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Clean Energy Regulator

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NATIONAL GREENHOUSE AND ENERGY REPORTING
SECTION 19 - ENERGY AND EMISSIONS REPORT
SARACEN MINERAL HOLDINGS LIMITED
FOR THE REPORTING YEAR 2017 – 2018

REPORT UNDER SECTION 19 OF THE *NATIONAL GREENHOUSE AND ENERGY REPORTING ACT 2007*

Corporations registered under Division 3 of Part 2 of the *National Greenhouse and Energy Reporting Act 2007* (the NGER Act) are required to provide a report to the Clean Energy Regulator (the Regulator) by 31 October each year in respect of the previous financial year relating to:

- greenhouse gas emissions; and
- energy production; and
- energy consumption;

from the operation of facilities under the operational control of the corporation and entities that are members of the corporation's group, during that financial year.

A report under section 19 of the NGER Act must be given in a manner and form approved by the Regulator and set out the information specified in the *National Greenhouse and Energy Reporting Regulations 2008* (the NGER Regulations). The report must also be based on the methods, or methods which meet criteria, set out in the *National Greenhouse and Energy Reporting (Measurement) Determination 2008* (the Measurement Determination).

This report is an approved form in which a report under section 19 of the NGER Act may be given to the Regulator.

Giving false or misleading information is a serious offence.

SUBMITTING THE REPORT

The approved manner for submission of the section 19 report is completion and submission of the report in the Emissions and Energy Reporting System.

Your report must be submitted to the Regulator by 31 October 2018.

If a copy of this report is printed in hardcopy form for any purpose it does not represent, nor can it be treated as, an official version of the report submitted to the Regulator.

CONTROLLING CORPORATION DETAILS

Name	SARACEN MINERAL HOLDINGS LIMITED
Australian Business Number (ABN)	52009215347
Australian Company Number (ACN)	-
Australian Registered Body Number (ARBN)	-
Trading Name	Saracen
Head office postal address:	
Postal address line 1	PO Box 2563
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	Perth
Postal state	Western Australia
Postal postcode	6001
Postal country	AUSTRALIA
Head office street address:	
Street address line 1	Level 11
Street address line 2	40 The Esplanade
Street address line 3	-
Street city/suburb	Perth
Street state	Western Australia
Street postcode	6000
Street country	AUSTRALIA

EXECUTIVE OFFICER (OR EQUIVALENT) DETAILS

Name	Raleigh Finlayson
Position	Managing Director
Phone	0862299114
Mobile	0408900527
Fax	0862299114
Email	rfinlayson@saracen.com.au
Postal address line 1	P.O. Box 2563
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	PERTH
Postal state	
Postal postcode	6001
Postal country	AUSTRALIA

CONTACT PERSON DETAILS

Name	Robert Mills
Position	Environmental Coordinator
Phone	0862299503
Mobile	-
Fax	0862299599
Email	rmills@saracen.com.au
Postal address line 1	GPO Box 2563
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	PERTH
Postal state	
Postal postcode	6001
Postal country	AUSTRALIA

SARACEN MINERAL HOLDINGS LIMITED EMISSION AND ENERGY REPORT SUMMARY

The table below reports total scope 1 and scope 2 greenhouse gas emissions, energy produced and energy consumed by the corporate group SARACEN MINERAL HOLDINGS LIMITED for the 2017 - 2018 reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
187,170	65	187,235

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
3,649,181	3,015,390	633,791

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
186,365	351	440	-	-	14	187,170

UNCERTAINTY

The NGER Regulations require a registered corporation's report to include the amount of uncertainty associated with estimates of scope 1 emissions for their corporate group. Uncertainty is to be assessed for an emissions estimate so that a range for statistical uncertainty is provided at a 95% confidence level. The uncertainty of emissions estimates is to be calculated in accordance with the rules set out in Chapter 8 of the NGER Determination, including in accordance with the Greenhouse Gas Protocol guidance on uncertainty assessment in greenhouse gas inventories and calculating statistical parameter uncertainty (September 2003), as applicable.

FACILITY NAME : CAROSUE DAM OPERATIONS		
Fuel Type	Emission Total (tCO ₂ -e)	Uncertainty %
Diesel oil	43,462	2.2

FACILITY NAME : THUNDERBOX OPERATIONS		
Fuel Type	Emission Total (tCO ₂ -e)	Uncertainty %
Diesel oil	48,694	2.9
Natural gas distributed in a pipeline	39,001	5.8

SARACEN MINERAL HOLDINGS LIMITED EMISSION AND ENERGY REPORT DETAIL

Corporate Structure

The table below lists the entities whose greenhouse gas emissions and energy production and energy consumption are included in the S19 report.

