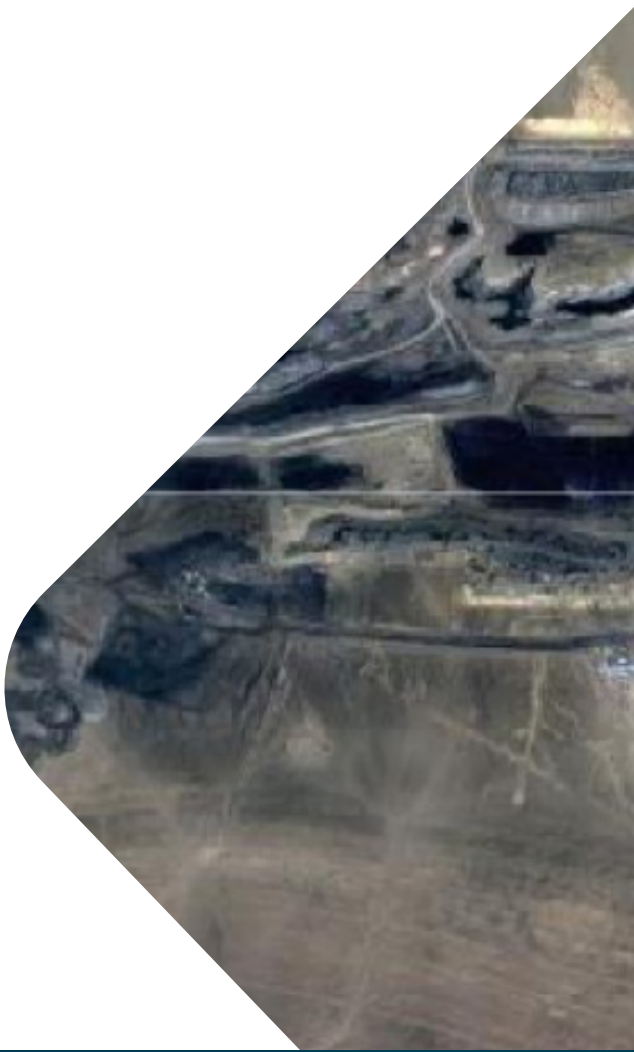
STEEL METHANE PROGRAMME //
COAL METHANE DATABASE MINE DATA SHEETS

# CANADA
# COLOMBIA
# CZECH REPUBLIC
# INDONESIA
# MONGOLIA
# MOZAMBIQUE
# NEW ZEALAND
# NORWAY
# SOUTH AFRICA
# VENEZUELA
# UNITED KINGDOM
# ZIMBABWE



**May 2026**

UN environment programme | International Methane Emissions Observatory

**United Nations Environment Programme** 1 rue Miollis 75015 Paris, France
For more information, please contact unep-smp@un.org | methanedata.unep.org

# CONTENTS


| | |
|---|---|
| About this document | 3 |
| Fording River Operations, Canada | 10 |
| Greenhills Coal Mine, Canada | 12 |
| Elkview Coal Mine, Canada | 14 |
| Grande Cache Coal Mine, Canada | 16 |
| La Ramada Coal Mine, Colombia | 18 |
| San Luis Coal Mine, Colombia | 20 |
| Karvina Coal Mines, Czech Republic | 22 |
| AMC Coal Mines, Indonesia | 24 |
| Ovoot Tolgoi Coal Mine, Mongolia | 26 |
| Nariin Sukhait Coal Mine, Mongolia | 28 |
| Tavan Tolgoi Coal Mine, Mongolia | 30 |
| Chirodzi Coal Mine, Mozambique | 32 |
| Stockton Coal Mine, New Zealand | 34 |
| Mine 7 Coal Mine, Norway | 36 |
| Grootegeluk Coal Mine, South Africa | 38 |
| Aberpergwm Coal Mine, United Kingdom | 40 |
| Paso Diablo Coal Mine, Venezuela | 42 |
| Coal Zimbabwe Mine, Zimbabwe | 44 |

# ABOUT THIS DOCUMENT

## Greater transparency on methane emissions from coal mines is essential to understand, manage and ultimately reduce the climate footprint of steel production.

The steel sector faces an urgent need to reduce its greenhouse gas emissions. Metallurgical (met) coal – a key ingredient in global steel production – adds on average a quarter to the climate footprint of steel through its methane emissions. At the same time, it represents a major, cost-effective mitigation opportunity: up to 90 per cent of abatable emissions could be reduced at less than 1 per cent of the retail price of steel. Despite this, global inventories continue to rely largely on default emission factors that do not adequately reflect real-world conditions, slowing targeted mitigation efforts.

**The Steel Methane Programme (SMP)** is a global initiative to make methane emissions from coal measurable, transparent and actionable across the steel supply chain. SMP is managed by the UN Environment Programme's International Methane Emissions Observatory (IMEO).

Robust quantification of methane emissions from met coal mining is essential. Existing estimates are often fragmented and inconsistent, reflecting methodological differences and variable data quality. To address these gaps, the United Nations Environment Programme's International Methane Emissions Observatory (IMEO) has developed an integrative modelling framework that combines different data sources to generate unified, probabilistic mine-level emission estimates.

## Introducing mine data sheets

The Steel Methane Programme (SMP) increases methane transparency through its Coal Methane Database (database), hosted on IMEO's Eye on Methane data platform. The database compiles integrated, mine-level emissions estimates that draw on

scientific research, satellites and inventories. This provides mining companies, steel producers and policymakers with transparency to inform engagement and drive methane reductions.

The database now covers around 250 met coal mines globally, representing roughly half of global met coal production. The modelling framework is designed for operating mines and should be interpreted in that context. Mines included in the database span a broad geographic area, with priority given to operations with significant met coal output and relevance to the steel supply chain. Coverage and data availability vary by country and mine.

The mine data sheets presented in this document provide an overview of a country's methane emission estimates from individual met coal mines.

# Data sources and methodology

Methane emission estimates draw on multiple, independent lines of evidence, including:

- Reported inventory data, where available.
- Peer-reviewed scientific literature.
- Satellite and aerial observations.
- Other publicly available data sources.

These inputs are integrated within IMEO's modelling framework to produce mine-level methane emission intensities and absolute emission estimates. Explicit uncertainty ranges reflect data availability and methodological uncertainty, providing insight into both emission magnitude and associated confidence.

# Updates and further information

Mine data sheets are updated twice a year. Updates may include:

- Additional or improved data inputs.
- Methodological refinements.
- Expanded mine coverage.

The Coal Methane Database is an integral part of Eye on Methane // GLOBAL. Download Coal Methane Database data sets or learn more about IMEO's data integration approach.

For questions, feedback or to engage further, please contact: unep-smp@un.org.

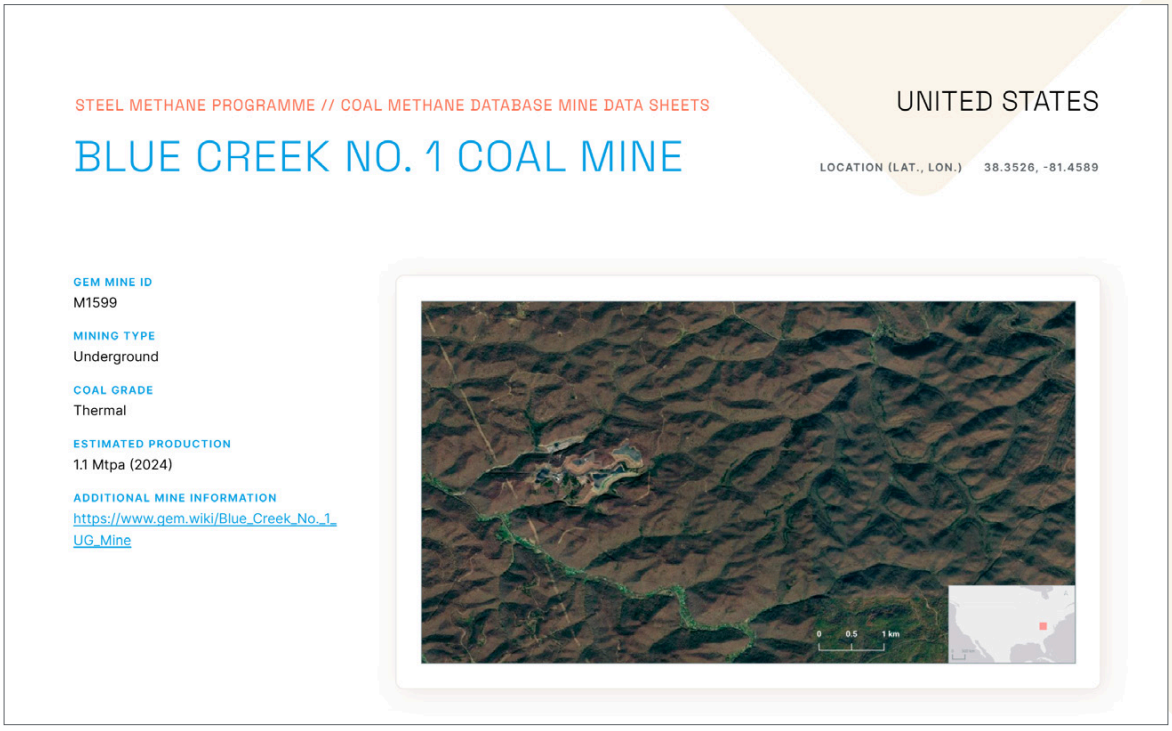
# How to read mine data sheets

Each data sheet provides key information on mine, location, production and coal type, alongside IMEO's mine-level methane emission intensity estimate and a summary of the underlying evidence base for that estimate.

## Mine information and context

The upper section summarizes key contextual information about the mine. The "Production Estimate" is reported in million metric tonnes per annum (Mtpa) and expressed as run-of-mine (ROM) equivalent production. For this section, IMEO uses the nearest-year production data available from Global Energy Monitor's mine wiki. In rare cases – for example, where GEM records very low or outdated production – the estimate may draw on the primary source referenced by GEM to identify the most recent available value.

Where production data or direct ROM data are not available, values are derived according to the Coal Methane Database methodology. This may include capacity-based estimates or conversion from saleable production to ROM-equivalent production, where needed.



## Methane emission profile

The methane emission profile presents IMEO's mine-level estimate of methane emissions intensity and absolute emissions:

- The central value represents IMEO's integrated methane emission estimate derived from multiple data inputs and its associated uncertainty margins (as a percentage). This value is based on nearest-year production data reported by Global Energy Monitor.

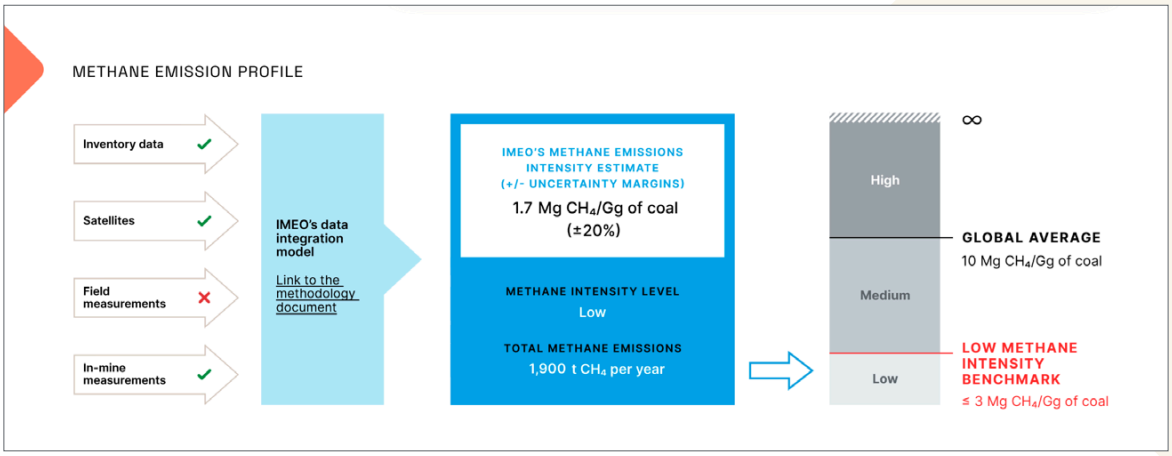
- The positioning of the estimate relative to global averages and **Low Methane Intensity Benchmark** thresholds provides contextual information on mine-level emissions in both quantitative and qualitative terms (Low, Medium, High) and is not a rating of compliance or performance.

