APPENDIX 15: NGER REPORT 2022

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Australian Government
Clean Energy Regulator

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NATIONAL GREENHOUSE AND ENERGY REPORTING SECTION 19 - EMISSIONS AND ENERGY REPORT IWATANI AUSTRALIA PTY LTD FOR THE REPORTING YEAR 2021 – 2022

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 2022.

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	IWATANI AUSTRALIA PTY LTD
Australian Business Number (ABN)	85008902841
Australian Company Number (ACN)	-
Australian Registered Body Number (ARBN)	-
Trading Name	Doral Mineral Industries Limited
Head office postal address:	
Postal address line 1	1 Alumina Road
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	EAST ROCKINGHAM
Postal state	Western Australia
Postal postcode	6168
Postal country	AUSTRALIA
Head office street address:	
Street address line 1	1 Alumina Road
Street address line 2	-
Street address line 3	-
Street city/suburb	EAST ROCKINGHAM
Street state	Western Australia
Street postcode	6168
Street country	AUSTRALIA

EXECUTIVE OFFICER (OR EQUIVALENT) DETAILS

Name	Neil Raine
Position	Primary Contact
Phone	08 94398816
Mobile	0439921294
Fax	-
Email	neil.raine@doral.com.au
Postal address line 1	PO Box 84
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	Rockingham
Postal state	
Postal postcode	6968
Postal country	AUSTRALIA

CONTACT PERSON DETAILS

Name	Craig Bovell
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Phone	0897255444
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Postal address line 1	PO Box 84
Postal address line 2	-
Postal address line 3	-
Postal city/suburb	Rockingham
Postal state	Western Australia
Postal postcode	6968
Postal country	AUSTRALIA

IWATANI AUSTRALIA PTY LTD 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 IWATANI AUSTRALIA PTY LTD for the 2021 - 2022 reporting period.

GREENHOUSE GAS EMISSIONS (t CO2-e)		
Scope 1	**Scope 2**	**Total of Scope 1 and Scope 2**
16,990	35,789	52,779

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	**Energy Consumed Net**	**Energy Produced**
439,974	439,974	-

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**
16,931	23	36	-	-	-	16,990

IWATANI AUSTRALIA PTY LTD 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	DORAL FUSED MATERIALS PTY LTD **Type:** Group Member	3,579	14,865	122,365	122,365	-
2	DORAL FUSED MATERIALS PTY LTD **Type:** Group Member Doral Fused Materials - East Rockingham **Type:** Facility	3,579	14,865	122,365	122,365	0
3	DORAL MINERAL SANDS PTY LTD **Type:** Group Member	5,299	3,792	109,593	109,593	-
4	DORAL MINERAL SANDS PTY LTD **Type:** Group Member Doral Mineral Sands - Yalyalup, Picton **Type:** Facility	5,299	3,792	109,593	109,593	0
5	KEYSBROOK LEUCOXENE PTY LTD **Type:** Group Member	8,112	17,132	208,016	208,016	-
6	KEYSBROOK LEUCOXENE PTY LTD **Type:** Group Member Keysbrook **Type:** Facility	8,112	17,132	208,016	208,016	0

1: DORAL FUSED MATERIALS PTY LTD - GROUP MEMBER

Name	DORAL FUSED MATERIALS PTY LTD
Australian Business Number (ABN)	62009415025
Australian Company Number (ACN)	009415025
Australian Registered Body Number (ARBN)	-
Trading Name	Doral Fused Materials
Street address line 1	1 Alumina Road
Street address line 2	-
Street address line 3	-
Street city/suburb	East Rockingham
Street state	Western Australia
Street postcode	6168
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 CO2-e)		
Scope 1	**Scope 2**	**Total of Scope 1 and Scope 2**
3,579	14,865	18,444

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	**Energy Consumed Net**	**Energy Produced**
122,365	122,365	-

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**
3,573	3	3	-	-	-	3,579

2: DORAL FUSED MATERIALS - EAST ROCKINGHAM - FACILITY

Name	Doral Fused Materials - East Rockingham
Facility Street Address	Lot 6 Alumina Road EAST ROCKINGHAM Western Australia 6168 AUSTRALIA
Geographic Coordinates	Latitude 32.263S / Longitude 115.761E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	099 - Other non-metallic mineral mining and quarrying
Operational Control	DORAL FUSED MATERIALS PTY LTD
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2021 - 30/06/2022
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 DORAL FUSED MATERIALS PTY LTD.