No.	Entity Details	Scope 1 Emissions (t CO2-e)	Scope 2 Emissions (t CO2-e)	Energy Consumed Total (GJ)	Energy Consumed Net (GJ)	Energy Produced (GJ)
1	Perth Corporate Office Type: Facility	0	65	332	332	0
2	SARACEN GOLD MINES PTY LIMITED Type: Group Member	82,142	-	1,630,011	1,301,154	328,857
3	SARACEN GOLD MINES PTY LIMITED Type: Group Member Carosue Dam Operations Type: Facility	67,587	0	1,374,470	1,090,356	284,114
4	SARACEN GOLD MINES PTY LIMITED Type: Group Member Deep South Operations Type: Facility	12,604	0	218,975	182,993	35,982
5	SARACEN GOLD MINES PTY LIMITED Type: Group Member Red October Mine Site Type: Facility	1,951	0	36,566	27,805	8,761
6	SARACEN METALS PTY LIMITED Type: Group Member	105,028	-	2,018,838	1,713,904	304,934
7	SARACEN METALS PTY LIMITED Type: Group Member Kailis Operations Type: Facility	15,629	0	229,110	226,599	2,511
8	SARACEN METALS PTY LIMITED Type: Group Member King of the Hills Type: Facility	761	0	14,726	10,849	3,877
9	SARACEN METALS PTY LIMITED Type: Group Member Thunderbox Operations Type: Facility	88,638	0	1,775,002	1,476,456	298,546

1: PERTH CORPORATE OFFICE - FACILITY

Name	Perth Corporate Office
Facility Street Address	Level 11, 40 The Esplanade Perth Western Australia 6000
Geographic Coordinates	Latitude 31.956S / Longitude 115.856E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	729 - Other administrative services
Operational Control	SARACEN MINERAL HOLDINGS LIMITED
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2017 - 30/06/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN MINERAL HOLDINGS LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
-	65	65

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
332	332	-

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
-	-	-	-	-	-	-

SCOPE 2 EMISSIONS					
Activity Type	Amount	Units	Emission Factor (kg CO ₂ -e / unit)	Scope 2 Emissions (t CO ₂ -e)	
Purchase and loss of electricity from main electricity grid in a State or Territory	92,267	kWh	0.7	65	
Total				65	

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub- criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Purchase and loss of electricity from main electricity grid in a State or Territory	-	-	-	-	92,267	kWh	0.0036	332
Total								332

2: SARACEN GOLD MINES PTY LIMITED - GROUP MEMBER

Name	SARACEN GOLD MINES PTY LIMITED
Australian Business Number (ABN)	14116649122
Australian Company Number (ACN)	116649122
Australian Registered Body Number (ARBN)	-
Trading Name	-
Street address line 1	Level 11, 40 The Esplanade
Street address line 2	-
Street address line 3	-
Street city/suburb	Perth
Street state	Western Australia
Street postcode	6000
Street country	AUSTRALIA

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
82,142	-	82,142

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,630,011	1,301,154	328,857

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
81,731	176	223	-	-	12	82,142

3: CAROSUE DAM OPERATIONS - FACILITY

Name	Carosue Dam Operations
Facility Street Address	120km NE of Kalgoorlie (Via Yarri rd) Kalgoorlie Western Australia 6430 AUSTRALIA
Geographic Coordinates	Latitude 30.154S / Longitude 122.352E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN GOLD MINES PTY LIMITED
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2017 - 30/06/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
67,587	-	67,587

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,374,470	1,090,356	284,114

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
67,240	156	180	-	-	11	67,587

SCOPE 1 EMISSIONS						
EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor						
Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of gaseous fuels - Stationary energy purposes	Fuel / Energy commodity: Gaseous fossil fuels other than those mentioned in items 17 to 26 Fuel usage: combustion Criterion: A	510 m ³	EC (GJ/Unit): 0.0393 Z (GJ): 20	Gas: CO ₂ EF (kg CO₂-e / GJ): 51.4 Method: Method 1	1	
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	0	
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.03 Method:	0	

				Method 1	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: AA	3,611.971 kL	EC (GJ/Unit): 38.6 Z (GJ): 139,422	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	9,746
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	14
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	28
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Liquefied petroleum gas Fuel usage: combustion Criterion: A	487.679 kL	EC (GJ/Unit): 25.7 Z (GJ): 12,533	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	755
				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	3
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	3
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: BBB	14.931 kL	EC (GJ/Unit): 38.6 Z (GJ): 576	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	40

