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**NATIONAL GREENHOUSE AND ENERGY REPORTING
SECTION 19 - ENERGY AND EMISSIONS REPORT
SARACEN MINERAL HOLDINGS LIMITED
FOR THE REPORTING YEAR 2016 – 2017**

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 2017.

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	Locked Bag 930
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	Kalgoorlie
Postal state	Western Australia
Postal postcode	6430
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 2016 - 2017 reporting period.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
185,225	39	185,264

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
3,578,582	2,947,184	631,398

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
184,424	325	468	-	-	8	185,225

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	40,656	2.2

FACILITY NAME : THUNDERBOX OPERATIONS		
Fuel Type	Emission Total (tCO ₂ -e)	Uncertainty %
Diesel oil	55,730	2.7
Natural gas distributed in a pipeline	32,974	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	39	193	193	0
2	SARACEN GOLD MINES PTY LIMITED Type: Group Member	83,393	-	1,645,707	1,313,714	331,993
3	SARACEN GOLD MINES PTY LIMITED Type: Group Member Carosue Dam Operations Type: Facility	63,627	0	1,294,799	1,027,179	267,620
4	SARACEN GOLD MINES PTY LIMITED Type: Group Member Deep South Operations Type: Facility	13,358	0	238,011	194,290	43,721
5	SARACEN GOLD MINES PTY LIMITED Type: Group Member Red October Mine Site Type: Facility	6,408	0	112,897	92,245	20,652
6	SARACEN METALS PTY LIMITED Type: Group Member	101,832	-	1,932,682	1,633,277	299,405
7	SARACEN METALS PTY LIMITED Type: Group Member Kailis Operations Type: Facility	3,339	0	49,313	48,344	969
8	SARACEN METALS PTY LIMITED Type: Group Member King of the Hills Type: Facility	9,100	0	151,177	130,911	20,266
9	SARACEN METALS PTY LIMITED Type: Group Member Thunderbox Operations Type: Facility	89,393	0	1,732,192	1,454,022	278,170

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	01/07/2016 - 30/06/2017
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 MINERAL HOLDINGS LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
-	39	39

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
193	193	-

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 of electricity from main electricity grid in a State or Territory	53,539	kWh	0.72	39
Total				39

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Purchase of electricity from main electricity grid in a State or Territory	-	-	-	53,539	kWh	0.0036	193
Total							193

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
83,393	-	83,393

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,645,707	1,313,714	331,993

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
82,994	167	226	-	-	6	83,393

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	01/07/2016 - 30/06/2017
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 GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
63,627	-	63,627

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,294,799	1,027,179	267,620

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
63,317	141	163	-	-	6	63,627

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	245 m ³	EC (GJ/Unit): 0.0393 Z (GJ): 10	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: AA	3,420.293 kL	EC (GJ/Unit): 38.6 Z (GJ): 132,023	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	9,228
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	13
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	26
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	476.37 kL	EC (GJ/Unit): 25.7 Z (GJ): 12,243	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	737
				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	2
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	2
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	30.835 kL	EC (GJ/Unit): 38.6 Z (GJ): 1,190	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	83

				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	57.824 kL	EC (GJ/Unit): 39.7 Z (GJ): 2,296	Gas: CO2 EF (kg CO2-e / GJ): 73.6 Method: Method 1	169
				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	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: AA	1,854.571 kL	EC (GJ/Unit): 38.6 Z (GJ): 71,586	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	5,004
				Gas: CH4 EF (kg CO2-e / GJ): 0.01 Method: Method 2	1
				Gas: N2O	43

				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	74.508 kL	EC (GJ/Unit): 38.8 Z (GJ): 2,891	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	40
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	14.089 kL	EC (GJ/Unit): 38.8 Z (GJ): 547	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	2
Source Total			222,786		15,350
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	16,847.218 kL	EC (GJ/Unit): 25.3 Z (GJ): 426,235	Gas: CO2 EF (kg CO2-e / GJ): 51.4 Method: Method 1	21,908
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	43
				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	9,690.456 kL	EC (GJ/Unit): 38.6 Z (GJ): 374,052	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	26,146
				Gas: CH4	37

				EF (kg CO2-e / GJ): 0.1 Method: Method 1	
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	75
Source Total			800,287		48,222
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	-	640.224 tonnes	-	Gas: SF6 EF (kg CO2-e / GJ): - Method: Method 1	6
Source Total			-		6
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	45
				Gas: N2O EF (kg CO2-e / GJ): - Method: Other Method	4
Source Total			-		49
Total			1,023,073		63,627

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Gaseous fuels	Liquefied natural gas	combustion	A	16,847.218	kL	25.3	426,235
Electricity production - Liquid fuels	Diesel oil	combustion	AA	9,690.456	kL	38.6	374,052
Total							800,287

