waste 2016 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 855

The additional intergovernmental instruments and references used to develop this topic description as 856

well as further resources that may be helpful for understanding and reporting on the topic by the coal 857

sector are listed in the Bibliography on page 79. 858

Responsible Investment (PRI), <u>*The Global Industry Standard on Tailings Management*</u>, 2020. <sup>18</sup> The terms 'tailings facility' and 'catastrophic failure' are so defined in ICMM, UNEP, PRI, <u>*The Global Industry Standard on*</u> Tailings Management, 2020.



853

<sup>&</sup>lt;sup>17</sup> International Council on Mining and Metals (ICMM), United Nations Environment Programme (UNEP), Principles for

#### 2.14 Occupational health and safety 859

Healthy and safe working conditions are recognized as a human right. Occupational health 860

and safety involves prevention of physical and mental harm to workers and promotion of 861

workers' health. This topic covers impacts related to workers' health and safety. 862

Many of the work-related hazards in the coal sector are associated with key processes in exploration 863 864 and mining phases, such as working with heavy machinery and exposure to or handling of explosive, 865 flammable, poisonous, or harmful substances. Despite the sector's efforts to eliminate work-related hazards and improve safety, exposure to these hazards has resulted in higher fatality rates than in 866 many other sectors. 867

868 Other hazards with a potential to result in work-related injury or ill health can result from working in 869 confined spaces or isolated locations, long working hours, and the type of physical, often repetitive, 870 labor involved. Hazards vary according to the extraction method. For example, risks may be higher for

871 workers in underground mines due to challenging working conditions and confined environments.

872 The coal sector extensively uses suppliers to perform what can amount to major parts of projects.

873 Suppliers are often subject to lower occupational health and safety standards than employees.

874 Suppliers might also have higher accident and fatality rates, which can be due to them undertaking

the most dangerous jobs. In addition, suppliers might not be covered by the coal organization's 875

occupational health and safety management system, be less familiar with the workplace and the 876

877 organization's safety practices, or be less committed to those practices.

Hazards associated with the coal sector with a potential to result in injury include transportation 878

incidents, which are a common source of fatalities and injuries. These can occur when workers and 879

880 equipment are transported to and from mining sites, sometimes over long distances along dangerous

881 routes. Fires and explosions are another major hazard (see also topic 2.13 Asset integrity and critical

- 882 incident management), which can originate from coal dust and flammable gases during coal extraction, transportation, and processing. Electrical hazards can be associated with high-voltage 883
- systems or equipment used in mining sites. 884

<u>Work-related incidents</u> categorized as 'struck-by', 'caught-in', or 'caught-between' can involve falling equipment or structures, faulty operation of heavy machinery, or malfunctioning of electrical, 885

886

- hydraulic, or mechanical installations. Workers can also be at risk of falls, slips, and trips, such as 887 when workers access working areas or equipment located high above the ground or via underground 888
- walkways, which can be obstructed, wet, or sloped. 889

890 Hazards associated with the sector with a potential to result in ill health include exposure to airborne

- respirable dust, which can lead to obstructive or debilitating lung illnesses such as asthma, cancer, 891
- 892 and pneumoconiosis. Free crystalline silica released during processes that use or produce sand, can
- 893 cause lung cancer and silicosis. Coal dusts are also associated with coal workers' pneumoconiosis. In
- 894 addition, exposure to hydrogen sulfide released by coal seams can lead to incapacitation or death.

895 Concentration of gases such as carbon monoxide, methane, and nitrogen in confined spaces can

- 896 create poisonous environments, which can lead to asphyxiation.
- Physical hazards include extreme temperatures, which can cause fatigue and body stress reactions. 897
- 898 as well as harmful levels of carcinogenic radiation from industrial processing and harmful levels of machinery noise. Workers can also suffer impaired hearing and musculoskeletal disorders due to 899 900 ergonomic-related hazards, such as vibration.
- 901 Biological hazards include exposure to viruses present in the local community that cause
- 902 communicable diseases or bacteria as a result of poor hygiene and quality of water or food.
- 903 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 904
- 905 fatigue, strain, or stress, and affect physical, psychological, and social health. These hazards include
- 906 expatriation, rotational work, long shifts, irregular or odd working hours, and work that is solitary or
- monotonous. Workers can also suffer psychological reactions, such as post-traumatic stress disorder 907
- due to, for example, being involved in a critical incident. Gender imbalance can contribute to stress, 908
- 909 discrimination, or sexual harassment (see also topic 2.18 Non-discrimination and equal opportunity).



# 910 What to report

- 911 If the organization has identified occupational health and safety as a material topic, this section lists
- 912 the disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations
Management of the topic		
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	
Topic Standards disclos	Ires	
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	
SUL	Disclosure 403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	
.+20-	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	

# 913 References and resources

- 914 GRI 403: Occupational Health and Safety 2018 lists authoritative intergovernmental instruments and
- 915 other sources relevant to reporting on this topic.
- 916 The additional intergovernmental instruments and references used to develop this topic description as
- 917 well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 918 sector are listed in the Bibliography on page 79.



# 919 2.15 Employment practices

920 Employment practices refer to an organization's approach to job creation, terms of

employment and working conditions for its workers. This topic also covers the employment
 and working conditions in an organization's supply chain.

923 Employment opportunities generated by the coal sector, either directly or through <u>suppliers</u>, can have

positive socioeconomic impacts on communities, countries, and regions. The sector can offer well paid opportunities for skilled workers. However, employment practices in the sector are also

- 926 associated with a number of negative impacts related to working conditions, use of contract labor and
- 927 disparities in working conditions, inadequate labor-management consultations, and job security.
- 928 Many jobs in the sector have rigorous shift patterns to ensure continuity of operations around the
- 929 clock, sometimes requiring overtime employment and night shifts, which can cause high fatigue levels
- and augment risks related to critical incidents and occupational health and safety and (see also topics
- 2.13 and 2.14). An organization can 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
- 934 psychosocial impacts on workers.
- Various 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. By outsourcing activities and using workers employed through suppliers,
- organizations in the coal sector may seek to reduce their labor costs and circumvent collective
- agreements that would otherwise benefit workers in direct employment (see also topic 2.19 Freedom
- 940 of association and collective bargaining).
- 941 Compared to <u>employees</u> workers who have an employment relationship with the organization, agency
- 942 workers commonly receive less favorable employment conditions, lower compensation, and less
- training. They also have higher accident rates and less job security than directly employed workers.
- They might lack social protection and access to grievance mechanisms. Workers beyond the first tiers
- in the organization's <u>supply chain</u> may be subject to low standards for working conditions, exposing
- 946 organizations in the coal sector <u>human rights</u> violations through their <u>business relationships</u> (see also
- 947 topics 2.16 Child labor and 2.17 Forced labor and modern slavery).
- 948 Employment terms can also vary significantly for local workers, expatriates (e.g., temporary coal
- 949 workers who are brought in by employers), migrant workers, and contractors. <u>Remuneration</u> might be
- 950 unequal, and <u>benefits</u>, 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 <u>local communities</u> from accessing employment opportunities created by the sector in the first
   place (see also topic 2.8 Economic impacts).
- Job security is another concern the coal sector faces. For example, mine closures or coal price drops
- 955 can be sudden, leading to job losses. Low job security is compounded by automation and changing
- 956 business models, such as changes triggered by the transition to a low-carbon economy. If
- 957 organizations fail to offer workers timely skills development measures, improving their employability in
- 958 other sectors, they can face underemployment or unemployment.

# 959 What to report

- 960 If the organization has identified employment practices as a <u>material topic</u>, this section lists the
- 961 disclosures that have been identified as relevant for reporting on the topic by the coal sector.



Standard	Disclosure	Additional sector recommendations
Management of the topic		
<u>GRI 3: Material Topics</u> 2021	Disclosure 3-3 Management of material topics	
Topic Standards disclosur	es	
GRI 401: Employment 2016	Disclosure 401-1 New employee hires and employee turnover	el
	Disclosure 401-2 Benefits provided to full-time employees that are not provided to temporary or part-time employees	omn
	Disclosure 401-3 Parental leave	
<u>GRI 402:</u> Labor/Management <u>Relations 2016</u>	Disclosure 402-1 Minimum notice periods regarding operational changes	
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	
GRI 414: Supplier Social Assessment 2016	Disclosure 414-1 New suppliers that were screened using social criteria	
SUI	Disclosure 414-2 Negative social impacts in the supply chain and actions taken	

# 962 References and resources

963 GRI 401: Employment 2016, GRI 402: Labor/Management Relations 2016, GRI 404: Training and

*Education 2016*, and *GRI 414: Supplier Social Assessment 2016* list authoritative intergovernmental
 instruments and other sources relevant to reporting on this topic.

966 The additional intergovernmental instruments and references used to develop this topic description as967 well as further resources that may be helpful for understanding and reporting on the topic by the coal

968 sector are listed in the Bibliography on page 80.



#### 2.16 Child labor 969

Child labor is defined as work that 'deprives children of their childhood, their potential and 970

their dignity, and that is harmful to their physical or mental development including by 971

interfering with their education'. Freedom from child labor is a fundamental human right. 972

973 Around one million children between ages five and 17 are estimated to be engaged in artisanal and small-scale mining and quarrying activities.<sup>19</sup> Coal is identified as produced with the use of child labor 974 975 in several countries, including Afghanistan, Colombia, Mongolia, Pakistan and Ukraine,<sup>20</sup>

Coal mining activities are dangerous to children in various ways. Children face multiple hazards in 976

977 coal mines, such as severe accidents and injuries, falling rocks, explosions, fires, and collapse of 978 mine walls (see also topic 2.14 Occupational health and safety). Other impacts can result from

979 working in remote areas with limited access to schools and social services. If there is no family or

980 community support, the conditions may also foster alcohol abuse, drugs, and prostitution.

981 Coal organizations interact with a high number of suppliers and customers, including in countries with 982 low enforcement of human rights. Organizations can be linked to child labor by business relationships 983 in their supply chains, such as during facilities construction. Risks of child labor in the coal sector are 984 often found in artisanal and small-scale mining, with more prevalence in the informal sector and remote areas. Child labor is also more frequent in areas affected by armed conflict (see also topic 985 986 2.12 Conflict and security).

Other impacts on children's rights and well-being can result from the coal sector's impacts on the local 987

- communities as well as from organization's employment practices. These can include parents' 988 working conditions, long hours, shift work, and fly-in-fly-out practices (see also topic 2.15 Employment
- 989 990 practices).

#### 991 What to report

992 If the organization has identified child labor as a material topic, this section lists the disclosures that

have been identified as relevant for reporting on the topic by the coal sector. 993

Standard	Disclosure	Additional sector recommendations
Management of the to	opic	
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	
Topic Standards disclosures		
GRI 408: Child labor 2016	Disclosure 408-1 Operations and suppliers at significant risk for incidents of child labor	



<sup>&</sup>lt;sup>19</sup> UNICEF, Children's rights and the mining sector, 2015; International Labour Organisation (ILO), Global Estimates of Child Labour – Results and Trends 2012-2016, 2017. <sup>20</sup> U.S. Department of Labor, <u>2020 List of Goods Produced by Child Labor or Forced Labor</u>, 2020.