				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Fuel oil Fuel usage: combustion Criterion: BBB	94.164 kL	EC (GJ/Unit): 39.7 Z (GJ): 3,738	Gas: CO2 EF (kg CO2-e / GJ): 73.6 Method: Method 1	275
				Gas: CH4 EF (kg CO2-e / GJ): 0.04 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	1
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Fuel / Energy commodity: Diesel oil - Transport post-2004 Fuel usage: combustion Criterion: AA	2,193.095 kL	EC (GJ/Unit): 38.6 Z (GJ): 84,653	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	5,917
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	1
				Gas: N2O	51

				EF (kg CO2-e / GJ): 0.6 Method: Method 2	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based oils (other than petroleum based oil used as fuel) Fuel usage: combustion Criterion: A	203.146 kL	EC (GJ/Unit): 38.8 Z (GJ): 7,882	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	110
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based greases Fuel usage: combustion Criterion: A	15.317 kL	EC (GJ/Unit): 38.8 Z (GJ): 594	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	2
Source Total			249,418		16,947
Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Gaseous fuels	Fuel / Energy commodity: Liquefied natural gas Fuel usage: combustion Criterion: A	17,569.02 kL	EC (GJ/Unit): 25.3 Z (GJ): 444,496	Gas: CO2 EF (kg CO2-e / GJ): 51.4 Method: Method 1	22,847
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	44
				Gas: N2O EF (kg CO2-e / GJ): 0.03 Method: Method 1	13
Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Liquid fuels	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: AA	10,209.544 kL	EC (GJ/Unit): 38.6 Z (GJ): 394,088	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	27,547
				Gas: CH4	39

				EF (kg CO2-e / GJ): 0.1 Method: Method 1	
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	79
Source Total			838,584		50,569
Source category: Industrial processes Source of emissions: Emissions of hydrofluorocarbons and sulphur hexafluoride gases Activity type: Emissions of sulphur hexafluoride gases from gas insulated switchgear and circuit breaker applications	-	1,244.88 tonnes	-	Gas: SF6 EF (kg CO2-e / GJ): - Method: Method 1	11
Source Total			-		11
Source category: Waste Source of emissions: Wastewater handling (domestic or commercial) Activity type: Emissions of methane and nitrous oxide released from wastewater handling (domestic and commercial)	-	-	-	Gas: CH4 EF (kg CO2-e / GJ): - Method: Other Method	55
				Gas: N2O EF (kg CO2-e / GJ): - Method: Other Method	5
Source Total			-		60
Total			1,088,002		67,587

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Gaseous fuels	Liquefied natural gas	combustion	A	-	17,569.02	kL	25.3	444,496
Electricity production - Liquid fuels	Diesel oil	combustion	AA	-	10,209.544	kL	38.6	394,088
Total								838,584

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	AA	-	2,193.095	kL	38.6	84,653
Total								84,653

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PURPOSES OTHER THAN PRODUCING ELECTRICITY, PRODUCING A CHEMICAL OR METAL PRODUCT OR FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of gaseous fuels - Stationary energy purposes	Gaseous fossil fuels other than those mentioned in items 17 to 26	combustion	A	-	510	m3	0.0393	20
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	AA	-	3,611.971	kL	38.6	139,422
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	-	487.679	kL	25.7	12,533
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	-	14.931	kL	38.6	576
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel oil	combustion	BBB	-	94.164	kL	39.7	3,738
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	203.146	kL	38.8	7,882
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	15.317	kL	38.8	594
Total								164,765

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	284,113.681	GJ	1	284,114
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	-	60.665	kL	38.8	2,354
Total								286,468

ELECTRICITY PRODUCED					
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	78,920,467	kWh	0.0036	284,114
Total					284,114

Incidental Emissions and Energy

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER Regulation 4.27.

The following tables summarise total greenhouse gas emissions from operation of this facility during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
60	-	60

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
-	-	-

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
-	55	5	-	-	-	60

INCIDENTAL EMISSIONS					
Source of Emissions	Activity Type	Fuel Type Or Energy Commodity	Criterion	Gases	Scope 1 Incidental Emissions (t CO ₂ -e)
Wastewater handling (domestic or commercial)	Emissions of methane and nitrous oxide released from wastewater handling (domestic and commercial)			CH ₄	55
				N ₂ O	5
				Total	

CONTRACTORS

Name of Contractor	Pacific Energy (KPS) Pty Ltd
Contractor's Identifying Details	ABN 92134226056 ACN 134226056 338 Gnangara Rd Landsdale, Western Australia 6065

CONTRACTOR GREENHOUSE GAS EMISSIONS	
Total Greenhouse Gas Emissions (t CO₂-e)	50,570

CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)	
Energy Consumed (GJ)	Energy Produced (GJ)
838,585	284,114

