



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 ₂ O	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		
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 ₂ O	164	Sulphur Hexafluoride SF ₆	5

4.3.1.2 Activities

4.3.1.2.1 Activity details – Scope 1 Emissions

Source	Fugitive emissions: Underground mines	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)
Activity	Fugitive emissions from extraction of coal	CO ₂	4		82,578
Location	NSW	CH ₄	4		574,475
Total emissions					657,053
		Quantity	ECF (GJ/unit)	Energy (GJ)	



Source	Fugitive emissions: Underground mines	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Emissions released from coal mine waste gas flared	CO ₂	2	52.441	64,234	
Location	NSW	CH ₄	2	4.6	2,372	
		N ₂ O	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		33,942,291.75 8 m ³	0.0377	1,279,62 4

Source	Fugitive emissions: Underground mines	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Fugitive emissions from post mining activities	CH ₄	1	0.019	30,962	
Location	NSW	Quantity			ECF (GJ/unit)	Energy (GJ)

Source	Fuel combustion: Stationary and Transport energy purposes (excluding electricity generation)	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	CO ₂	1	69.9	7	
Location	NSW	CH ₄	2	0.01	0	
		N ₂ O	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	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Emissions of sulphur hexafluoride gases from gas insulated switchgear and circuit breaker applications	SF ₆	1	0.0089	5	
Location	NSW	Quantity			ECF (GJ/unit)	Energy (GJ)
		557.749 tCO ₂ -e				

Source	Fuel combustion: Stationary and Transport energy purposes (excluding electricity generation)	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Emissions released from combustion of petroleum based oils or greases	CO ₂	1	13.9	33	
Location	NSW					
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)	Gas	Method	EF (kg CO ₂ -e/GJ)	Scope 1 (t CO ₂ -e)	
Activity	Emissions released from combustion of liquid fuels other than petroleum oils or greases - Stationary energy purposes	CO ₂	1	69.9	3,052	
Location	NSW	CH ₄	1	0.1	4	
		N ₂ O	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 m ³	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 m ³	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 (CO ₂ -e) flared	1	302,257.95 tonnes (CO ₂ -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