Standard	Disclosure	Additional sector recommendations
GRI 414: Supplier Social Assessment	Disclosure 414-1 New suppliers that were screened using social criteria	
<u>2016</u>	Note: This disclosure is also listed in 2.15 Employment practices. If the organization has identified employment practices as a material topic and has already reported this disclosure, the organization can provide a reference to this information.	
References and res	sources	0

#### **References and resources** 994

- 995 GRI 408: Child labor 2016 and GRI 414: Supplier Social Assessment 2016 list authoritative
- intergovernmental instruments and other sources relevant to reporting on this topic. 996
- 997 The additional intergovernmental instruments and references used to develop this topic description as
- 998 well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 999

ed to di .g and report in g and report in the second secon



# **2.17 Forced labor and modern slavery**

1001Forced labor is work or service which is exacted under the menace of penalty and for which a1002person has not offered themselves voluntarily. Freedom from forced labor is a fundamental1003right at work. This topic covers impacts and expectations of organizations in relation to forced

## 1004 labor and modern slavery.

Coal has been identified as a product at risk of being produced by <u>forced labor</u> or modern slavery in several countries, including North Korea, Pakistan, and China.<sup>21</sup> Organizations in the coal sector interact with a large number of <u>suppliers</u>, including in countries characterized by low rates of enforcement of <u>human rights</u>. This can increase the likelihood of using suppliers that do not adhere to rights at work or relevant codes of conduct, leaving <u>supply chains</u> vulnerable to human rights

- 1010 violations, including incidences of modern slavery.
- 1011 Coal organizations can contribute to occurrences of modern slavery through joint ventures and other 1012 <u>business relationships</u>, including state-owned enterprises in countries where regular human rights
- 1013 standards violations occur.
- 1014 Documented cases of human rights violations throughout the supply chain concern activities such as
- 1015 coal shipping and construction. Low-skilled migrant workers can also face higher risks of modern
- 1016 slavery when dealing with third-party employment agencies, such as those who have been found to
- 1017 overcharge workers for visas and flights or to demand recruitment costs be paid by <u>employees</u> rather
- 1018 than employers.

# 1019 What to report

- 1020 If the organization has identified forced labor and modern slavery as a <u>material topic</u>, this section lists
- 1021 the disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations
Management of the to	opic	
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	
Topic Standards disc	losures	
GRI 409: Forced or Compulsory Labor 2016	Disclosure 409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor	

<sup>21</sup> United States Department of Labor, <u>2020 List of Goods Produced by Child Labor or Forced Labor</u>, 2020; Walk Free Foundation, <u>The Global Slavery Index 2018</u>, 2018.



Standard	Disclosure	Additional sector recommendations
GRI 414: Supplier Social Assessment 2016	Disclosure 414-1 New suppliers that were screened using social criteria Note: This disclosure is also listed in 2.15 Employment practices. If the	
	organization has identified employment practices as a material topic and has already reported this disclosure, the organization can provide a reference to this information.	

#### 1022 **References and resources**

<u>GRI 409: Forced or Compulsory labor 2016</u> and <u>GRI 414: Supplier Social Assessment 2016</u> list authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 1023

ier. s used to .ding and re. 1024

1025 The additional intergovernmental instruments and references used to develop this topic description as

1026 well as further resources that may be helpful for understanding and reporting on the topic by the coal

1027

GSS

# **2.18 Non-discrimination and equal opportunity**

Freedom from discrimination is a human right and a fundamental right at work. Discrimination
 can impose unequal burdens on individuals or deny them opportunities instead of treating
 them fairly and on the basis of individual merit. This topic covers impacts from discrimination
 and practices related to diversity, inclusion, and equal opportunity.

1033 The conditions, locations, and types of work associated with the coal sector can set a barrier for entry
 1034 to the sector, hinder <u>employee</u> diversity, and result in <u>discrimination</u>. Discriminatory practices can
 1035 impede access to jobs and career development, as well as lead to unequal treatment, <u>remuneration</u>,
 1036 and benefits.

- 1037 Discrimination has been documented in the coal sector concerning race, color, sex, gender, religion,
- 1038 national extraction, and <u>worker</u> status. For example, jobseekers from <u>local communities</u> are
- sometimes excluded from the hiring process because of a recruitment system bias that favors a
   dominant ethnic group or utilizes expatriate workers. Compared to expatriates, local workers might
- 1041 receive significantly lower pay for equal work. The sector's widespread use of contract workers, often
- 1042 with differing terms of employment, can also be a source of discrimination.
- 1043 The coal sector is characterized by a significant gender imbalance. In many countries, the percentage 1044 of women working in this sector is significantly lower than the proportion of women working in other
- sectors. Women are also significantly underrepresented in senior management positions. One of the
- 1046 causes of this imbalance is that fewer women graduate with degrees pertinent to the sector, such as
- in science, technology, engineering, and mathematics. Other barriers for women and primary
- 1048 caregivers include lack of <u>parental leave</u> arrangements and childcare facilities at mining sites, long
- 1049 work hours, and fly-in-fly-out work arrangements (see also topic 2.15 Employment practices). Social
- 1050 or cultural customs and beliefs and biases can also limit women's access to jobs in this sector or
- 1051 prevent them from taking on specific roles. In addition, some resource-rich countries have laws that
- 1052 prevent women from working in hazardous or arduous occupations.
- 1053 The coal sector has also been linked to domestic and gender-based violence, both at sites of
- operation and within local communities near operations. Male-dominated cultures, imbalanced gender
   distribution, and gendered organizational norms have been identified as factors that contribute to the
- 1056 likelihood of sexual harassment in such contexts.
- 1057 Understanding how specific groups may be subject to discrimination in the different locations where
   1058 an organization operates can help the organization in effectively addressing discriminatory practices,
   1059 for example, by providing specific training to workers on how to prevent discrimination and create a
- 1060 respectful workplace.

# 1061 What to report

- 1062 If the organization has identified non-discrimination and equal opportunity as a material topic, this
- section lists the disclosures that have been identified as relevant for reporting on the topic by the coal
   sector.

Standard	Disclosure	Additional sector recommendations
Management of the topic		
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	



Topic Standards disclosures		
GRI 202: Market Presence 2016	Disclosure 202-1 Ratios of standard entry level wage by gender compared to local minimum wage	
	Note: This disclosure is also listed in 2.8 Economic impacts. If the organization has identified economic impacts as a material topic and has already reported this disclosure, the organization can provide a reference to this information.	ent
	Disclosure 202-2 Proportion of senior management hired from the local community	min
	Same note as above applies.	O'
GRI 401: Employment 2016	Disclosure 401-3 Parental leave	
2010	Note: This disclosure is also listed in 2.15 Employment practices. If the organization has identified employment practices as a material topic and has already reported this disclosure, the organization can provide a reference to this information.	
GRI 404: Training and Education 2016	Disclosure 404-1 Average hours of training per year per employee	
	Same note as above applies.	
<u>GRI 405: Diversity and</u> equal opportunity 2016	Disclosure 405-1 Diversity of governance bodies and employees	
JU-	Disclosure 405-2 Ratio of basic salary and remuneration of women to men	
<u>GRI 406: Non-</u> discrimination 2016	Disclosure 406-1 Incidents of discrimination and corrective actions taken	

# 1065 References and resources

1066 GRI 401: Employment 2016, GRI 404: Training and Education 2016, GRI 405: Diversity and equal
 1067 opportunity 2016, and GRI 406: Non-discrimination 2016 list authoritative intergovernmental
 1068 instruments and other sources relevant to reporting on this topic.

- 1069 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coalsector are listed in the Bibliography on page 81.



# 1072 2.19 Freedom of association and collective bargaining

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

1078 <u>Workers'</u> rights to organize and to take collective action are essential for improving working conditions
 1079 in the coal sector, including conditions relating to occupational health and safety, wages, and job
 1080 security. These rights can also enable public scrutiny about the sector's governance and practices,
 1081 and help reduce social inequality.

- Many jobs 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
- 1084 sectoral federations and associations. However, some coal resources are located in countries where
- 1085 these rights are restricted. Workers in such locations face risks when seeking to join trade unions and
- 1086 engage in collective bargaining. Even in countries where unions are legal, restrictions might exist that
- prevent effective worker representation, and workers who join unions may face intimidation or unfairtreatment.
- 1089 Documented cases of interference with <u>freedom of association</u> and collective bargaining include
- 1090 detention of managers and <u>employees;</u> invasion of privacy; not adhering to collective agreements;
- 1091 prevention of union access to workplaces in order to assist workers; refusal to bargain in good faith
- 1092 with workers' chosen unions; threats, harassment, forced disappearance, violence, and deaths; unfair
- dismissal of trade union members and leaders; and unilateral cancellation of collective bargaining
   agreements.
- 1095 Contract workers, who are widely used in these sectors, are often excluded from the scope of
- collective bargaining agreements, which can leave them with reduced <u>benefits</u> and worse working
   conditions (see also topic 2.15 Employment practices).

1098	Freedom of association and civic space
1099 1100 1101 1102 1103 1104	Freedom of association and peaceful assembly are fundamental <u>human rights</u> . These rights entail that both workers, through their trade unions, as well as citizens, through independent civil society, have the freedom to speak about the sector's policies and organizations' practices without interference. Restrictions imposed on civic space – the environment that enables civil society to contribute to decisions that affect individual lives – can limit citizens' ability to engage in public debate about the sector's policies and organizations' practices.
	EXPOSE



## **What to report**

I 106 If the organization has identified freedom of association and collective bargaining as a <u>material topic</u>, 1107 this section lists the disclosures that have been identified as relevant for reporting on the topic by the 108 coal sector.

Standard Disclosure Additional sector recommendations Management of the topic **GRI 3: Material Topics Disclosure 3-3 Management of** 2021 material topics **Topic Standards disclosures GRI 407: Freedom of** Disclosure 407-1 Operations and suppliers in which the right to **Association and Collective Bargaining 2016** freedom of association and collective bargaining may be at risk

### 1109 References and resources

III0 <u>GRI 407: Freedom of Association and Collective Bargaining 2016</u> lists authoritative intergovernmental

IIII instruments and other sources relevant to reporting on this topic.

1112 The additional intergovernmental instruments and references used to develop this topic description as

well as further resources that may be helpful for understanding and reporting on the topic by the coal

sector are listed in the Bibliography on page 81.



# 1115 2.20 Anti-corruption

Anti-corruption refers to how an organization manages the potential of being involved in

corruption. Corruption refers to practices such as bribery, facilitation payments, fraud,

extortion, collusion, money laundering, and the offer or receipt of an inducement to do

something that is dishonest or illegal. This topic covers impacts related to corruption and

expectations of organizations in relation to contract and ownership transparency.

**Corruption** in the coal sector has been linked to various negative <u>impacts</u>, such as misallocation of

1122 resource revenues, damage to the environment, abuse of democracy and <u>human rights</u>, and political 1123 instability. Corruption can lead to diversion of resource revenues from public needs, such as

infrastructure or basic services, which can have severe impacts, especially in countries with high

1125 levels of poverty. This can lead to increased inequalities and conflicts over coal resources.

Factors increasing the likelihood of involvement with corruption include frequent interaction between

coal organizations and politically exposed persons, such as government officials appointed to govern

a country's natural resources for licenses and other regulations. The sector's international reach along

- with complex transactions and flows of money can further enable corruption.
- I I 30 Corruption in the coal sector can occur throughout the <u>value chain</u>, with practices that aim to:
- influencing decision-making processes in order to extract resources;
- shaping policies and rules; or influencing protection of land rights and land access restrictions affecting livelihoods of <u>local communities</u> and <u>indigenous peoples</u>;
- II34 gaining preferential terms or license approvals;
- gaining favorable treatment or confidential information in the bidding process for exploration and production rights; or for avoiding specific requirements, potentially resulting in awarding licenses or contracts to less qualified organizations or securing contracts at inflated prices;
- influencing or avoiding environmental, social, and other regulations and enforcement of these, as they relate to impact assessment processes or consultation with local communities;
- incentivizing <u>suppliers</u> 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;
- gaining 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;
- blocking unfavorable legislation, including environmental policies or pollution taxes (see also topic
   2.22 Public policy and lobbying).