4: DEEP SOUTH OPERATIONS - FACILITY

Name	Deep South Operations
Facility Street Address	East of Goldfields Hwy Kookynie Western Australia 6431 AUSTRALIA
Geographic Coordinates	Latitude 29.546S / Longitude 122.547E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN GOLD MINES PTY LIMITED
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2017 - 30/06/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
12,604	-	12,604

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
218,975	182,993	35,982

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
12,548	17	38	-	-	1	12,604

SCOPE 1 EMISSIONS						
EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor						
Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of gaseous fuels - Stationary energy purposes	Fuel / Energy commodity: Gaseous fossil fuels other than those mentioned in items 17 to 26 Fuel usage: combustion Criterion: A	67 m3	EC (GJ/Unit): 0.0393 Z (GJ): 3	Gas: CO ₂ EF (kg CO₂-e / GJ): 51.4 Method: Method 1	0	
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	0	
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.03 Method:	0	

				Method 1	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	1,298.483 kL	EC (GJ/Unit): 38.6 Z (GJ): 50,121	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	3,503
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	5
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	10
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Liquefied petroleum gas Fuel usage: combustion Criterion: A	3.24 kL	EC (GJ/Unit): 25.7 Z (GJ): 83	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	5
				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: BBB	42.421 kL	EC (GJ/Unit): 38.6 Z (GJ): 1,637	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	114

				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Fuel / Energy commodity: Diesel oil - Transport post-2004 Fuel usage: combustion Criterion: A	162.442 kL	EC (GJ/Unit): 38.6 Z (GJ): 6,270	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	438
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	0
				Gas: N2O EF (kg CO2-e / GJ): 0.6 Method: Method 2	4
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based oils (other than petroleum based oil used as fuel) Fuel usage: combustion Criterion: A	24.43 kL	EC (GJ/Unit): 38.8 Z (GJ): 948	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	13
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based greases Fuel usage: combustion Criterion: A	6.455 kL	EC (GJ/Unit): 38.8 Z (GJ): 250	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	1
Source Total			59,312		4,093

Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Liquid fuels	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	3,140.726 kL	EC (GJ/Unit): 38.6 Z (GJ): 121,232	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	8,474
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	12
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	24
Source Total			121,232		8,510
Source category: Industrial processes Source of emissions: Emissions of hydrofluorocarbons and sulphur hexafluoride gases Activity type: Emissions of sulphur hexafluoride gases from gas insulated switchgear and circuit breaker applications	-	99.864 tonnes	-	Gas: SF6 EF (kg CO2-e / GJ): - Method: Method 1	1
Source Total			-		1
Total			180,544		12,604

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	A	-	3,140.726	kL	38.6	121,232
Total								121,232

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	A	-	162.442	kL	38.6	6,270
Total								6,270

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PURPOSES OTHER THAN PRODUCING ELECTRICITY, PRODUCING A CHEMICAL OR METAL PRODUCT OR FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of gaseous fuels - Stationary energy purposes	Gaseous fossil fuels other than those mentioned in items 17 to 26	combustion	A	-	67	m3	0.0393	3
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	1,298.483	kL	38.6	50,121
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	-	3.24	kL	25.7	83
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	-	42.421	kL	38.6	1,637
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	24.43	kL	38.8	948
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	6.455	kL	38.8	250
Total								53,042

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	35,981.827	GJ	1	35,982
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	-	63.109	kL	38.8	2,449
Total								38,431

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	9,994,952	kWh	0.0036	35,982
Total					35,982

CONTRACTORS

Name of Contractor	ENERGY POWER SYSTEMS AUSTRALIA PTY LTD
Contractor's Identifying Details	ABN 80 055 274 514 227 Wellington Road Mulgrave, Victoria 3170

CONTRACTOR GREENHOUSE GAS EMISSIONS

Total Greenhouse Gas Emissions (t CO₂-e)	8,510
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CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed (GJ)	Energy Produced (GJ)
121,232	35,982

5: RED OCTOBER MINE SITE - FACILITY

Name	Red October Mine Site
Facility Street Address	Glenorn- Linden Road (130km SE of Leonora, WA) Leonora Western Australia 6438 AUSTRALIA
Geographic Coordinates	Latitude 29.217S / Longitude 122.415E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN GOLD MINES PTY LIMITED
Number of Days with Operational Control	249
Operational Control Dates	01/07/2017 - 06/03/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO₂-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
1,951	-	1,951

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
36,566	27,805	8,761

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO₂-e)

Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
1,943	3	5	-	-	-	1,951

SCOPE 1 EMISSIONS

EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor

Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: AA	20.544 kL	EC (GJ/Unit): 38.6 Z (GJ): 793	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	55
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	0
				Gas: N ₂ O EF (kg CO₂-e /	0