- The arrows on the left-hand side indicate the types of data inputs that inform IMEO's data integration model for the mine.

**Note:**

- The **global average** of 10 Mg $CH_4$/Gg of coal shown on the right-hand side corresponds to the 2022–2024 average met coal methane intensity based on the International Energy Agency's Global Methane Tracker and its annual Coal analyses.

- The 3 Mg $CH_4$/Gg **Low Methane Intensity Benchmark** is an indicative low-intensity reference for metallurgical coal. It represents the average methane intensity of metallurgical coal production with full abatement of methane emissions, consistent with the IEA's Net Zero Emissions by 2050 Scenario.



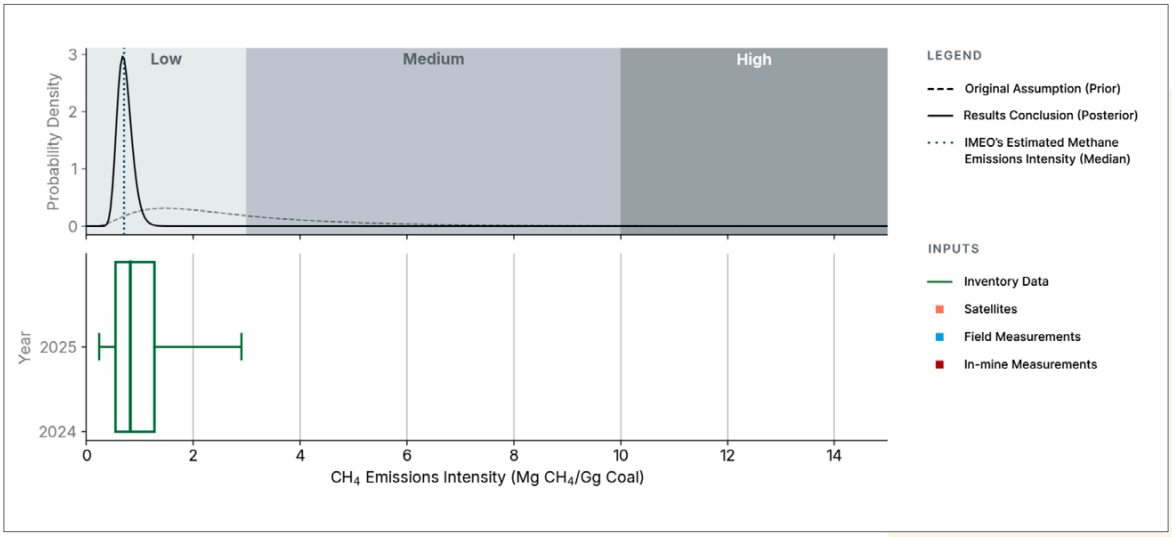
## Data inputs and integration results

The charts illustrate how multiple data inputs are combined to produce IMEO's mine-level methane emissions intensity estimate:

- The lower chart shows the top 15 weighted data inputs, together with their associated uncertainty ranges, used to derive IMEO's methane emissions intensity estimate for the mine. The classification of these inputs is described in the Inputs section. Inventory estimates are presented as a single box-and-whisker representation.

- The upper chart presents the results of IMEO's data integration model, showing the probabilistic distribution of methane emission intensities consistent with the available evidence.

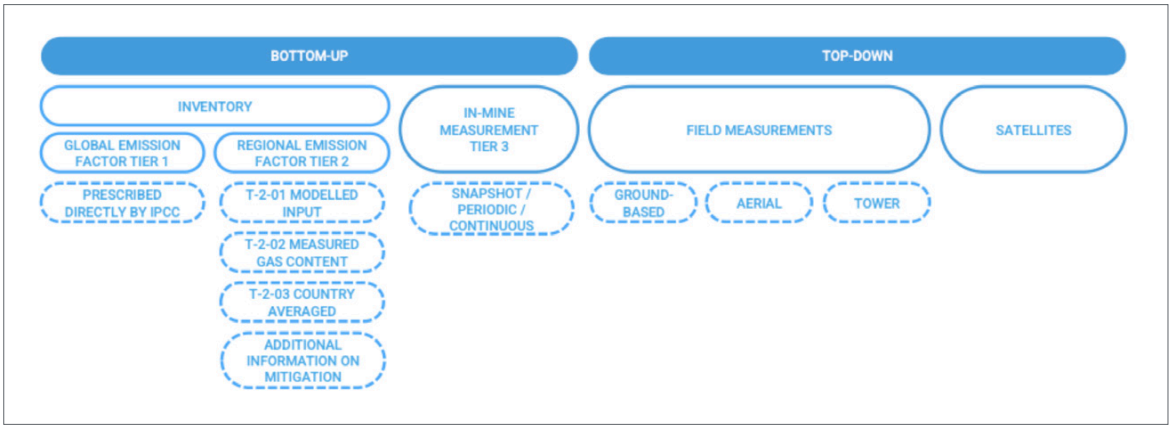
The relative influence of individual data inputs within the integration model is informed by their relative uncertainties, which have been attenuated by multiple factors including data recency, location of measurement in production chain (before or after potential mitigation), and data source trust.




## Top data inputs table

The table lists the most influential data inputs used in the estimate and their identifiers including:

- **Data approach** – Method used to estimate the value
  *Examples:*
  - Bottom-up;
  - Satellites;
  - Field measurements




- **Data category** – Sub-category of the method used to estimate the value

| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category |
|---|---|---|---|---|---|---|
| Satellite | 2025 | 1.2 | 38% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification |

*Examples:*
- Bottom-up:
  - Inventory: Tier-1; Tier-2-01; Tier-2-02; Tier-2-03;
  - In-mine: Tier-3;
- Satellite
- Field measurements
  - Aerial;
  - Ground;
  - Tower

- **Data source –** Resource where the value was reported or published
  *Examples:* Science study (external); Science study (IMEO); Company reporting; Independent reporting; IPCC; UNFCCC; IMEO MARS

- **Reporting period**
- **Emissions value and units**
- **Associated uncertainty**

Data categorisation is in line with the internal cataloguing presented above. Please note that for satellite entries, the values shown represent annualized mine-level estimates based on all available images (detects and non-detects), aggregated across the known emission sources associated with the mine.
Additional data beyond those shown are available in the full data set.

## Disclaimer

All emissions values presented in this document are model-derived estimates based on publicly available data sources, complemented by a limited set of third-party satellite data. They are subject to uncertainty and should not be interpreted as exact measurements or definitive representations of emissions at individual mines or companies. They are not a compliance or performance rating and are not a recommendation in view of procurement decisions.

## Further information

For more details, please consult the full Coal Methane Database and the accompanying methodology documentation or contact IMEO at unep-smp@un.org.

CANADA

# FORDING RIVER OPERATIONS

LOCATION (LAT., LON.) 50.1928, -114.8647

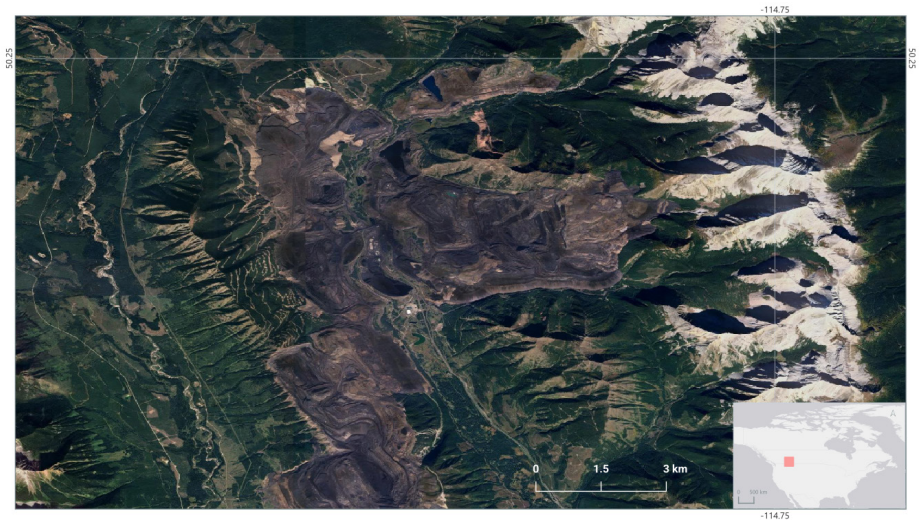
**GEM MINE ID**
M0142

**MINING TYPE**
Surface

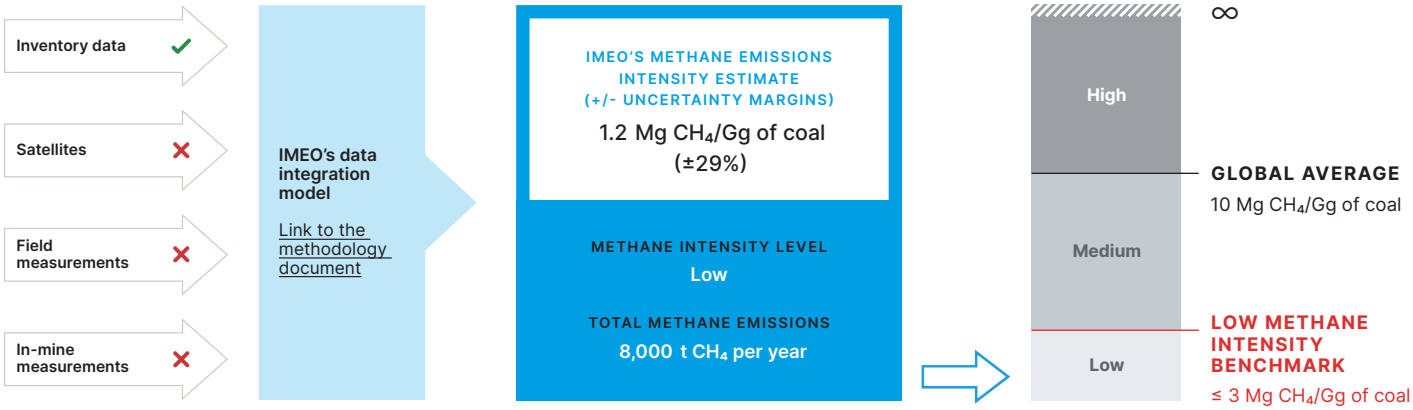
**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
6.8 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Fording_River_Operations




## METHANE EMISSION PROFILE

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SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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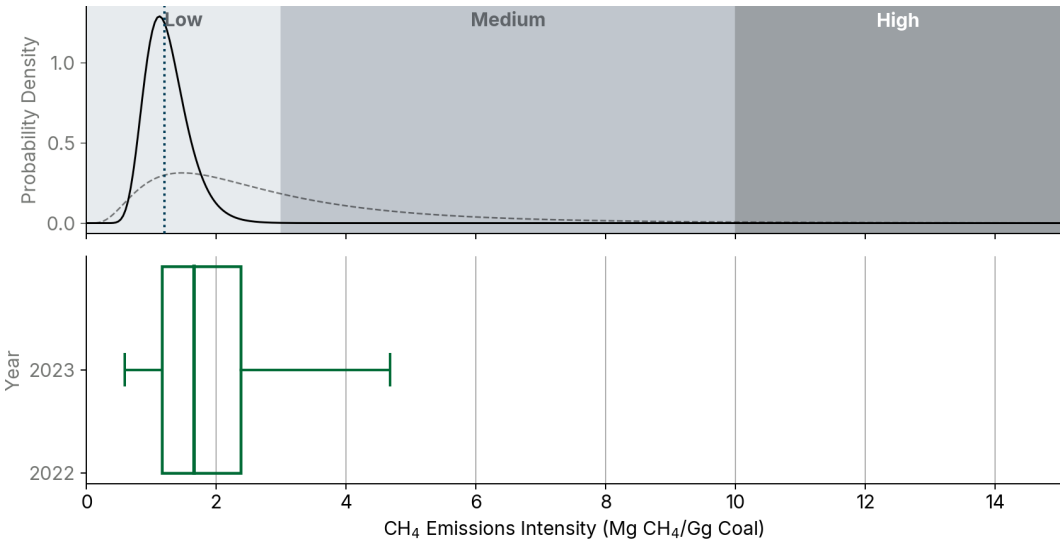
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR FORDING RIVER OPERATIONS




