

SUSTAINABILITY DATA TABLES

These tables provide the data for the material Global Reporting Initiative Indicators, as identified in the GRI Navigator, which is located on our website.

References to the 'Africa region' includes the Operations and offices within South Africa and Mozambique, whereas the 'Australia region' includes Operations and regional offices in Australia and Colombia. Totals include the corporate and other global office data.

Metrics describing health, safety, environment and community (HSEC) performance apply to "operated assets" that have been wholly operated by South32, or that have been operated by South32 in a joint venture operation, from 1 July 2016 to 30 June 2017 (FY17).

Where there have been changes to previously reported data, this is shown in italics. Restatements occur due to changes in multipliers outside of our control, such as emission factors, or where we have improved the way we apply our reporting standards, such as improved application of the Water Accounting Framework.

SAFETY AND HEALTH

Workforce data by region

	Fatalities FY17	TRIF ⁽¹⁾⁽²⁾ FY15	TRIF ⁽¹⁾⁽²⁾ FY16	TRIF ⁽¹⁾⁽²⁾ FY17	TRILF ⁽²⁾⁽³⁾ FY15	TRILF ⁽²⁾⁽³⁾ FY16	TRILF ⁽²⁾⁽³⁾ FY17	TRILF ⁽²⁾⁽³⁾ employees FY17	TRILF ⁽²⁾⁽³⁾ contractors FY17
Africa region	1	3.34	3.52	2.43	3.90	0.73	0.29	0.43	0.14
Australia region	0	10.43	15.14	13.33	2.61	2.30	3.21	4.56	1.24
Total	1	5.79	7.74	6.02	3.44	1.29	1.26	1.87	0.48

(1) Total Recordable Injury Frequency (TRIF): The sum of (fatalities + lost-time cases + restricted work cases + medical treatment cases) x 1,000,000 ÷ actual hours worked, for employees and contractors. Stated in units of recordable injuries per million hours worked.

(2) To ensure that incident classification definitions are applied uniformly across our workforce, we have adopted the United States Government Occupational Safety and Health Assessment (OSHA) guidelines for the recording and reporting of occupational injuries and illnesses.

(3) Total Recordable Illness Frequency (TRILF): The sum of total occupational illness x 1,000,000 ÷ actual hours worked, for employees and contractors. Stated in units of recordable occupational illnesses per million hours worked.

Regional safety fines levied

	2017	Number of fines
Africa region	\$0	0
Australia region	\$0	0
Total	\$0	0

PEOPLE

Employee head count by age, gender and location in FY17 ⁽⁴⁾

	<30 Years Old	30-50 Years Old	>50 Years Old	Male	Female	Total
Australia	519	2,953	1,007	3,897	582	4,479
Brazil	4	12	1	9	8	17
Colombia	40	626	201	798	69	867
Mozambique	122	896	110	1,023	105	1,128
Singapore	9	103	10	51	71	122
South Africa	1,037	4,887	1,440	5,942	1,422	7,364
United Kingdom	0	22	3	11	14	25
Total	1,731	9,499	2,772	11,731	2,271	14,002

(4) Employee numbers exclude Non-Executive Directors (except where stated otherwise) and are the total as at 30 June 2017.

Employees by Employment Contract, Employment type and gender in FY17 ⁽⁴⁾

	Male	Female	Total
Permanent	11,346	2,092	13,438
Full-time	11,336	2,043	13,379
Part-time	10	49	59
Temporary	385	179	564
Total	11,731	2,271	14,002

Employees by Employee Category, Gender, Age and Minority group members in FY17 ⁽⁴⁾

	<30 Years Old	30-50 Years Old	>50 Years Old	Male	Female	Black
Board*	0%	14%	86%	86%	14%	29%
Executives	0%	67%	33%	83%	17%	0%
Senior Management	0%	74%	26%	69%	31%	13%
Management	1%	83%	16%	81%	19%	24%
Supervisory / Professional / Operational / Support	13%	67%	20%	84%	16%	42%