1147 To combat corruption and prevent the negative impacts that stem from it, organizations are expected 1148 by the marketplace, international norms, and <u>stakeholders</u> to demonstrate their adherence to integrity, 1149 governance, and responsible business practices.

- Transparency of contracts and ownership structures 1150 Publication of government contracts is a growing practice that is now an international norm in the 1151 extractive industries. The practice is endorsed by organizations such as the United Nations, 1152 1153 International Monetary Fund, International Finance Corporation, International Bar Association, and the 1154 Organisation for Economic Co-operation and Development (OECD). 1155 Contracts governing the extraction of oil and gas resources are commonly devised by governments 1156 and organizations on behalf of citizens or local communities without public oversight. Due to the long-1157 term horizons and widespread impacts of projects, fair terms for sharing risk and rewarding benefits, 1158 including those related to a just transition, are particularly important. Contract transparency helps local 1159 communities hold governments and organizations accountable for their negotiated terms and obligations. It also helps create a level playing field that enables governments to negotiate for better 1160 1161 deals. 1162 Lack of transparency about ownership structures can make it difficult to determine who benefits from financial transactions in the sector. Beneficial ownership transparency has been identified as a 1163
- II64 significant opportunity to deter conflicts of interest, corruption, tax avoidance and evasion.



## **What to report**

I 166 If the organization has identified anti-corruption as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the topic			
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics		
Topic Standards disclosures			
<u>GRI 205: Anti-</u> corruption 2016	Disclosure 205-1 Operations assessed for risks related to corruption	con	
	Disclosure 205-2 Communication and training about anti-corruption policies and procedures	10 <sup>11</sup> C	
	Disclosure 205-3 Confirmed incidents of corruption and actions taken		
Additional sector disclosures			
Describe the organization's policy on contract transparency and provide a link to publicly available contracts and licenses.			
If a contract or a license is not publicly available, explain the reasons why and report any actions taken by the organization to overcome any barriers to publication.			
Note: This disclosure in based on EITI Standard 2019, Requirement 2.4.Contracts.			
List the beneficial owners within the organization's structure and explain how the organization identifies the beneficial owners of <u>business partners</u> , including joint ventures and <u>suppliers</u> .			

Note: This disclosure in based on EITI Standard 2019, Requirement 2.5. Beneficial ownership c. and f.

# **References and resources**

- 1169 GRI 205: Anti-corruption 2016 lists authoritative intergovernmental instruments and other sources
- 1170 relevant to reporting on this topic.
- 1171 The additional intergovernmental instruments and references used to develop this topic description as
- well as further resources that may be helpful for understanding and reporting on the topic by the coal
- 1173 sector are listed in the Bibliography on page 82.



# 1174 2.21 Payments to governments

Lack of transparency about payments to governments can contribute to inefficient

management of public funds, illicit financial flows, and corruption. This topic covers impacts
 from an organization's practices related to payments to governments, and expectations of
 organizations in relation to transparency regarding such payments.

Organizations in the coal sector deal with a large number of complex financial transactions subject to
 a variety of payments to governments. These include taxes; commodity trading revenues; production
 rights; royalties; signature, discovery, and production bonuses; and other payments.

1182 Transparency about payments to governments can demonstrate the economic importance of the coal

- 1183 sector to the host countries, and enable informed decision-making and public debate. Insufficient
- transparency of these payments can impede detection of misallocation of revenues and <u>corruption</u>
- 1185 (see also topic 2.20 Anti-corruption). In the absence of contract transparency, transparency about
- 1186 taxes and other payments can offer valuable insights into the terms of contracts and can help 1187 governments increase their accountability and strengthen revenue collection and management.

1188 Taxes, royalties, and other payments from organizations in the coal sector can amount to an

- 1189 important source of investment and income for local communities, countries, and regions (see also
- 1190 topic 2.15 Economic impacts). Coal organizations are often subject to paying royalties, along with
- 1191 widely applicable taxes and payments to governments, for using natural resources. Royalties are
- obligations to governments that are not based on corporate profits, but rather on amounts of the
- commodity extracted. They are designed to guarantee governments an income from the non-
- renewable resource that is protected from transfer pricing and other mechanisms used by
- 1195 organizations to minimize taxes. At the same time, the sector receives substantial subsidies from 1196 governments in many countries, even despite government commitments to phase out financial
- 1197 support by 2018.<sup>22</sup> Transparency about the subsidies received can be of great value interest to some
- 1198 stakeholders, such as investors or civil society.

When disclosing information on payments to governments, organizations in the coal sector may 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 coal 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

1206 playing field for governments when negotiating contracts.

# 1207 State-owned enterprises

1208In some countries – China and India being notable examples – the largest producers of coal are state-<br/>owned enterprises (SOEs). As direct customers, SOEs are also highly relevant for the sector. Of all<br/>power plants burning coal, 40% belong to SOEs; the figure rises to 56% if joint ventures are included.

SOEs often have special status, which can involve financial advantages and preferential treatment.
 By disclosing their transactions with SOEs, organizations in this sector can increase transparency
 about payments to governments and help reduce risks of corruption.

<sup>22</sup> In the European Union, subsidies to coal producers added up to €9.7 billion in 2012 (<u>M. Blom et al., 'Subsidies and Costs of</u> <u>EU Energy'</u>, 2014), and remained at similar levels in the following years (see S. Whitley et al.; Overseas Development Institute (ODI), '<u>Cutting Europe's Lifelines to Coal: Tracking Subsidies in 10 Countries</u>', 2017).



#### What to report 1214

- If the organization has identified payments to governments as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the topic by the coal sector. 1215
- 1216

Standard	Disclosure	Additional sector recommendations		
Management of the topic				
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics			
Topic Standards disc	Topic Standards disclosures			
GRI 201: Economic Performance 2016	Disclosure 201-1 Direct economic value generated and distributed			
	Note: This disclosure is also listed in 2.8 Economic impacts. If the organization has identified economic impacts as a material topic and has already reported this disclosure, the organization can provide a reference to this information.			
	Disclosure 201-4 Financial assistance received from government	For state-owned organizations, report the financial relationship between the government and the SOE.		
	NOT	<i>Note: This disclosure is based on EITI Standard 2019 Requirement 2.6 State participation.</i>		
<u>GRI 207: Tax 2019</u>	Disclosure 207-1 Approach to tax			
	Disclosure 207-2 Tax governance, control, and risk management			
,0051	Disclosure 207-3 Stakeholder engagement and management of concerns related to tax			
K+*	Disclosure 207-4 Country-by-country reporting			



## Additional sector disclosures

Report a breakdown of taxes and other payments to governments by revenue stream and project.

Note: This disclosure is based on EITI Standard 2019 Requirement 4.1 Comprehensive disclosure of taxes and revenues and requirement 4.7. Level of disaggregation.

For coal purchased from the state, or from third parties appointed by the state to sell on their behalf, report:

- the volumes and types of coal purchased;
- the full names of the buying entity and of the recipient of the payment;
- the value of payments made for the purchase. \_

Note: This disclosure is based on EITI Standard 2019 Requirement 4.2 Sale of the state's share of production or other revenues collected in kind and EITI Reporting Guidelines for companies buying oil, gas and minerals from governments.

#### 1217 **References and resources**

GRI 201: Economic Performance 2016 and GRI 207: Tax 2019 list authoritative intergovernmental 1218

- 1219 instruments and other sources relevant to reporting on this topic.
- 1220 The additional intergovernmental instruments and references used to develop this topic description as
- in stan well as further resources that may be helpful for understanding and reporting on the topic by the coal 1221
- 1222

# 1223 2.22 Public policy and lobbying

An organization can participate in public policy development, directly or through an
 intermediary organization, by means of lobbying and making financial or in-kind contributions
 to political parties, politicians, or causes. This topic covers an organization's approach to
 public policy participation, and the impacts that can result from the influence an organization
 exerts in such participation.

Lobbying by the coal sector can result in long-lasting <u>impacts</u> on the economy, environment, and people, including local communities. In regions where coal generates significant revenue for

governments, organizations in the sector can have undue influence over public policy discussions.
 Documented cases show how the sector has habitually donated to political parties whose policies

- 1233 favor corporate agendas, or to gain special access to politicians.
- 1234 The coal sector has actively lobbied against ambitious climate policies. These lobbying activities may 1235 aim to safeguard existing jobs and the livelihoods of coal-mining areas, but also to prevent meaningful
- 1236 carbon pricing, carbon budgets, or other actions to reduce <u>GHG emissions</u> that could leave coal
- assets or resources stranded. These activities sometimes contradict with publicly stated positions that
- 1238 support policies addressing climate change (see also topic 2.1 Climate adaptation and resilience).
- 1239 Other lobbying activities by the sector include hindering environmental policies; blocking or amending
- 1240 legislation on environmental and social assessments of projects or fair participation of all
- 1241 <u>stakeholders;</u> overturning restrictions on resource development; and supporting the lowering of
- I 242 corporate taxes and resource royalties.
- 1243 Lobbying can also be used to gain or retain government subsidies, which can result in commodity

1244 prices that do not reflect the full environmental or social costs of products, and impede the low-carbon

1245 transition. This can consequently hinder <u>sustainable development</u> in numerous ways, including by

- 1246 reducing or inefficiently allocating available national resources, increasing dependence on fossil fuels,
- 1247 and discouraging investment in <u>renewable energy sources</u> and energy efficiency.

# 1248 What to report

1249 If the organization has identified public policy and lobbying as a <u>material topic</u>, this section lists the 1250 disclosures that have been identified as relevant for reporting on the topic by the coal sector.

Standard	Disclosure	Additional sector recommendations	
Management of the topic			
GRI 3: Material Topics 2021	Disclosure 3-3 Management of material topics	<ul> <li>Report any significant issues that the organization focuses on when participating in public policy development and lobbying.</li> </ul>	
Et?		<ul> <li>Report the organization's stance on these issues as well as differences between lobbying positions and the stated policies, goals, or other public positions.</li> </ul>	
Topic Standards disclosures			
GRI 415: Public Policy 2016	Disclosure 415-1 Political contributions		



#### 1251 **References and resources**

GRI 415: Public Policy 2016 lists authoritative intergovernmental instruments and other sources 1252

relevant to reporting on this topic. The additional intergovernmental instruments and references used 1253 end to develop this topic description as well as further resources that may be helpful for understanding 1254

1255 and reporting on the topic by the coal sector are listed in the Bibliography on page 83.

GSS

# Glossary

Please note: The glossary terms listed below are not part of the public comment review and are included to aid the review of this Standard.

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

The definitions included in this glossary may 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 in the complete *GRI Standards Glossary*, definitions that are commonly used and understood apply.

### anti-competitive behavior

action of the organization or <u>employees</u> 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, <u>suppliers</u>, geographic areas, and product lines.

## 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.

### area protected

area that is protected from any harm during operational activities, and where the environment remains in its original state with a healthy and functioning ecosystem

### area restored

area that was used during or affected by operational activities, and where <u>remediation</u> measures have either restored the environment to its original state, or to a state where it has a healthy and functioning ecosystem

## 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 <u>employee</u> for performing his or her duties, excluding any additional <u>remuneration</u>, 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 <u>employee</u>

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 partner



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

Source: Shift and Mazars LLP, UN Guiding Principles Reporting Framework, 2015; modified

Examples: affiliates, business-to-business customers, clients, first-tier <u>suppliers</u>, franchisees, joint venture partners, investee companies in which the organization has a shareholding position

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

#### business relationships

relationships that the organization has with <u>business partners</u>, with entities in its <u>value chain</u> including those beyond the first tier, and with any other entities directly linked to its operations, products, or services

Source: United Nations (UN), *Guiding Principles on Business and Human Rights: Implementing the United Nations "Protect, Respect and Remedy" Framework*, 2011; modified

Note: Examples of other entities directly linked to the organization's operations, products, or services are a non-governmental organization with which the organization delivers support to a <u>local</u> <u>community</u>, or state security forces that protect the organization's facilities.