GREENHOUSE GAS EMISSIONS (t CO2-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
3,579	14,865	18,444

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
122,365	122,365	-

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
3,573	3	3	-	-	-	3,579

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:** Natural gas distributed in a pipeline **Fuel usage:** combustion **Criterion:** A	25,728 GJ	**EC (GJ/Unit):** 1 **Z (GJ):** 25,728	**Gas:** CO2 **EF (kg CO2-e / GJ):** 51.4 **Method:** Method 1	1,322
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.1 **Method:** Method 1	3
				Gas: N2O **EF (kg CO2-e / GJ):** 0.03 **Method:**	1

				Method 1	
Source category: Fuel combustion **Source of emissions:** Stationary and Transport energy purposes (excluding electricity generation) **Activity type:** Emissions released from combustion of solid fuels	**Fuel / Energy commodity:** Coal coke **Fuel usage:** combustion **Criterion:** AAA **Sub-criterion:** AAA - commercial transaction - point of consumption	412 tonnes	**EC (GJ/Unit):** 27 **Z (GJ):** 11,124	**Gas:** CO2 **EF (kg CO2-e / GJ):** 107 **Method:** Method 1	1,190
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.03 **Method:** Method 1	0
				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:** Liquefied petroleum gas **Fuel usage:** combustion **Criterion:** AAA **Sub-criterion:** AAA - NON-commercial transaction - point of consumption	14.02 kL	**EC (GJ/Unit):** 25.7 **Z (GJ):** 360	**Gas:** CO2 **EF (kg CO2-e / GJ):** 60.2 **Method:** Method 1	22
				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:** A	4.84 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 187	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	13

				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:** Fuel oil - Transport **Fuel usage:** combustion **Criterion:** A	3.77 kL	**EC (GJ/Unit):** 39.7 **Z (GJ):** 150	**Gas:** CO2 **EF (kg CO2-e / GJ):** 73.6 **Method:** Method 1	11
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.08 **Method:** Method 1	0
				Gas: N2O **EF (kg CO2-e / GJ):** 0.5 **Method:** Method 1	0
		Source Total	37,549		2,564
Source category: Industrial processes **Source of emissions:** Chemical or mineral production, other than carbide production, using a carbon reductant or carbon anode **Activity type:** Chemical or mineral production, other than carbide production, using a carbon reductant or carbon anode	**Fuel / Energy commodity:** Solid fossil fuels other than those mentioned in items 1 to 5 **Fuel usage:** carbon reductant **Criterion:** A	276.8 tonnes	**EC (GJ/Unit):** 22.1 **Z (GJ):** 6,117	**Gas:** CO2 **EF (kg CO2-e / GJ):** - **Method:** Method 1	1,015
		Source Total	6,117		1,015
		Total	43,666		3,579

MATTERS TO BE IDENTIFIED (MTBI) PER SOURCE

Source of Emissions	MTBI	Methods	Activity	Activity Value	Unit
Chemical or mineral production, other than carbide production, using a carbon	the tonnes of chemical or mineral products containing carbon produced	Method 1	-	0.000	tonnes

reductant or carbon anode	the carbon content of the chemical or mineral products containing carbon produced, in tonnes of carbon per tonne of output	Method 1	-	0.00000	tonnes
	the tonnes of solid waste by-products containing carbon produced	Method 1	-	0.000	tonnes
	the average carbon content factor of solid waste by-products, in tonnes of carbon per tonne of solid waste by-product	Method 1	-	0.00000	tonnes
	the change in stock containing carbon, in tonnes	Method 1	-	0.00000	tonnes
	the carbon content factor of the change in stock, in tonnes of carbon per tonne of stock	Method 1	-	0.00000	tonnes
	the tonnes of pure calcium carbonate consumed	Method 1	-	0.00	tonnes
	the tonnes of pure dolomite consumed	Method 1	-	0.00000	tonnes
	the tonnes of pure magnesium carbonate consumed	Method 1	-	0.00000	tonnes
	the tonnes of any other pure carbonate consumed	Method 1	-	0.00000	tonnes

SCOPE 2 EMISSIONS

Activity Type	Quantity	Units	Emission Factor (kg CO2-e / unit)	Scope 2 Emissions (t CO2-e)
Purchase and loss of electricity from main electricity grid in a State or Territory	21,860,920	kWh	0.68	14,865
			Total	14,865

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	Fuel oil - Transport	combustion	A	-	3.77	kL	39.7	150
							Total	150

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	Natural gas distributed in a pipeline	combustion	A	-	25,728	GJ	1	25,728
Emissions released from combustion of solid fuels	Coal coke	combustion	AAA	AAA - commercial transaction - point of consumption	412	tonnes	27	11,124
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	AAA	AAA - NON-commercial transaction - point of consumption	14.02	kL	25.7	360
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	4.84	kL	38.6	187
							Total	37,399