				GJ): 0.2 Method: Method 1	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Fuel / Energy commodity: Diesel oil - Transport post-2004 Fuel usage: combustion Criterion: AA	0.181 kL	EC (GJ/Unit): 38.6 Z (GJ): 7	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	0
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	0
				Gas: N2O EF (kg CO2-e / GJ): 0.6 Method: Method 2	0
Source Total			800		55
Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Liquid fuels	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: AA	699.612 kL	EC (GJ/Unit): 38.6 Z (GJ): 27,005	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	1,888
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	3
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	5
Source Total			27,005		1,896
Total			27,805		1,951

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	AA	-	699.612	kL	38.6	27,005
Total								27,005

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	AA	-	0.181	kL	38.6	7
Total								7

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PURPOSES OTHER THAN PRODUCING ELECTRICITY, PRODUCING A CHEMICAL OR METAL PRODUCT OR FOR TRANSPORT								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	AA	-	20.544	kL	38.6	793
Total								793

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	8,760.568	GJ	1	8,761
Total								8,761

ELECTRICITY PRODUCED					
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	2,433,491	kWh	0.0036	8,761
Total					8,761

6: SARACEN METALS PTY LIMITED - GROUP MEMBER

Name	SARACEN METALS PTY LIMITED
Australian Business Number (ABN)	15107154727
Australian Company Number (ACN)	107154727
Australian Registered Body Number (ARBN)	-
Trading Name	-
Street address line 1	Level 11, 40 The Esplanade
Street address line 2	-
Street address line 3	-
Street city/suburb	Perth
Street state	Western Australia
Street postcode	6000
Street country	AUSTRALIA

The following tables summarise total greenhouse gas emissions and energy data for all facilities that were under the operational control of this group member during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
105,028	-	105,028

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
2,018,838	1,713,904	304,934

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
104,634	175	217	-	-	2	105,028

7: KAILIS OPERATIONS - FACILITY

Name	Kailis Operations
Facility Street Address	Leonora - Wiluna Hwy Leonora Western Australia 6438 AUSTRALIA
Geographic Coordinates	Latitude 28.844S / Longitude 121.292E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN METALS PTY LIMITED
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2017 - 30/06/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN METALS PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
15,629	-	15,629

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
229,110	226,599	2,511

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
15,560	21	48	-	-	-	15,629

SCOPE 1 EMISSIONS						
EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor						
Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of gaseous fuels - Stationary energy purposes	Fuel / Energy commodity: Gaseous fossil fuels other than those mentioned in items 17 to 26 Fuel usage: combustion Criterion: A	59.2 m ³	EC (GJ/Unit): 0.0393 Z (GJ): 2	Gas: CO ₂ EF (kg CO₂-e / GJ): 51.4 Method: Method 1	0	
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	0	
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.03 Method:	0	

				Method 1	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	5,476.873 kL	EC (GJ/Unit): 38.6 Z (GJ): 211,407	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	14,777
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	21
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	42
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: BBB	3.398 kL	EC (GJ/Unit): 38.6 Z (GJ): 131	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	9
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Liquefied petroleum gas Fuel usage: combustion Criterion: A	0.176 kL	EC (GJ/Unit): 25.7 Z (GJ): 5	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	0

				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	0
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Fuel / Energy commodity: Diesel oil - Transport post-2004 Fuel usage: combustion Criterion: A	272.059 kL	EC (GJ/Unit): 38.6 Z (GJ): 10,501	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	734
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	0
				Gas: N2O EF (kg CO2-e / GJ): 0.6 Method: Method 2	6
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based oils (other than petroleum based oil used as fuel) Fuel usage: combustion Criterion: A	69.082 kL	EC (GJ/Unit): 38.8 Z (GJ): 2,680	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	37
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based greases Fuel usage: combustion Criterion: A	24.545 kL	EC (GJ/Unit): 38.8 Z (GJ): 952	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	3
Source Total			225,678		15,629

Total	225,678		15,629
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ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	A	-	272.059	kL	38.6	10,501
Total								10,501

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PURPOSES OTHER THAN PRODUCING ELECTRICITY, PRODUCING A CHEMICAL OR METAL PRODUCT OR FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of gaseous fuels - Stationary energy purposes	Gaseous fossil fuels other than those mentioned in items 17 to 26	combustion	A	-	59.2	m3	0.0393	2
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	5,476.873	kL	38.6	211,407
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	-	3.398	kL	38.6	131
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	-	0.176	kL	25.7	5
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	69.082	kL	38.8	2,680
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	24.545	kL	38.8	952
Total								215,177

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	2,511.05	GJ	1	2,511
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	-	23.741	kL	38.8	921
Total								3,432

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	697,513.58	kWh	0.0036	2,511
Total					2,511

Incidental Emissions and Energy

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER Regulation 4.27.

