6: TAHMOOR COAL PTY LTD - GROUP MEMBER

Name	TAHMOOR COAL PTY LTD
Australian Business Number (ABN)	97076663968
Australian Company Number (ACN)	076663968
Australian Registered Body Number (ARBN)	-
Trading Name	-
Street address line 1	c/o GFG Alliance Australia
Street address line 2	Level 27
Street address line 3	8 Chifley Square
Street city/suburb	Sydney
Street state	New South Wales
Street postcode	2000
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**
1,124,934	97,903	1,222,837

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)		
Energy Consumed Total	**Energy Consumed Net**	**Energy Produced**
1,591,279	1,591,279	59,392,510

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**
178,592	946,065	273	-	-	4	1,124,934

7: TAHMOOR COAL MINE - FACILITY

Name	TAHMOOR COAL MINE
Facility Street Address	Remembrance Drive TAHMOOR New South Wales 2573 AUSTRALIA
Geographic Coordinates	Latitude 34.250S / Longitude 150.576E
Facility location	-
Activity location	New South Wales
Location description	-
Activity description	-
ANZSIC Code	060 - Coal mining
Operational Control	TAHMOOR COAL PTY LTD
Number of Days with Operational Control	Full Year
Operational Control Dates	01/07/2020 - 30/06/2021
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 TAHMOOR COAL PTY LTD.

GREENHOUSE GAS EMISSIONS (t CO2-e)

Scope 1	Scope 2	Total of Scope 1 and Scope 2
1,124,934	97,903	1,222,837

ENERGY PRODUCED AND ENERGY CONSUMED (GJ)

Energy Consumed Total	Energy Consumed Net	Energy Produced
1,591,279	1,591,279	59,392,510

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
178,592	946,065	273	-	-	4	1,124,934

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	1,403.005 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 54,156	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	3,786
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.1 **Method:** Method 1	5
				Gas: N2O **EF (kg CO2-e / GJ):** 0.2 **Method:** Method 1	11

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:** Gasoline (other than for use as fuel in an aircraft) - Transport post-2004 **Fuel usage:** combustion **Criterion:** A	0.647 kL	**EC (GJ/Unit):** 34.2 **Z (GJ):** 22	**Gas:** CO2 **EF (kg CO2-e / GJ):** 67.4 **Method:** Method 1	1
				Gas: CH4 **EF (kg CO2-e / GJ):** 0.02 **Method:** Method 2	0
				Gas: N2O **EF (kg CO2-e / GJ):** 0.2 **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 liquid fuels other than petroleum oils or greases - Transport energy purposes	**Fuel / Energy commodity:** Diesel oil - Transport post-2004 **Fuel usage:** combustion **Criterion:** A	2.671 kL	**EC (GJ/Unit):** 38.6 **Z (GJ):** 103	**Gas:** CO2 **EF (kg CO2-e / GJ):** 69.9 **Method:** Method 1	7
				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	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	162.82 kL	**EC (GJ/Unit):** 38.8 **Z (GJ):** 6,317	**Gas:** CO2 **EF (kg CO2-e / GJ):** 13.9 **Method:** Method 1	88

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	5.678 kL	**EC (GJ/Unit):** 38.8 **Z (GJ):** 220	**Gas:** CO2 **EF (kg CO2-e / GJ):** 3.5 **Method:** Method 1	1
		Source Total	60,818		3,899
Source category: Fugitive emissions **Source of emissions:** Underground mines **Activity type:** Emissions released from coal mine waste gas flared	**Fuel / Energy commodity:** Coal mine waste gas that is captured for combustion **Fuel usage:** combustion	29,054,073 m3	**EC (GJ/Unit):** 0.0377 **Z (GJ):** 1,095,339	**Gas:** CO2 **EF (kg CO2-e / GJ):** 49.12525 **Method:** Method 2	52,983
				Gas: CH4 **EF (kg CO2-e / GJ):** 4.6 **Method:** Method 2	4,013
				Gas: N2O **EF (kg CO2-e / GJ):** 0.3 **Method:** Method 2	262
Source category: Fugitive emissions **Source of emissions:** Underground mines **Activity type:** Fugitive emissions from extraction of coal	-	-	-	**Gas:** CO2 **EF (kg CO2-e / GJ):** - **Method:** Method 4	121,726
				Gas: CH4 **EF (kg CO2-e / GJ):** - **Method:** Method 4	886,940
Source category: Fugitive emissions **Source of emissions:** Underground mines **Activity type:** Fugitive emissions from post mining activities	-	-	-	**Gas:** CH4 **EF (kg CO2-e / GJ):** 0.019 **Method:** Method 1	55,107
		Source Total	1,095,339		1,121,031