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

Inventory inputs may appear more than once due to similarity indexing used to incorporate comparable data points into the model. See methodology for further detail.

| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory (Company reporting) | 2022 | 1.4 | 50% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2023 | 0.9 | 75% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2023 | 4 | 100% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 2 | 131% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |
| Inventory (Company reporting) | 2022 | 1 | 140% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2022 | 1 | 140% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2022 | 3 | 209% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2022 | 1 | 297% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

CANADA

# GREENHILLS COAL MINE

LOCATION (LAT., LON.) 50.2003, -115.0083

**GEM MINE ID**
M0146

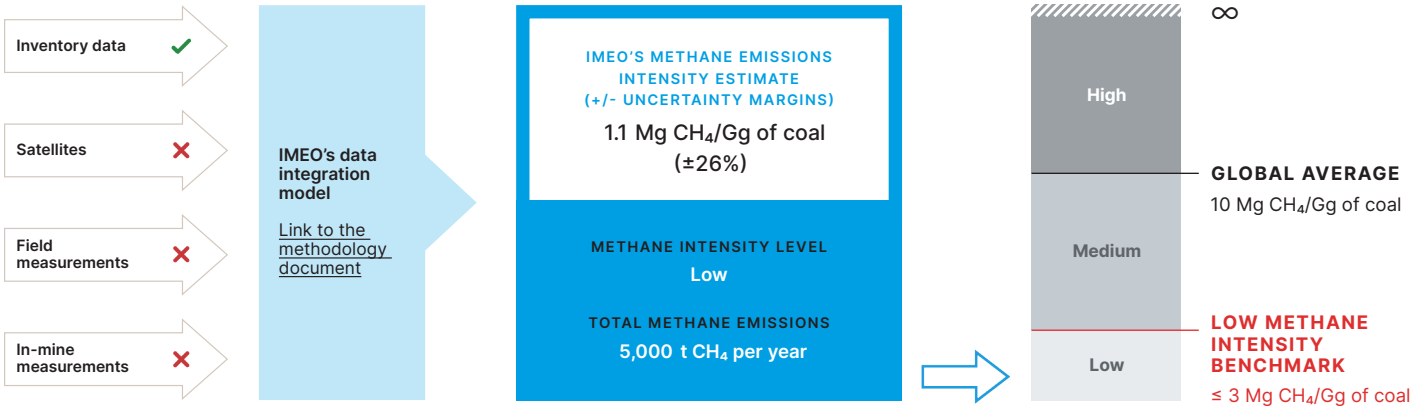
**MINING TYPE**
Surface

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
4.4 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Greenhills_Mine

## METHANE EMISSION PROFILE

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SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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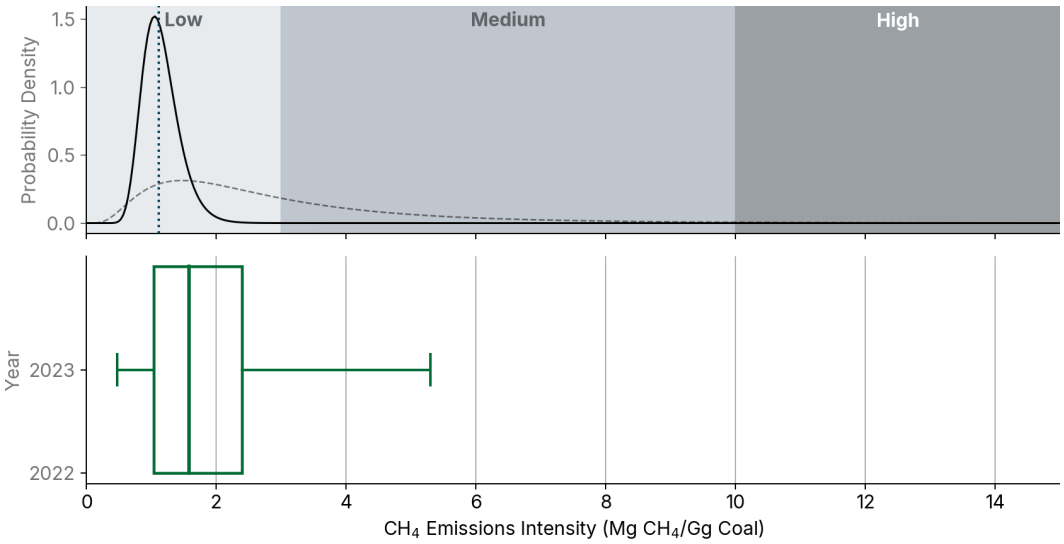
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR GREENHILLS COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory (Company reporting) | 2022 | 1.3 | 50% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2022 | 0.7 | 50% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2022 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2022 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |
| Inventory (Company reporting) | 2022 | 1 | 140% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2023 | 1 | 209% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2023 | 0 | 279% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 2 | 366% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

CANADA

# ELKVIEW COAL MINE

LOCATION (LAT., LON.) 49.7425, -114.8239

**GEM MINE ID**
M0140

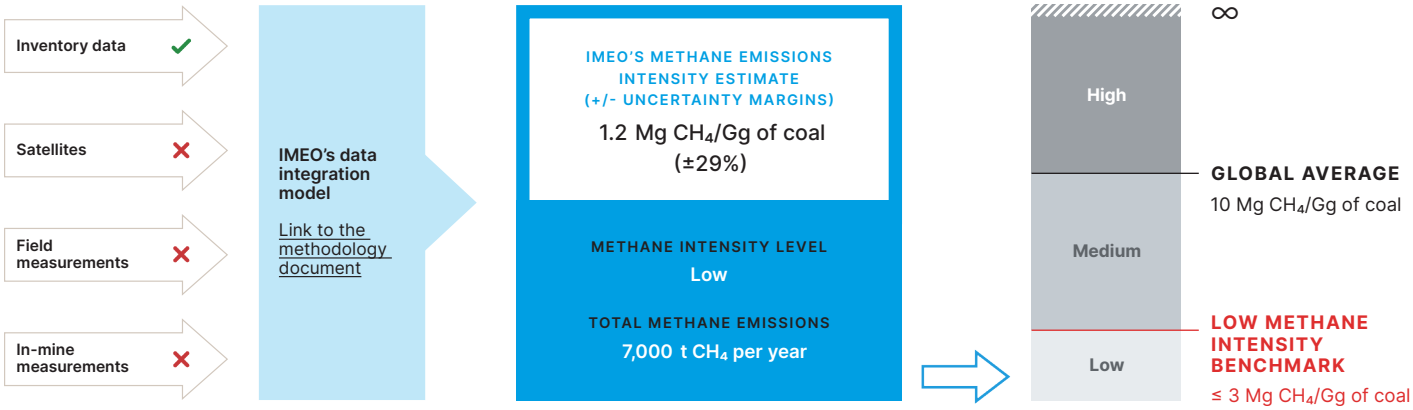
**MINING TYPE**
Surface

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
5.4 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Elkview_Mine

## METHANE EMISSION PROFILE




The Steel Methane Programme (SMP), managed by the UN Environment Programme's International Methane Emissions Observatory (IMEO), is a global initiative to make methane emissions from coal measurable, transparent and actionable across the steel supply chain.

SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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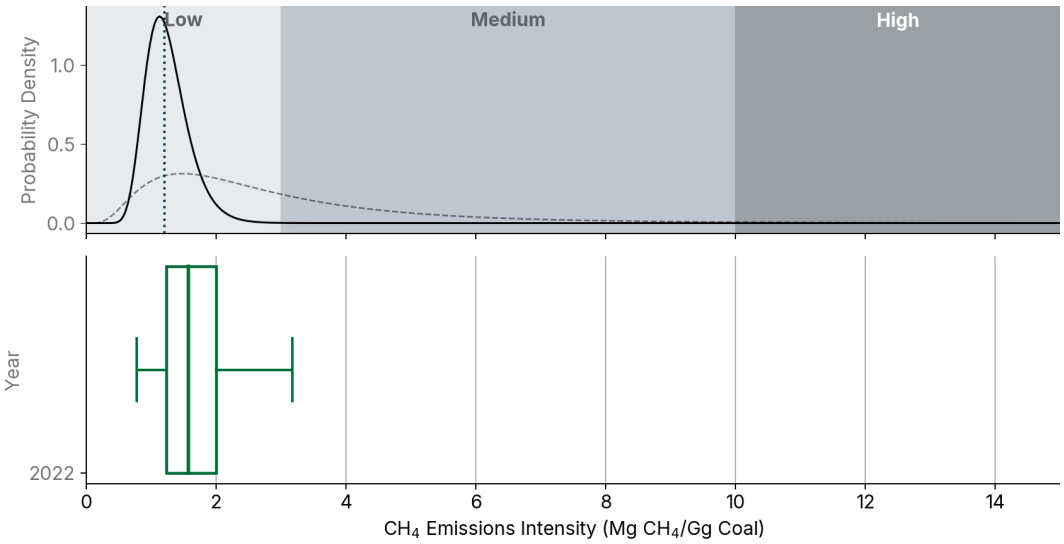
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR ELKVIEW COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory (Company reporting) | 2022 | 1.4 | 50% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2022 | 0.7 | 50% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2022 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2022 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

CANADA

# GRANDE CACHE COAL MINE

LOCATION (LAT., LON.) 53.8856, -119.1223

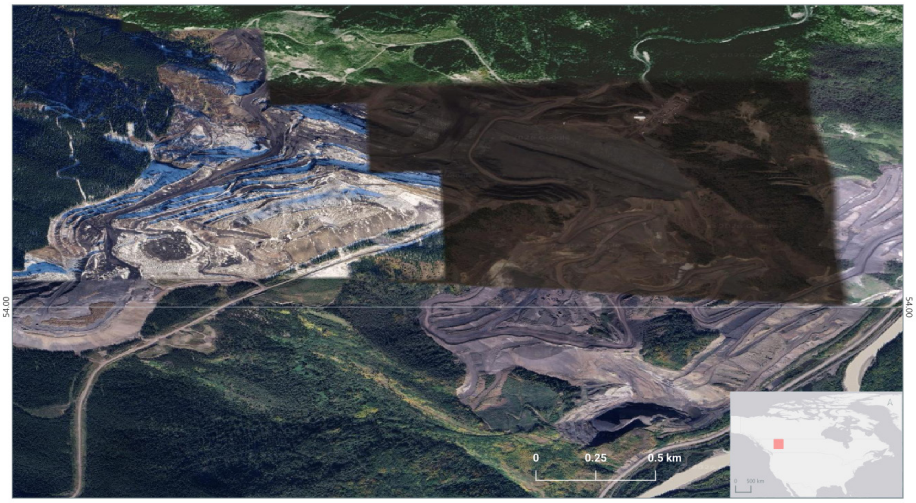
**GEM MINE ID**
M2348

**MINING TYPE**
Surface

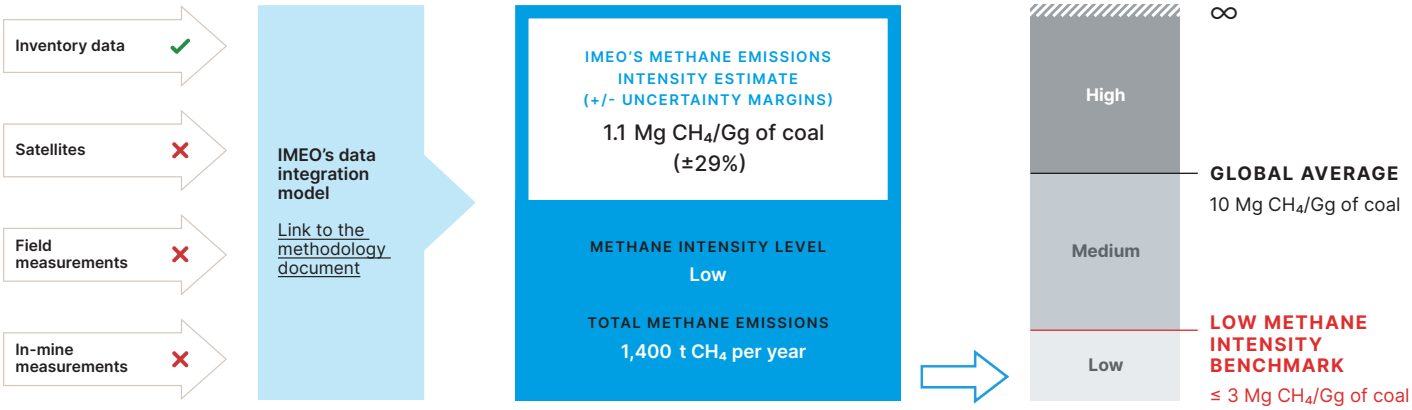
**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
1.3 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Grande_Cache_Coal