The following tables summarise total greenhouse gas emissions from operation of this facility during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
-	-	-

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
2,511	-	2,511

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
-	-	-	-	-	-	-

INCIDENTAL ENERGY CONSUMED BY A MEANS OTHER THAN COMBUSTION								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub- criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Incidental Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non- combustion	-	-	2,511.05	GJ	1	2,511
Total								2,511

INCIDENTAL ELECTRICITY PRODUCED						
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)	
Electricity (thermal generation)	For use onsite	697,513.58	kWh	0.0036	2,511	
Total					2,511	

CONTRACTORS

Name of Contractor	SMS Mining Services
Contractor's Identifying Details	ABN 62 601 828 424 96 Ewing Street Welshpool, Western Australia 6106

CONTRACTOR GREENHOUSE GAS EMISSIONS	
Total Greenhouse Gas Emissions (t CO₂-e)	12,523

CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)	
Energy Consumed (GJ)	Energy Produced (GJ)
178,386	0

8: KING OF THE HILLS - FACILITY

Name	King of the Hills
Facility Street Address	Goldfields Hwy, 30km North of Leonora LEONORA Western Australia 6438 AUSTRALIA
Geographic Coordinates	Latitude 28.678S / Longitude 121.162E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN METALS PTY LIMITED
Number of Days with Operational Control	94
Operational Control Dates	01/07/2017 - 02/10/2017
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN METALS PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO₂-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
761	-	761

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
14,726	10,849	3,877

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO₂-e)

Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
758	1	2	-	-	-	761

SCOPE 1 EMISSIONS

EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor

Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)
Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Liquid fuels	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	281.06 kL	EC (GJ/Unit): 38.6 Z (GJ): 10,849	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	758
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	1
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.2	2

								Method: Method 1
						Source Total	10,849	761
						Total	10,849	761

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	A	-	281.06	kL	38.6	10,849
Total								10,849

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	3,876.623	GJ	1	3,877
Total								3,877

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	1,076,839.64	kWh	0.0036	3,877
Total					3,877

Incidental Emissions and Energy

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER Regulation 4.27.

The following tables summarise total greenhouse gas emissions from operation of this facility during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO₂-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
-	-	-

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
3,877	-	3,877

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO₂-e)

Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
-	-	-	-	-	-	-

INCIDENTAL ENERGY CONSUMED BY A MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Incidental Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	3,876.623	GJ	1	3,877
Total								3,877

INCIDENTAL ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	1,076,839.64	kWh	0.0036	3,877
Total					3,877

9: THUNDERBOX OPERATIONS - FACILITY

Name	Thunderbox Operations
Facility Street Address	GOLDFIELDS HIGHWAY Leinster Western Australia 6437
Geographic Coordinates	Latitude 28.193S / Longitude 121.006E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	080 - Metal ore mining
Operational Control	SARACEN METALS PTY LIMITED
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2017 - 30/06/2018
Grid Connected Electricity Generator	No

The following tables summarise total greenhouse gas emissions from operation of this facility during the period that it was under the operational control of SARACEN METALS PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
88,638	-	88,638

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,775,002	1,476,456	298,546

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
88,316	153	167	-	-	2	88,638

SCOPE 1 EMISSIONS						
EC = Energy Content Factor, Z = Energy Content, EF = Emission Factor						
Source Activity	Fuel / Criterion	Quantity	Energy Values (EC & Z)	Gas / Method	Scope 1 Emissions (t CO ₂ -e)	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of gaseous fuels - Stationary energy purposes	Fuel / Energy commodity: Gaseous fossil fuels other than those mentioned in items 17 to 26 Fuel usage: combustion Criterion: A	1,119.98 m ³	EC (GJ/Unit): 0.0393 Z (GJ): 44	Gas: CO ₂ EF (kg CO₂-e / GJ): 51.4 Method: Method 1	2	
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	0	
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.03 Method:	0	

				Method 1	
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	15,981.768 kL	EC (GJ/Unit): 38.6 Z (GJ): 616,896	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	43,121
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	62
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	123
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Liquefied petroleum gas Fuel usage: combustion Criterion: A	524.867 kL	EC (GJ/Unit): 25.7 Z (GJ): 13,489	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	812
				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	3
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	3
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: BBB	133.442 kL	EC (GJ/Unit): 38.6 Z (GJ): 5,151	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	360