* Includes Non-Executive Directors

Employee Turnover and region in FY17 ⁽⁵⁾⁽⁶⁾

	<30 Years Old	30-50 Years Old	>50 Years Old	Male	Female	TOTAL	Rate
Africa	43	154	40	198	39	237	2.8%
Asia	0	9	0	4	5	9	7.4%
Australia	46	131	58	195	40	235	5.2%
Europe	0	0	0	0	0	0	0.0%
South America	2	22	18	34	8	42	4.8%
Total	91	316	116	431	92	523	3.7%

New Employee Hires and region in FY17 ⁽⁶⁾

	<30 Years Old	30-50 Years Old	>50 Years Old	Male	Female	TOTAL	Rate
Africa	154	161	9	239	85	324	3.8%
Asia	4	9	1	6	8	14	11.5%
Australia	103	185	29	196	121	317	7.1%
Europe	0	3	0	2	1	3	12.0%
South America	11	25	0	11	25	36	4.1%
Total	272	383	39	454	240	694	5.0%

(4) Employee numbers exclude Non-Executive Directors (except where stated otherwise) and are the total as at 30 June 2017.

(5) Turnover rates include employees who left South32 voluntarily or due to dismissal, retirement, or death in service.

(6) Turnover and new hire rates are calculated using the total number of employees per region for FY17 as the denominator and the total count for FY17 as the numerator.

ENVIRONMENT**Regional environmental fines levied**

	FY17 (US\$)	Number of fines
Africa region	110,390	3
Australia region	0	0
Total	110,390	3

Water⁽⁷⁾

		FY15	FY16	FY17
Inputs				
Water input by quality - type 1	megalitres	14,281	18,355	20,052
Water input by quality - type 2	megalitres	21,718	26,296	29,234
Water input by quality - type 3	megalitres	29,077	28,377	42,952
Water input by source - surface water	megalitres	32,306	35,939	49,420
Water input by source - groundwater	megalitres	25,387	26,215	29,295
Water input by source - seawater	megalitres	0	0	415
Water input by source - third party water	megalitres	7,382	10,874	13,107
Outputs				
Water output by quality - type 1	megalitres	36,345	39,446	36,262
Water output by quality - type 2	megalitres	10,463	14,957	21,972
Water output by quality - type 3	megalitres	9,697	9,896	14,203
Water output by destination - surface water	megalitres	3,994	8,857	15,163
Water output by destination - groundwater	megalitres	3,030	4,018	3,585
Water output by destination - sea water	megalitres	2,962	3,043	3,570
Water output by destination - third party water	megalitres	6,798	7,115	11,505
Water output by destination - other	megalitres	39,721	41,265	38,613
Recycling				
Water recycled and reused	megalitres	95,482	97,860	102,264

(7) South32 reports its water data according to the Minerals Council of Australia's Water Accounting Framework (WAF). The WAF is the accepted industry water accounting standard which aims to improve data integrity and comparability across the sector to ensure the continuous improvement of water reporting. Restatements appear in italics due to improvements in the way we have applied the Water Accounting Framework (WAF).

Land holdings and rehabilitation

		FY15	FY16	FY17
Total land disturbed	hectares	23,880	24,047	23,028
Total land rehabilitated	hectares	13,843	14,415	15,144
Total land set aside for conservation	hectares	767	2,105	2,107
Land owned, leased or managed	hectares	524,035	525,577	609,279

Designated protected areas in FY17

	Areas adjacent to land managed by our operations	Areas of land managed by our operations	Size of common land on or overlapping designated protected area
	Number	Number	Hectares
Mozambique			
Terrestrial	0	0	0
Freshwater	0	0	0
Maritime	0	0	0
South Africa			
Terrestrial	1	1	3,137
Freshwater	0	1	3
Maritime	0	0	0
Australia			
Terrestrial	2	4	712
Freshwater	0	0	0
Maritime	1	0	0
Colombia			
Terrestrial	1	0	0
Freshwater	0	0	0
Maritime	0	0	0
Total			
Terrestrial	4	5	3,849
Freshwater	0	1	3
Maritime	1	0	0

Biodiversity Management Plans (BMPs)

	FY17
Implemented required BMPs	100% of Management Plans have been implemented where required. We have introduced a new risk-based approach to identify where additional controls, through management plans, are required.