## METHANE EMISSION PROFILE

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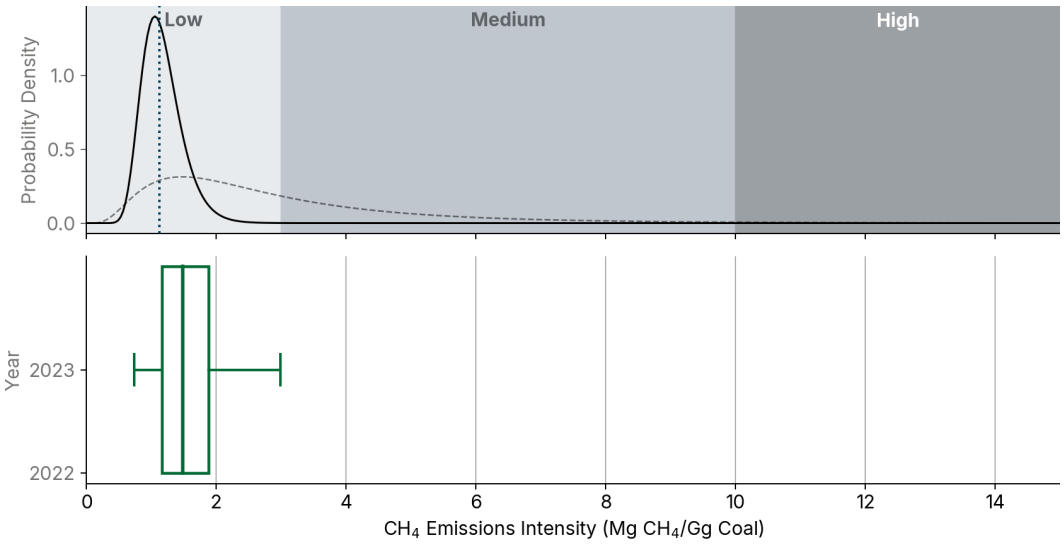
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR GRANDE CACHE COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory (Company reporting) | 2022 | 1.1 | 50% | Mg $CH_4$/Gg Coal | Tier-2-02 | Canada GHGRP | Link |
| Inventory | 2023 | 0.7 | 50% | Mg $CH_4$/Gg Coal | Tier-2-03 | Canada NIR report | Link |
| Inventory | 2023 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

COLOMBIA

# LA RAMADA COAL MINE

LOCATION (LAT., LON.) 5.3277, -73.7039

**GEM MINE ID**
M6708

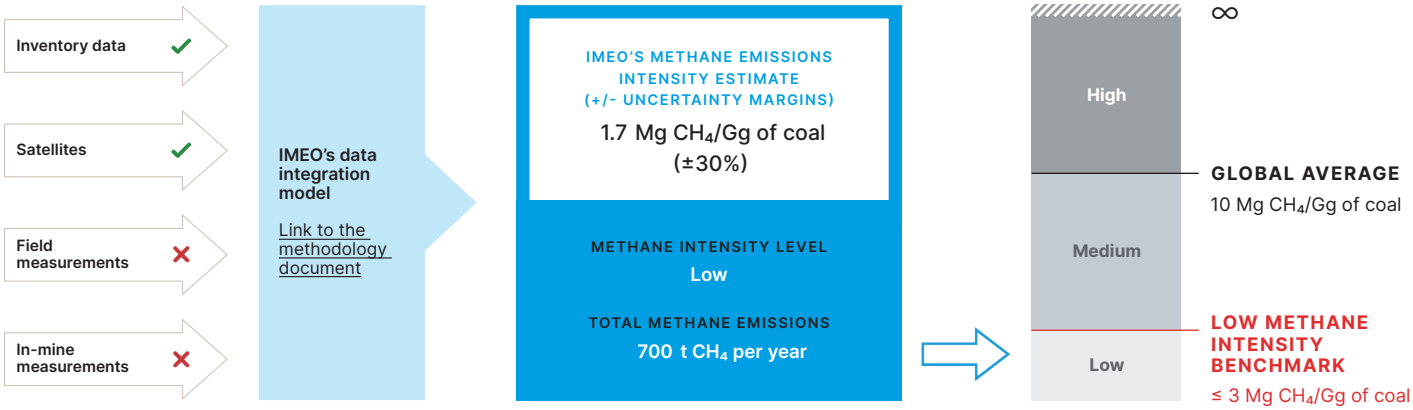
**MINING TYPE**
Underground

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
0.4 Mtpa (2024)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/La_Ramada_Coal_Mine

## METHANE EMISSION PROFILE

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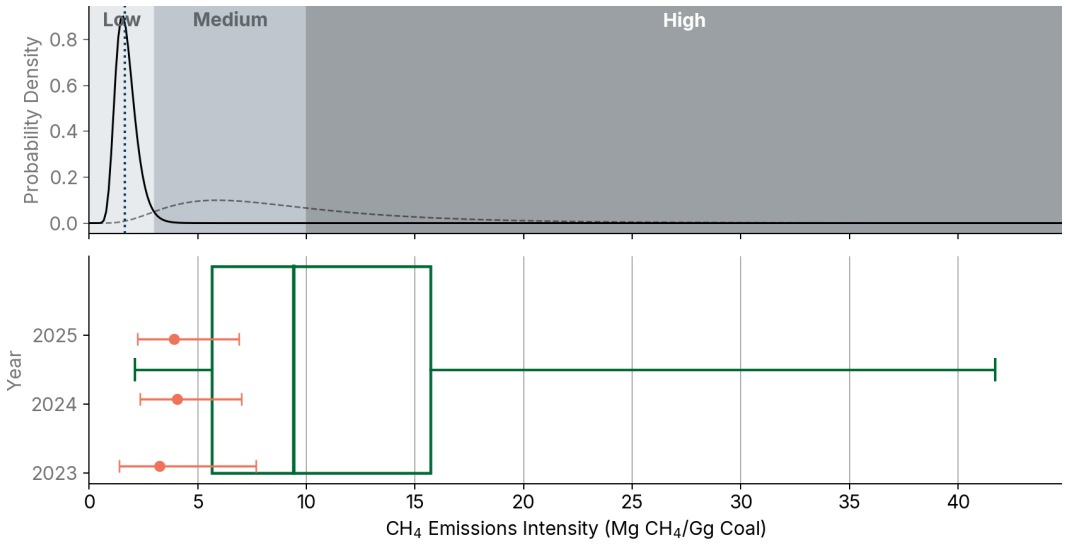
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR LA RAMADA COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Satellite | 2024 | 5 | 59% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Satellite | 2025 | 5 | 61% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Satellite | 2023 | 5 | 105% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Inventory | 2025 | 30 | 114% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 0 | 0% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

COLOMBIA

# SAN LUIS COAL MINE

LOCATION (LAT., LON.) 6.6967, -73.5162

**GEM MINE ID**
M3844

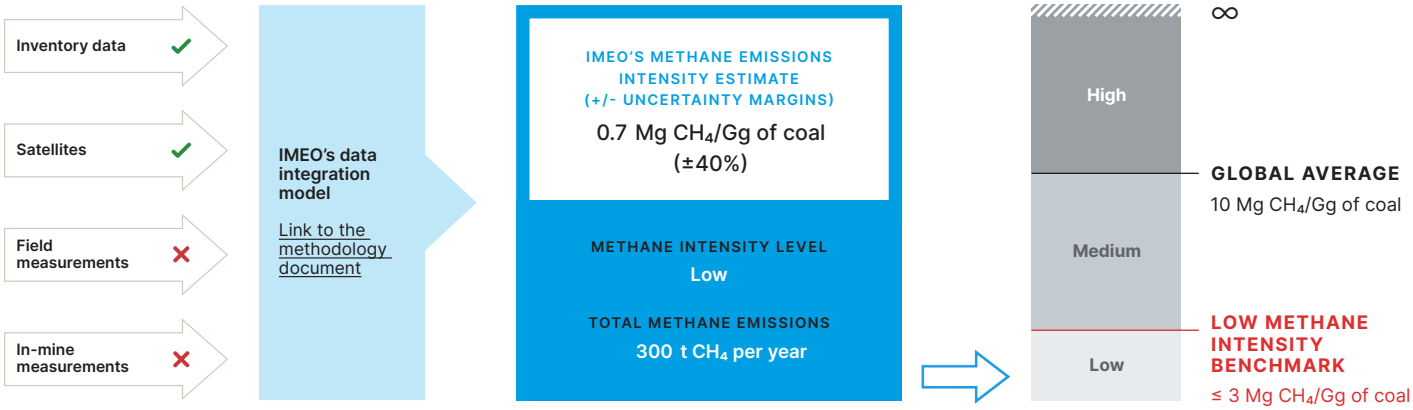
**MINING TYPE**
Underground

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
0.4 Mtpa (2024)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/San_Luis_Coal_Mine_(Colombia)

## METHANE EMISSION PROFILE




The Steel Methane Programme (SMP), managed by the UN Environment Programme's International Methane Emissions Observatory (IMEO), is a global initiative to make methane emissions from coal measurable, transparent and actionable across the steel supply chain.

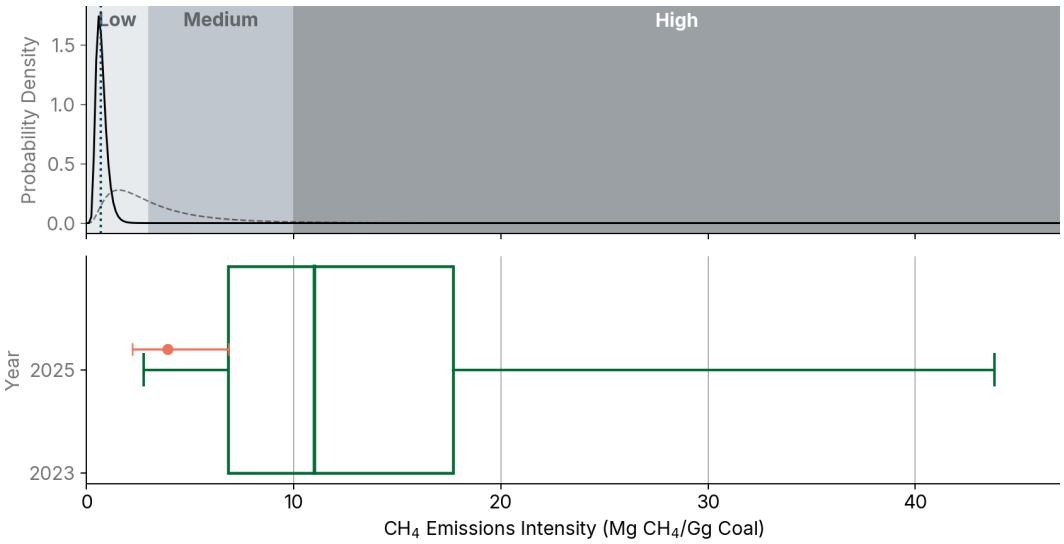
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

All emissions values presented in this document are model-derived estimates based on publicly available data sources, complemented by a limited set of third-party satellite data. They are subject to uncertainty and should not be interpreted as exact measurements or definitive representations of emissions at individual mines or companies. They are not a compliance or performance rating and are not a recommendation in view of procurement decisions.