#### carbon dioxide (CO2) equivalent

measure used to compare the emissions from various types of <u>greenhouse gas (GHG)</u> based on their <u>global warming potential (GWP)</u>

Note: The CO2 equivalent for a gas is determined by multiplying the metric tons of the gas by the associated GWP.

#### 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 <u>workers</u>.

Note 2: The ILO Convention 138, 'Minimum Age Convention', 1973, refers to both child labor and young workers.

### collective bargaining

all negotiations which take place between one or more employers or employers' organizations, on the one hand, and one or more workers' organizations (trade unions), on the other, for determining working conditions and terms of employment or for regulating relations between employers and workers

Note 1: Collective agreements can be at the level of the organization; at the industry level, in countries where that is the practice; or at both.

Note 2: Collective agreements can cover specific groups of workers; for example, those performing a specific activity or working at a specific location.

Note 3: This definition is based on the International Labour Organization (ILO) Convention 154, 'Collective Bargaining Convention', 1981.

### community development program

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

### corruption



'abuse of entrusted power for private gain',<sup>23</sup> which can be instigated by individuals or organizations

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.<sup>24</sup> 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.

## direct (Scope 1) GHG emissions

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

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

Note 2: Direct (Scope 1) GHG emissions can include the CO2 emissions from fuel consumption.

### 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

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 towards whom they are addressed.

#### disposal

any operation which is not <u>recovery</u>, even where the operation has as a secondary consequence the recovery of energy

Note 1: Disposal is the end-of-life management of discarded products, materials, and resources in a sink or through a chemical or thermal transformation that makes these products, materials, and resources unavailable for further use.

Note 2: This definition comes from the European Union (EU), Waste Framework Directive, 2008 (Directive 2008/98/EC).

### effluent

treated or untreated wastewater that is discharged

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

### employee

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

Note: This information is derived from the organization's own human resources system.

## energy indirect (Scope 2) GHG emissions

<u>GHG</u> emissions that result from the generation of purchased or acquired electricity, heating, cooling, and steam consumed by an organization

### exposure

<sup>&</sup>lt;sup>24</sup> These definitions are based on Transparency International, 'Business Principles for Countering Bribery', 2011.



<sup>&</sup>lt;sup>23</sup> Transparency International

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 <u>injury or ill health</u> (e.g., chemicals, radiation, high pressure, noise, fire, explosives)

### 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 <u>workers</u> 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 Labour Convention', 1930.

### freedom of association

right of employers and <u>workers</u> 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 the World Health Organization (WHO), Guidelines for Drinking-water Quality, 2017.

## global warming potential (GWP)

value describing the radiative forcing impact of one unit of a given <u>GHG</u> relative to one unit of CO<sub>2</sub> over a given period of time

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

### governance body

committee or board responsible for the strategic guidance of the organization, the effective monitoring of management, and the accountability of management to the broader organization and its <u>stakeholders</u>

## greenhouse gas (GHG)

gas that contributes to the greenhouse effect by absorbing infrared radiation

### grievance mechanism

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

Source: United Nations (UN), *Guiding Principles on Business and Human Rights: Implementing the United Nations "Protect, Respect and Remedy" Framework*, 2011; modified

Note: See <u>Guidance to Disclosure 2-25 in *GRI 2: General Disclosures 2021* for more information on 'grievance mechanism'.</u>

### groundwater

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

Note: This definition comes from ISO 14046:2014.

### highest governance body

governance body with the highest authority in the organization



Note: In some jurisdictions, governance systems consist of two tiers, where supervision and management are separated or where local law provides for a supervisory board drawn from non-executives to oversee an executive management board. In such cases, both tiers are included under the definition of highest governance body.

### human rights

rights inherent to all human beings, which include, at a minimum, the rights set out in the *United Nations (UN) International Bill of Human Rights* and the principles concerning fundamental rights set out in the *International Labour Organization (ILO) Declaration on Fundamental Principles and Rights at Work* 

Source: United Nations (UN), Guiding Principles on Business and Human Rights: Implementing the United Nations "Protect, Respect and Remedy" Framework, 2011; modified

Note: See <u>Guidance to 2-23-b-i in *GRI 2: General Disclosures 2021* for more information on 'human rights'.</u>

### impact

effect the organization has or could have on the economy, environment, and people, including on their <u>human rights</u>, which in turn can indicate its contribution (negative or positive) to <u>sustainable</u> <u>development</u>

Note 1: Impacts can be actual or potential, negative or positive, short-term or long-term, intended or unintended, and reversible or irreversible.

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

### 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) Convention 169, 'Indigenous and Tribal Peoples Convention', 1989.

### 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

individuals or groups of individuals living or working in areas that are affected or that could be affected by the organization's activities

Note: The local community can range from those living adjacent to the organization's operations to those living at a distance.

### material topics

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



Note: See <u>section 2.2 in *GRI 1: Foundation 2021*</u> and <u>section 1 in *GRI 3: Material Topics 2021*</u> for more information on 'material topics'.

### mitigation

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

Note: The mitigation of an actual negative impact refers to actions taken to reduce the <u>severity</u> of the negative impact that has occurred, with any residual impact needing <u>remediation</u>. The mitigation of a potential negative impact refers to actions taken to reduce the likelihood of the negative impact occurring.

Source: United Nations (UN), *The Corporate Responsibility to Respect Human Rights: An Interpretive Guide*, 2012; modified

## 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.

#### operation with significant actual or potential negative impacts on local communities

an operation, considered alone or in combination with the characteristics of <u>local communities</u>, that has a higher than average potential of negative <u>impacts</u>, 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 <u>GHG</u> emissions not included in <u>energy indirect (Scope 2) GHG emissions</u> 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

preparation for reuse

checking, cleaning, or repairing operations, by which products or components of products that have become waste are prepared to be put to use for the same purpose for which they were conceived

Note: This definition is based on the European Union (EU), Waste Framework Directive, 2008 (Directive 2008/98/EC).

### remedy / remediation

means to counteract or make good a negative impact / provision of remedy

Examples: apologies, restitution, restoration, rehabilitation, financial or non-financial compensation, and punitive sanctions (whether criminal or administrative, such as fines), prevention of harm through injunctions or guarantees of non-repetition

Source: United Nations (UN), *The Corporate Responsibility to Respect Human Rights: An Interpretive Guide*, 2012; modified

#### recycling

reprocessing of products or components of products that have become waste, to make new materials

Note: This definition is based on the United Nations Environment Programme (UNEP), Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, 1989.

#### 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. men

#### reporting period

specific time period covered by the reported information

Examples: fiscal year, calendar year

#### Scope of GHG emissions

classification of the operational boundaries where GHG emissions occur

Note I: Scope classifies whether GHG emissions are created by an organization itself, or are created by other related organizations, for example electricity suppliers or logistics companies.

Note 2: There are three classifications of Scope: Scope 1, Scope 2 and Scope 3.

Note 3: The classification of Scope derives from the World Resources Institute (WRI) and World Business Council for Sustainable Development (WBCSD), 'GHG Protocol Corporate Accounting and Reporting Standard', Revised Edition, 2004.

## security personnel

individuals employed for the purposes of guarding property of the organization; crowd control; loss prevention; and escorting persons, goods, and valuables

#### senior executive

high-ranking member of the management of the organization, such as the Chief Executive Officer (CEO) or an individual reporting directly to the CEO or the highest governance body

#### 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.

### severity (of an impact)

The severity of an actual or potential negative impact is determined by its scale (i.e., how grave the impact is), scope (i.e., how widespread the impact is), and irremediable character (how hard it is to counteract or make good the resulting harm).

Source: United Nations (UN), The Corporate Responsibility to Respect Human Rights: An Interpretive Guide, 2012; and the Organisation for Economic Co-operation and Development (OECD), OECD Due Diligence Guidance for Responsible Business Conduct, 2018; modified

Note: See section 1 in GRI 3: Material Topics 2021 for more information on 'severity'

### 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.

### spill

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

### stakeholder

individual or group that has an interest that is affected or could be affected by the organization's activities

Source: Organisation for Economic Co-operation and Development (OECD), OECD Due Diligence Guidance for Responsible Business Conduct, 2018; modified

Examples: <u>business partners</u>, civil society organizations, consumers, customers, <u>employees</u> and other <u>workers</u>, governments, <u>local communities</u>, non-governmental organizations, shareholders and other investors, <u>suppliers</u>, trade unions, <u>vulnerable groups</u>

Note: See section 2.4 in GRI 1: Foundation 2021 for more information on 'stakeholder'.

### supplier

entity upstream from the organization (i.e., in the organization's <u>supply chain</u>), which provides a product or service that is used in the development of the organization's own products or services

Examples: brokers, consultants, contractors, distributors, franchisees, home <u>workers</u>, independent contractors, licensees, manufacturers, primary producers, sub-contractors, wholesalers

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

### supply chain

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

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

Source: World Commission on Environment and Development, Our Common Future, 1987

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

### value chain

range of activities carried out by the organization, and by entities upstream and downstream from the organization, to bring the organization's products or services from their conception to their end use

Note 1: Entities upstream from the organization (e.g., <u>suppliers</u>) provide products or services that are used in the development of the organization's own products or services. Entities downstream from the organization (e.g., distributors, customers) receive products or services from the organization.

Note 2: The value chain includes the supply chain.

### vulnerable group



group of individuals with a specific condition or characteristic (e.g., economic, physical, political, social) that could experience negative <u>impacts</u> as a result of the organization's activities more <u>severely</u> than the general population

Examples: <u>children</u> and youth; elderly persons; ex-combatants; HIV/AIDS-affected households; <u>human rights</u> defenders; <u>indigenous peoples</u>; internally displaced persons; migrant <u>workers</u> and their families; national or ethnic, religious and linguistic minorities; persons who might be discriminated against based on their sexual orientation, gender identity, gender expression, or sex characteristics (e.g., lesbian, gay, bisexual, transgender, intersex); persons with disabilities; refugees or returning refugees; women

Note: Vulnerabilities and impacts can differ by gender.

### waste

anything that the holder discards, intends to discard, or is required to discard

Note 1: Waste can be defined according to the national legislation at the point of generation.

Note 2: A holder can be the reporting organization, an entity in the organization's <u>value chain</u> upstream or downstream (e.g., <u>supplier</u> or consumer), or a waste management organization, among others.

Note 3: This definition is based on the United Nations Environment Programme (UNEP), Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal, 1989.

## waste disposal method

method by which waste is treated or disposed of

Note: Waste disposal methods can include composting, reuse, recycling, recovery, incineration, landfill, deep well injection, and on-site storage.

### 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 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.

## worker

person that performs work for the organization

Examples: <u>employees</u>, apprentices, interns, self-employed persons, and persons working for organizations other than the reporting organization, such as for <u>suppliers</u>



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

### 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).

Note 2: This definition is based on International Labour Organization (ILO) Guidelines on Occupational Safety and Health Management Systems from 2001 and ISO 45001:2018.

### work-related incident

occurrence arising out of or in the course of work that could or does result in injury or ill health

Note 1: This definition is based on ISO 45001:2018.

Note 2: Incidents might be due to, for example, electrical problems, explosion, fire; overflow, overturning, leakage, flow; breakage, bursting, splitting; loss of control, slipping, stumbling and falling; body movement without stress; body movement under/with stress; shock, fright; workplace violence or harassment (e.g., sexual harassment).

