Australian Government
Clean Energy Regulator

LIBERTY PRIMARY METALS AUSTRALIA PTY LTD

29631112573 (ABN)

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National Greenhouse and Energy Reporting

Section 19 – Emissions and Energy Report

Reporting year

2024-2025

4.3 TAHMOOR COAL PTY LTD (Group member)

Name	TAHMOOR COAL PTY LTD
Business Identifier	97076663968 (ABN)

Greenhouse gas emissions (t CO_2-e)		Energy produced and energy consumed (GJ)	
Scope 1	757,886	Energy Produced	30,590,537
Scope 2	64,442	Energy consumed net	1,677,301
Total Scope 1 and Scope 2	822,328	Energy consumed total	1,677,301
Voluntary Market-Based Scope 2	-		

Scope 1 Emission by gas (t CO_2-e)			
Carbon Dioxide CO_2	149,904	Perfluorocarbons PFCs	0
Methane CH_4	607,813	Hydrofluorocarbons HFCs	0
Nitrous Oxide N_2O	164	Sulphur Hexafluoride SF_6	5

4.3.1 TAHMOOR COAL MINE (Facility)

4.3.1.1 Facility details

Name	TAHMOOR COAL MINE
Street address	Remembrance Drive TAHMOOR NSW 2573
Geographic coordinates	Latitude -34.250000, Longitude 150.576000
Activity location	NSW
Grid connected electricity generator	No
ANZSIC code	060 - Coal mining
Operational control	TAHMOOR COAL PTY LTD
Days of operational control	Full year

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4.3.1.2 Activities

4.3.1.2.1 Activity details – Scope 1 Emissions

Source	Fugitive emissions: Underground mines
Activity	Fugitive emissions from extraction of coal
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CO_2	4		82,578
CH_4	4		574,475
		Total emissions	657,053

Quantity	ECF (GJ/unit)	Energy (GJ)

Source	Fugitive emissions: Underground mines
Activity	Emissions released from coal mine waste gas flared
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CO_2	2	52.441	64,234
CH_4	2	4.6	2,372
N_2O	2	0.3	155
		Total emissions	66,761

Fuel name	Usage	Primary/Secondary	Criteria	Quantity	ECF (GJ/unit)	Energy (GJ)
Coal mine waste gas that is captured for combustion	combustion	Primary		33,942,291.758 m3	0.0377	1,279,624

Source	Fugitive emissions: Underground mines
Activity	Fugitive emissions from post mining activities
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CH_4	1	0.019	30,962

Quantity	ECF (GJ/unit)	Energy (GJ)

Source	Fuel combustion: Stationary and Transport energy purposes (excluding electricity generation)
Activity	Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CO_2	1	69.9	7
CH_4	2	0.01	0
N_2O	2	0.5	0
		Total emissions	7

Fuel name	Usage	Primary/Secondary	Criteria	Quantity	ECF (GJ/unit)	Energy (GJ)
Diesel oil - Transport post-2004	combustion	Secondary	A	2.546 kL	38.6	98

Source	Industrial processes: Emissions of hydrofluorocarbons and sulphur hexafluoride gases
Activity	Emissions of sulphur hexafluoride gases from gas insulated switchgear and circuit breaker applications
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
SF_6	1	0.0089	5

Quantity	ECF (GJ/unit)	Energy (GJ)
557.749 tCO2-e		

Source	Fuel combustion: Stationary and Transport energy purposes (excluding electricity generation)
Activity	Emissions released from combustion of petroleum based oils or greases
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CO_2	1	13.9	33

Fuel name	Usage	Primary/Secondary	Criteria	Quantity	ECF (GJ/unit)	Energy (GJ)
Petroleum based oils (other than petroleum based oil used as fuel)	combustion	Secondary	A	62.1 kL	38.8	2,409

Source	Fuel combustion: Stationary and Transport energy purposes (excluding electricity generation)
Activity	Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes
Location	NSW

Gas	Method	EF (kg CO_2-e/GJ)	Scope 1 (t CO_2-e)
CO_2	1	69.9	3,052
CH_4	1	0.1	4
N_2O	1	0.2	9
		Total emissions	3,065

Fuel name	Usage	Primary/Secondary	Criteria	Quantity	ECF (GJ/unit)	Energy (GJ)
Diesel oil	combustion	Secondary	A	1,131.287 kL	38.6	43,668

4.3.1.2.2 Activity details – Scope 2 Emissions

Source	Scope 2 emissions: n/a	Gas		Method	EF (kg CO_2-e/GJ)	Scope 2 (t CO_2-e)
Activity	Purchase and loss of electricity from main electricity grid in a State or Territory	CO_2-e		A1	0.66	64,442
Location	NSW		Quantity		ECF (GJ/unit)	Energy (GJ)
			97,639,348.681	kWh	0.0036	351,502

4.3.1.2.3 Activity details – Energy

Source	Energy: Energy production					
Activity	Energy content of fuel produced					
Location	NSW					
Fuel name	Primary/Secondary	Quantity			ECF (GJ/unit)	Energy (GJ)
Coking coal	Primary	913,644	tonnes		30	27,409,320

Source	Energy: Energy production					
Activity	Energy content of fuel produced					
Location	NSW					
Fuel name	Primary/Secondary	Quantity			ECF (GJ/unit)	Energy (GJ)
Coal mine waste gas that is captured for combustion	Primary	33,942,291.758	m3		0.0377	1,279,624

Source	Energy: Energy production					
Activity	Energy content of fuel produced					
Location	NSW					
Fuel name	Primary/Secondary	Quantity			ECF (GJ/unit)	Energy (GJ)
Coal mine waste gas that is captured for combustion	Primary	28,106,039.437	m3		0.0377	1,059,598

Source	Energy: Energy production					
Activity	Energy content of fuel produced					
Location	NSW					
Fuel name	Primary/Secondary	Quantity			ECF (GJ/unit)	Energy (GJ)
Bituminous coal	Primary	31,185	tonnes		27	841,995

4.3.1.3 Matters to be identified

4.3.1.3.1 Source: Underground mines

Matter to be identified	Methods	Quantity
the tonnes of coal mine waste gas (CO2-e) flared	1	302,257.95 tonnes (CO2-e)(flared)
whether the mine is a gassy mine or a non-gassy mine		
•	1	Gassy
the tonnes of raw coal produced		
•	4	1,629,560 tonnes
•	1	1,629,560 tonnes

Matter to be identified	Methods	Quantity
the tonnes of carbon dioxide captured for energy production on site •	4	0 tonnes (CO2-e)
the tonnes of methane (CO2-e) captured for energy production on site •	4	0 tonnes (CO2-e)
the tonnes of carbon dioxide captured and transferred off site •	4	30,906.22 tonnes (CO2-e)
the tonnes of methane (CO2-e) captured and transferred off site •	4	218,420.5 tonnes (CO2-e)
the tonnes of carbon dioxide flared •	4	37,198.13 tonnes (CO2-e)
the tonnes of methane (CO2-e) flared •	4	265,059.82 tonnes (CO2-e)

4.3.1.4 Safeguard Production Variables

Name	Category	Schedule Reference	Quantity
Run-of-mine coal	Historical	17	1,629,560 tonnes