

GLENCORE



Databook and GRI References 2018



Databook and GRI references

Throughout this document we refer to the following sources:

Document name	Abbreviation	Link
Glencore Sustainability Report 2018	Glencore SR	glencore.com/sustainability/reports-and-presentations
Glencore Annual Report 2018	Glencore AR	glencore.com/index/investors/reports-results/2018-annual-report
Glencore Code of Conduct	Code of Conduct	glencore.com/who-we-are/governance
Glencore statement of values	Our Values	glencore.com/who-we-are/governance
Group Human Rights Policy		glencore.com/who-we-are/governance
Global Anti-Corruption Policy		glencore.com/who-we-are/governance
Group Communities and stakeholder engagement policy		glencore.com/sustainability/community-and-human-rights
Payments to Governments		glencore.com/sustainability/reports-and-presentations
Climate Change Considerations for our Business: 2017		glencore.com/sustainability/our-progress/reports/
Climate change position statement		glencore.com/media-and-insights/news/Furthering-our-commitment-to-the-transition-to-a-low-carbon-economy
Our approach to sustainability		glencore.com/sustainability/reports-and-presentations

Databook and GRI references continued...

Key
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 n/a = not applicable

GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments	
STANDARD DISCLOSURES										
Organisational profile										
GRI 102	102-1	Name of the organisation	Glencore plc							
GRI 102	102-2	a. A description of the organisation's activities b. Primary brands, products, and services, including an explanation of any products or services that are banned in certain markets	<i>Glencore SR:</i> At a glance (pp. 2–3) <i>Glencore AR:</i> Business model (pp. 12–15), Our marketing business (p. 15) <i>Glencore website:</i> Who we are							
GRI 102	102-3	Location of organisation's headquarters	Baarermattstrasse 3 CH-6340 Baar Switzerland							
GRI 102	102-4	Number of countries where the organisation operates, and names of countries with either major operations or that are specifically relevant to the sustainability issues covered in the report	<i>Glencore SR:</i> At a glance (pp. 2–3) <i>Glencore website:</i> Who we are World Map							
GRI 102	102-5	Nature of ownership and legal form	<i>Glencore AR:</i> Shareholder information (pp. 236)							
GRI 102	102-6	Markets served (including geographic breakdown, sectors served, and types of customers/beneficiaries)	<i>Glencore SR:</i> At a glance (pp. 2–3) <i>Glencore AR:</i> Business model (pp. 12–15) Glencore website: Who we are							
GRI 102	102-7	Scale of the reporting organisation, including: number of employees, net sales, total capitalisation, and quantity of products provided	<i>Glencore SR:</i> At a glance (pp. 2–3) <i>Glencore AR:</i> Financial statement (pp. 123–212), Production by quarter (pp. 221–227)							
GRI 102	102-8	Information on the organisation's workforce	<i>Glencore SR:</i> At a glance (pp. 2–3)						All numbers represent data as at 31/12/2018.	
		Total workforce	Total workforce	154,832	145,977	158,540				
		Total employees	Total employees	95,958	83,679	86,627				
		Total contractors	Total contractors	58,874	62,298	71,913				
		Employee breakdown by role type	Executive/senior/middle management (%)	Executive/senior/middle management (%)	4%	4%	4%			
			Supervisors/administrators/technical (%)	Supervisors/administrators/technical (%)	26%	26%	27%			
	Operational/production/maintenance/security (%)		Operational/production/maintenance/security (%)	70%	70%	69%				

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Organisational profile (continued)									
GRI 102	102-8	Employee breakdown by employment type	Full-time employees	92,489	82,293	85,006			
			Part-time employees	1,268	776	995			
			Casual employees	2,201	610	626			
		Employee breakdown by employment contract	Permanent (%)	94%	94%	94%			
			Temporary (%)	6%	6%	6%			
GRI 102	102-9	Describe the organisation's supply chain including its main elements as they relate to the organisation's activities, primary brands, products, and services	<i>Glencore SR:</i> At a glance (pp. 2–3), Product Stewardship (pp. 60–63) <i>Glencore AR:</i> Our business model (pp. 12–15), Our marketing business (p. 15) <i>Glencore website:</i> Who we are					5, 8	
GRI 102	102-10	Significant changes during the reporting periods regarding size, structure, ownership or its supply chain, including the location of or changes in operations, including facility openings, closings and expansions; changes in the share capital structure and other capital formation, maintenance and alteration operations; and changes in the location of suppliers, the structure of the supply chain, or in relationships with suppliers, including selection and termination	<i>Glencore SR:</i> Chief Executive Officer's review (pp. 6–7), About this report (p. 11) <i>Glencore AR:</i> Chief Executive Officer's review (pp. 4–7), Financial review (pp. 52–59), Business review (pp. 60–80)						
GRI 102	102-11	Explanation of whether and how the precautionary approach or principle is addressed by the organisation	<i>Glencore SR:</i> Sustainability framework (p. 9) <i>Glencore website:</i> Our approach to sustainability				7	1, 2	

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Organisational profile (continued)									
GRI 102	102-12	Externally developed economic, environmental, and social charters, principles, or other initiatives to which the organisation subscribes or endorses	<i>Glencore SR:</i> About this report (p. 11), Stakeholder engagement (pp. 14–15), Participation in external initiatives (p. 16), Human rights and raising grievance mechanisms (pp. 48–53), Community engagement and social commitment compliance (pp. 54–59), Product stewardship (pp. 60–63), <i>Glencore website:</i> Our approach to sustainability				1, 3, 4, 5, 6, 10	1, 2	In 2014 we signed up to the United Nations Global Compact and became a member of the International Council on Mining and Metals (ICMM). In 2015, Glencore joined the Plenary Group of the Voluntary Principles on Security and Human Rights Initiative. For further initiatives refer to the provided references.
GRI 102	102-13	Main memberships of industry or other associations, and national or international advocacy organisations	<i>Glencore website:</i> List of Associations and Memberships glencore.com/sustainability/reports-and-presentations					1	
Strategy									
GRI 102	102-14	Statement from the most senior decision maker in the organisation about the relevance of sustainability to the organisation and the organisation's strategy for addressing sustainability	<i>Glencore SR:</i> Chief Executive Officer's review (pp. 6–7)					2	
GRI 102	102-15	Description of key impacts, risks and opportunities	<i>Glencore SR:</i> Material topics (pp. 12–13) <i>Glencore AR:</i> Our strategy for a sustainable future (pp. 16–19), Principal risks and uncertainties (pp. 24–35)					2, 4	