More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR SAN LUIS COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

Inventory inputs may appear more than once due to similarity indexing used to incorporate comparable data points into the model. See methodology for further detail.

| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Satellite | 2025 | 5 | 61% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Inventory | 2025 | 20 | 130% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 0 | 0% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |
| Inventory | 2023 | 20 | 151% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

CZECH REPUBLIC

# KARVINA COAL MINES

LOCATION (LAT., LON.) 49.8171, 18.5485

**GEM MINE ID**
M0449

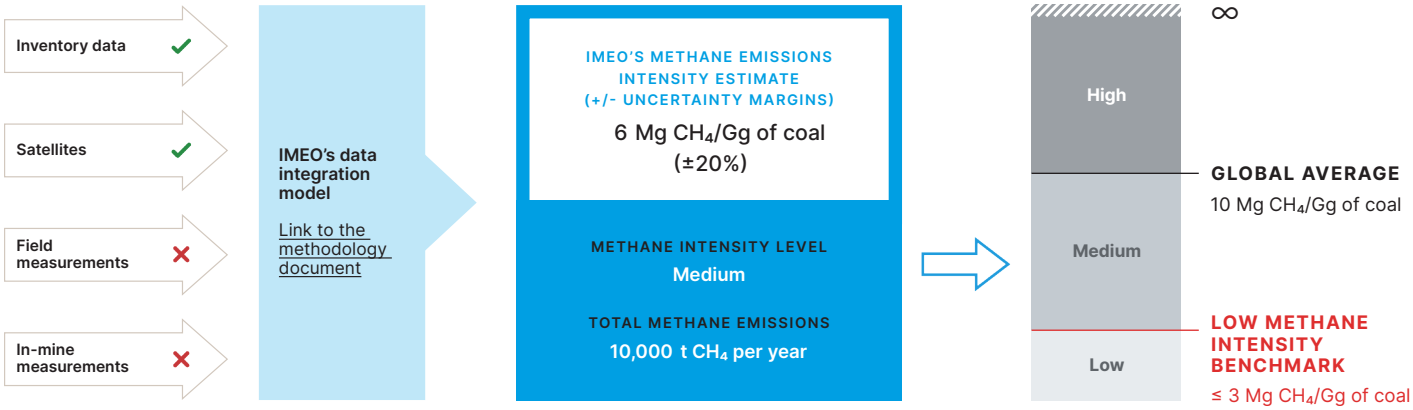
**MINING TYPE**
Underground

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
1.5 Mtpa (2024)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Karvina_coal_mines

## METHANE EMISSION PROFILE

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SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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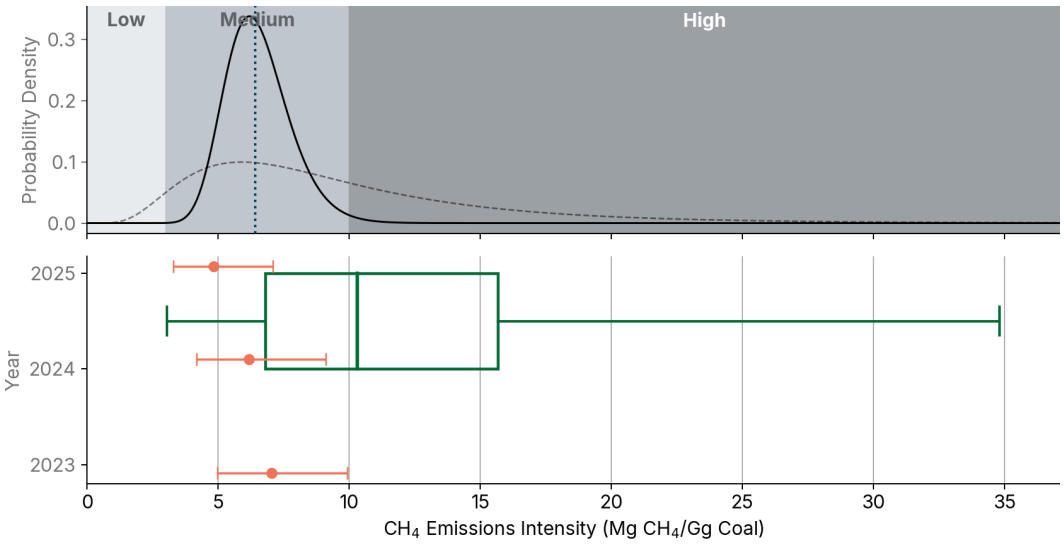
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR KARVINA COAL MINES




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Satellite | 2023 | 7 | 36% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Satellite | 2025 | 5 | 40% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Satellite | 2024 | 7 | 40% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Inventory | 2024 | 8 | 105% | Mg $CH_4$/Gg Coal | Tier-2-03 | Czech Republic NIR | Link |
| Inventory | 2024 | 20 | 108% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2024 | 10 | 140% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

INDONESIA

# AMC COAL MINES

LOCATION (LAT., LON.) 0.2242, 113.5507

**GEM MINE ID**
M1339

**MINING TYPE**
Surface

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
5.1 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/AMC_coal_mines

## METHANE EMISSION PROFILE

- Inventory data ✓
- Satellites ✗
- Field measurements ✗
- In-mine measurements ✗

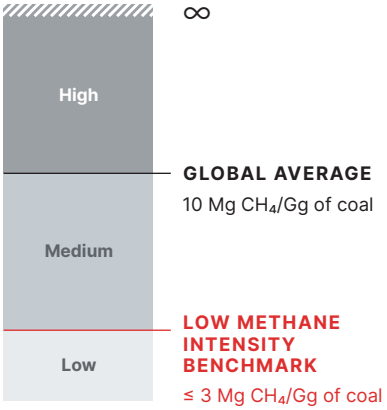
**IMEO's data integration model**

Link to the methodology document

**IMEO'S METHANE EMISSIONS INTENSITY ESTIMATE (+/- UNCERTAINTY MARGINS)**
2 Mg $CH_4$/Gg of coal (±48%)

**METHANE INTENSITY LEVEL**
Low

**TOTAL METHANE EMISSIONS**
10,000 t $CH_4$ per year

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SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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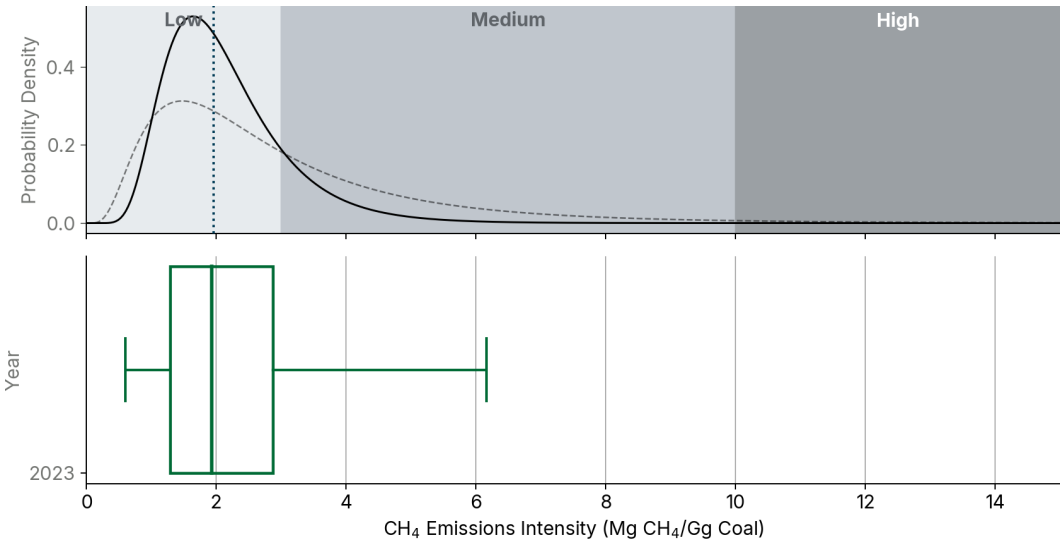
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR AMC COAL MINES




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

MONGOLIA

# OVOOT TOLGOI COAL MINE

LOCATION (LAT., LON.) 43.0022, 101.2606

**GEM MINE ID**
M0735

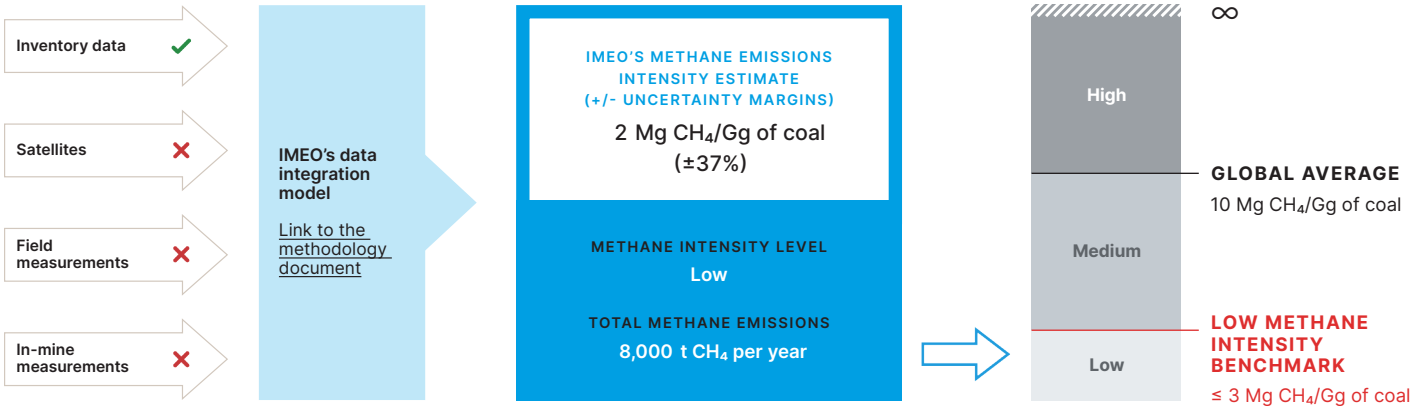
**MINING TYPE**
Surface

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
4.1 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Ovoot_Tolgoi_mine

## METHANE EMISSION PROFILE

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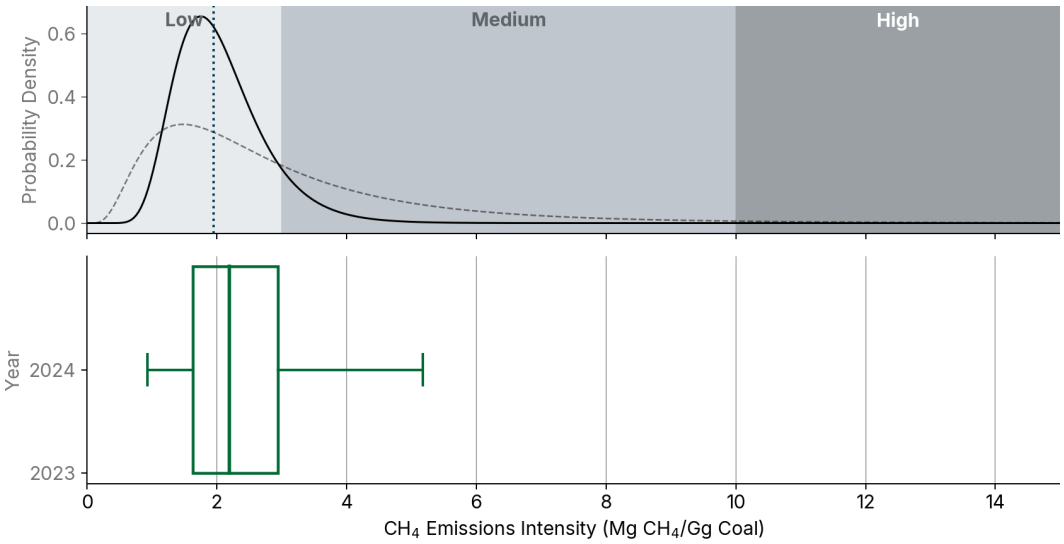
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR OVOOT TOLGOI COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2024 | 4 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |
| Inventory | 2024 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