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	-	452 tonnes	-	**Gas:** SF6 **EF (kg CO2-e / GJ):** - **Method:** Method 1	4
			Source Total	-	4
			Total	1,156,157	1,124,934

MATTERS TO BE IDENTIFIED (MTBI) PER SOURCE

Source of Emissions	MTBI	Methods	Activity	Activity Value	Unit
Underground mines	the tonnes of coal mine waste gas (CO2-e) flared	Method 1	-	57258.000	tonnes (CO2-e)(flared)
Underground mines	the tonnes of raw coal produced	Method 4	Fugitive emissions from extraction of coal	2900384	tonnes
		Method 1	Fugitive emissions from post mining activities	2900384	tonnes
	the tonnes of carbon dioxide captured for energy production on site	Method 4	Fugitive emissions from extraction of coal	0	tonnes (CO2-e)
	the tonnes of methane (CO2-e) captured for energy production on site	Method 4	Fugitive emissions from extraction of coal	0	tonnes (CO2-e)
	the tonnes of carbon dioxide captured and transferred off site	Method 4	Fugitive emissions from extraction of coal	6131	tonnes (CO2-e)
	the tonnes of methane (CO2-e) captured and transferred off site	Method 4	Fugitive emissions from extraction of coal	288349	tonnes (CO2-e)
	the tonnes of carbon dioxide flared	Method 4	Fugitive emissions from extraction of coal	10126.000	tonnes (CO2-e)
	the tonnes of methane (CO2-e) flared	Method 4	Fugitive emissions from extraction of coal	448532	tonnes (CO2-e)
	whether the mine is a gassy mine or a non-gassy mine	Method 1	Fugitive emissions from post mining activities	Gassy	

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	120,867,320	kWh	0.81	97,903
			Total	97,903

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	Gasoline (other than for use as fuel in an aircraft) - Transport post-2004	combustion	A	-	0.647	kL	34.2	22
Emissions released from combustion of liquid fuels other than petroleum oils or greases - Transport energy purposes	Diesel oil - Transport post-2004	combustion	A	-	2.671	kL	38.6	103
							Total	125

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	-	1,403.005	kL	38.6	54,156
Emissions released from combustion of petroleum based oils or greases	Petroleum based oils (other than petroleum based oil used as fuel)	combustion	A	-	162.82	kL	38.8	6,317
Emissions released from combustion of petroleum based oils or greases	Petroleum based greases	combustion	A	-	5.678	kL	38.8	220
Emissions released from coal mine waste gas flared	Coal mine waste gas that is captured for combustion	combustion	-	-	29,054,073	m3	0.0377	1,095,339
							Total	1,156,032

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	-	-	-	-	120,867,320	kWh	0.0036	435,122
							Total	435,122

ENERGY PRODUCED

Activity Type	Fuel / Energy Commodity	Primary/Secondary	Amount	Units	Energy Content Factor	Converted Amount (GJ)
Energy content of fuel produced	Coking coal	Primary	1,920,023	tonnes	30	57,600,690
Energy content of fuel produced	Coal mine waste gas that is captured for combustion	Primary	29,054,073	m3	0.0377	1,095,339
Energy content of fuel produced	Coal mine waste gas that is captured for combustion	Primary	18,474,300.247	m3	0.0377	696,481
					Total	59,392,510