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Ethics and Integrity									
GRI 102	102-16	Organisation's values, principles, standards, norms of behaviours such as codes of conduct and codes of ethics	<i>Our approach to sustainability:</i> Our sustainability approach <i>Glencore SR:</i> Our strategic approach (p. 9), Ethics and compliance (p. 17) <i>Glencore AR:</i> Our strategy for a sustainable future (pp. 16–19) <i>Glencore website:</i> Code of Conduct Our Values				1, 2, 3, 4, 5, 6, 7, 10	1, 2, 3	
GRI 102	102-17	Internal and external mechanisms for (i) seeking advice about ethical and lawful behaviour, and organisational integrity; (ii) reporting concerns about unethical or unlawful behaviour, and organisational integrity	<i>Glencore SR:</i> Ethics and Compliance (p. 17) <i>Glencore AR:</i> Ethics and Compliance (pp. 49–51)				1, 2, 3, 4, 5, 6, 7, 10	1, 2, 3	
Governance									
GRI 102	102-18	Governance structure of the organisation, including committees of the highest governance body; committees responsible for decision-making on economic, environmental, and social topics	<i>Our approach to sustainability:</i> Our sustainability approach <i>Glencore SR:</i> Our strategic approach (p. 9) <i>Glencore AR:</i> Corporate governance (pp. 92–122)					1	
GRI 102	102-19	Process for delegating authority for economic, environmental and social topics from the highest governance body to senior executives and other employees	<i>Glencore SR:</i> Our strategic approach (p. 9) <i>Glencore AR:</i> Corporate governance (pp. 92–122)					1	
GRI 102	102-20	Whether the organisation has appointed an executive-level position or positions with responsibility for economic, environmental and social topics, and whether post holders report directly to the highest governance body	<i>Glencore SR:</i> Our strategic approach (p. 9) <i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Governance (continued)									
GRI 102	102-21	Processes for consultation between stakeholders and the highest governance body on economic, environmental and social topics. If consultation is delegated, describe to whom and any feedback processes to the highest governance body	<i>Glencore AR:</i> Corporate governance (pp. 92–122) <i>Glencore website:</i> Board committees: glencore.com/who-we-are/governance				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-22	Composition of the highest governance body and its committees	<i>Glencore AR:</i> Corporate governance (pp. 92–122) <i>Glencore website:</i> Board committees: glencore.com/who-we-are/governance					1	
GRI 102	102-23	Whether the Chair of the highest governance body is also an executive officer	<i>Glencore AR:</i> Corporate governance (pp. 92–122) <i>Glencore website:</i> Board committees: glencore.com/who-we-are/board-of-directors/board-committees/					1	
GRI 102	102-24	Nomination and selection processes for the highest governance body and its committees, and the criteria used for nominating and selecting highest governance body members	<i>Glencore AR:</i> Corporate governance (pp. 92–122)					1	
GRI 102	102-25	Processes for the highest governance body to ensure conflicts of interest are avoided and managed	<i>Glencore AR:</i> Corporate governance (pp. 92–122)					1	
GRI 102	102-26	Highest governance body's and senior executives' roles in the development, approval, and updating of the organisation's purpose, value or mission statements, strategies, policies, and goals related to economic, environmental and social impacts	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-27	Measures taken to develop and enhance the highest governance body's collective knowledge of economic, environmental and social topics	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-28	Processes for evaluation of the highest governance body's performance with respect to governance of economic, environmental and social topics	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Governance (continued)									
GRI 102	102-29	Highest governance body's role in the identification and management of economic, environmental and social impacts, risks, and opportunities	<i>Glencore SR:</i> Material topics (pp. 12–13) <i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-30	Highest governance body's role in reviewing the effectiveness of the organisation's risk management processes for economic, environmental and social topics	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-31	Frequency of the highest governance body's review of economic, environmental and social impacts, risks, and opportunities	<i>Glencore AR:</i> Principal risks and uncertainties (pp. 24–35), Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-32	Highest committee or position that formally reviews and approves the organisation's sustainability report and ensures that all material aspects are covered	<i>Glencore AR:</i> Corporate governance (pp. 92–122)					1	
GRI 102	102-33	Process for communicating critical concerns to the highest governance body	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-34	Nature and total number of critical concerns that were communicated to the highest governance body and the mechanism(s) used to address and resolve them	<i>Glencore AR:</i> Corporate governance (pp. 92–122)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-35	Remuneration policies for the highest governance body and senior executives; and how performance criteria in the remuneration policy relate to the highest governance body's and senior executives' economic, environmental and social objectives	<i>Glencore AR:</i> Directors' remuneration report (pp. 113–117)				1, 2, 3, 4, 5, 6, 7, 10	1	
GRI 102	102-36	Report the process for determining remuneration	<i>Glencore AR:</i> Directors' remuneration report (pp. 113–117)					1	
GRI 102	102-37	Indicate how stakeholders' views are sought and taken into account regarding remuneration, including the results of votes on remuneration policies and proposals, if applicable	<i>Glencore AR:</i> Directors' remuneration report (pp. 113–117)					1	

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Stakeholder Engagement									
GRI 102	102-40	List of stakeholder groups engaged by the organisation	<i>Our approach to sustainability:</i> Stakeholder engagement <i>Glencore SR:</i> Our strategic approach (p. 9), Stakeholder engagement (pp. 14–15)				3	10	
GRI 102	102-41	Report the percentage of total employees covered by collective bargaining agreements	Percentage of employees covered by collective bargaining agreement	74%	76%	74%	3	3	
GRI 102	102-42	Basis for identification and selection of stakeholders with whom to engage	<i>Our approach to sustainability:</i> Our sustainability approach, Stakeholder engagement <i>Glencore SR:</i> Our strategic approach (p. 9), Stakeholder engagement (pp. 14–15) <i>Glencore AR:</i> Our strategy for a sustainable future (pp. 16–19)				3	10	Gathered internally but not reported externally.
GRI 102	102-43	Approaches to stakeholder engagement, including frequency of engagement by type and by stakeholder group, and an indication of whether any of the engagement was undertaken specifically as part of the report preparation process	<i>Our approach to sustainability:</i> Stakeholder engagement <i>Glencore SR:</i> Our strategic approach (p. 9), Stakeholder engagement (pp. 14–15), Human rights and grievance mechanisms (pp. 48–53)					10	We engage with all stakeholder groups, at corporate, regional and local levels, to build meaningful relationships and understand their expectations and aspirations. We have fed our understanding of the topics of interest taken from this engagement into our materiality processes, to establish the areas of focus for our sustainability strategic review and the information we disclose in our sustainability reporting.
GRI 102	102-44	Key topics and concerns that have been raised through stakeholder engagement, and how the organisation has responded to those key topics and concerns, including through its reporting, and report on the stakeholder groups that raised each of the key topics and concerns	<i>Glencore SR:</i> Material topics (pp. 12–13), Stakeholder engagement (pp. 14–15), Material topics (pp. 18–67) <i>Other:</i> Climate Change Considerations for our Business: 2017				1, 2, 3, 4, 5, 6, 7, 10	10	

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Reporting Practice									
GRI 102	102-45	Entities included in the organisation's consolidated financial statements	<i>Glencore AR:</i> Financial review (pp. 52–59), Principal operating, finance and industrial subsidiaries and investments (pp. 210–212)						
GRI 102	102-46	Process for defining report content and the Aspect Boundaries and how the organisation has implemented the Reporting Principles for Defining Report Content	<i>Glencore SR:</i> Our strategic approach (p. 9), About this report (p. 11), Material topics (pp. 12–13), Stakeholder engagement (pp. 14–15)					10	
GRI 102	102-47	Material topics identified in the process for defining report content	<i>Glencore SR:</i> Material topics (pp. 12–13)					2, 10	
GRI 102	102-48	Explanation of the effect of any restatements of information provided in earlier reports, and the reasons for such restatement	<i>Glencore SR:</i> About this report (p. 11)						The effects of restatements are not reported externally unless the data was previously subject to assurance by third parties.
GRI 102	102-49	Significant changes from previous reporting periods in the Scope and Aspect Boundaries	<i>Glencore SR:</i> About this report (p. 11)					2, 10	The glossary of the Sustainability Report provides information on indicator definitions and, if applicable, material changes compared to last year.
Report Profile									
GRI 102	102-50	Reporting period for information provided	1 January 2018 to 31 December 2018					10	
GRI 102	102-51	Date of most recent previous report	2017						
GRI 102	102-52	Reporting cycle	Annual					10	
GRI 102	102-53	Contact point for questions regarding the report or its contents	info@glencore.com					10	
GRI 102	102-54	The claim made, if the report has been prepared in accordance with the GRI Standards	<i>Glencore SR:</i> About this report (p. 11)					10	
GRI 102	102-55	GRI content index, which specifies each of the GRI Standards used and lists all disclosures included in the report	<i>Glencore SR:</i> About this report (p. 11), Glencore Databook and GRI References 2018 (this document)						
GRI 102	102-56	a. A description of the organisation's policy and current practice with regard to seeking external assurance for the report	<i>Glencore SR:</i> Assurance statement (pp. 122–123) <i>Glencore AR:</i> Audit Committee report (pp. 108–110)						

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MANAGEMENT APPROACH									
Management Approach									
GRI 103	103-1a	Explanation of the material topic and its Boundary	<i>Glencore SR:</i> About this report (p. 11), Material topics (pp. 12–13)					2, 10	
GRI 103	103-1-b/c	b. The Boundary for the material topic including a description of where the impacts occur; the organisation's involvement with the impacts c. Any specific limitation regarding the topic Boundary	<i>Glencore SR:</i> About this report (p. 11) <i>Glencore AR:</i> Materiality assessment (p. 40)					2, 10	
GRI 103	103-2	The management approach and its components	<i>Glencore SR:</i> Introduction to each material topic chapter (pp. 18–67)						
GRI 103	103-3	Evaluation of the management approach	<i>Glencore SR:</i> Introduction to each material topic chapter (pp. 18–67)						

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SPECIFIC STANDARD DISCLOSURES									
Economic									
Economic Performance									
GRI 201	201-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Creating value for society <i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59)					9	
GRI 201	201-1	Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations and other community investments, retained earnings and payments to capital providers and to governments	<i>Our approach to sustainability:</i> Creating value for society <i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59) <i>Other:</i> 2017 Payments to Governments Report				10	9	We do not currently collect data on payments to local communities as part of land use.
			Total payments to governments (\$ million)	3,963	4,113	5,739*		9	Data excludes VAT. Community engagement and social commitment compliance (pp. 54–59).
			Total community investments (\$ million)	84	90	95		9	Community engagement and social commitment compliance (pp. 54–59).
GRI 201	201-2	Financial implications, other risks and opportunities for the organisation's activities due to climate change	<i>Glencore SR:</i> Climate change (pp. 30–35) <i>Glencore AR:</i> Principal risks and uncertainties (pp. 24–35) <i>Other:</i> Climate Change Considerations for our Business: 2017				9	4, 9	Climate change-related financial implications and other risks and opportunities that may affect our business are disclosed in our standalone report Climate Change Considerations for our Business: 2017.
GRI 201	201-3	Coverage of the organisation's defined benefit plan obligations	<i>Glencore AR:</i> Note 23 to the financial statements (pp. 185–190)				9	4, 9	