Note 3: An incident that results in injury or ill health is often referred to as an 'accident'. An incident that has the potential to result in injury or ill health but where none occurs is often referred to as a 'close call', 'near-miss', or 'near-hit'.

work-related injury or ill health

negative impacts on health arising from exposure to hazards at work

Note 1: This definition is based on the International Labour Organization (ILO), Guidelines on Occupational Safety and Health Management Systems, ILO-OSH 2001, 2001.

Note 2: 'Ill health' indicates damage to health and includes diseases, illnesses, and disorders. The terms 'disease', 'illness', and 'disorder' are often used interchangeably and refer to conditions with specific symptoms and diagnoses.

Note 3: Work-related injuries and ill health are those that arise from exposure to hazards at work. Other types of incident can occur that are not connected with the work itself. For example, the following incidents are not considered to be work related:

a worker suffers a heart attack while at work that is unconnected with work;

• a worker driving to or from work is injured in a car accident (where driving is not part of the work, and where the transport has not been organized by the employer);

a worker with epilepsy has a seizure at work that is unconnected with work.

Note 4: Traveling for work: Injuries and ill health that occur while a worker is traveling are work related if, at the time of the injury or ill health, the worker was engaged in work activities 'in the interest of the employer'. Examples of such activities include traveling to and from customer contacts; conducting job tasks; and entertaining or being entertained to transact, discuss, or promote business (at the direction of the employer).

Working at home: Injuries and ill health that occur when working at home are work related if the injury or ill health occurs while the worker is performing work at home, and the injury or ill health is directly related to the performance of work rather than the general home environment or setting.



Mental illness: A mental illness is considered to be work related if it has been notified voluntarily by the worker and is supported by an opinion from a licensed healthcare professional with appropriate training and experience stating that the illness is work related.

For more guidance on determining 'work-relatedness', see the United States Occupational Safety and Health Administration, Determination of work-relatedness 1904.5, https://www.osha.gov/pls/ oshaweb/owadisp.show\_document?p\_table=STANDARDS&p\_id=9636, accessed on 1 June 2018.

Note 5: The terms 'occupational' and 'work-related' are often used interchangeably.

201 Exposure dratt for public comment



# 1256 **Bibliography**

In addition to the authoritative intergovernmental instruments and other sources listed in GRI TopicStandards, the following have been used in developing the content of this Sector Standard.

# 1259 Sector Profile

## 1260 Authoritative instruments

- 1261 1. Intergovernmental Panel on Climate Change (IPCC), *Global Warming of 1.5*°C, 2018.
- 1262 2. United Nations Framework Convention on Climate Change (UNFCC), Paris Agreement, 2015.

## 1263 Other sources

- 1264
   1265
   3. Britannica, Coal, Fossil fuel, britannica.com/science/coal-fossil-fuel#ref259096, accessed 6 November 2020
- Energy Information Administration (EIA), How much carbon dioxide is produced per kilowatthour of U.S. electricity generation?, eia.gov/tools/faqs/faq.php?id=74&t=11, accessed on 5 April 2021.
- 12695.International Energy Agency (IEA), Coal 2019, iea.org/reports/coal-2019, accessed on 5 April<br/>2021.
- 1271 6. International Energy Agency (IEA), Coal Information: Overview, iea.org/reports/coalinformation-overview, accessed on 5 April 2021.
- 1273 7. International Energy Agency (IEA), World Energy Outlook 2020, https://www.iea.org/reports/world-energy-outlook-2020, accessed 5 April 2021.
- 1275 8. International Institute for Sustainable Development (IISD), State-Owned Companies
   1276 Transitioning Away From Coal, Mining and Coal-Fired Power, 2018.
- 1277 9. Organisation for Economic Co-operation and Development (OECD) and International Energy
   1278 Agency (IEA), OECD Green Growth Studies: Energy, 2011.
- 1279 10. Organisation for Economic Co-operation and Development (OECD), Arrangement on officially supported export credits, 2020.
- 128111. O. Sartor, Institut du développement durable et des relations internationals (IDDRI) and1282Climate Strategies, Implementing coal transitions: Insights from case studies of major coal-1283consuming economies, 2018.
  - 12. M. Jakob et al., The Future of Coal in a Carbon-Constrained Climate *Nature Climate Change,* vol. 10, nr. 8, pp. 704–7, August 2020, doi.org/10.1038/s41558-020-0866-1.
- 128613. P. Friedlingstein et al., 'Global Carbon Budget 2019', Earth System Science Data, vol.11, nr.12874, pp.1783–18384, 4 December 2019, doi.org/10.5194/essd-11-1783-2019.
- 1288 14. Reuters, Coal India output falls for third straight month on tepid demand,
   1289 reuters.com/article/coal-india-output/coal-india-output-falls-for-third-straight-month-on-tepid 1290 demand-idINKBN2426N4, accessed on 5 April 2021.
- 1291 15. United Nations Environment Programme (UNEP), *Emissions Gap Report 2019*, 2019.
- 1292 16. United Nations Principles for Responsible Investment (UNPRI), Phasing out investments in 1293 thermal coal, unpri.org/climate-change/phasing-out-investments-in-thermal-coal/3281.article, 1294 accessed on 5 April 2021.
- 1295 17. World Economic Forum (WEF), Chart of the day: Is 2019 the beginning of the end for coal in Europe?, weforum.org/agenda/2019/07/coal-generation-production-europe-2019-fall-renewable-lignite/, accessed on 5 April 2021.



1284

1285

 1298 18. World Economic Forum (WEF), These are the world's biggest coal producers, 1299 https://www.weforum.org/agenda/2018/01/these-are-the-worlds-biggest-coal-producers/, 1300 accessed on 5 April 2021.

## **Climate adaptation and resilience**

## Authoritative instruments

- 130319. Intergovernmental Panel on Climate Change (IPCC), Climate Change 2014: Mitigation of Climate Change, 2014.
- 1305 20. Intergovernmental Panel on Climate Change (IPCC), 2014: Climate Change 2014: Impacts, Adaptation, and Vulnerability, 2014.
- 1307 21. Intergovernmental Panel on Climate Change (IPCC), Global Warming of 1.5°C, 2018.

## 1308 Other sources

1313

1314

1315

1316

1317

1318 1319

1320

1321

1322

1323

1324 1325

1326

1331

1332 1333

1334

1335

1336 1337

1338

- 1309 22. Carbon Tracker Initiative, Carbon Budgets Explainer, 2018.
- 1310 23. Carbon Tracker, Unburnable Carbon: Are the World's Financial Markets Carrying a Carbon
  1311 Bubble?, 2011.
  1312 24. A. Dagnachew, A. Hof, et al., Insight into Energy Scenarios: A comparison of key transition
  - 24. A. Dagnachew, A. Hof, et al., *Insight into Energy Scenarios: A comparison of key transition indicators of 2°C scenarios*, 2019.
    - 25. International Energy Agency (IEA), Coal Information: Overview, iea.org/reports/coalinformation-overview, accessed on 5 April 2021.
  - 26. International Energy Agency (IEA), World Energy Outlook 2018, 2018.
  - 27. International Energy Agency (IEA), World Energy Outlook 2019, 2019.
  - 28. J. G. J. Olivier and J. A. H. W. Peters, *Trends in global CO2 and total greenhouse gas emissions: 2019 Report*, 2020.
    - 29. Organisation for Economic Co-operation and Development (OECD), International Energy Agency (IEA), OECD Green Growth Studies: Energy, 2011.
  - 30. Organisation for Economic Co-operation and Development (OECD), *Monitoring the transition to a low-carbon economy: a strategic approach to local development*, 2015.
  - M. F. Rahman, M. Mostofa, and S. Huq, 'Low-Carbon Futures in Least-Developed Countries', wri.org/climate/expert-perspective/low-carbon-futures-least-developed-countries, accessed on 5 April 2021.
- 1327 32. O. Sartor, Institut du développement durable et des relations internationals (IDDRI) and
  1328 Climate Strategies, *Implementing coal transitions: Insights from case studies of major coal-*1329 consuming economies, 2018.
  1330 33. E. Stuart, 'Leaving No One Behind in Sustainable Development Pathways'.
  - E. Stuart, 'Leaving No One Behind in Sustainable Development Pathways', wri.org/climate/expert-perspective/leaving-no-one-behind-sustainable-development-pathways, accessed on 5 April 2021.
  - 34. Task Force on Climate-Related Financial Disclosure (TCFD), *Recommendations of the Task Force on Climate-related Financial Disclosure*, 2017.
  - 35. Task Force on Climate-Related Financial Disclosure (TCFD), The Use of Scenario Analysis in Disclosure of Climate-Related Risks and Opportunities, 2017.
  - 36. University of Cambridge, Climate change: Action, trends and implications for business: The IPCC's Fifth Assessment Report, Working Group 1,2013.

## 1339 Further resources

- 1340 The following resources may help organizations in the coal sector report on this topic:
- 1341 37. International Finance Corporation (IFC), *Good Practice Note: Managing Retrenchment*, 2005.
- 1342 38. Transition Pathway Initiative (TPI), *Methodology and Indicators Report*, 2019.
- 1343 39. World Resources Institute (WRI), A Recommended Methodology for Estimating and
- 1344Reporting the Potential Greenhouse Gas Emissions from Fossil Fuel Reserves, 2016.

## I345 GHG emissions

## **Authoritative instruments**



- Intergovernmental Panel on Climate Change (IPCC), *Climate Change 2007: The Physical Science Basis*, 2007.
- 1349
   1350
   2. Intergovernmental Panel on Climate Change (IPCC), *Climate Change 2014: Synthesis Report*, 2014.
  - 3. Intergovernmental Panel on Climate Change (IPCC), *Good Practice Guidance and Uncertainty Management in National Greenhouse Gas Inventories*, 2001.

## 1353 Other sources

1351

1352

1359 1360

- 1354 4. International Energy Agency (IEA), CO<sub>2</sub> Emissions from Fuel Combustion Highlights, 2019.
- 13555. International Energy Agency (IEA), Energy Efficiency 2018: Analysis and Outlooks to 2040,<br/>2018.13562018.
- International Energy Agency (IEA), Methane Tracker, iea.org/reports/methane-tracker, accessed on 31 May 2020.
  - 7. International Finance Corporation (IFC), Environmental, Health, and Safety Guidelines for Mining, 2007.
- United Nations Framework Convention on Climate Change (UNFCCC), What do adaptation to climate change and climate resilience mean?, 2020, unfccc.int/topics/adaptation-and-resilience/the-big-picture/what-do-adaptation-to-climate-change-and-climate-resilience-mean, accessed on 5 April 2021.
- 1365
   9. United States Energy Information Administration (EIA), Assumptions to the Annual Energy Outlook 2019: Industrial Demand Module, 2019.
- 1367 10. United States Environmental Protection Agency (US EPA), Overview of Greenhouse Gases, epa.gov/ghgemissions/overview-greenhouse-gases#methane, accessed on 31 May 2020.
- 1369 11. World Resources Institute, Estimating and Reporting the Comparative Emissions Impacts of 1370 Products, 2019.

## 1371 Further resources

- 1372 The following resources may help organizations in the coal sector report on this topic:
- 1373 12. Carbon Brief, Methane emissions from fossil fuels 'severely underestimated', 2020, carbonbrief.org/methane-emissions-from-fossil-fuels-severely-underestimated, accessed 5
   1375 April 2021.
- 1376
   13. P. Forster, V. Ramaswamy, et al., 'Changes in Atmospheric Constituents and in Radiative Forcing', in Climate Change 2007: The Physical Science Basis, 2007.
- 1378 14. Greenhouse Gas Protocol, *Global Warming Potential Values*, 2015.