MONGOLIA

# NARIIN SUKHAIT COAL MINE

LOCATION (LAT., LON.) 43.0022, 101.2606

**GEM MINE ID**
M0732

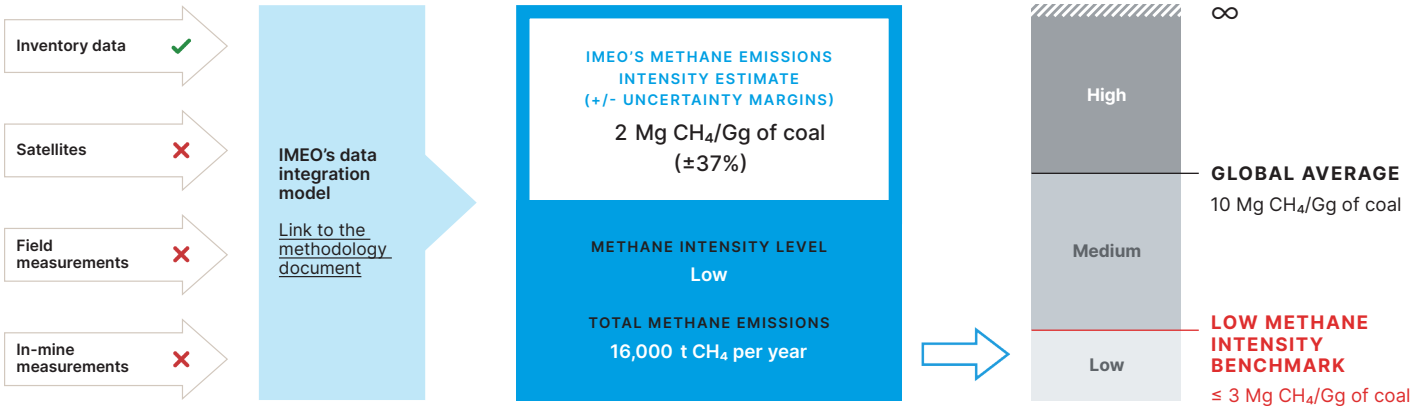
**MINING TYPE**
Surface

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
8 Mtpa (2024)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Nariin_Sukhait_mine

## METHANE EMISSION PROFILE




The Steel Methane Programme (SMP), managed by the UN Environment Programme's International Methane Emissions Observatory (IMEO), is a global initiative to make methane emissions from coal measurable, transparent and actionable across the steel supply chain.

SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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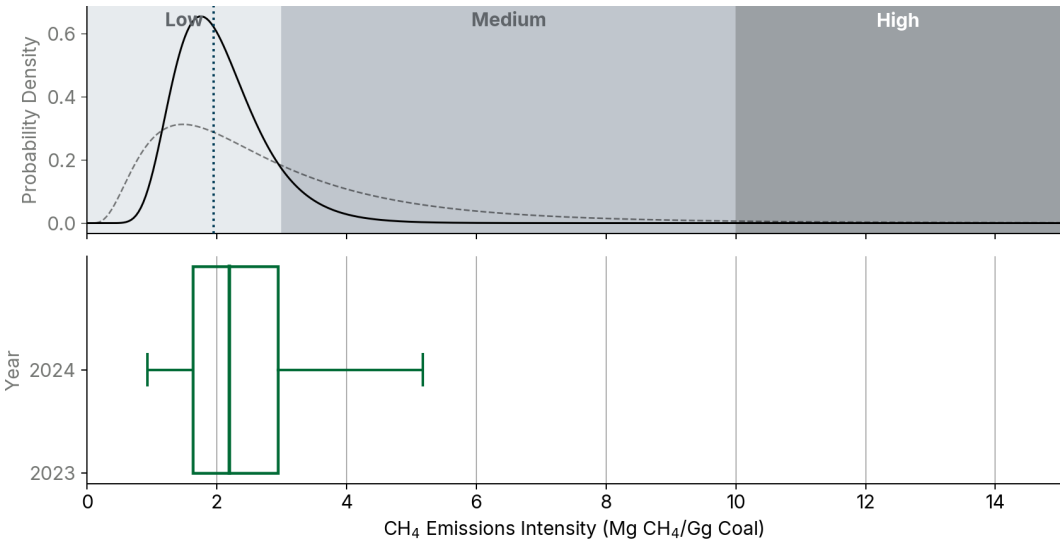
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR NARIIN SUKHAIT COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2024 | 4 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2024 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

MONGOLIA

# TAVAN TOLGOI COAL MINE

LOCATION (LAT., LON.) 43.625, 105.4742

**GEM MINE ID**
M0736

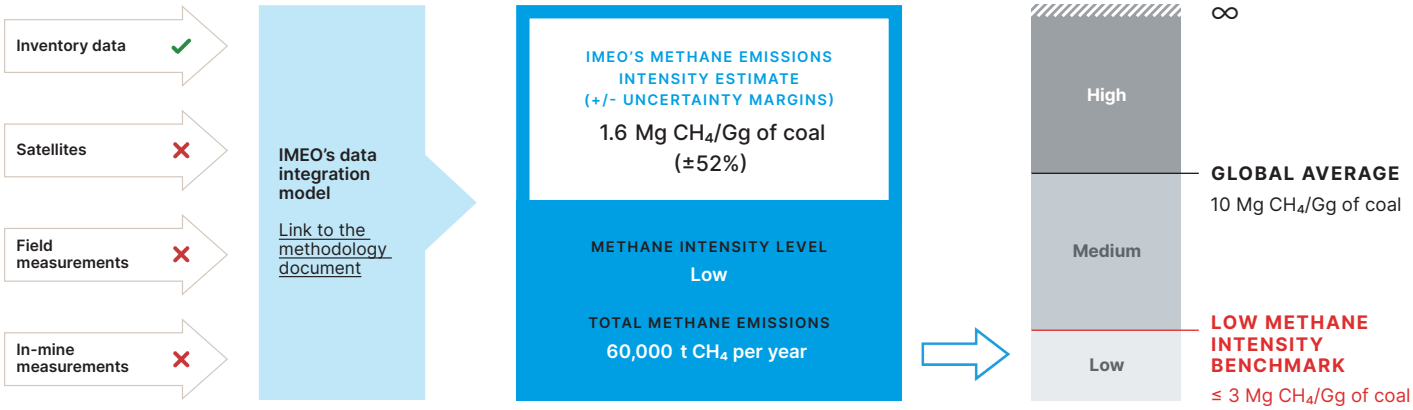
**MINING TYPE**
Surface

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
40.7 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Tavan_Tolgoi_coal_deposit

## METHANE EMISSION PROFILE

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SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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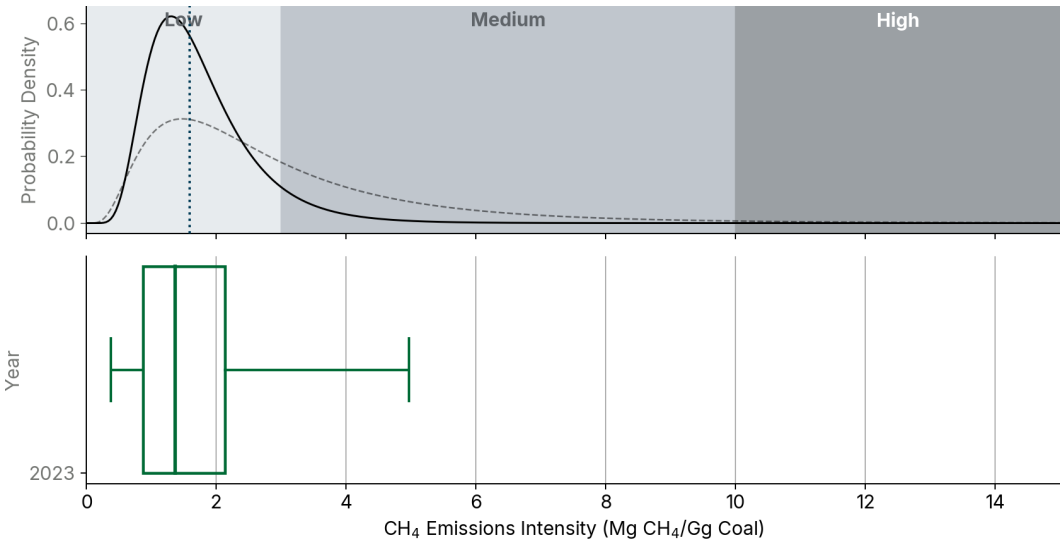
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR TAVAN TOLGOI COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

Inventory inputs may appear more than once due to similarity indexing used to incorporate comparable data points into the model. See methodology for further detail.

| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 2 | 88% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 119% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

MOZAMBIQUE

# CHIRODZI COAL MINE

LOCATION (LAT., LON.) -15.9141, 33.0132

**GEM MINE ID**
M0739

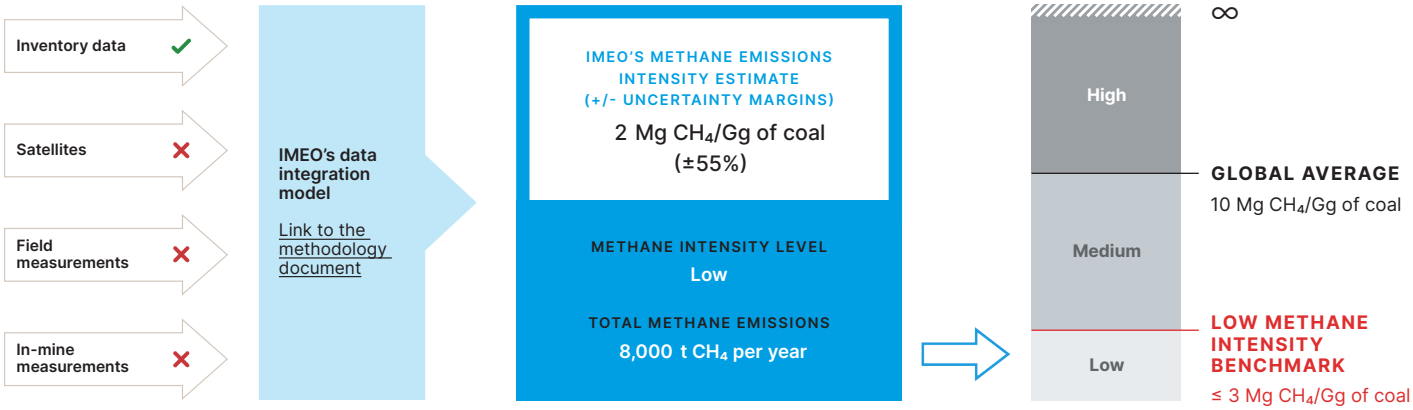
**MINING TYPE**
Surface

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
3.8 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Chirodzi_coal_mine