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Economic (continued)									
Market Presence									
GRI 202	202-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Material topics (pp. 12–13), Our people (pp. 64–67)					9	
GRI 202	202-2	Proportion of senior management and workforce hired from the local community at significant locations of operation	<i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59) <i>Other:</i> Glencore Communities and stakeholder engagement policy					9	In 2018, 96% of our workforce were local to the countries in which we operate, as were 62% of our managers. No additional senior manager information is available.
Indirect Economic Impacts									
GRI 203	203-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Creating value for society <i>Glencore SR:</i> Material topics (pp. 12–13), Community engagement and social commitment compliance (pp. 54–59)					9	
GRI 203	203-1	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind or pro-bono engagement	<i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59)					9	We provide examples of the impact of our development and infrastructure investments and services in the commodity chapters. In addition, our socio-economic contribution scorecard focuses on understanding the tangible results of our investments. Over time, the data collected will show how our development activities affect local economies.
GRI 203	203-2	Significant indirect economic impacts, including the extent of the impacts	<i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59)					9	

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Economic (continued)									
Procurement Practices									
GRI 204	204-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Creating value for society, Product stewardship: Sourcing <i>Glencore SR:</i> Community engagement and social commitment compliance (pp. 54–59)					2	
GRI 204	204-1	Proportion of spending on local suppliers at significant locations of operation	Percentage of total spend with local suppliers (%)	73%	76%	74%		2	As of 2016, this indicator only covers procurement at industrial assets, whereas it previously included marketing assets as well. The definition of “local” has also changed, to mean suppliers and contractors local to the country in which the procuring asset operates. In previous years, some assets applied a more narrow definition, based on a 30km range around the procuring asset.
Anti-corruption									
GRI 205	205-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> We are committed to working sustainably, Applying the GCP framework, Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17) <i>Other:</i> Global Anti-Corruption Policy				10		
GRI 205	205-1	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified	<i>Our approach to sustainability:</i> We are committed to working sustainably, Applying the GCP framework, Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17) <i>Other:</i> Global Anti-Corruption Policy				10	1	Detailed data is tracked and monitored for internal use only (due to confidentiality constraints).

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Economic (continued)									
Anti-corruption (continued)									
GRI 205	205-2	Communication and training on anti-corruption policies and procedures	Managers trained (%)	45%	57%	31%	10	1	<i>Glencore SR:</i> Ethics and compliance (p. 17).
			Non-managers trained (%)	34%	23%	22%	10	1	
			Total trained (%)	34%	25%	22%	10	1	
GRI 205	205-3	Confirmed incidents of corruption and actions taken	<i>Our approach to sustainability:</i> We are committed to working sustainably, Applying the GCP framework, Working with business partners <i>Glencore SR:</i> <i>Ethics and compliance</i> (p. 17) <i>Other:</i> Global Anti-Corruption Policy				10	1	Any cases of misconduct, including the giving or receiving of gifts, entertainment, incentives or any other financial advantage in return for improper performance of the recipient's function (corruption), are taken very seriously and disciplinary action is taken in accordance with internal policies. Due to possible confidentiality restraints and/or the possibility that an incident may be connected to an ongoing or related internal review or investigation, we do not report this data publicly.
Environmental									
Materials									
GRI 301	301-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Environment <i>Glencore SR:</i> Waste and air emissions (pp. 42–47)				7, 8	6	
GRI 301	301-1	Materials used by weight or volume	Materials used by weight (million tonnes)	641	314	302	8	6, 8	Data reflects the total quantity of input, raw and process materials. Other data are tracked internally but are not reported externally.
GRI 301	301-2	Percentage of materials used that are recycled input materials	Secondary materials and recyclable wastes, ie scrap (%)	0.2%	0.3%	0.8%	8, 9	6, 8	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
 n/a = not applicable

GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Energy									
GRI 302	302-DMA	Disclosure on Management Approach	<p><i>Our approach to sustainability:</i> Climate Change and energy <i>Glencore SR:</i> Material topics (pp. 12–13), Climate change (pp. 30–35), <i>Glencore AR:</i> Our strategy for a sustainable future (pp. 16–19), Climate Change – looking beyond 2020 (pp. 20–21) <i>Other:</i> Climate Change Considerations for our Business: 2017 Climate change position statement</p>				7, 8	6	
GRI 302	302-1	Energy consumption within the organisation	Direct energy (PJ)	131	115	120*		6	
			– Coal (%)	15%	17%	16%		6	
			– Natural gas & coal seam gas (%)	13%	11%	10%		6	
			– Mineral oil (%)	52%	62%	65%		6	
			– Renewable (hydropower etc) (%)	19%	10%	9%		6	Starting from 2017, renewable energy generated at Glencore facilities dropped as our Agriculture business was deconsolidated. Glencore Agriculture generates substantial volumes of renewable electricity from biowaste in sugarcane assets.
			– Other sources (%)	1%	1%	1%		6	
			Direct energy by commodity (PJ)	131	115	120		6	
			– Agriculture	18	n/a	n/a		6	
			– Aluminium	1	n/a	0		6	
			– Coal	31	33	35		6	
			– Copper	18	20	18		6	
			– Ferroalloys	4	7	6		6	
			– Iron ore	–	–	–		6	
			– Nickel	26	23	27		6	
			– Oil	10	10	10		6	
			– Zinc	23	23	24		6	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Energy (continued)									
GRI 302	302-1	Energy consumption within the organisation	Direct energy by region (PJ)	131	115	120		6	
			– Africa	12	17	17		6	
			– Asia	16	16	16		6	
			– Australia	48	44	48		6	
			– Europe	4	1	1		6	
			– North America	10	8	8		6	
			– South/Latin America	41	29	30		6	
			Purchased electricity (PJ)	90	87	88*		6	
			– Non-renewable (%)	83%	85%	86%		6	
			– Renewable (%)	17%	15%	14%		6	This includes electricity purchased in low carbon grids (with a country-wide grid emission factor of 25 gr CO ₂ per kWh or less).
			Purchased energy by commodity (PJ)	90	87	88		6	
			– Agriculture	2	n/a	n/a		6	
			– Aluminium	0	n/a	0		6	
			– Coal	6	5	5		6	
			– Copper	23	24	24		6	
			– Ferroalloys	27	27	25		6	
			– Iron ore	–	–	–		6	
			– Nickel	5	5	5		6	
			– Oil	0	0	0		6	
			– Zinc	26	25	29		6	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Energy (continued)									
GRI 302	302-1	Energy consumption within the organisation	Purchase energy by region (PJ)	90	87	88		6	
			– Africa	33	33	35		6	
			– Asia	6	6	7		6	
			– Australia	11	11	11		6	
			– Europe	18	17	14		6	
			– North America	12	10	10		6	
			– South/Latin America	10	10	11		6	
			Renewable energy as percentage of total energy usage (%)	17%	12%	12%		6	This is based upon Glencore's own renewable energy generation and from electricity purchased in low-carbon grids (those with a countrywide grid emission factor of 25 gr CO ₂ per kWh or less). The ratio declined starting from 2017 following deconsolidation of our Agriculture business, which generates substantial volumes of renewable energy from biowaste in sugarcane assets. Prior reported percentages have been restated following an update of country grid emission factors by the IEA for 2016 and onwards. Most notably, Zambia's grid emission factor increased to a level above our threshold, driving us to classify electricity procured from Zambia's grid as 'non renewable' as per 2016.
GRI 302	302-3	Energy intensity	Renewable electricity share of total energy usage (%)	23%	23%	23%		6	This is based upon Glencore's own renewable electricity generation and from electricity purchased in low-carbon grids (those with a countrywide grid emission factor of 25 gr CO ₂ per kWh or less), minus renewable electricity sold, divided by total electricity consumed.
			Percentage of operational spend on energy	10–15%	10–15% ²	10–15%			This range reflects the total spend on energy as a ratio to total operational spend at industrial assets.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

² The 2017 range has been extrapolated based upon prior year information.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Water									
GRI 303	303-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Water management <i>Glencore SR:</i> Material topics (pp. 12–13), Water and effluents (pp. 36–41) <i>Glencore AR:</i> Our strategy for a sustainable future (pp. 16–19)				7, 8	6	
GRI 303	303-1	Total water withdrawal	Total water withdrawal (million m ³)	971	924	1,020*		6	The increase was primarily due to the inclusion of the Volcan zinc assets in Peru.
			Surface water (million m ³)	190	178	198		6	
			Sea water (million m ³)	162	160	148		6	
			Groundwater (million m ³)	276	291	395		6	
			Rainwater (million m ³)	281	197	173		6	
			Potable water (million m ³)	19	19	19		6	
			Other water from third parties (million m ³)	45	80	86		6	
GRI 303	303-3	Percentage of water recycled and reused	Total volume of water recycled and reused (million m ³)	515	497	546	8, 9	6, 8	
			Percentage of water recycled (%)	35%	35%	35%	8	6, 8	The percentage reflects the quantity of water reused and recycled compared to the quantity of: – total water input, – water reused/recycled, and – water taken from storage facilities (i.e. change in storage).