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	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	1,854.571	kL	38.6	71,586
Total							71,586

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	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	245	m3	0.0393	10
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	AA	3,420.293	kL	38.6	132,023
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	476.37	kL	25.7	12,243
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	30.835	kL	38.6	1,190
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Fuel oil	combustion	BBB	57.824	kL	39.7	2,296
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	74.508	kL	38.8	2,891
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	14.089	kL	38.8	547
Total							151,200

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	249,255.364	GJ	1	249,255
Energy consumed (not combusted)	Electricity	non-combustion	-	18,365.357	GJ	1	18,365
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	105.82	kL	38.8	4,106
Total							271,726

ELECTRICITY PRODUCED						
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)	
Electricity (thermal generation)	For use onsite	69,237,601	kWh	0.0036	249,255	
Electricity (thermal generation)	For use onsite	5,101,487.94	kWh	0.0036	18,365	
Total					267,620	

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
49	-	49

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
18,365	-	18,365

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO2-e)						
Carbon Dioxide CO2	Methane CH4	Nitrous Oxide N2O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF6	Total
-	45	4	-	-	-	49

INCIDENTAL EMISSIONS						
Source of Emissions	Activity Type	Fuel Type Or Energy Commodity	Criterion	Gases	Scope 1 Incidental Emissions (t CO2-e)	
Wastewater handling (domestic or commercial)	Emissions of methane and nitrous oxide released from wastewater handling (domestic and commercial)			CH4	45	
				N2O	4	
Total					49	

INCIDENTAL ENERGY CONSUMED BY A MEANS OTHER THAN COMBUSTION							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Incidental Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	18,365.357	GJ	1	18,365
Total							18,365

INCIDENTAL ELECTRICITY PRODUCED						
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)	
Electricity (thermal generation)	For use onsite	5,101,487.94	kWh	0.0036	18,365	
Total					18,365	

CONTRACTORS

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

CONTRACTOR GREENHOUSE GAS EMISSIONS

Total Greenhouse Gas Emissions (t CO2-e)	44,526
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CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)	
Energy Consumed (GJ)	Energy Produced (GJ)
747,048	249,255

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	01/07/2016 - 30/06/2017
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 GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO2-e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
13,358	-	13,358

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
238,011	194,290	43,721

GREENHOUSE GAS SCOPE 1 EMISSIONS BY GAS (t CO2-e)						
Carbon Dioxide CO2	Methane CH4	Nitrous Oxide N2O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF6	Total
13,297	17	44	-	-	-	13,358

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 CO2-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	284 m3	EC (GJ/Unit): 0.0393 Z (GJ): 11	Gas: CO2 EF (kg CO2-e / GJ): 51.4 Method: Method 1	1	
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	0	
				Gas: N2O 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	1,623.588 kL	EC (GJ/Unit): 38.6 Z (GJ): 62,670	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	4,381
				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 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	1.32 kL	EC (GJ/Unit): 25.7 Z (GJ): 34	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	2
				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	65.629 kL	EC (GJ/Unit): 38.6 Z (GJ): 2,533	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	177

				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	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	291.283 kL	EC (GJ/Unit): 38.6 Z (GJ): 11,244	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	786
				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	7
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	44.665 kL	EC (GJ/Unit): 38.8 Z (GJ): 1,733	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	24
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	5.405 kL	EC (GJ/Unit): 38.8 Z (GJ): 210	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	1
Source Total			78,435		5,399

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	2,937.098 kL	EC (GJ/Unit): 38.6 Z (GJ): 113,372	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	7,925
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	11
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	23
		Source Total	113,372		7,959
		Total	191,807		13,358

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	A	2,937.098	kL	38.6	113,372
Total							113,372

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	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	291.283	kL	38.6	11,244
Total							11,244

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	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	284	m3	0.0393	11
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	1,623.588	kL	38.6	62,670
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	1.32	kL	25.7	34
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	65.629	kL	38.6	2,533
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	44.665	kL	38.8	1,733
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	5.405	kL	38.8	210
Total							67,191

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	43,720.862	GJ	1	43,721
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	64	kL	38.8	2,483
Total							46,204

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	12,144,684	kWh	0.0036	43,721
Total					43,721

CONTRACTORS

Name of Contractor	ENERGY POWER SYSTEMS AUSTRALIA PTY LTD
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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)	7,959
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CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed (GJ)	Energy Produced (GJ)
113,372	43,721

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	Full Year
Operational Control Dates	01/07/2016 - 30/06/2017
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 GOLD MINES PTY LIMITED.