				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	1
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	1
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Fuel / Energy commodity: Diesel oil - Transport post-2004 Fuel usage: combustion Criterion: A	190.822 kL	EC (GJ/Unit): 38.6 Z (GJ): 7,366	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	515
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	0
				Gas: N2O EF (kg CO2-e / GJ): 0.6 Method: Method 2	4
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based oils (other than petroleum based oil used as fuel) Fuel usage: combustion Criterion: A	194.037 kL	EC (GJ/Unit): 38.8 Z (GJ): 7,529	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	105
Source category: Fuel combustion Source of emissions: Stationary and Transport energy purposes (excluding electricity generation) Activity type: Emissions released from combustion of petroleum based oils or greases	Fuel / Energy commodity: Petroleum based greases Fuel usage: combustion Criterion: A	82.91 kL	EC (GJ/Unit): 38.8 Z (GJ): 3,217	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	11
Source Total			653,692		45,123

Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Gaseous fuels	Fuel / Energy commodity: Natural gas distributed in a pipeline Fuel usage: combustion Criterion: A	756,839 GJ	EC (GJ/Unit): 1 Z (GJ): 756,839	Gas: CO2 EF (kg CO2-e / GJ): 51.4 Method: Method 1	38,902
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	76
				Gas: N2O EF (kg CO2-e / GJ): 0.03 Method: Method 1	23
Source category: Fuel combustion Source of emissions: Emissions released from fuel use by certain industries (including electricity generation) Activity type: Electricity production - Liquid fuels	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: A	1,663.549 kL	EC (GJ/Unit): 38.6 Z (GJ): 64,213	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	4,488
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	6
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	13
Source Total			821,052		43,508
Source category: Industrial processes Source of emissions: Emissions of hydrofluorocarbons and sulphur hexafluoride gases Activity type: Emissions of sulphur hexafluoride gases from gas insulated switchgear and circuit breaker applications	-	228 tonnes	-	Gas: SF6 EF (kg CO2-e / GJ): - Method: Method 1	2
Source Total			-		2

Source category: Waste Source of emissions: Wastewater handling (domestic or commercial) Activity type: Emissions of methane and nitrous oxide released from wastewater handling (domestic and commercial)	-	-	-	Gas: CH4 EF (kg CO2-e / GJ): - Method: Other Method	5
				Gas: N2O EF (kg CO2-e / GJ): - Method: Other Method	0
Source Total			-		5
Total			1,474,744		88,638

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Gaseous fuels	Natural gas distributed in a pipeline	combustion	A	-	756,839	GJ	1	756,839
Electricity production - Liquid fuels	Diesel oil	combustion	A	-	1,663.549	kL	38.6	64,213
Total								821,052

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	A	-	190.822	kL	38.6	7,366
Total								7,366

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PURPOSES OTHER THAN PRODUCING ELECTRICITY, PRODUCING A CHEMICAL OR METAL PRODUCT OR FOR TRANSPORT								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Emissions released from combustion of gaseous fuels - Stationary energy purposes	Gaseous fossil fuels other than those mentioned in items 17 to 26	combustion	A	-	1,119.98	m3	0.0393	44
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	15,981.768	kL	38.6	616,896
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	-	524.867	kL	25.7	13,489
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	-	133.442	kL	38.6	5,151
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	194.037	kL	38.8	7,529
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	82.91	kL	38.8	3,217
Total								646,326

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION								
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	-	298,546	GJ	1	298,546
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	-	44.128	kL	38.8	1,712
Total								300,258

ELECTRICITY PRODUCED					
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	82,929,540	kWh	0.0036	298,546
Total					298,546

Incidental Emissions and Energy

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER Regulation 4.27.

The following tables summarise total greenhouse gas emissions from operation of this facility during the reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
5	-	5

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
-	-	-

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO ₂ -e)						
Carbon Dioxide CO ₂	Methane CH ₄	Nitrous Oxide N ₂ O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF ₆	Total
-	5	-	-	-	-	5

INCIDENTAL EMISSIONS					
Source of Emissions	Activity Type	Fuel Type Or Energy Commodity	Criterion	Gases	Scope 1 Incidental Emissions (t CO ₂ -e)
Wastewater handling (domestic or commercial)	Emissions of methane and nitrous oxide released from wastewater handling (domestic and commercial)			CH ₄	5
				N ₂ O	0
				Total	5

CONTRACTORS

Name of Contractor	Pacific Energy (KPS) Pty Ltd
Contractor's Identifying Details	ABN 92134226056 ACN 134226056 338 Gnangara Road Landsdale, Western Australia 6065

CONTRACTOR GREENHOUSE GAS EMISSIONS	
Total Greenhouse Gas Emissions (t CO₂-e)	43,508

CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)	
Energy Consumed (GJ)	Energy Produced (GJ)
821,052	298,546

CORPORATE GROUP THRESHOLD MET

The corporate group of SARACEN MINERAL HOLDINGS LIMITED has met a corporate group threshold prescribed in sections 13 (1)(a),(b), or (c) of the NGER Act during the reporting year and is reporting under Divisions 4.3 to 4.5 of the NGER Regulations (regulation 4.03).