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Biodiversity									
GRI 304	304-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Land management <i>Glencore SR:</i> Commodities report: Environment				7, 8	7	
GRI 304	304-1	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	Areas owned, leased, managed, located in, adjacent to, or that contain protected areas and areas of high biodiversity value outside protected areas (1,000 ha)	295	282	275	8	7	
GRI 304	304-2	Description of significant impacts of activities, products and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas	<i>Our approach to sustainability:</i> Land management <i>Glencore SR:</i> Commodities report: Environment				7, 8	7	We do not disclose impacts on biodiversity due to resettlements as they are not considered material.
MM1	MM1	Total land owned, leased or managed for mining operations	1,000 ha	2,303	2,072	2,116	8	7	In 2016, our Optimum (8,855ha of disturbed land) and Sherwin (1,624ha of disturbed land) operations were sold. In order to report following the land balance approach, 10,479ha was removed from our disturbed land resulting in the negative land disturbed. However, in 2016, we did disturb 3,288ha (10,479-7,191 = 3,288ha). In 2017, we redisturbed 168ha of land that we had previously rehabilitated and in 2018, we redisturbed 116ha of land we had previously rehabilitated. The redisturbed rehabilitated land is reflected in our 2016 and 2017 numbers. The land was redisturbed as areas were re-mined at deeper levels.
		Total land disturbed and not yet rehabilitated (A: opening balance)	1,000 ha	97	88	90	8	7	
		Total amount of land newly disturbed within the reporting period (B)	1,000 ha	-7	4	6	8	7	
		Total amount of land newly rehabilitated within the reporting period to the agreed end use (C)	1,000 ha	2	2	3	8	7	
		Total land disturbed and not yet rehabilitated (D= A+B-C; closing balance)	1,000 ha	88	90	93	8	7	
MM2	MM2	Number and percentage of total sites identified as requiring biodiversity management plans according to stated criteria, and the number (percentage) of those sites with plans in place	<i>Our approach to sustainability:</i> Land management <i>Glencore SR:</i> Commodities report: Environment	88%	91%	91%	8	7	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions									
GRI 305	305-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Air emissions, Climate change and energy <i>Glencore SR:</i> Climate change (pp. 30–35), Waste and air emissions (pp. 42–47) <i>Other:</i> Climate Change Considerations for our Business: 2017 Climate change position statement				7, 8	6	
GRI 305	305-1	Direct greenhouse gas (GHG) emissions (Scope 1)	Direct emissions (thousand tonnes CO ₂ e)	23,109	21,598	18,488*		6	<i>Glencore SR:</i> Climate change (pp. 28–35). The reduction in Scope 1 emissions is mainly due to the closure of underground assets in Australia.
			Direct emissions by commodity (thousand tonnes CO ₂ e)	23,109	21,598	18,488		6	
			– Agriculture	439	n/a	n/a		6	
			– Aluminium	80	–	0		6	
			– Coal	11,120	9,957	6,873		6	
			– Copper	1,610	1,659	1,496		6	
			– Ferroalloys	4,386	4,507	4,091		6	
			– Iron ore	–	–	–		6	
			– Nickel	2,312	2,403	2,768		6	
			– Oil	1,114	977	1,049		6	
			– Zinc	2,047	2,095	2,211		6	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-1	Direct greenhouse gas (GHG) emissions (Scope 1)	Direct emissions by region (thousand tonnes CO ₂ e)	23,109	21,598	18,488		6	
			– Africa	5,058	5,178	5,281		6	
			– Asia	1,137	1,234	1,217		6	
			– Australia	12,896	11,488	8,643		6	
			– Europe	922	722	352		6	
			– North America	922	800	802		6	
			– South/Latin America	2,174	2,176	2,193		6	
			Direct emissions by source (thousand tonnes CO ₂ e)	23,109	21,598	18,488		6	
			Fossil fuels	7,999	7,874	8,242		6	
			– Solid fossil fuels	2,011	1,946	1,861		6	This involves GHG emissions from consumption of coal and coke at our operations, for energy purposes.
			– Liquid fossil fuels	5,056	5,233	5,714		6	This involves GHG emissions from consumption of diesel and other oil products at our operations.
			– Gaseous fossil fuels	932	696	667		6	This involves GHG emissions from consumption of natural gas and other gas-based fossil fuels at our operations.
			Reductants	5,301	5,540	5,291		6	This regards usage of carbon-based materials to enable the chemical reduction of metal oxides.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-1		Emissions from fossil fuel extraction	8,838	7,824	4,566		6	This regards coal seam emissions from production of coal and extracted GHG emissions from production of oil. In both cases, this regards a mix of methane, CO ₂ and other GHG gases.
			– Underground	7,266	6,213	3,031		6	This regards coal seam emissions from underground coal operations as well as GHG emissions caused by the extraction of oil. In both cases, this primarily involves methane gases.
			– Open pit and stockpiling	1,263	1,181	1,223		6	This regards GHG emissions from open pit mining as well as from stockpiling coal prior to its sale.
			– Decommissioned mines	308	430	313		6	This regards GHG emissions from coal mines which have been closed.
			Other direct GHG emissions	970	360	389		6	This regards other GHG emissions, not covered in the above, directly caused by process activities. The substantial reduction starting from 2017 is caused by deconsolidating our Agriculture operations, which had GHG emissions from rice production.
			Biogenic CO ₂ emissions	Biogenic CO ₂ emissions (thousand tonnes CO ₂ e)	1,460	9	3		6