## METHANE EMISSION PROFILE

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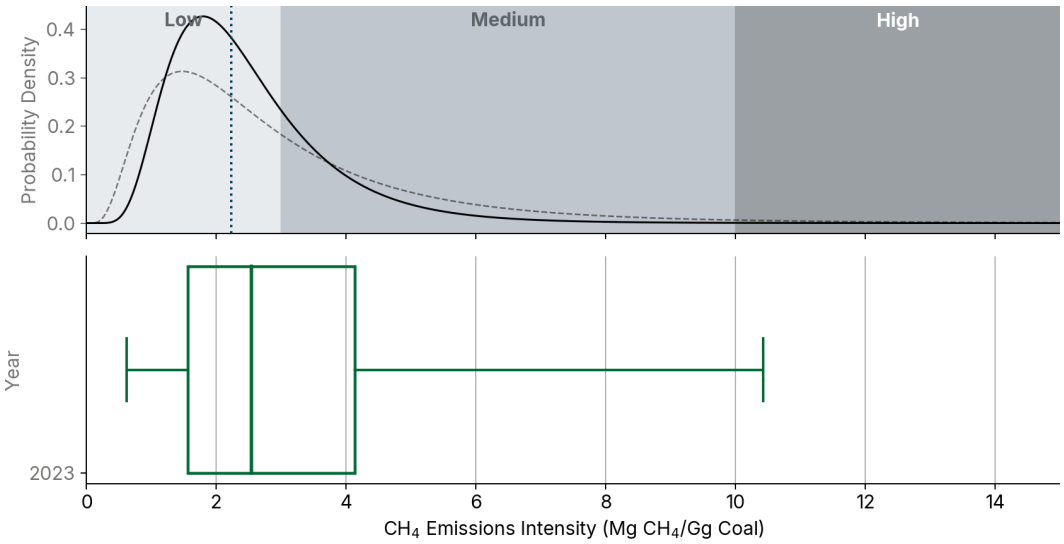
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR CHIRODZI COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 5 | 100% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 2 | 131% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

NEW ZEALAND

# STOCKTON COAL MINE

LOCATION (LAT., LON.) -41.6689, 171.8723

**GEM MINE ID**
M1301

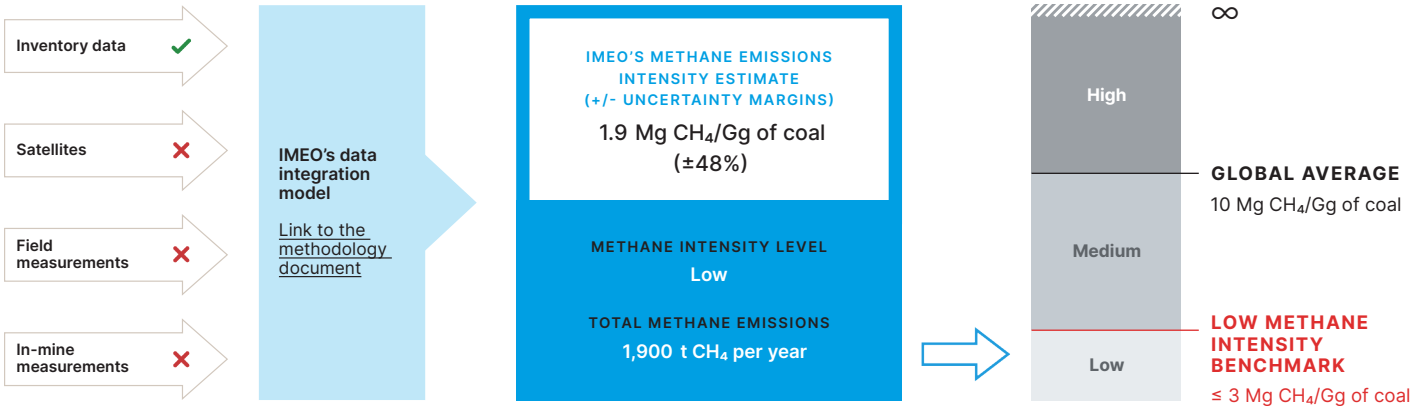
**MINING TYPE**
Surface

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
1 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Stockton_mine

## METHANE EMISSION PROFILE

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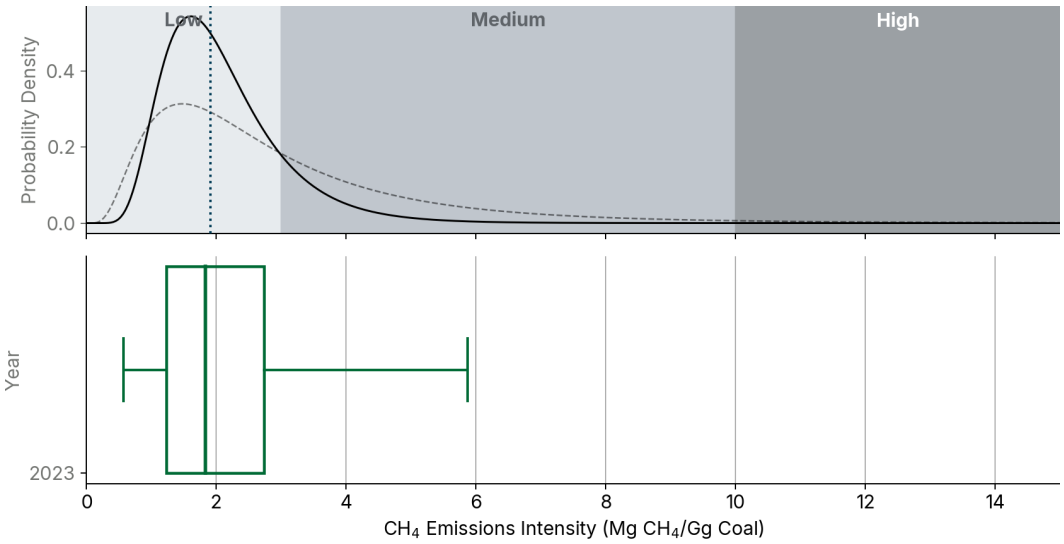
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR STOCKTON COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 3 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

NORWAY

# MINE 7 COAL MINE

LOCATION (LAT., LON.) 78.1568, 16.0231

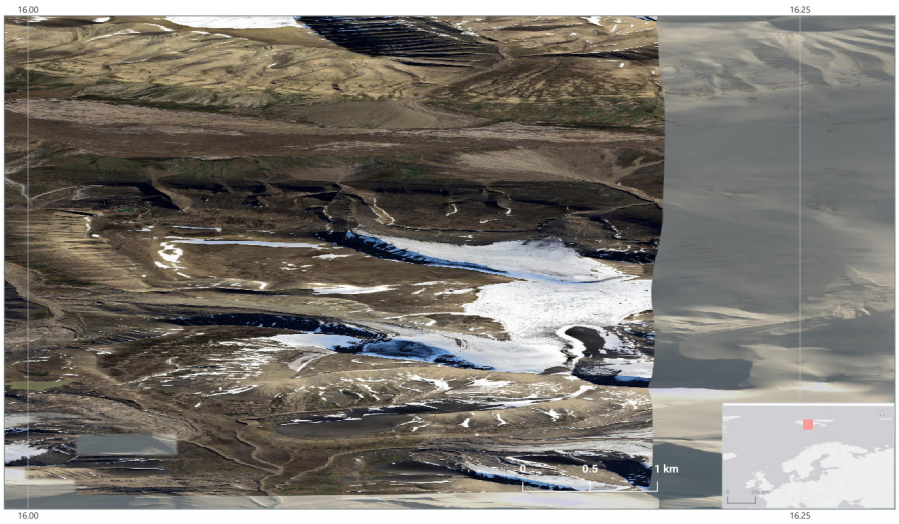
**GEM MINE ID**
M1455

**MINING TYPE**
Underground

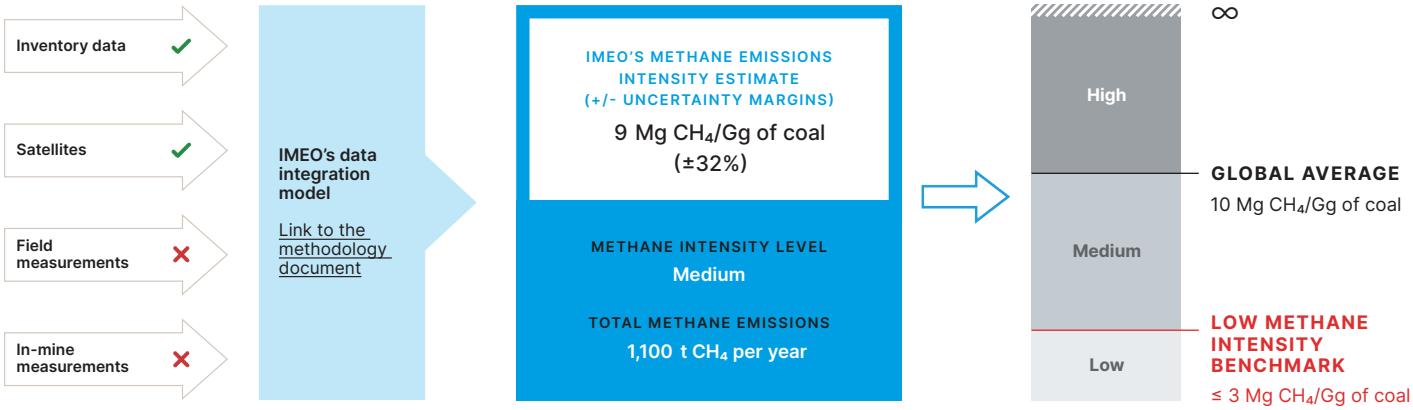
**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
0.1 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Gruve_7_Coal_Mine




## METHANE EMISSION PROFILE

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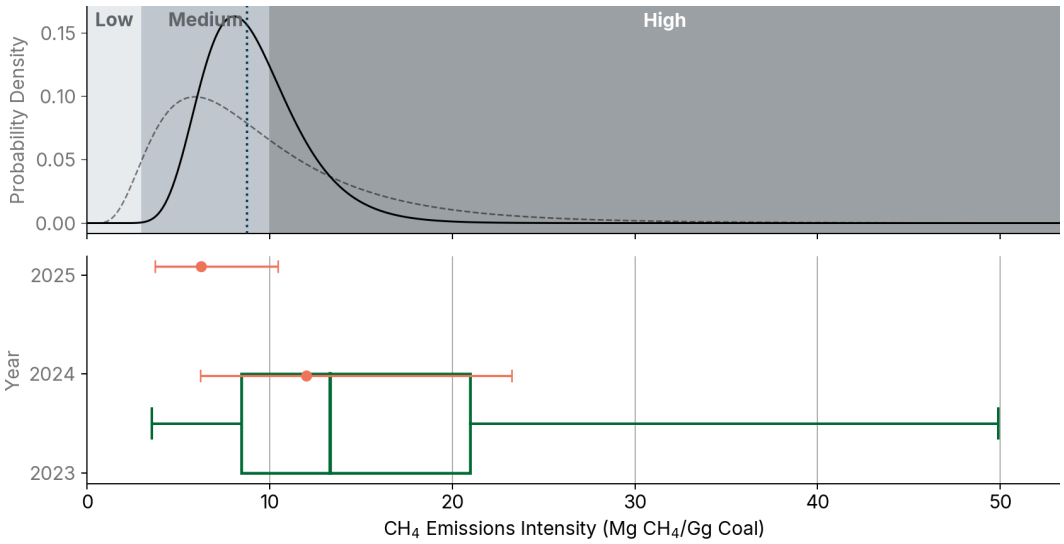
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR MINE 7 COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

Data beyond top 15 data sources is available in the full data set.