GREENHOUSE GAS EMISSIONS (t CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
6,408	-	6,408

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
112,897	92,245	20,652

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
6,380	9	19	-	-	-	6,408

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	716.769 kL	EC (GJ/Unit): 38.6 Z (GJ): 27,667	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	1,934
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	3
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.2	6

				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 - Stationary energy purposes	Fuel / Energy commodity: Diesel oil Fuel usage: combustion Criterion: BBB	38.475 kL	EC (GJ/Unit): 38.6 Z (GJ): 1,485	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	104
				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: AA	63.494 kL	EC (GJ/Unit): 38.6 Z (GJ): 2,451	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	171
				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	1
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	20.1 kL	EC (GJ/Unit): 38.8 Z (GJ): 780	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	11

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	0.074 kL	EC (GJ/Unit): 38.8 Z (GJ): 3	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	0
Source Total			32,386		2,230
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	1,541.701 kL	EC (GJ/Unit): 38.6 Z (GJ): 59,510	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	4,160
				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	12
Source Total			59,510		4,178
Total			91,896		6,408

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	AA	1,541.701	kL	38.6	59,510
Total							59,510

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT							
Activity Type	Fuel / Energy Commodity	Fuel Usage	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	63.494	kL	38.6	2,451
Total							2,451

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	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	716.769	kL	38.6	27,667
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	38.475	kL	38.6	1,485
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	20.1	kL	38.8	780
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	0.074	kL	38.8	3
Total							29,935

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	20,652.192	GJ	1	20,652
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	9	kL	38.8	349
Total							21,001

ELECTRICITY PRODUCED					
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	5,736,720	kWh	0.0036	20,652
Total					20,652

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
101,832	-	101,832

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,932,682	1,633,277	299,405

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
101,430	158	242	-	-	2	101,832

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	01/07/2016 - 30/06/2017
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 CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
3,339	-	3,339

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
49,313	48,344	969

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
3,325	5	9	-	-	-	3,339

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: A	1,211.129 kL	EC (GJ/Unit): 38.6 Z (GJ): 46,750	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	3,268
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	5
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.2 Method:	9

				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: BBB	10.45 kL	EC (GJ/Unit): 38.6 Z (GJ): 403	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	28
				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	7.469 kL	EC (GJ/Unit): 38.6 Z (GJ): 288	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	20
				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 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	14.493 kL	EC (GJ/Unit): 38.8 Z (GJ): 562	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	8

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	6.448 kL	EC (GJ/Unit): 38.8 Z (GJ): 250	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	1
			Source Total	48,253	3,339
			Total	48,253	3,339

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	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	7.469	kL	38.6	288
Total							288

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	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	A	1,211.129	kL	38.6	46,750
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	10.45	kL	38.6	403
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	14.493	kL	38.8	562
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	6.448	kL	38.8	250
Total							47,965

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	969.218	GJ	1	969
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	2.34	kL	38.8	91
Total							1,060

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	269,227.28	kWh	0.0036	969
Total					969

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
969	-	969

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

Carbon Dioxide CO2	Methane CH4	Nitrous Oxide N2O	Perfluorocarbons PFCs	Hydro Fluoro Carbons HFCs	Sulphur Hexafluoride SF6	Total
-	-	-	-	-	-	-

INCIDENTAL ENERGY CONSUMED BY A MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Incidental Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non- combustion	-	969.218	GJ	1	969
Total							969

INCIDENTAL ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	269,227.28	kWh	0.0036	969
Total					969

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	Full Year
Operational Control Dates	01/07/2016 - 30/06/2017
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 CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
9,100	-	9,100

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
151,177	130,911	20,266

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
9,046	9	45	-	-	-	9,100

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: A	649.649 kL	EC (GJ/Unit): 38.6 Z (GJ): 25,076	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	1,753
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	3
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.2 Method:	5

				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: BBB	1.651 kL	EC (GJ/Unit): 38.6 Z (GJ): 64	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	4
				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	1,238.414 kL	EC (GJ/Unit): 38.6 Z (GJ): 47,803	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	3,341
				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	29
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	25.016 kL	EC (GJ/Unit): 38.8 Z (GJ): 971	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	1.771 kL	EC (GJ/Unit): 38.8 Z (GJ): 69	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	0
Source Total		73,983		5,148	
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	1,458.391 kL	EC (GJ/Unit): 38.6 Z (GJ): 56,294	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	3,935
				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	11
Source Total		56,294		3,952	
Total		130,277		9,100	

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Liquid fuels	Diesel oil	combustion	A	1,458.391	kL	38.6	56,294
Total							56,294

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT							
Activity Type	Fuel / Energy Commodity	Fuel Usage	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	1,238.414	kL	38.6	47,803
Total							47,803

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	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	A	649.649	kL	38.6	25,076
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	1.651	kL	38.6	64
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	25.016	kL	38.8	971
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	1.771	kL	38.8	69
Total							26,180

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION							
Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	16.334	kL	38.8	634
Energy consumed (not combusted)	Electricity	non-combustion	-	20,265.801	GJ	1	20,266
Total							20,900