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments		
Environmental (continued)											
Emissions (continued)											
GRI 305	305-2	Scope 2 Location based	Indirect emissions (thousand tonnes CO ₂)	11,898	11,645	11,810*		6	This applies the grid emission factor to all our purchased electricity, regardless of specific renewable electricity contracts, as per the updated guidelines from the GHG protocol for Scope 2 emissions.		
			Indirect emissions by commodity (thousand tonnes CO ₂)	11,898	11,645	11,810*		6			
			– Agriculture	168	n/a	n/a		6			
			– Aluminium	38	–	–		6			
			– Coal	1,326	1,239	1,191		6			
			– Copper	1,740	1,757	1,615		6			
			– Ferroalloys	6,447	6,440	6,543		6			
			– Iron ore	–	–	–		6			
			– Nickel	37	39	66		6			
			– Oil	0	0	0		6			
			– Zinc	2,142	2,169	2,393		6			
			Indirect emissions by region (thousand tonnes CO ₂)	11,898	11,645	11,810*		6			
			– Africa	6,820	6,810	6,945		6			
		– Asia	880	948	994		6				
		– Australia	1,933	1,803	1,785		6				
		– Europe	1,157	1,046	1,026		6				
		– North America	148	79	78		6				
		– South/Latin America	959	958	982		6				
				Scope 2 Market based	Indirect emissions (thousand tonnes CO ₂)	12,747	12,653	12,712		6	Where applicable and available, this applies the supplier-specific emission factor regarding the purchased electricity contract, especially at operations with large volumes of purchased electricity in Australia, Argentina and the EU. Otherwise, it applies the country's residual emission factor (for EU countries) or the grid emission factor. This calculation rule has been implemented in line with the updated guidelines from the GHG protocol for Scope 2 emissions.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-1, 305-2	Total greenhouse gas emissions (Scope 1 + Scope 2 Location based)	Total emissions (thousand tonnes CO ₂ e (Scope 1); thousand tonnes CO ₂ (Scope 2))	35,007	33,243	30,298		6	The reduction in Scope 1 emissions is mainly due to the closure and sale of underground assets in Australia. The increase of our Scope 2 emissions is based on our new assets and overall production increases/ramp-ups, which outweigh any reductions resulting from site closures and divestitures.
GRI 305	305-3	Other relevant indirect (Scope 3) greenhouse gas emissions – total	Total emissions (thousand tonnes CO ₂ e)	302,429	289,998	313,071		6	This Scope 3 total includes all categories of our Scope 3 emissions which are relevant and material to our operations. The most material category is the use of sold products, relating to the use of produced coal and oil.
		Scope 3 – Purchased goods & services	Total emissions (thousand tonnes CO ₂ e)	835	743	782		6	This covers the estimated Scope 3 emissions from third party copper, lead, nickel and zinc feeds into our combined mine and smelting/processing facilities.
		Scope 3 – Fuel- and energy-related activities	Total emissions (thousand tonnes CO ₂ e)	1,054	919	930*		6	A major source of fuel- and energy-related Scope 3 emissions results from transmission and distribution losses of purchased electricity. The related CO ₂ emissions are calculated by applying the country specific transmission and distribution losses as presented by the World Bank and multiplying these losses with the country specific emissions from Scope 2 electricity purchased.
		Scope 3 – Upstream transportation & distribution	Total emissions (thousand tonnes CO ₂ e)	1,281	720	661		6	This concerns marine fuel consumed for time-chartered shipping, applying GHG protocol emission factors for the specific fuel types. This shipping concerns both upstream and downstream transportation. This total was 50% allocated to upstream transportation, whilst the other 50% is allocated to downstream transportation.
		Scope 3 – Downstream transportation & distribution	Total emissions (thousand tonnes CO ₂ e)	1,281	720	661		6	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-3	Scope 3 – Processing of sold products	Total emissions (thousand tonnes CO ₂ e)	11,645	11,222	11,180		6	This concerns further processing by clients of copper, nickel, zinc, ferrochrome and lead concentrates and metal which we've produced, applying GHG Protocol's 'average data' method. To estimate the Scope 3 emissions, our produced volumes are multiplied by the relevant embodied carbon coefficient. For concentrates, embodied carbon coefficients of primary (virgin) product are applied, representing the emissions of cradle-to-gate processing. For metals, embodied carbon coefficients of secondary (recycled) product are applied as a proxy for processing the metals into the product's dominant use, like copper wire in case of copper metal. The ICE database (2011) from University of Bath provides these coefficients for copper, zinc, lead and stainless steel. As ferrochrome and nickel are predominantly used in production of stainless steel, the embodied carbon coefficient of stainless steel is allocated to these two products by applying the average content percentages of these two products in stainless steel. The reported values incur some level of overlap with Glencore's Scope 1 and 2 emissions. Prior year values have been upward restated as this 2018 report now includes emissions from processing nickel and ferroalloys and differentiates for emissions from concentrates and metals.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-3	Scope 3 – Use of sold products	Total emissions (thousand tonnes CO ₂ e)	284,040	273,161	296,246*		6	Scope 3 emissions from the use of sold products relate to the use of saleable fossil fuels (coal and oil), produced by entities under Glencore operational control, on a 100% basis except for joint ventures, where the Group's attributable share of production is included. The volumes of saleable products are taken from Glencore's publicly available Production Report. A fossil fuel product is deemed saleable once it is not requiring further processing by Glencore operations. Regarding coal, the emissions value includes emissions from use of both thermal and metallurgical coal produced. Regarding oil, the emissions value relates to the gross production basis of our Glencore operated entity. The increase in 2018 is related to acquisitions of Australian coal assets during the reporting year.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-3	Scope 3 – Investments	Total emissions (thousand tonnes CO ₂ e)	2,227	2,464	2,546		6	This represents Glencore's share of Scope 1 and 2 emissions of the following investments: Antamina (Copper), Century (Alumina), Cerrejon (Coal) and Collahuasi (Copper). As per 2017 this value also includes Glencore's share of Scope 1 and 2 emissions of now deconsolidated Glencore Agriculture operations, causing an increase versus 2016. Where available, the Scope 1 and 2 total values as reported most recently by these companies were taken as input. In case no such data was available, the Scope 1 and 2 emissions from a comparable Glencore asset (eg within same country and same business) were extrapolated based upon production totals.
		Scope 3 – Other downstream: Coal seam emissions sent to third party operated power plant	Total emissions (thousand tonnes CO ₂ e)	65	49	64		6	This value concerns GHG emissions from sending coal seam emissions (e.g. methane) from our coal operations to third party operated power plants.
		Other Scope 3 categories						6	Other categories of Scope 3, as provided by the Greenhouse Gas Protocol, are not relevant or are immaterial to Glencore. This applies to: – Capital goods – Business travel – Employee commuting – Upstream leased assets – End of life treatment of sold products – Downstream leased assets – Franchises – Other upstream emissions.
		GHG emissions intensity Scope 1 and 2	t GHG/t Cu	4.34	4.38	4.09		6	The GHG emission intensity is calculated as a ratio of Scope 1 and 2 emissions of Glencore operated industrial assets which were owned by the end of the reporting year, divided by their copper equivalent production. Copper equivalent production is weighting the commodity's production volume by the baseline year ratio of the average price of that commodity, divided by the average price of copper.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Emissions (continued)									
GRI 305	305-6	Emissions of ozone-depleting substances (ODS)							Ozone depleting substances are not material to our operations.
GRI 305	305-7	NOx, SOx, and other significant air emissions	Total particulates: emissions – total mass (tonnes)	9,279	9,542	11,375		6	Includes air emissions from our industrial operations and mobile equipment. Excludes emissions from time-chartered vessels but includes those from vessels that we own.
			NOx (oxides of nitrogen): emissions – total mass (tonnes)	67,090	67,509	73,303		6	Includes air emissions from our industrial operations and mobile equipment. Excludes emissions from time-chartered vessels but includes those from vessels that we own.
			SOx (oxides of sulphur): emissions – total mass (tonnes)	401,490	357,731	381,191			Includes air emissions from our industrial operations and mobile equipment. Excludes emissions from time-chartered vessels but includes those from vessels that we own.
Effluents and Waste									
GRI 306	306-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Water management <i>Glencore SR:</i> Water and effluents (pp. 36–41) <i>Other:</i> Glencore Water Report 2018				7, 8	6	
GRI 306	306-1	Total water discharge by quality and destination	Total discharged water (million m ³)	759	637	709		6	The increase in 2018 was primarily due to the inclusion of the Volcan zinc assets in Peru.
			Water discharges to surface water (million m ³)	546	404	488		6	
			Water discharges to sea/ocean water (million m ³)	179	171	154		6	
			Water discharges to groundwater (million m ³)	2	25	3		6	
			Water discharges to offsite treatment (million m ³)	11	11	12		6	
			Water exported to a third party (million m ³)	22	26	53		6	

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Effluents and Waste (continued)									
GRI 306	306-2	Total weight of waste by type and disposal method	Total mineral waste (million tonnes)	2,025	2,137	2,264		6, 8	Data refers to mineral waste generated.
			Hazardous mineral waste (million tonnes)	196	236	223		6, 8	
			Non-hazardous mineral waste (million tonnes)	1,829	1,901	2,041		6, 8	
			Mineral waste recycled (%)	0.6%	0.8%	0.9%		6, 8	
			Total non-mineral waste (thousand tonnes)	482	394	325		6, 8	Data refers to non-mineral waste disposed of.
			Non-mineral waste recycled (%)	51%	46%	41%		6, 8	Non-mineral waste includes waste oils, spent cell lining, office, canteen and camp waste, scrap steel, tires and construction waste.
MM3	MM3	Total amounts of overburden, rock, tailings and sludges and their associated risks	Total amounts of overburden, rock, tailings and sludges (million tonnes)	2,025	2,137	2,264		6	Data refers to total mineral waste generated.
GRI 306	306-3	Total number and volume of significant spills and environmental incidents	Number of significant spills and environmental incidents	1	2	5		6	Significant spills are those reported under categories 3 (moderate), 4 (major) and 5 (catastrophic) according to Glencore's classification scheme. The significant environmental incidents in 2018 relate to five category 3 environmental incidents including a leaking diesel pipeline and acidic water entering a river (both in Colombia), a slurry spill and exceeded air emission limits (both in South Africa) and a chemical spill (in the DRC). No category 4 (major) or category 5 (catastrophic) incidents occurred in 2018.
			Volume of significant spills (m ³)	394,003	1,500	294		6	
Environmental Compliance									
GRI 307	307-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Environmental management <i>Glencore SR:</i> Our strategic approach (p. 9)				7,8,9	1	
GRI 307	307-1	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with environmental laws and regulations	Monetary value of environmental fines (\$)	364,630	297,279	2,203,107	7	6	A large share of the fines paid in 2018 occurred between 2006 and 2009 prior to our ownership of the sites. Corrective action was subsequently undertaken to prevent future occurrences.
			Number of non-monetary sanctions (environmental prosecutions, regulatory actions/orders, regulatory non-compliance, and other sustainability-related penalties)	62	30	73	7	6	
Several	Several	Total environmental protection expenditures and investments by type	Water-related CAPEX (\$ million)	69	65	110	8,9	6,10	Data only covers water-related expenses.
			Water-related OPEX (\$ million)	143	141	139	8,9	6,10	Data only covers water-related expenses.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
 n/a = not applicable

GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Environmental (continued)									
Supplier Environmental Assessment									
GRI 308	308-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Environmental management, Partners <i>Product stewardship:</i> Sourcing <i>Glencore SR:</i> Stakeholder engagement (p. 15), Product Stewardship (pp. 60–63)				7, 8	6, 8	
GRI 308	308-1	Percentage of new suppliers that were screened using environmental criteria	Percentage of new suppliers screened using environmental criteria (%)	35%	53%	51%	8	6	
Social									
Employment									
GRI 401	401-DMA	Disclosure on Management Approach	<i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67)				3, 4, 5, 6		
GRI 401	401-1	Total number and rates of new employee hires and employee turnover by age group, gender, and region	Redundancies:						
			Total redundancies	10,110	7,476	9,446			
			Redundancies (%)	10%	9%	11%			
			Total turnover by region (%)						
			– Africa	5%	5%	5%			
			– Asia	11%	11%	13%			
			– Australia	15%	14%	12%			
			– North America	10%	6%	8%			
			– South/Latin America	11%	12%	23%			
			– Rest of the world	13%	8%	18%			
			New employees:						
			Total number new employees	5,454	7,476	12,394			
			New employees (%)	5%	9%	15%			