Energy

		FY15	FY16	FY17
Africa region				
Energy use - electricity	petajoules	72	70	70
Energy use - coal and coke	petajoules	8	4	4
Energy use - natural gas	petajoules	3	3	2
Energy use - distillate/gasoline	petajoules	4	3	3
Energy use - other	petajoules	17	17	17
Energy use - total	petajoules	104	96	97
Energy use - renewable sources	petajoules	29	29	29
Australia region				
Energy use - electricity	petajoules	10	9	9
Energy use - coal and coke	petajoules	31	34	38
Energy use - natural gas	petajoules	27	25	25
Energy use - distillate/gasoline	petajoules	4	4	4
Energy use - other	petajoules	7	5	1
Energy use - total	petajoules	79	78	77
Energy use - renewable sources	petajoules	6	5	8
Total				
Energy use - electricity	petajoules	82	79	79
Energy use - coal and coke	petajoules	39	38	42
Energy use - natural gas	petajoules	30	28	27
Energy use - distillate/gasoline	petajoules	8	7	7
Energy use - other	petajoules	24	22	18
Energy use - total	petajoules	183	174	174
Energy use - renewable sources	petajoules	35	34	37

Emissions

		FY15	FY16	FY17
Africa region				
GHG - Scope 1 ⁽⁸⁾	millions of tonnes CO ₂ -e	4.0	3.4	3.1
GHG - Scope 2 ⁽⁸⁾ market-based	millions of tonnes CO ₂ -e	12.2	11.3	11.3
GHG - Scope 2 location-based ⁽⁹⁾	millions of tonnes CO ₂ -e	-	19.5	19.6
GHG Scope 1 and 2	millions of tonnes CO ₂ -e	16.2	14.7	14.4
Total oxides of sulphur	tonnes	22,595	23,225	23,276
Total oxides of nitrogen	tonnes	3,084	2,541	2,594
Total mercury	tonnes	0.00	0.00	0.00
Australia region				
GHG - Scope 1 ⁽⁸⁾	millions of tonnes CO ₂ -e	7.0	7.7	7.5
GHG - Scope 2 market-based ⁽⁸⁾	millions of tonnes CO ₂ -e	1.1	1.0	0.7
GHG - Scope 2 location-based ⁽⁹⁾	millions of tonnes CO ₂ -e	-	1.0	0.7
GHG Scope 1 and 2	millions of tonnes CO ₂ -e	8.1	8.7	8.2
Total oxides of sulphur	tonnes	12,520	13,740	15,916
Total oxides of nitrogen	tonnes	7,586	7,592	7,831
Total mercury	tonnes	0.26	0.26	0.86
Total				
GHG - Scope 1 ⁽⁸⁾	millions of tonnes CO ₂ -e	11.0	11.1	10.6
GHG - Scope 2 market-based ⁽⁸⁾	millions of tonnes CO ₂ -e	13.3	12.3	12.0
GHG - Scope 2 location-based ⁽⁹⁾	millions of tonnes CO ₂ -e	-	20.5	20.3
GHG Scope 1 and 2	millions of tonnes CO ₂ -e	24.3	23.4	22.6
Scope 3 ⁽¹⁰⁾	millions of tonnes CO ₂ -e			125
Total oxides of sulphur	tonnes	35,115	36,965	39,192
Total oxides of nitrogen	tonnes	10,669	10,133	10,425
Total mercury	tonnes	0.26	0.26	0.86