ELECTRICITY PRODUCED					
Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	5,629,389.26	kWh	0.0036	20,266
Total					20,266

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	01/07/2016 - 30/06/2017
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 CO ₂ -e)		
Scope 1	Scope 2	Total of Scope 1 and Scope 2
89,393	-	89,393

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	Energy Consumed Net	Energy Produced
1,732,192	1,454,022	278,170

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
89,059	144	188	-	-	2	89,393

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: A	17,113.161 kL	EC (GJ/Unit): 38.6 Z (GJ): 660,568	Gas: CO ₂ EF (kg CO₂-e / GJ): 69.9 Method: Method 1	46,174	
				Gas: CH ₄ EF (kg CO₂-e / GJ): 0.1 Method: Method 1	66	
				Gas: N ₂ O EF (kg CO₂-e / GJ): 0.2 Method:	132	

				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: Liquefied petroleum gas Fuel usage: combustion Criterion: A	361.255 kL	EC (GJ/Unit): 25.7 Z (GJ): 9,284	Gas: CO2 EF (kg CO2-e / GJ): 60.2 Method: Method 1	559
				Gas: CH4 EF (kg CO2-e / GJ): 0.2 Method: Method 1	2
				Gas: N2O EF (kg CO2-e / GJ): 0.2 Method: Method 1	2
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	101.364 kL	EC (GJ/Unit): 38.6 Z (GJ): 3,913	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	273
				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	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	212.307 kL	EC (GJ/Unit): 38.6 Z (GJ): 8,195	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	573

				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	5
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	210.168 kL	EC (GJ/Unit): 38.8 Z (GJ): 8,155	Gas: CO2 EF (kg CO2-e / GJ): 13.9 Method: Method 1	113
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	44.967 kL	EC (GJ/Unit): 38.8 Z (GJ): 1,745	Gas: CO2 EF (kg CO2-e / GJ): 3.5 Method: Method 1	6
Source Total			691,860		47,906
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	639,900 GJ	EC (GJ/Unit): 1 Z (GJ): 639,900	Gas: CO2 EF (kg CO2-e / GJ): 51.4 Method: Method 1	32,891
				Gas: CH4 EF (kg CO2-e / GJ): 0.1 Method: Method 1	64
				Gas: N2O EF (kg CO2-e / GJ): 0.03 Method: Method 1	19

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	3,139.15 kL	EC (GJ/Unit): 38.6 Z (GJ): 121,171	Gas: CO2 EF (kg CO2-e / GJ): 69.9 Method: Method 1	8,470
				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			761,071		41,480
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	0
				Gas: N2O EF (kg CO2-e / GJ): - Method: Other Method	5
Source Total			-		5
Total			1,452,931		89,393

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR PRODUCING ELECTRICITY

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Electricity production - Gaseous fuels	Natural gas distributed in a pipeline	combustion	A	639,900	GJ	1	639,900
Electricity production - Liquid fuels	Diesel oil	combustion	A	3,139.15	kL	38.6	121,171
Total							761,071

ENERGY CONSUMED BY MEANS OF COMBUSTION FOR TRANSPORT

Activity Type	Fuel / Energy Commodity	Fuel Usage	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	212.307	kL	38.6	8,195
Total							8,195

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	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	A	17,113.161	kL	38.6	660,568
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	A	361.255	kL	25.7	9,284
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	BBB	101.364	kL	38.6	3,913
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	210.168	kL	38.8	8,155
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	44.967	kL	38.8	1,745
Total							683,665

ENERGY CONSUMED BY MEANS OTHER THAN COMBUSTION

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Energy consumed (not combusted)	Electricity	non-combustion	-	278,169.523	GJ	1	278,170
Energy consumed (not combusted)	Petroleum based oils (other than petroleum based oil used as fuel)	non-combustion	A	28.125	kL	38.8	1,091
Total							279,261

ELECTRICITY PRODUCED

Activity Type	Usage	Amount	Units	Energy Content Factor (GJ/Unit)	Converted Energy Content Amount (GJ)
Electricity (thermal generation)	For use onsite	77,269,312	kWh	0.0036	278,170
Total					278,170

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	0
				N ₂ O	5
				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)	41,480

CONTRACTOR ENERGY PRODUCED AND ENERGY CONSUMED (GJ)	
Energy Consumed (GJ)	Energy Produced (GJ)
761,071	278,170

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.

The Clean Energy Regulator's Privacy Policy contains information about the agency's procedures for handling personal information including how a person can access their personal information held by the agency, and how to seek correction of such information. The Privacy Policy also contains information about how to complain about a breach of the Australian Privacy Principles. The Clean Energy Regulator's Privacy Policy can be found at www.cleanenergyregulator.gov.au.

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.