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
 n/a = not applicable

GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments	
Social (continued)										
Labor/Management Relations										
GRI 402	402-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67)				3, 4, 5, 6			
GRI 402	402-1	Minimum notice period(s) regarding operational changes, including whether it is specified in collective agreements						3	Minimum notice periods vary across the Group, ranging from 1 week to 6 months (see also <i>Our approach to sustainability: Our people</i>).	
MM4	MM4	Number of strikes and lock-outs exceeding one week's duration	Number of strikes exceeding one week's duration	1	18	2		3		
			Number of lock-outs exceeding one week's duration	1	3	–		3		
Occupational Health and Safety										
GRI 403	403-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Safety, Health <i>Glencore SR:</i> Workplace health and safety (pp. 24–29)							
GRI 403	403-2	Total number of fatalities	Number of workforce fatalities (employees + contractors)	16	9	13*		5	The total number of occupational fatalities includes all work-related fatalities affecting employees and contractors working at Glencore's managed sites. Incidents of violence resulting in murder, other criminal acts resulting in fatality, acts of God, and death of natural causes are not considered occupational fatalities. Detailed data is tracked and monitored for internal use only, due to confidentiality constraints.	
		Number of fatalities of employees	Number of employee fatalities	11	3	7		5		
		Number of fatalities of contractors	Number of contractor fatalities	5	6	6		5		
		Total number of fatalities – by region (employees + contractors)	Africa		13	3	4		5	
			Australia		1	–	–		5	
			North America		–	–	–		5	
			South/Latin America		–	3	5		5	
Rest of the world		2	3	4		5				

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Occupational Health and Safety (continued)									
GRI 403	403-2	Number of fatalities – by region (employees)	Africa	10	2	1		5	
			Australia	–	–	–		5	
			North America	–	–	–		5	
			South/Latin America	–	–	3		5	
			Rest of the world	1	1	3		5	
		Number of fatalities – by region (contractors)	Africa	3	1	3		5	
			Australia	1	–	–		5	
			North America	–	–	–		5	
			South/Latin America	–	3	2		5	
			Rest of the world	1	2	1		5	
		Fatality frequency rate (FIFR): employees + contractors	FIFR (employees + contractors)	0.049	0.028	0.036		5	
		Fatality frequency rate (FIFR): employees	FIFR (employees)	0.058	0.018	0.041		5	
		Fatality frequency rate (FIFR): contractors	FIFR (contractors)	0.036	0.038	0.032		5	
		Total recordable injury frequency rate (TRIFR): employees + contractors	TRIFR (employees + contractors)	4.05	3.08	3.18*		5	
		Total recordable injury frequency rate (TRIFR): employees	TRIFR (employees)	4.56	3.42	3.35*		5	
		Total recordable injury frequency rate (TRIFR): contractors	TRIFR (contractors)	3.36	2.74	3.03*		5	
		Lost time injury frequency rate (LTIFR): employees + contractors	LTIFR (employees + contractors)	1.40	1.02	1.06*		5	
		Lost time injury frequency rate (LTIFR): employees	LTIFR (employees)	1.66	1.25	1.25*		5	
		Lost time injury frequency rate (LTIFR): contractors	LTIFR (contractors)	1.05	0.78	0.89*		5	
Occupational diseases frequency rate (LTDFR): employees + contractors	LTDFR (employees + contractors)	0.27	0.14	0.09		5			
Occupational diseases frequency rate (LTDFR): employees	LTDFR (employees)	0.44	0.27	0.18		5			
Occupational diseases frequency rate (LTDFR): contractors	LTDFR (contractors)	0.04	0.01	0.01		5			
Lost day rate	%	0.1%	0.1%	0.1%		5			
Absentee rate	%	3%	3%	3%		5			

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Occupational Health and Safety (continued)									
GRI 403	403-3	Workers involved in occupational activities who have a high incidence or high risk of specific diseases	<i>Our approach to sustainability:</i> Health <i>Glencore SR:</i> Workplace health and safety (pp. 24–29), Product stewardship (pp. 60–63)					5	
Training and Education									
GRI 404	404-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67)				6		
GRI 404	404-1	Average hours of training per year per employee	Average hours per worker (employees + contractors)	59	57	42	2		We don't collect this information by gender as we treat male and female employees equally.
		Percentage of training hours per employee category	Contractors (%)	28%	31%	39%	2		
			Management (%)	2%	1%	1%	2		
			Operational, production, maintenance (%)	61%	59%	49%	2		
		Supervisors, administration, technical (%)	9%	9%	10%	2			
Diversity and Equal Opportunity									
GRI 405	405-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67)				6		
GRI 405	405-1	Composition of governance bodies and breakdown of employees per category according to gender, age, minority group membership and other indicators of diversity	Minority group membership				6	3	Glencore has operations in areas where minority group membership data cannot be collected for privacy reasons. We therefore cannot provide an accurate number.
			Number of female employees	15,857	12,037	12,961	6	3	
			Percentage of female employees (%)	17%	14%	15%	6	3	
			Percentage of female managers (%)	19%	17%	16%	6	3	
		Number of female Board directors	1	2	2	6	3		
GRI 405	405-2	Ratio of basic salary of men to women by employee category	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67)				6	3	Our basic salaries are not differentiated by gender (1:1).

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
 n/a = not applicable

GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Non-discrimination									
GRI 406	406-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67), Ethics and compliance (p. 17), <i>Other:</i> Code of Conduct				6		
GRI 406	406-1	Total number of incidents of discrimination and actions taken	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Our people (pp. 64–67), Ethics and compliance (p. 17), <i>Other:</i> Code of Conduct	5	5	5	6	3	Each reported case of discrimination is carefully analysed and where confirmed, appropriate disciplinary action is taken.
Freedom of Association and Collective Bargaining									
GRI 407	407-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67)				3		
GRI 407	407-1	Operations and suppliers identified in which workers' rights to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights	Number of assets	0	0	0	3	3	<i>Glencore SR:</i> Our people (pp. 64–67).
Child Labor									
GRI 408	408-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people, Community and human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67), <i>Other:</i> Code of Conduct				5		
GRI 408	408-1	Operations and suppliers identified as having significant risk for incidents of child labour, and measures taken to contribute to the effective abolition of child labour	<i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Product stewardship (pp. 60–63), Our people (pp. 64–67)	0	0	0	5	3	Employees younger than 18 do not carry out any type of hazardous work (e.g. administrative trainees).