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	-	-	-	-	21,860,920	kWh	0.0036	78,699
							Total	78,699

ENERGY CONSUMED TO PRODUCE A CHEMICAL OR METAL PRODUCT FOR ITS CARBON CONTENT

Activity Type	Fuel / Energy Commodity	Fuel Usage	Criterion	Sub-criterion	Amount	Units	Energy Content Factor (GJ/Unit)	Energy Content (GJ)
Chemical or mineral production, other than carbide production, using a carbon reductant or carbon anode	Solid fossil fuels other than those mentioned in items 1 to 5	carbon reductant	A	-	276.8	tonnes	22.1	6,117
							Total	6,117

3: DORAL MINERAL SANDS PTY LTD - GROUP MEMBER

Name	DORAL MINERAL SANDS PTY LTD
Australian Business Number (ABN)	18096342451
Australian Company Number (ACN)	096342451
Australian Registered Body Number (ARBN)	-
Trading Name	Doral Mineral Sands
Street address line 1	25 Harris Road
Street address line 2	-
Street address line 3	-
Street city/suburb	Picton
Street state	Western Australia
Street postcode	6229
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 CO2-e)		
Scope 1	**Scope 2**	**Total of Scope 1 and Scope 2**
5,299	3,792	9,091

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	**Energy Consumed Net**	**Energy Produced**
109,593	109,593	-

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**
5,281	9	9	-	-	-	5,299

4: DORAL MINERAL SANDS - YALYALUP, PICTON - FACILITY

Name	Doral Mineral Sands - Yalyalup, Picton
Facility Street Address	25 Harris Road PICTON Western Australia 6229 AUSTRALIA
Geographic Coordinates	Latitude 32.263S / Longitude 115.761E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	099 - Other non-metallic mineral mining and quarrying
Operational Control	DORAL MINERAL SANDS PTY LTD
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2021 - 30/06/2022
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 DORAL MINERAL SANDS PTY LTD.

GREENHOUSE GAS EMISSIONS (t CO2-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
5,299	3,792	9,091

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
109,593	109,593	-

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
5,281	9	9	-	-	-	5,299

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:** Natural gas distributed in a pipeline **Fuel usage:** combustion **Criterion:** A	51,834.6 GJ	**EC (GJ/Unit):** 1 **Z (GJ):** 51,835	**Gas:** CO2 **EF (kg CO2-e / GJ):** 51.4 **Method:** Method 1	2,664
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.1 **Method:** Method 1	5
				Gas: N2O **EF (kg CO2-e / GJ):** 0.03 **Method:**	2

				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	142.46 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 5,499	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	384
				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 - Stationary energy purposes	**Fuel / Energy commodity:** Diesel oil **Fuel usage:** combustion **Criterion:** A	778.21 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 30,039	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	2,100
				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	6
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	21.84 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 843	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	59

				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:** AAA **Sub-criterion:** AAA - NON-commercial transaction - point of consumption	10.94 kL	**EC (GJ/Unit):** 25.7 **Z (GJ):** 281	**Gas:** CO2 **EF (kg CO2-e / GJ):** 60.2 **Method:** Method 1	17
				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	19.47 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 752	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	53
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.01 **Method:** Method 2	0
				Gas: N2O	0

				EF (kg CO2-e / GJ): 0.5 **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	6.944 kL	**EC (GJ/Unit):** 38.8 **Z (GJ):** 269	**Gas:** CO2 **EF (kg CO2-e / GJ):** 13.9 **Method:** Method 1	4
		Source Total	89,518		5,299
		Total	89,518		5,299

SCOPE 2 EMISSIONS

Activity Type	Quantity	Units	Emission Factor (kg CO2-e / unit)	Scope 2 Emissions (t CO2-e)
Purchase and loss of electricity from main electricity grid in a State or Territory	2,994,415	kWh	0.68	2,036
Purchase and loss of electricity from main electricity grid in a State or Territory	2,582,072	kWh	0.68	1,756
			Total	3,792

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	-	19.47	kL	38.6	752
							Total	752

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	Natural gas distributed in a pipeline	combustion	A	-	51,834.6	GJ	1	51,835
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	142.46	kL	38.6	5,499
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	778.21	kL	38.6	30,039
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	21.84	kL	38.6	843
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Liquefied petroleum gas	combustion	AAA	AAA - NON-commercial transaction - point of consumption	10.94	kL	25.7	281
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	6.944	kL	38.8	269
							Total	88,766

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	-	-	-	-	2,994,415	kWh	0.0036	10,780
Purchase and loss of electricity from main electricity grid in a State or Territory	-	-	-	-	2,582,072	kWh	0.0036	9,295
							Total	20,075