## 1379 Closure and rehabilitation

## 1380 Other sources

1381

1382 1383

1384

1389

1390 1391

1392

1393

- 15. P. D. Cameron and M. C. Stanley, Oil, Gas, and Mining: A Sourcebook for Understanding the Extractive Industries, 2017.
  - 16. International Energy Agency (IEA), World Energy Outlook 2020,
    - https://www.iea.org/reports/world-energy-outlook-2020, accessed on 5 April 2021.
- 1385
   17. United Nations (UN) Tax Committee's Subcommittee on Extractive Industries Taxation Issues for Developing Countries, *Guidance Note on the Tax Treatment of Decommissioning for the* 1387
   1388
   18. J. Watts and J. Ambrose, 'Coal industry will never recover after coronavirus pandemic, say
  - J. Watts and J. Ambrose, 'Coal industry will never recover after coronavirus pandemic, say experts', The Guardian, 17 May 2020, theguardian.com/environment/2020/may/17/coalindustry-will-never-recover-after-coronavirus-pandemic-say-experts, accessed on 5 April 2021.
  - 19. World Bank, Towards Sustainable Decommissioning and Closure of Oil Fields and Mines: A Toolkit to Assist Government Agencies, 2010.
- 1394 20. World Bank, *Managing Coal Mine Closure: Achieving a Just Transition for All*, 2018.

## 1395 Further resources

1396 The following resources may help organizations in the coal sector report on this topic:



1397 21. International Council on Mining & Metals (ICMM), *Integrated Mine Closure – Good Practice Guide*, 2<sup>nd</sup> Edition, 2019.

## 1399 Air emissions

## 1400 Other sources

1408

1409

1410

1411

1412

1428

1429

1430

1435

- 1401 22. A. Markandya and P. Wilkinson, 'Electricity Generation and Health', The Lancet, vol 370, no.
   1402 9591, pp. 979–90, 15 September 2007, doi.org/10.1016/S0140-6736(07)61253-7.
- 1403 23. International Energy Agency (IEA), Energy and Air Pollution: World Energy Outlook Special
   1404 Report, 2016.
- 1405
   1406
   1406
   1407
   24. The United Nations Economic Commission for Europe (UNECE), Air pollution, ecosystems and biodiversity, unece.org/environmental-policy/conventions/envlrtapwelcome/cross-sectoral-linkages/air
  - pollution-ecosystems-and-biodiversity.html, accessed on 5 April 2021.
  - 25. Union of Concerned Scientists, How Coal Works, ucsusa.org/resources/how-coal-works, accessed 17 October 2020.
    - 26. World Coal Association (WCA), Coal and air quality, worldcoal.org/coal-and-air-quality-0, accessed 17 October 2020.
- 1413 27. World Health Organization (WHO), Air pollution, who.int/health-topics/air-pollution, accessed
   1414 31 May 2020.
- 1415 28. World Health Organization (WHO), Air pollution and child health: Prescribing clean air, advance copy, 2018.
- 1417 29. World Health Organization (WHO), Ambient Air Pollution: A Global Assessment of Exposure and Burden of Disease, 2016.

## **Biodiversity**

## 1420 Intergovernmental instruments

- 1421 30. Intergovernmental Panel on Climate Change (IPCC), *Climate Change and Biodiversity*, 2002.
- 1422 31. Intergovernmental Panel on Climate Change (IPCC), *Climate Change and Land*, 2019.

## 1423 Other sources

- 1424 32. N. Butt, H. L. Beyer, et al., *Biodiversity Risks from Fossil Fuel Extraction*, Science, 2013.
- 1425
  1426
  1426
  1426
  1427
  33. Convention on Biological Diversity, Mainstreaming of Biodiversity into the Energy and Mining Sectors, 2018.
  1427
  34. Cross Sector Biodiversity Initiative (CSBI). A cross sector guide for implementing the
  - 34. Cross Sector Biodiversity Initiative (CSBI), A cross sector guide for implementing the *Mitigation Hierarchy*, 2015.
  - 35. M. B. J. Harfoot, D. P. Tittensor, et al., *Present and future biodiversity risks from fossil fuel exploitation*, Conservation Letters, 2018.

## 1431 Further resources

- 1432 The following resources may help organizations in the coal sector report on this topic:
- 1433 36. International Finance Corporation (IFC) Performance Standard 6: *Biodiversity Conservation* 1434 and Sustainable Management of Natural Resources, 2012.
  - 37. International Council for Mining and Metals (ICMM), International Petroleum Industry
- 1436 Environmental Conservation Association (IPIECA), Equator Principles, A cross-sector guide for implementing the Mitigation Hierarchy, 2017.
- 1438 38. Integrated Biodiversity Assessment Tool (IBAT) Alliance, Integrated Biodiversity Assessment
   1439 Tool, <u>https://www.ibat-alliance.org/</u>, accessed 5 April 2021.

## 1440 Waste

## 1441Authoritative instruments

 1442 39. European Commission, Best Available Techniques (BAT) Reference Document for the Management of Waste from Extractive Industries, 2018.



#### 1444 Other sources

- 1445 40. Alberta Energy Regulator, Tailings, aer.ca/providing-information/by-topic/tailings.html, 1446 accessed on 5 April 2021.
- 41. P. D. Cameron and M. C. Stanley, Oil, Gas, and Mining: A Sourcebook for Understanding the 1447 1448 Extractive Industries. 2017.
- 1449 42. International Finance Corporation (IFC), Environmental, Health, and Safety Guidelines for Mining, 2007. 1450
- 1451 43. C. Roche, K. Thygesen, K., E. Baker, E. (Eds.), United Nations Environment Programme 1452 (UNEP), Mine Tailings Storage: Safety Is No Accident. A UNEP Rapid Response Assessment, 2017. 1453
- 44. Union of Concerned Scientists, 'The Hidden Cost of Fossil Fuels', 2008, 1454 1455 ucsusa.org/resources/hidden-costs-fossil-fuels, accessed 5 April 2021.
- 1456 45. United Nations Development Programme (UNDP), Circular Economy Principles for NDCs and Long-term Strategies, 2019. 1457 1458
  - 46. United Nations Environment Programme (UNEP), Towards a Pollution-Free Planet, 2017.
- 1459 47. United States Environmental Protection Agency (EPA), Basic Information about Surface Coal Mining in Appalachia, epa.gov/sc-mining/basic-information-about-surface-coal-mining-1460 appalachia, accessed 5 April 2021. 1461

#### 1462 **Further resources**

- 1463 The following resources may help organizations in the coal sector report on this topic:
- 48. International Finance Corporation (IFC), Environmental, Health, and Safety Guidelines for 1464 1465 Waste Management, 2007.
- 49. United Nations Environment (UN environment), International Council for Mining and Metals 1466 (ICMM), Principles for Responsible Investment (PRI), Global Industry Standard on Tailings 1467 1468 Management, 2020.

#### Water and effluents 1469

#### 1470 Other sources

- 50. L. Allen, M. Cohen, et al., 'Fossil Fuels and Water Quality', The World's Water Volume 7: The 1471 1472 Biennial Report on Freshwater Resources, chapter 4, 2011, worldwater.org/wp-1473 content/uploads/2013/07/chapter\_4\_fossil\_fuel\_and\_water\_quality.pdf.
- 1474 51. P. D. Cameron and M. C. Stanley, Oil, Gas, and Mining: A Sourcebook for Understanding the 1475 Extractive Industries, 2017.
- 1476 52. Greenpeace, The Great Water Grab: How the Coal Industry is Deepening the Global Water 1477 Crisis. 2016.
- 53. International Energy Agency (IEA), Water Energy Nexus: Excerpt from the World Energy 1478 Outlook 2016, 2016. 1479 1480
  - 54. International Energy Agency (IEA), 'Water for Energy', World Energy Outlook 2012, 2012.
  - 55. United Nations Environment Programme (UNEP), Towards a Pollution-Free Planet, 2017.
- 56. United States Environmental Protection Agency (US EPA), Profile of the Fossil Fuel Electric 1482 1483 Power Generation Industry, 1997.

#### 1484 **Further resources**

1481

- 1485 The following resource may help organizations in the coal sector report on this topic:
- 1486 57. International Council for Mining and Metals (ICMM): Water Stewardship Framework, 2014.

#### **Economic impacts** 1487

#### 1488 Authoritative instruments

58. United Nations Office for Disaster Risk Reduction (UNISDR). Words into Action Guidelines: 1489 1490 National Disaster Risk Assessment, Special Topics, D. Direct and Indirect Economic Impact, 1491 2017.



1492 59. Organisation for Economic Co-operation and Development (OECD), OECD Principles for 1493 Private Sector Participation in Infrastructure, 2007.

#### 1494 Other sources

- 1495 60. Bill & Melinda Gates Foundation, Paper 7: Leveraging extractive industries for skills 1496 development to maximize sustainable growth and employment, 2015.
- 1497 61. Extractive Industries Transparency Initiative (EITI), Social and economic spending: The impact of the extractive industries on economic growth and social development, eiti.org/social-1498 1499 economic-spending, accessed on 5 April 2021.
- 62. International Institute for Environment and Development (IIED), Breaking New Ground: Mining, 1500 1501 Minerals and Sustainable Development, 2002.
- 1502 63. J.-F. Mercure, H. Pollitt, et al., 'Macroeconomic impacts of stranded fossil fuels assets' Nature 1503 Climate Change, vol. 8, pp. 588-593, 2018, nature.com/articles/s41558-018-0182-1, accessed on 5 April 2021. 1504
- 64. United Nations Conference on Trade and Development (UNCTAD), Extractive industries: 1505 1506 Optimizing the value retention in host countries, 2012.
- 1507 65. K. Storey, 'Fly-in/Fly-out: Implications for Community Sustainability', Sustainability, vol. 2, pp. 1161-1181, 2010. 1508

#### 1509 **Further resources**

- The following resource may help organizations in the coal sector report on this topic: 1510
- 66. Organisation for Economic Co-operation and Development (OECD), Collaborative Strategies 1511 1512 for In-Country Shared Value Creation, 2016.

#### Local communities 1513

#### 1514 Authoritative instruments

67. Organisation for Economic Co-operation and Development (OECD), Due Diligence Guidance 1515 for Meaningful Stakeholder Engagement in the Extractives Sector, 2015. 1516

#### 1517 Other sources

- 68. Cordaid, When Oil, Gas or Mining Arrives in Your Area: Practical Guide for Communities, Civil 1518 1519 Society and Local Government on the Social Aspects of Oil, Gas and Mining, 2016.
- 69. International Finance Corporation (IFC), Unlocking Opportunities for Women and Business: A 1520 Toolkit of Actions and Strategies for Oil, Gas, and Mining Companies, 2018. 1521
- 70. United Nations Environment Programme Financial Initiative (UNEP FI), Human Rights 1522 Guidance Tool for the Financial Sector, Mining and Metals, 1523 1524
  - unepfi.org/humanrightstoolkit/mining.php, accessed on 5 April 2021.
  - 71. The Advocates for Human Rights: Promoting Gender Diversity and Inclusion in the Oil, Gas, and Mining Extractive Industries, 2019.