GHG emissions by Source

		FY15	FY16	FY17
GHG from electricity	millions of tonnes CO ₂ -e	13.0	12.1	12.0
GHG from fugitive sources	millions of tonnes CO ₂ -e	3.5	3.8	3.0
GHG from coal & coke	millions of tonnes CO ₂ -e	3.5	3.4	3.8
GHG from other sources	millions of tonnes CO ₂ -e	2.2	2.1	1.9
GHG from natural gas	millions of tonnes CO ₂ -e	1.5	1.4	1.4
GHG from distillate and gas	millions of tonnes CO ₂ -e	0.6	0.6	0.5
Total	millions of tonnes CO₂-e	24.3	23.4	22.6

(8) Measured according to the World Resources Institute/World Business Council for Sustainable Development Greenhouse Gas Protocol. *Restatements appear in italics due to changes in factors for Scope 2 emissions*

(9) In accordance with the new GHG Protocol Scope 2 disclosure requirements, our location-based Scope 2 emissions were 20.3Mt CO₂-e, which is 8.3Mt CO₂-e higher than our market-based emissions. This difference is associated with our purchase of hydroelectric power at Mozambique Aluminium. Unless otherwise noted, all scope 2 emissions reported are calculated using the market-based method.

(10) The calculation of our scope 3 emissions is in accordance with the methodologies in the World Resources Institute *Greenhouse Gas Protocol Corporate Value Chain (Scope 3) Accounting and Reporting Standard*. Detail on the specific methodologies used for each scope 3 category can be found on our website.

Waste

		FY15	FY16	FY17
Africa region				
Hazardous waste - mineral total	kilotonnes	8,060	3,698	3,771
Non-hazardous waste - mineral tailings	kilotonnes	11,823	10,200	9,506
Accidental discharge of water and tailings ⁽¹¹⁾	megalitres	0.0	0.0	0.0
Australia region				
Hazardous waste - mineral total	kilotonnes	12,322	12,207	12,455
Non-hazardous waste - mineral tailings	kilotonnes	9,216	6,449	6,729
Accidental discharge of water and tailings ⁽¹¹⁾	megalitres	0.0	0.0	0.0
Total				
Hazardous waste - mineral total	kilotonnes	20,382	15,905	16,226
Non-hazardous waste - mineral tailings	kilotonnes	21,039	16,649	16,236
Accidental discharge of water and tailings ⁽¹¹⁾	megalitres	0.0	0.0	0.0

(11) Data reported for environmentally significant events

SOCIETY**Community Investment⁽¹²⁾**

	FY15	FY16	FY17
Community contributions	\$18,600,000	\$16,533,840	14,327,744

Community Investment⁽¹²⁾ by Country FY17

		Total	Percentage
South Africa	US\$	7,343,190	51.3%
Colombia	US\$	4,609,122	32.2%
Australia	US\$	1,317,025	9.2%
Mozambique	US\$	1,058,407	7.4%

(12) Community investment consists of cash, in-kind support and administrative costs and includes donations and investment of funds in the broader community where the target beneficiaries are external to the company. The amount accounts for actual expenditures in the reporting period, not commitments, prepared on an accruals basis and representing South32's equity share for operated assets.

Community complaints

	FY16	FY17
Africa region		
Dust	0	3
Noise	0	0
Odour	0	0
Other	8	4
All	8	7
Australia region		
Dust	8	9
Noise	82	62
Odour	2	2
Other	22	37
All	114	110
Total		
Dust	8	12
Noise	82	62
Odour	2	2
Other	30	41
All	122	117

Community engagement plans

	FY17
Percentage of operations with implemented local engagement, impact assessments, and development programs	100%

Cultural awareness training

	FY16	FY17
Employees	5404	1155

Human rights training

	FY16	FY17
Employees	4,980	851
Contractors	3,248	1254

Human rights reviews conducted

	Percentage of sites reviewed
Africa region	100%
Australia region	100%

Security training

	FY16	FY17
Africa region	621	729
Australia region	57	64
Total	678	793