REPORTING ABOUT INCIDENTAL EMISSIONS AND ENERGY

This Report contains greenhouse gas emissions and energy information from facilities that is incidental to the operation of the facility and reported in accordance with NGER Regulation 4.27.

PRIVACY STATEMENT

PROTECTION OF INFORMATION

The Clean Energy Regulator is bound by the secrecy provisions of Part 3 of the *Clean Energy Regulator Act 2011* (CER Act) in regard to information it collects in relation to this report and also by the *Privacy Act 1988* in regard to personal information it collects.

PRIVACY NOTICE

'Personal information' is defined in the Privacy Act 1988 to mean information or an opinion about an identified individual, or an individual who is reasonably identifiable:

- (a) whether the information or opinion is true or not; and
- (b) whether the information or opinion is recorded in a material form or not.

The collection of personal information relating to this report is authorised by the *National Greenhouse and Energy Reporting Act 2007* (NGER Act) and the National Greenhouse and Energy Reporting Regulations 2008.

Personal information collected in relation to this report will be used for the purposes of assessing the report content, auditing compliance, enforcement of relevant laws and regulations, the performance of our statutory functions and for related purposes. We will also use the personal information which you provide for our administrative purposes, for example, to pre-populate other Clean Energy Regulator forms which you wish to fill out online in the future, and for improving our service delivery to you. We cannot process the application if we do not collect relevant personal information.

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DISCLOSURE OF INFORMATION

The Clean Energy Regulator is only able to disclose information relating to this report (including personal information) in accordance with the CER Act, the NGER Act, the Privacy Act 1988 or as otherwise required by law.

The circumstances in which such information may be disclosed include:

- Disclosure to the Secretary or authorised officer of a Department for the purpose of administering a program or collecting statistics relating to greenhouse gas emissions, energy consumption or energy production;
- Disclosure to certain agencies, bodies or persons where the Regulator is satisfied that disclosure will enable or assist those agencies, bodies or persons to perform or exercise their functions or powers, including the Australian Securities and Investments Commission, the Australian Competition and Consumer Commission and the Commissioner of Taxation;
- Disclosure for the purposes of law enforcement;
- Disclosure to States and Territories in accordance with the NGER Act; and
- Disclosure for the purposes of a climate change law or for the purposes of the performance of our functions under a climate change law.

DECLARATION

The Executive Officer (or equivalent), as described in the National Greenhouse and Energy Reporting Act 2007 (NGER Act), should read the following declaration below before electronically submitting the report

It is the responsibility of the reporting entity to ensure that the information provided in the Report is prepared in accordance with the requirements set out in the NGER Act and the *National Greenhouse and Energy Reporting Regulations 2008* (the NGER Regulations) and that the data it contains is based on methods prescribed in the *National Greenhouse and Energy Reporting (Measurement) Determination 2008* (the Measurement Determination).

Under the NGER Act and the NGER Regulations, the reporting entity remains responsible for the truth and accuracy of the contents of the report despite the assistance, if any, of a third party in its preparation.

Section 19 of the NGER Act includes a civil penalty provision, a breach of which may attract a pecuniary penalty of up to 2,000 penalty units. The *Crimes Act 1914* provides that one penalty unit is \$180.

In accordance with section 22 of the NGER Act, a reporting entity is required to keep records of the activities of the members of its group that, inter alia, allow it to report accurately under the NGER Act. Records must be retained for a period of 5 years from the end of the year in which the activities took place. Section 22 includes a civil penalty provision, a breach of which may attract a pecuniary penalty of up to 1,000 penalty units.

By electronically submitting, the signatory declares that:

- they have read and understood the penalties that apply for breaching the *National Greenhouse and Energy Reporting Act 2007*;
- the information provided in this report (including any attachments) is true and correct, and that they understand that the provision of false or misleading information is a serious offence under the *Criminal Code 1995* and may have consequences under the *National Greenhouse and Energy Reporting Act 2007*;
- the information provided in this Report has been prepared and supplied in accordance with the requirements set out in the *National Greenhouse and Energy Reporting Act 2007*, the *National Greenhouse and Energy Reporting Regulations 2008* and the *National Greenhouse and Energy Reporting (Measurement) Determination 2008*;
- they are duly authorised to act, including submitting this report, on behalf of the reporting entity;
- the Clean Energy Regulator may compel or conduct an audit of the information contained in this report or in relation to compliance with the *National Greenhouse and Energy Reporting Act 2007* or the *National Greenhouse and Energy Reporting Regulations 2008*;
- the Clean Energy Regulator may request further clarification or documentation to verify the information supplied in this Report; and
- the entity providing the report and each group member (if any) listed in the report is a body corporate.