#### **Further resources** 1527

1525 1526

1532

1533

1534

1535

1536

- 1528 The following resource may help organizations in the coal sector report on this topic:
- 72. IFC, Performance Standard 4 Community Health, Safety, and Security, 2012. 1529

#### Land and resource rights 1530

#### Authoritative instruments 1531

- 73. European Union and UN Interagency Framework Team for Preventive Action, Toolkit and Guidance for Preventing and Managing Land and Natural Resources Conflict: Land and Conflict. 2012.
  - 74. Organisation for Economic Co-operation and Development (OECD), Due Diligence Guidance for Meaningful Stakeholder Engagement in the Extractives Sector, 2015.
- Other sources 1537



- 1538 75. Avocats Sans Frontières, Human Rights Implications of Extractive Industry Activities in Uganda: A Study of the Mineral Sector in Karamoja and the Oil Refinery in Bunyoro, 2014, 1539 asf.be/wp-content/uploads/2014/09/ASF\_UG\_ExtractiveSectorHRImplications.pdf. 1540 1541
  - 76. P. D. Cameron and M. C. Stanley, Oil, Gas, and Mining: A Sourcebook for Understanding the Extractive Industries, 2017.
- 77. GRI, Land Tenure Rights: The need for greater transparency among companies worldwide, 1543 1544 2016. 1545
  - 78. Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES), Report of the Plenary of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services on the work of its seventh session, 2019.
  - 79. International Council on Mining & Metals (ICMM), Land Acquisition and Resettlement, 2015.
- 80. Pensamiento y Acción Social (PAS) and L. Turrriago, 'Caso El Hatillo: El re-asentamiento 1549 como la legalización del despoio y el acaparamiento de las tierras por el modelo extractivista'. 1550 pas.org.co/hatillo-despoio-extractivista, accessed on 5 April 2021. 1551 1552
  - 81. The Advocates for Human Rights: Promoting Gender Diversity and Inclusion in the Oil, Gas, and Mining Extractive Industries, 2019.
- 82. United Nations Environment Programme Financial Initiative (UNEP FI), Human Rights 1554 Guidance Tool for the Financial Sector, Mining and Metals, 1555 1556
  - unepfi.org/humanrightstoolkit/mining.php, accessed on 5 April 2021.
- 1557 83. United Nations Human Rights Office of the High Commissioner website, Land and Human Rights, ohchr.org/EN/Issues/LandAndHR/Pages/LandandHumanRightsIndex.aspx, accessed 1558 1559 on 5 April 2021.
- 84. F. Vanclay, 'Project-induced displacement and resettlement, from impoverishment risks to an 1560 opportunity for development?', Impact Assessment and Project Appraisal Journal, vol. 35, pp. 1561 3-21, 2017, doi: 10.1080/14615517.2017.1278671. 1562

1542

1546

1547

1548

1553

1572

1573

1584

- The following resources may help organizations in the coal sector report on this topic: 1564
- 85. International Finance Corporation (IFC), Good Practice Handbook: Land Acquisition and 1565 Resettlement (draft), 2019. 1566
- 86. International Finance Corporation (IFC), Performance Standard 5, Land Acquisition and 1567 Involuntary Resettlement, 2012. 1568
- 87. International Finance Corporation (IFC), Performance Standard 8: Cultural Heritage, 2012. 1569

#### **Rights of indigenous peoples** 1570

#### 1571 Authoritative instruments

- 88. International Labour Organization (ILO) Convention 169, 'Indigenous and Tribal Peoples Convention', 1989.
- 89. United Nations (UN) Declaration, 'United Nations Declaration on the Rights of Indigenous 1574 Peoples', 2007. 1575

- 1577 90. Amnesty International, 'Inter-American Court ruling marks key victory for indigenous peoples', 1578 2012.
- amnesty.org/en/press-releases/2012/07/ecuador-inter-american-court-ruling-marks-key-1579 1580 victory-indigenous-peoples-20, accessed on 5 April 2021.
- 91. Amnesty International, Out of sight, out of mind: Gender, indigenous rights, and energy 1581 1582 development, 2016. 1583
  - 92. A. Anongos, D. Berezhkov, et al., Pitfalls and pipelines: Indigenous peoples and extractive industries. 2012.
- 93. J. Burger, Indigenous Peoples, Extractive Industries and Human Rights, 2014. 1585
- 1586 94. European Parliament, Committee on Foreign Affairs, Report on Violation of the Rights of 1587 Indigenous Peoples in the World, Including Land Grabbing, 2018.



- 1588 95. G. Gibson, K. Yung, et al. with Lake Babine Nation and Nak'azdii Whut'en, Indigenous communities and industrial camps: Promoting healthy communities in settings of industrial change, 2017.
   1591 96. Global Witness, Defenders of the earth: Global killings of land and environmental defenders.
  - 96. Global Witness, Defenders of the earth: Global killings of land and environmental defenders in 2016, 2017.
- 1593 97. K. Herbertson, 'Momentum Builds for Gaining the Consent of Indigenous Peoples', 2010, wri.org/blog/2010/05/momentum-builds-gaining-consent-indigenous-peoples, accessed on 5
   1595 April 2021.
- 1596 98. International Finance Corporation (IFC), *Projects and People: A Handbook for Addressing* 1597 *Project Induced In-Migration*, 2009.
- 1598 99. International Labour Organization (ILO), Observation (CEACR) adopted 2018, published 108th ILC session (2019) Indigenous and Tribal Peoples Convention, 1989 (No. 169) – Venezuela, Bolivarian Republic of (Ratification: 2002), 2019, ilo.org/dyn/normlex/en/f?p=NORMLEXPUB:13100:0::NO::P13100\_COMMENT\_ID,P11110\_C OUNTRY\_ID,P11110\_COUNTRY\_NAME,P11110\_COMMENT\_YEAR:3962283,102880,Vene 2003 zuela,%20Bolivarian%20Republic%200f,2018.
- 1604 100. B. McIvor, *First Peoples Law: Essays in Canadian Law and Decolonization*, 2018.
- 1605
   101. The Advocates for Human Rights, *Promoting Gender Diversity and Inclusion in the Oil, Gas, and Mining Extractive Industries*, 2019.
- 1607 102. UN Permanent Forum on Indigenous Issues (UNPFII), Combating violence against
   1608 indigenous women and girls: article 22 of the United Nations Declaration on the Rights of
   1609 Indigenous Peoples: Report of the international expert group meeting, 2012.
- 1610
   103. UN Permanent Forum on Indigenous Issues (UNPFII), Report of the international expert group meeting on extractive industries, Indigenous Peoples' rights and corporate social responsibility, 2009.
- 1613 104. United Nations Department of Economic and Social Affairs (UN DESA), Indigenous Peoples,
   1614 Climate Change, un.org/development/desa/indigenouspeoples/climate-change.html, accessed
   1615 on 5 April 2021.
- 1616 105. United Nations Human Rights Council (HRC), Report of the Special Rapporteur on the rights of indigenous peoples, James Anaya Extractive industries and indigenous peoples, 2013.

1592

- 1619 The following resources may help organizations in the coal sector report on this topic:
- 1620 106. International Finance Corporation (IFC), *Performance Standard 7: Indigenous Peoples*, 2012.
- 1621 107. International Council on Mining & Metal (ICMM), Indigenous peoples and mining good
   1622 practice guide, 2015.

## 1623 Conflict and security

## 1624 Authoritative instruments

- 1625 108. European Union (EU) and UN Interagency Framework Team for Preventive Action, *Toolkit* 1626 and Guidance for Preventing and Managing Land and Natural Resources Conflict: Extractive
   1627 Industries and Conflict, 2012.
- 1628 109. Office of the High Commissioner for Human Rights (OHCR), Basic Principles on the Use of
   1629 Force and Firearms by Law Enforcement Officials, 1990,.
- 1630
   110. Office of the High Commissioner for Human Rights (OHCR), Code of Conduct for Law
   1631
   Enforcement Officials, 1979.
- 1632 111. Voluntary Principles on Security and Human Rights, *The Voluntary Principles on Security and Human Rights*, 2000.

- 1635 112. Institute for Human Rights and Business (IHRB), From Red to Green Flags: The Corporate
   1636 Responsibility to Respect Human Rights in High-Risk Countries, 2011.
- 1637 113. K. Neu, and D., Avant, Overview of the relationship between PMSCs and extractive industry
   1638 companies from the Private Security Events Database, 2019.



- 1639 114. Office of the High Commissioner for Human Rights (OHCHR), 'Call for submissions: the
   relationship between private military and security companies and extractive industry
   1641 companies from a human rights perspective in law and practice',
- ohchr.org/EN/Issues/Mercenaries/WGMercenaries/Pages/CallforsubmissionesPrivateMilitaryS
   ecurity.aspx, accessed on 5 April 2021.
- 1644 115. Office of the High Commissioner for Human Rights (OHCR), *Private military and security* 1645 *companies in extractive industries – impact on human rights*, 2017.
- 1646 116. United Nations Environmental Programme (UNEP), From Conflict to Peacebuilding: The Role
   1647 of Natural Resources and the Environment, 2009.

- 1649 The following resources may help organizations in the coal sector report on this topic:
- 1650 117. International Alert, Human Rights Due Diligence in Conflict-Affected Settings: Guidance for Extractive Industries, 2018.
- 1652 118. International Council on Mining & Metals (ICMM), International Committee of the Red Cross
   1653 (ICRC), International Finance Corporation (IFC), and IPIECA, Voluntary Principles on Security
   1654 and Human Rights: Implementation Guidance Tools, 2011.

## 1655 Asset integrity and critical incident management

### 1656 Other sources

- 1657 119. R. Sullivan, D. Russell, et al., Managing the Unavoidable: investment implications of a changing climate, 2009.
- 1659 120. Business for Social Responsibility, Adapting to Climate Change: A Guide for the Mining Industry, 2011.
- 1661 121. C. Roche, K. Thygesen, K., E. Baker, E. (Eds.), United Nations Environment Programme
   1662 (UNEP), *Mine Tailings Storage: Safety Is No Accident. A UNEP Rapid Response Assessment*,
   1663 2017.

## 1664 Further resources

- 1665 For additional reporting support, organizations can consult the following resources:
- 1666 122. International Council on Mining & Metals (ICMM), United Nations Environment Programme
   1667 (UNEP), Principles for Responsible Investment (PRI), *Global Industry Standard on Tailings* 1668 *Management*, 2020.
- 1669 123. International Council on Mining & Metals (ICMM), Health and safety critical control management, 2015.
- 1671 124. International Council on Mining & Metals (ICMM), United Nations Environment Programme (UNEP), Good practice in emergency preparedness and response, 2005.
- 1673 125. Organisation for Economic Co-operation and Development (OECD), Guidance on Developing
   1674 Safety Performance Indicators Related to Chemical Accident Prevention, Preparedness and
   1675 Response for Industry, 2008.
- 1676 126. UK Health and Safety Executive, Step-By-Step Guide to Developing Process Safety
   1677 Performance Indicators, 2006.

## **Occupational health and safety**

## 1679 Authoritative instruments

1680 127. International Labour Organization (ILO) Convention 176, 'Safety and Health in Mines
 1681 Conventio'n, 1995.

- 1683 128. Center for Disease Control and Prevention (CDC), The National Institute for Occupational Health and Safety (NIOSH), Mining Topic: Respiratory Diseases,
- 1685cdc.gov/niosh/mining/topics/RespiratoryDiseases.html, accessed 30 October 2020
- 1686 129. Health and Safety Executive (HSE), Heat stress, hse.gov.uk/temperature/heatstress, accessed on 5 April 2021.



- 1688 130. International Labour Organization (ILO), Working towards sustainable development:
   1689 Opportunities for decent work and social inclusion in a green economy, 2012.
- 1690 131. Occupational Safety and Health Administration (OSHA) US Department of Labor, Silica,
   1691 Crystalline: Health Effects, osha.gov/dsg/topics/silicacrystalline/health\_effects\_silica.html,
   1692 accessed on 5 April 2021.
- 1693 132. Occupational Safety and Health Administration (OSHA) US Department of Labor, Hydrogen Sulfide: Hazards, osha.gov/SLTC/hydrogensulfide/hazards.html, accessed on 5 April 2021.
- 1695 133. The Advocates for Human Rights, *Promoting Gender Diversity and Inclusion in the Oil, Gas* 1696 and Mining Extractive Industries: A Women's Human Rights Report, 2019.
- 1697 134. World Nuclear Association, Naturally-Occurring Radioactive Materials, 2019, worldnuclear.org/information-library/safety-and-security/radiation-and-health/naturally-occurringradioactive-materials-norm.aspx, accessed on 5 April 2021.