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Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Forced or Compulsory Labor									
GRI 409	409-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Our people, Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67), <i>Other:</i> Code of Conduct				4		
GRI 409	409-1	Operations and suppliers identified as having significant risk for incidents of forced or compulsory labour, and measures to contribute to the elimination of all forms of forced or compulsory labour	Number of assets	0	0	0	4	3	
Security Practices									
GRI 410	410-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)				1, 2		
GRI 410	410-1	Percentage of security personnel trained in the organisation's policies or procedures that are relevant to operations	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)	87%	46%	79%	1, 2	1, 3	Employed security personnel only.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Rights of Indigenous Peoples									
GRI 411	411-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)				1, 2		
GRI 411	411-1	Total number of incidents of violations involving rights of indigenous peoples and actions taken	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)	0	0	0	1, 2	3	No cases reported (refer also to MM6).
MM5	MM5	Number of sites located on or near indigenous people's land	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)	33	35	42	1, 2	3	
		Number of sites with operations in or adjacent to an indigenous community that have an agreement with that community	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)	23	23	n/a	1, 2	3	Not collected in 2018 but will be available again in 2019 reporting cycle.
Human Rights Assessment									
GRI 103	103-DMA	Disclosure on Management Approach	<i>Glencore SR:</i> Human rights and raising grievance mechanisms (pp. 48–53), Our people (pp. 64–67)				1, 2		
GRI 412	412-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Material topics (pp. 12–13), Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67)				1, 2		
GRI 412	412-1	Total number and percentage of operations that have been subject to human rights reviews or impact assessments	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53)				1, 2	1, 3	Our Group Human Rights policy requires our assets to conduct risk assessments for conflict and security concerns. If these risks are identified, our assets must align their practices with the Voluntary Principles.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Social (continued)									
Human Rights Assessment (continued)									
GRI 412	412-2	Total hours of employee training on human rights policies or procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained	Total hours of training	161,917	159,940	50,728	1, 2	1, 3	Employed security personnel only.
			Percentage of employees trained (%)	87%	46%	79%	1, 2	1, 3	Employed security personnel only.
GRI 412	412-3	Total number and percentage of significant investment agreements that include human rights clauses or that underwent human rights screening	<i>Our approach to sustainability:</i> Human rights <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Our people (pp. 64–67) <i>Other:</i> Human rights policy				1, 2	1, 3	We undertake due diligence of our major investments; human rights risks are considered as part of this process. We seek to ensure that all significant investment agreements include a requirement to comply, or demonstrate comparable practices, with the Glencore Code of Conduct, including its provisions on respect of human rights. Figures are tracked for internal purposes but not externally reported.
Society									
Local Communities									
GRI 413	413-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Stakeholder engagement, Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Community engagement and social commitment compliance (pp. 54–59)				1, 2		To help us consistently measure and report on our contributions, we have developed a socio-economic contribution scorecard. Going forward, we plan to integrate the scorecard into our existing community and stakeholder engagement systems.
GRI 413	413-1	Percentage of operations with implemented local community engagement, impact assessments, and/or development programs	<i>Our approach to sustainability:</i> Stakeholder engagement, Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Community engagement and social commitment compliance (pp. 54–59)				1, 2	3	We do not report the total percentage. Our assets/operations/projects are required to identify and assess issues, opportunities and risks throughout the life cycle of their activities, and to have community engagement and social investment strategies in place, as applicable.
GRI 413	413-2	Operations with significant actual or potential negative impacts on local communities	<i>Our approach to sustainability:</i> Stakeholder engagement, Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53), Community engagement and social commitment compliance (pp. 54–59)				1, 2	3	We give specific examples relevant to this throughout the SR.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Society (continued)									
Local Communities (continued)									
MM6	MM6	Number and description of significant disputes relating to land use, customary rights of local communities and indigenous peoples	Our approach to sustainability: Stakeholder engagement, Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53) Community engagement and social commitment compliance (pp. 54–59)	7	10	6	1, 2	3	There were six disputes relating to land use/ownership in 2018. These occurred at Coal assets in South Africa (Springlake, Middelkraal) and Australia (Wandoan).
MM7	MM7	The extent to which grievance mechanisms were used to resolve disputes relating to land use and customary rights of local communities and indigenous peoples, and the outcomes	<i>Our approach to sustainability:</i> Stakeholder engagement, Creating value for society <i>Glencore SR:</i> Human rights and raising grievance mechanisms (pp. 48–53), Community engagement and social commitment compliance (pp. 54–59)				1, 2	3	We require each asset where we have operational control to have a complaint registration process. This should include a formal grievance and conflict resolution process for community members and others to make complaints and raise concerns. The process should include transparent procedures for registering, evaluating and responding appropriately to the concerns raised. Complaints regarding access to land are mainly related to resettlement planning activities, and have been addressed through ongoing consultations around these processes.
			Total number of community complaints	963	1,063	1,057	1, 2	3	
MM8	MM8	Number (and percentage) of company operating sites where artisanal and small scale mining takes place on, or adjacent to, the site; the associated risks and the actions taken to manage and mitigate these risks	Number of sites	7	7	7	1, 2		<i>Our approach to sustainability:</i> Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53).
			Sites (%)	6%	6%	6%	1, 2		<i>Our approach to sustainability:</i> Creating value for society <i>Glencore SR:</i> Human rights and grievance mechanisms (pp. 48–53).
MM9	MM9	Sites where resettlements took place, the number of households resettled in each, and how their livelihoods were affected in the process	Number of sites with resettlement activities	2	1	2	1, 2		<i>Commodity reports:</i> Coal, pp. 79–81).
			Number of resettled households	3	1	11	1, 2		
MM10	MM10	Number and percentage of operations with closure plans	<i>Our approach to sustainability:</i> Environmental management, Land management <i>Glencore SR:</i> Implementing a proactive approach to rehabilitation and mine closure planning (p. 74), Raglan Mine's closure plan (p. 105)				1, 2		As required by our Group Environmental Policy all our production and mining sites must have closure plans in place.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
 * Independently assured by Deloitte LLP for 2018
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Society (continued)									
Supplier Social Assessment									
GRI 414	414-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17), Product stewardship (pp. 60–63), Human rights and raising grievance mechanisms (pp. 48–53)				1, 2, 6, 10	3, 5, 8	
GRI 414	414-1	Percentage of new suppliers that were screened using social criteria	Percentage of new suppliers screened (%)	n/a	48%	50%	1, 2, 6, 10	3	
Public Policy									
GRI 415	415-1	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Applying our sustainability framework, Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17) <i>Other:</i> Global Anti-Corruption Policy				10		
Product Responsibility									
Customer Health and Safety									
GRI 416	416-DMA	Disclosure on Management Approach	<i>Glencore SR:</i> Product stewardship (pp. 60–63)						
MM11	MM11	Programmes and progress relating to materials stewardship	<i>Glencore SR:</i> Product stewardship (pp. 60–63)				7, 8, 9	8	Progress is tracked internally, but not reported externally. Case studies have been provided in the SR giving examples of programmes.
GRI 416	416-1	Percentage of significant product and service categories for which health and safety impacts are assessed for improvement	<i>Glencore SR:</i> Product stewardship (pp. 60–63)				7, 8, 9	8	All our products are thoroughly assessed as part of the REACH registration and notification process.

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Databook and GRI references continued...

Key
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GRI Standard	Disclosure number	Description	Response/cross reference/unit of measurement	2016	2017 ¹	2018 ¹	UNGC principles	ICMM principles	Comments
Product Responsibility (continued)									
Marketing and Labelling									
GRI 417	417-1	Type of product and service information required by procedures for product and service information and labelling, and percentage of significant products and services categories subject to such information requirements	<i>Glencore SR:</i> Product stewardship (pp. 60–63)				7	8	Our sustainability framework requires our commodity products to conform with the regulations and good practice guidelines pertaining to the regions where we operate. This also applies to the information requirements of our products. In Europe we have prepared and submitted extensive dossiers for all substances within our products in line with REACH registration requirements, containing information on properties, environmental impacts and guidance for safe use. This information is actively sent to all our customers by means of safety data sheets. For products not subject to REACH requirements we have documented information on properties, environmental impacts and guidance for safe use and make this available to our customers as safety data sheets.
Socioeconomic Compliance									
GRI 419	419-DMA	Disclosure on Management Approach	<i>Our approach to sustainability:</i> Applying our sustainability framework, Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17) <i>Other:</i> Global Anti-Corruption Policy						
GRI 419	419-1	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and/or regulations in the social and economic area	<i>Our approach to sustainability:</i> Applying our sustainability framework, Working with business partners <i>Glencore SR:</i> Ethics and compliance (p. 17) <i>Other:</i> Global Anti-Corruption Policy						<i>Glencore AR:</i> Financial Review. Significant items (p. 55).

¹ 2016 data includes Glencore Agriculture; 2017 and 2018 excludes Glencore Agriculture.

Additional greenhouse gas emission reporting information

This section contains additional information on Glencore's greenhouse gas emission reporting and performance. The information is complementary to Glencore's climate change disclosures as part of the 2018 Annual Report, 2018 Sustainability Report, 2017 Climate change considerations for our business document and the GRI section of the 2018 Sustainability Report data book.

1. Additional greenhouse gas emission information: basis of reporting

Glencore's greenhouse gas emission reporting is based upon the Greenhouse Gas Protocol: A Corporate Accounting and Reporting Standard (Revised edition), applying the operational control boundary.

2. Greenhouse gas emission factors – Scope 1

Region	Type	Greenhouse Gas	Value	Unit	Effective Date	Description
Global	Natural Gas	Carbon Dioxide	56,100	kg GHG/TJ	01/01/2014	GHG Protocol Cross-Sector Tools – Stationary Combustion – (April 2014).
Global	Natural Gas	Methane	5.00000	kg GHG/TJ	01/01/2014	
Global	Natural Gas	Nitrous Oxide	0.10000	kg GHG/TJ	01/01/2014	
Global	Residual fuel oil	Carbon Dioxide	3,127	kg GHG/t (metric)	01/01/2014	
Global	Residual fuel oil	Methane	0.40400	kg GHG/t (metric)	01/01/2014	
Global	Residual fuel oil	Nitrous Oxide	0.02424	kg GHG/t (metric)	01/01/2014	
Global	Anthracite	Carbon Dioxide	2,625	kg GHG/t (metric)	01/01/2014	
Global	Anthracite	Methane	0.26700	kg GHG/t (metric)	01/01/2014	
Global	Anthracite	Nitrous Oxide	0.04005	kg GHG/t (metric)	01/01/2014	
Global	Coke oven coke	Carbon Dioxide	3,017	kg GHG/t (metric)	01/01/2014	
Global	Coke oven coke	Methane	0.28200	kg GHG/t (metric)	01/01/2014	
Global	Coke oven coke	Nitrous Oxide	0.04230	kg GHG/t (metric)	01/01/2014	
Global	Other kerosene	Carbon Dioxide	2.51938	kg GHG/L	01/01/2014	
Global	Other kerosene	Methane	0.00035	kg GHG/L	01/01/2014	
Global	Other kerosene	Nitrous Oxide	0.00002	kg GHG/L	01/01/2014	
Global	Gas/Diesel oil	Carbon Dioxide	2.67649	kg GHG/L	01/01/2014	
Global	Gas/Diesel oil	Methane	0.00036	kg GHG/L	01/01/2014	
Global	Gas/Diesel oil	Nitrous Oxide	0.00002	kg GHG/L	01/01/2014	
Global	Naphtha	Carbon Dioxide	2.51162	kg GHG/L	01/01/2014	
Global	Naphtha	Methane	0.00034	kg GHG/L	01/01/2014	
Global	Naphtha	Nitrous Oxide	0.00002	kg GHG/L	01/01/2014	
Global	Liquefied Petroleum Gases	Carbon Dioxide	1.61170	kg GHG/L	01/01/2014	
Global	Liquefied Petroleum Gases	Methane	0.00013	kg GHG/L	01/01/2014	
Global	Liquefied Petroleum Gases	Nitrous Oxide	0.00000	kg GHG/L	01/01/2014	

Additional greenhouse gas emission reporting information continued...