5: KEYSBROOK LEUCOXENE PTY LTD - GROUP MEMBER

Name	KEYSBROOK LEUCOXENE PTY LTD
Australian Business Number (ABN)	49137091297
Australian Company Number (ACN)	137091297
Australian Registered Body Number (ARBN)	-
Trading Name	-
Street address line 1	1424 Hopelands Road
Street address line 2	-
Street address line 3	-
Street city/suburb	North Dandalup
Street state	Western Australia
Street postcode	6207
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 CO2-e)		
Scope 1	**Scope 2**	**Total of Scope 1 and Scope 2**
8,112	17,132	25,244

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	**Energy Consumed Net**	**Energy Produced**
208,016	208,016	-

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**
8,077	11	24	-	-	-	8,112

6: KEYSBROOK - FACILITY

Name	Keysbrook
Facility Street Address	1424 Hopelands Road North Dandalup Western Australia 6207 AUSTRALIA
Geographic Coordinates	Latitude 32.282S / Longitude 115.544E
Facility location	-
Activity location	Western Australia
Location description	-
Activity description	-
ANZSIC Code	099 - Other non-metallic mineral mining and quarrying
Operational Control	KEYSBROOK LEUCOXENE PTY LTD
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2021 - 30/06/2022
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 KEYSBROOK LEUCOXENE PTY LTD.

GREENHOUSE GAS EMISSIONS (t CO2-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
8,112	17,132	25,244

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
208,016	208,016	-

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
8,077	11	24	-	-	-	8,112

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 liquid fuels other than petroleum oils or greases - Stationary energy purposes	**Fuel / Energy commodity:** Diesel oil **Fuel usage:** combustion **Criterion:** A	2,282.63 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 88,110	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	6,159
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.1 **Method:** Method 1	9
				Gas: N2O **EF (kg CO2-e / GJ):** 0.2 **Method:**	18

				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	642.94 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 24,817	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	1,735
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.1 **Method:** Method 1	2
				Gas: N2O **EF (kg CO2-e / GJ):** 0.2 **Method:** Method 1	5
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	65.21 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 2,517	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	176
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.01 **Method:** Method 2	0
				Gas: N2O **EF (kg CO2-e / GJ):** 0.5 **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 greases **Fuel usage:** combustion **Criterion:** A	48.29 kL	**EC (GJ/Unit):** 38.8 **Z (GJ):** 1,874	**Gas:** CO2 **EF (kg CO2-e / GJ):** 3.5 **Method:** Method 1	7

Source Total	117,318		8,112
Total	117,318		8,112

SCOPE 2 EMISSIONS

Activity Type	Quantity	Units	Emission Factor (kg CO2-e / unit)	Scope 2 Emissions (t CO2-e)
Purchase and loss of electricity from main electricity grid in a State or Territory	25,193,970	kWh	0.68	17,132
			Total	17,132

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	-	65.21	kL	38.6	2,517
							Total	2,517

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	A	-	2,282.63	kL	38.6	88,110
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	Diesel oil	combustion	A	-	642.94	kL	38.6	24,817
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	48.29	kL	38.8	1,874
							Total	114,801

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	-	-	-	-	25,193,970	kWh	0.0036	90,698
							Total	90,698

CORPORATE GROUP THRESHOLD MET

The corporate group of IWATANI AUSTRALIA PTY LTD 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).

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 emissions and energy report.

It is the responsibility of the reporting entity to ensure that the information provided in the emissions and energy report is prepared in accordance with the requirements set out in the NGER Act and the National Greenhouse and Energy Reporting Regulations 2008 (NGER Regulations) and that the data it contains is based on methods prescribed in the National Greenhouse and Energy Reporting (Measurement) Determination 2008 (NGER 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 emissions and energy 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 $222.

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 and enable the Clean Energy Regulator to ascertain whether it has complied with its obligations 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 NGER Act;
- the information provided in this emissions and energy 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 NGER Act;
- the information provided in this emissions and energy report has been prepared and supplied in accordance with the requirements set out in the NGER Act, the NGER Regulations and the NGER Measurement Determination;
- they are duly authorised to act, including submitting this emissions and energy report, on behalf of the reporting entity;
- the Clean Energy Regulator may compel or conduct an audit of the information contained in this emissions and energy report or in relation to compliance with the NGER Act, the NGER Regulations and the NGER Measurement Determination;
- the Clean Energy Regulator may request further clarification or documentation to verify the information supplied in this emissions and energy report; and
- the entity providing the emissions and energy report and each group member (if any) listed in the report is a body corporate.