- 1701 The following resources may help organizations in the coal sector report on this topic:
- 1702 135. International Labour Organization (ILO) Code of Practice: Safety and health in underground coalmines, 2009.
- 1704 136. International Council on Mining & Metals (ICMM), Good practice guidance on occupational health risk assessment, 2016.
- 1706 137. International Council on Mining & Metals (ICMM), Overview of leading indicators for occupational health and safety in mining, 2012.

## **Employment practices**

## 1709 Authoritative instruments

1710 138. Organisation for Economic Co-operation and Development (OECD), *Due Diligence Guidance* 1711 *for Meaningful Stakeholder Engagement in the Extractives Sector*, 2015.

## 1712 Other sources

- 1713 139. International Labour Organization (ILO), Mining (coal; other mining) sector,
- ilo.org/global/industries-and-sectors/mining/lang--en/index.htm, accessed on 5 April 2021.

## 1715 Child labor

## 1716 Authoritative instruments

- 1717 140. International Labour Organization (ILO) and International Organisation of Employers (IOE),
   1718 How to do business with respect for children's right to be free from child labour: ILO-IOE child
   1719 labour guidance tool for business, 2015.
- 1720 141. International Labour Organization (ILO) Convention 138, 'Minimum Age Convention', 1973.
- 1721 142. International Labour Organization (ILO) Convention 182, 'Worst Forms of Child Labour
   1722 Convention', 1999.
- 1723 143. United Nations (UN) Convention, 'Convention on the Rights of the Child', 1989.

- 1725 144. International Labour Organisation, *Global Estimates of Child Labour Results and Trends* 1726 2012-2016, 2017.
- 1727 145. International Labor Organization (ILO), Mining and quarrying.
   1728 https://www.ilo.org/ipec/areas/Miningandquarrying/lang--en/index.htm, accessed on 5 April
- 1**729** 2021.
- 1730 146. Organisation for Economic Co-operation and Development (OECD), *Practical actions for* 1731 *companies to identify and address the worst forms of child labour in mineral supply chains*,
   1732 2017.
- 1733 147. UNICEF, *Children's rights and the mining sector*: UNICEF extractive pilot, 2015;



- 1734 148. Unite States (U.S.) Department of Labor, 2018 List of Goods Produced by Child Labor or
   1735 Forced Labor, 2018.
- 1736 149. United States Department of Labor, 2020 List of Goods Produced by Child Labor or Forced
   1737 Labor, 2020

## **Forced labor and modern slavery**

## 1739 Authoritative instruments

1740 150. International Labour Organization (ILO) Convention 29, 'Forced Labour Convention', 1930.

## 1741 Other sources

1745

1757

- 1742 151. M. Coderre-Proulx, B. Campbell, I Mandé, and International Labour Organization (ILO),
   1743 International migrant workers in the mining sector, 2016.
   1744 152. International Transport Workers' Federation (ITF). BHP ignores pleas to help starving crudinal sector.
  - 152. International Transport Workers' Federation (ITF), BHP ignores pleas to help starving crew, itfglobal.org/en/news/bhp-ignores-pleas-help-starving-crew, accessed 5 April 2021.
- 1746 153. International Transport Workers' Federation (ITF), Bulk carrier detained in Australia, crew
  1747 owed \$64,000, https://www.itfglobal.org/en/news/bulk-carrier-detained-in-australia-crew-owed1748 64000, accessed on 5 April 2021.
- 1749 154. Global Slavery Index, 'Global Findings', *Global Slavery Index 2018*, chapter 3, globalslaveryindex.org/resources/downloads.
- 1751 155. Global Reporting Initiative (GRI), Responsible Labor Initiative, Advancing modern slavery
   1752 reporting to meet stakeholder expectations, 2019.
- 1753 156. International Council for Mining and Metals (ICMM), Tackling modern slavery in the mining supply chain, icmm.com/en-gb/case-studies/action-against-modern-slavery, accessed on 5
   1755 April 2021.
   1756 157. International Labour Organization (ILO) and Walk Free Foundation, *Global estimates of*
  - 157. International Labour Organization (ILO) and Walk Free Foundation, *Global estimates of modern slavery: forced labour and forced marriage*, 2017.
- 1758 158. International Transport Workers' Federation (ITF), 'ITF and Malaviya Seven crew dismayed by delay', 2017, itfglobal.org/en/news/itf-and-malaviya-seven-crew-dismayed-delay, accessed on 5 April 2021.
- 1761
   159. National Union of Rail, Maritime and Transport Workers (RMT), 'Modern day slavery charge made by RMT', 2016, rmt.org.uk/news/modern-day-slavery-charge-made-by-rmt, accessed on 5 April 2021.
- 1764 160. United States Department of Labor, 2020 List of Goods Produced by Child Labor or Forced
   1765 Labor, 2020

## **Non-discrimination and equal opportunity**

## 1767 Other sources

- 1768 161. J. Soper, 'Ghanaian Workers Fight Pay Discrimination', 2015,
   1769 pulitzercenter.org/reporting/ghanaian-workers-fight-pay-discrimination, accessed on 31 May
   1770 2020.
- 1771 162. United Nations Environment Programme Financial Initiative (UNEP FI), Human Rights
   1772 Guidance Tool for the Financial Sector, Mining and Metals,
- 1773 unepfi.org/humanrightstoolkit/mining.php, accessed on 5 April 2021.
- 1774 163. The Advocates for Human Rights: *Promoting Gender Diversity and Inclusion in the Oil, Gas,* 1775 *and Mining Extractive Industries*, 2019.

## **Freedom of association and collective bargaining**

## Authoritative instruments

1778 164. International Labour Organization (ILO), 386th Report of the Committee on Freedom of Association, 2018.



- 1781 165. International Trade Union Confederation (ITUC), 2016 ITUC Global Rights Index: The World's Worst Countries for Workers, 2016.
- 1783 166. International Trade Union Confederation (ITUC), Saudi Arabia bans trade unions and violates
  1784 all international labour standards, 2012, ituc-csi.org/saudi-arabia-bans-trade-unions-and,
  1785 accessed on 5 April 2021.

## 1786 Anti-corruption

## **Authoritative instruments**

1788 167. Organisation for Economic Co-operation and Development (OECD), Convention on
 1789 Combating Bribery of Foreign Public Officials in International Business Transactions and
 1790 Related Documents, 1997.

## 1791 Other sources

- 1792 168. Extractives Industry Transparency Initiative (EITI), Factsheet: Disclosing beneficial ownership, 2017.
- 1794 169. FATF, FATF guidance: Politically exposed persons (recommendations 12 and 22), 2013.
- 1795 170. International Monetary Fund, Fiscal Transparency Initiative: Integration of Natural Resource
   1796 Management Issues, 2019.
- 1797 171. Organisation for Economic Co-operation and Development (OECD), Corruption in the
   1798 Extractive Value Chain: Typology of Risks, Mitigation Measures and Incentives, 2016.
- 1799 172. A. Sayne, A. Gillies, and A. Watkins, *Twelve Red Flags: Corruption Risks in the Award of Extractive Sector Licenses and Contracts*, 2017.
- 1801 173. Transparency International, *Corruption Perceptions Index 2018*, 2018.
- 1802 174. E. Westenberg and A. Sayne, *Beneficial Ownership Screening: Practical Measures to Reduce* 1803 Corruption Risks in Extractives Licensing, 2018.
- 1804 175. A. Williams and K. Dupuy, *Deciding over nature: Corruption and environmental impact assessments*, 2016.

## 1806 Further resources

- 1807 The following resource may help organizations in the coal sector report on this topic:
- 1808 176. Extractives Industry Transparency Initiative (EITI), *The EITI Standard*, 2019.

## 1809 Payments to governments

## 1810 Authoritative instruments

- 1811
   177. European Parliament, 'Directive 2013/34/EU of the European Parliament and the Council of
   1812
   26 June 2013 on the annual financial statements, consolidated financial statements and
   1813
   related reports of certain types of undertakings', 2013.
- 1814 178. Organisation for Economic Co-operation and Development (OECD), *Transfer Pricing* 1815 *Documentation and Country-by-Country Reporting, Action 13 2015 Final Report*, OECD/G20
   1816 Base Erosion and Profit Shifting Project, 2015.

- 1818 179. Extractive Industries Transparency Initiative (EITI), Fact sheet: Project-level reporting in the extractive industries, 2018.
- 1820 180. Extractive Industries Transparency Initiative, *Transparency in the First Trade*, 2019.
- 1821 181. Extractive Industries Transparency Initiative (EITI), *Nigeria EITI: Making transparency count, uncovering billions*, 2012.
- 1823 182. S. Whitley et al., and Overseas Development Institute (ODI), 'Cutting Europe's Lifelines to Coal: Tracking Subsidies in 10 Countries', 2017, odi.org/publications/10788-cutting-europeslifelines-coal-tracking-subsidies-10-countries.
- 1826 183. A. Sayne, A. Gillies, and A. Watkins, *Twelve Red Flags: Corruption Risks in the Award of Extractive Sector Licenses and Contracts*, 2017.
- 1828 184. Transparency International, Under the Surface: Looking into Payments by Oil, Gas and
   1829 Mining Companies to Governments, 2018.



1830 185. M. Blom and et al, "Subsidies and Costs of EU Energy," 2014.

## **Further resources**

- 1832 The following resources may help organizations in the coal sector report on this topic:
- 1833 186. Extractives Industry Transparency Initiative (EITI), The EITI Standard, 2019.
- 1834 187. Organisation for Economic Co-operation and Development (OECD), Upstream Oil, Gas, and
   1835 Mining State-Owned Enterprises, Governance Challenges and the Role of International
- 1836 Reporting Standards in Improving Performance, 2018.

## **Public policy and lobbying**

## 1838 Other sources

1848

- 188. Australasian Centre for Corporate Responsibility (ACCR), Politics BHP, 2017.
- 1840
   189. Climate investigations, *Coal's Lonely Lobbyists*, 2016, climateinvestigations.org/coal-lobby/, accessed on 5 April 2021.
- 1842 190. D. Coady, I. Parry, et al., *Global Fossil Fuel Subsidies Remain Large: An Update Based on Country-Level Estimates*, 2019.
- 1844
   191. N. Graham, S. Daub, and B. Carroll, *Mapping Political Influence: Political donations and* 1845
   195. Industry in BC, 2017.
- 1846 192. European Parliament Directorate General for Internal Policies, *Fossil Fuel Subsidies*, 2017.
   1847 193. InfluenceMap, Climate Lobbying: How Companies Really Impact Progress on Climate, 2018
  - 193. InfluenceMap, Climate Lobbying: How Companies Really Impact Progress on Climate, 2018, influencemap.org/climate-lobbying, accessed on 31 May 2020.
- 1849 194. InfluenceMap, Trade association and climate: Shareholders make themselves heard, 2018, influencemap.org/report/Trade-associations-and-climate-shareholders-make-themselves-heard-cf9db75c0a4e25555fafb0d84a152c23, accessed on 5 April 2021.
- 1852 195. D. Koplow, C. Lin, et al., *Mapping the Characteristics of Producer Subsidies: A review of pilot country studies*, 2010.
- 1854 196. Organisation for Economic Co-operation and Development (OECD) Anti-corruption & Integrity
   1855 Hub, Lobbying, oecd.org/corruption-integrity/explore/topics/lobbying.html.
- 197. Competition Commission of India, Case No. 60 of 2017, 2017.