2. Greenhouse gas emission factors – Scope 1 (continued)

Global	Gasoline/Petrol	Carbon Dioxide	8.59873	kg GHG/gal (US)	01/01/2014	GHG Protocol Cross-Sector Tools – Transport Fuel Use – (April 2014).
Global	On-Road Diesel Fuel	Carbon Dioxide	10.13100	kg GHG/gal (US)	01/01/2014	
Global	Heavy fuel oil	Carbon Dioxide	11.12500	kg GHG/gal (US)	01/01/2014	
Global	Methane combusted	Carbon Dioxide	2.81016	t GHG (metric)/t (metric)	01/01/2006	Australian National Greenhouse Accounts (NGA) factors 2006 – Table 2.3: (Coal mine waste gas that is captured for combustion).
Global	Limestone flux reductant	CO ₂ -e	0.44000	kg GHG/kg	01/01/2006	GHG Protocol sector specific – Iron and steel 2008.

3. Greenhouse gas emission factors – Scope 2, purchased electricity grid emission factors

Region	Type	Greenhouse Gas	Value	Unit	Effective Date	Description
Canada – Nova Scotia	Purchased electricity	Carbon Dioxide	0.67	kg GHG/kWh	01/01/2016	National Intensity Report 1990 – 2016, Canada's 2018 UNFCCC Submission, Part 3, Table A13-4, page 66, CO ₂ intensity (g CO ₂ /kWh) for 2016 unfccc.int/sites/default/files/resource/can-2018-nir-13apr18.zip
Canada – British Columbia	Purchased electricity	Carbon Dioxide	0.0108	kg GHG/kWh	01/01/2016	
Canada – Quebec	Purchased electricity	Carbon Dioxide	0.0012	kg GHG/kWh	01/01/2016	
Canada – Ontario	Purchased electricity	Carbon Dioxide	0.035	kg GHG/kWh	01/01/2016	
Canada – New Brunswick	Purchased electricity	Carbon Dioxide	0.33	kg GHG/kWh	01/01/2016	
US Egrid – ERCT	Purchased electricity	Carbon Dioxide	1,009	lb GHG/MWh	01/01/2016	USA e-Grid. Source: tab SRL16, column SRCO ₂ RTA of updated 2016 file epa.gov/energy/emissions-generation-resource-integrated-database-egrid
US Egrid – CAMX	Purchased electricity	Carbon Dioxide	527.862	lb GHG/MWh	01/01/2016	
US Egrid – NEWE	Purchased electricity	Carbon Dioxide	558.156	lb GHG/MWh	01/01/2016	
US Egrid – NWPP	Purchased electricity	Carbon Dioxide	651.199	lb GHG/MWh	01/01/2016	
Australia – New South Wales	Purchased electricity	Carbon Dioxide	0.82	kg GHG/kWh	01/01/2018	Australia National Greenhouse Account Factors (NGER) update July 2018 Table 5 Indirect (scope 2) emission factors for consumption of purchased electricity from the grid, page 19 environment.gov.au/climate-change/climate-science-data/greenhouse-gas-measurement/publications/national-greenhouse-accounts-factors-july-2018
Australia – Queensland	Purchased electricity	Carbon Dioxide	0.8	kg GHG/kWh	01/01/2018	
Australia – Western Australia	Purchased electricity	Carbon Dioxide	0.7	kg GHG/kWh	01/01/2018	
Australia – Northern Territory	Purchased electricity	Carbon Dioxide	0.64	kg GHG/kWh	01/01/2018	

Additional greenhouse gas emission reporting information continued...

3. Greenhouse gas emission factors – Scope 2, purchased electricity grid emission factors (continued)

Region	Type	Greenhouse Gas	Value	Unit	Effective Date	Description
Argentina	Purchased electricity	Carbon Dioxide	376	g GHG/kWh	01/01/2016	IEA CO ₂ Emission Factors (2018 edition); CO ₂ emissions per kWh from electricity generation. Please note: this 2018 document contains the grid emission factors valid as per 2016.
Bolivia	Purchased electricity	Carbon Dioxide	483.3	g GHG/kWh	01/01/2016	
Chile	Purchased electricity	Carbon Dioxide	442.8	g GHG/kWh	01/01/2016	
Colombia	Purchased electricity	Carbon Dioxide	220.2	g GHG/kWh	01/01/2016	
Democratic Republic of Congo	Purchased electricity	Carbon Dioxide	1.1	g GHG/kWh	01/01/2016	
Germany	Purchased electricity	Carbon Dioxide	446.7	g GHG/kWh	01/01/2016	
Italy	Purchased electricity	Carbon Dioxide	330.6	g GHG/kWh	01/01/2016	
Kazakhstan	Purchased electricity	Carbon Dioxide	504.7	g GHG/kWh	01/01/2016	
Norway	Purchased electricity	Carbon Dioxide	8	g GHG/kWh	01/01/2016	
Peru	Purchased electricity	Carbon Dioxide	263.9	g GHG/kWh	01/01/2016	
South Africa	Purchased electricity	Carbon Dioxide	945.2	g GHG/kWh	01/01/2016	
Spain	Purchased electricity	Carbon Dioxide	245.8	g GHG/kWh	01/01/2016	
United Kingdom	Purchased electricity	Carbon Dioxide	278.2	g GHG/kWh	01/01/2016	
Zambia	Purchased electricity	Carbon Dioxide	52.9	g GHG/kWh	01/01/2016	

4. Global warming potential (GWP) values relative to CO₂

Region	Chemical formula	Greenhouse Gas	Global warming potential	Unit	Effective Date	Description
Global	CO ₂	Carbon dioxide	1	g CO ₂ e/g CO ₂	All years	IPCC Fifth Assessment Report, 2014 (AR5), GWP values for 100-year time horizon.
Global	CH ₄	Methane	28	g CO ₂ e/g CH ₄	All years	
Global	N ₂ O	Nitrous oxide	265	g CO ₂ e/g N ₂ O	All years	

5. Additional greenhouse gas emission information: carbon reduction initiatives

Stage of development	Number of projects	Total estimated (potential) annual t CO ₂ e savings	Descriptions of most material projects
Under investigation	8	1,327	Smelter: generate electricity from waste heat, implement more energy efficient compressor. Additional, more sizeable savings opportunities are under investigation but haven't been fully quantified yet, including further use of CO gas in alloys smelters for co-generation and ethanol production and further use of waste gas at oil production sites.
To be implemented	4	4,511	Smelter: purchase heat generated from forest waste; further electrification of oil production site.
Implementation commenced	5	805	Replacing engines and pumps by more energy efficient versions.
Implemented	6	8,050	Second wind mill at nickel Raglan mine in Canada, see Sustainability Report 2018, page 33-34 for more details on this and other projects.
Not to be implemented	2	9,737	Smelter: replace natural gas heating with pressure filters and alternative heating.

Additional greenhouse gas emission reporting information continued...

6. Additional greenhouse gas emission information: participation in emission trading schemes in 2018

Emission trading scheme name	Carbon allowances allocated	Carbon allowances purchased	Verified emissions (t CO ₂ e)	Description
European Union ETS	584,982	–	316,721	Zinc operations in Germany and Italy.
Ontario cap and trade system	153,091	–	92,151	Nickel and Zinc operations in Ontario, Canada. Note: Ontario repealed its cap-and-trade system on July 2nd, 2018.
Quebec cap and trade system	336,280	5,850	319,992	Copper and Nickel operations in Quebec, Canada.
Kazakhstan emission trading scheme	1,781,461	–	556,471	Zinc operations in Kazakhstan.

7. Additional greenhouse gas emission information: break down of coal production by mine type

Mine type	2016	2017	2018	Description
Underground	18%	17%	13%	Percentage of coal production from underground operations.
Surface	82%	83%	87%	Percentage of coal production from surface operations.

Glencore plc

Baarermattstrasse 3
CH-6340 Baar
Switzerland

Tel: +41 41 709 2000

Fax: +41 41 709 3000

E-mail: info@glencore.com

glencore.com