Inventory inputs may appear more than once due to similarity indexing used to incorporate comparable data points into the model. See methodology for further detail.

| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Satellite | 2025 | 7 | 55% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Satellite | 2024 | 10 | 74% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Inventory | 2023 | 20 | 94% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 20 | 119% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

SOUTH AFRICA

# GROOTEGELUK COAL MINE

LOCATION (LAT., LON.) -23.6571, 27.5667

**GEM MINE ID**
M0900

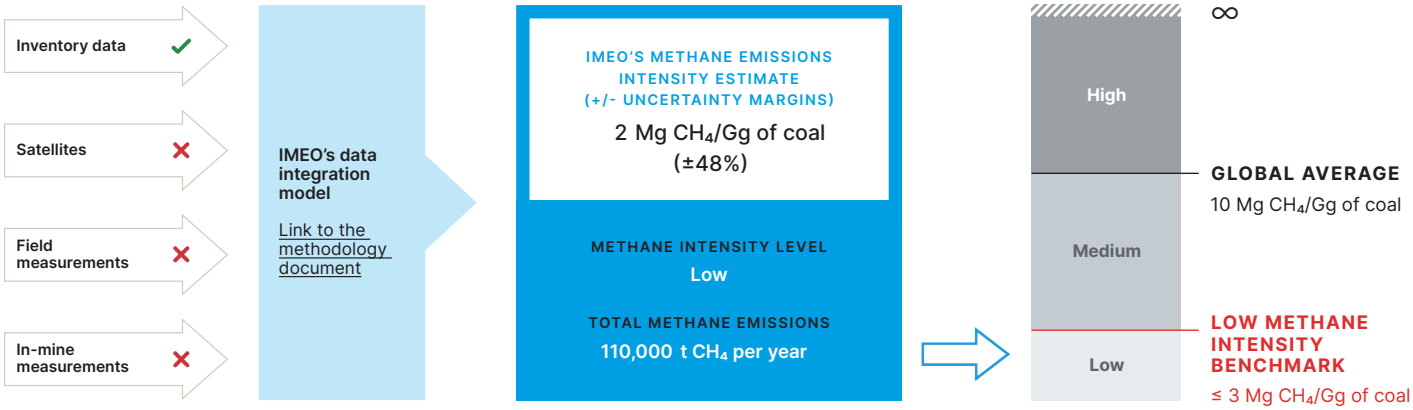
**MINING TYPE**
Surface

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
56.1 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Grootegeluk_coal_mine

## METHANE EMISSION PROFILE

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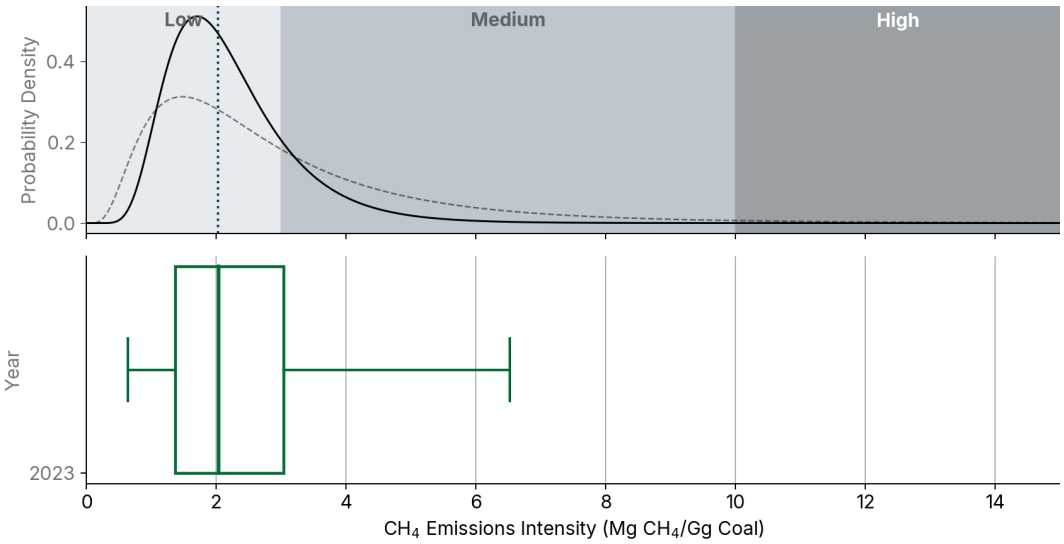
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR GROOTEGELUK COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

## TOP PUBLIC DATA INPUTS (WEIGHTED)

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2023 | 4 | 75% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 106% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

UNITED KINGDOM

# ABERPERGWM COAL MINE

LOCATION (LAT., LON.) 51.7408, -3.6443

**GEM MINE ID**
M1592

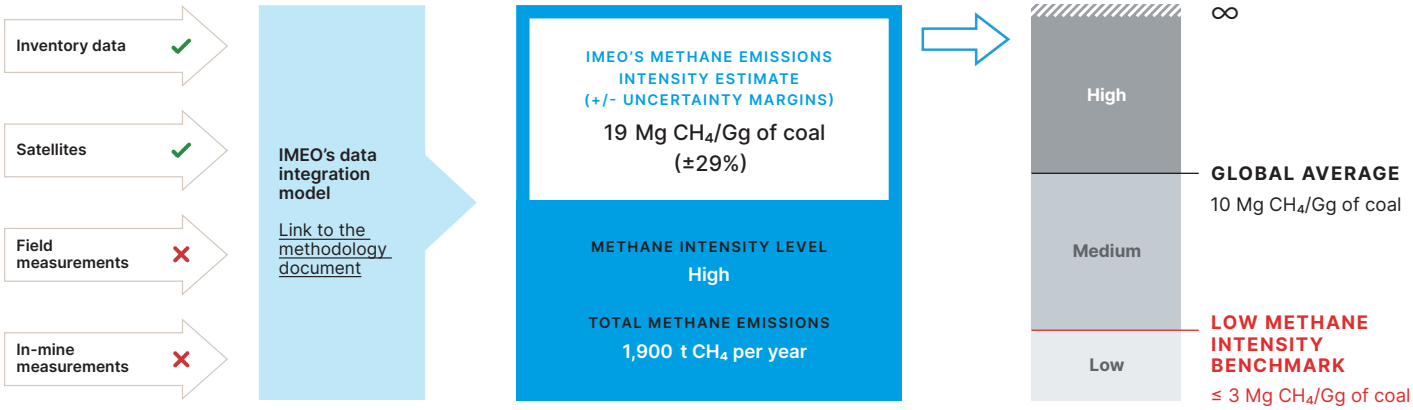
**MINING TYPE**
Underground

**COAL GRADE**
Thermal & Metallurgical

**ESTIMATED PRODUCTION**
0.1 Mtpa (2024)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Aberpergwm_Coal_Mine

## METHANE EMISSION PROFILE

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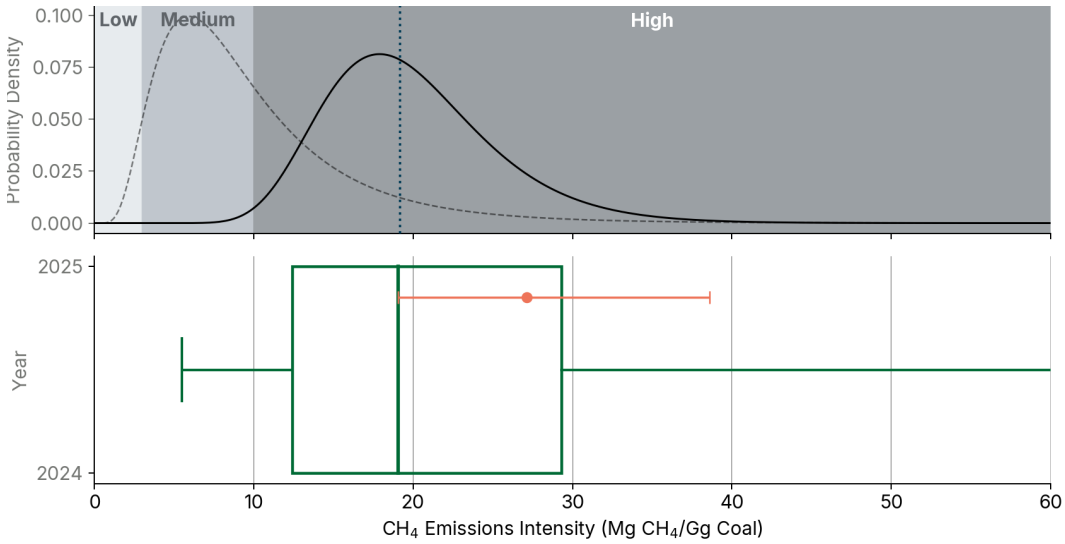
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR ABERPERGWM COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Satellite | 2025 | 30 | 36% | Mg $CH_4$/Gg Coal | Satellite | Sub mine level quantification | |
| Inventory | 2024 | 30 | 78% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2024 | 20 | 118% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

VENEZUELA

# PASO DIABLO COAL MINE

LOCATION (LAT., LON.) 11.0396, -72.2682

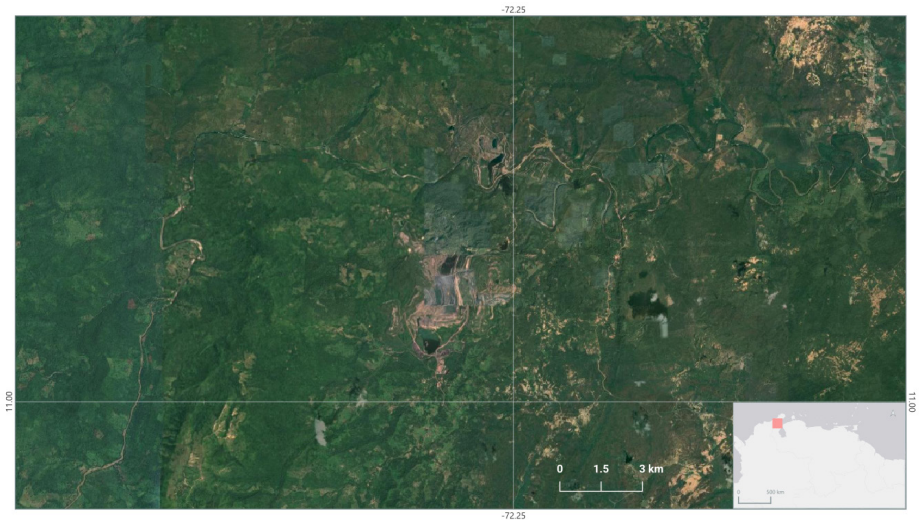
**GEM MINE ID**
M1634

**MINING TYPE**
Surface

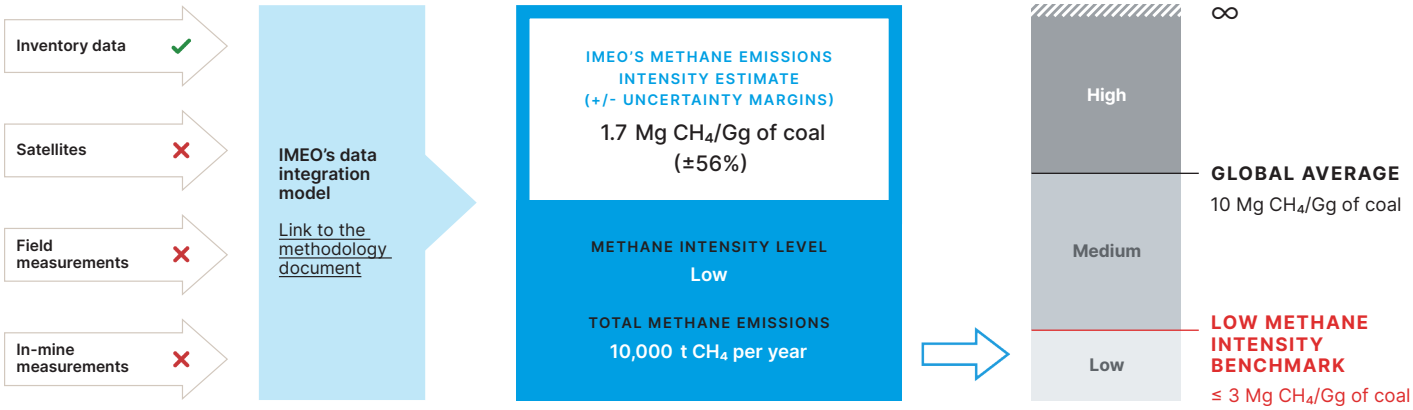
**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
6 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Paso_Diablo_Mine




## METHANE EMISSION PROFILE

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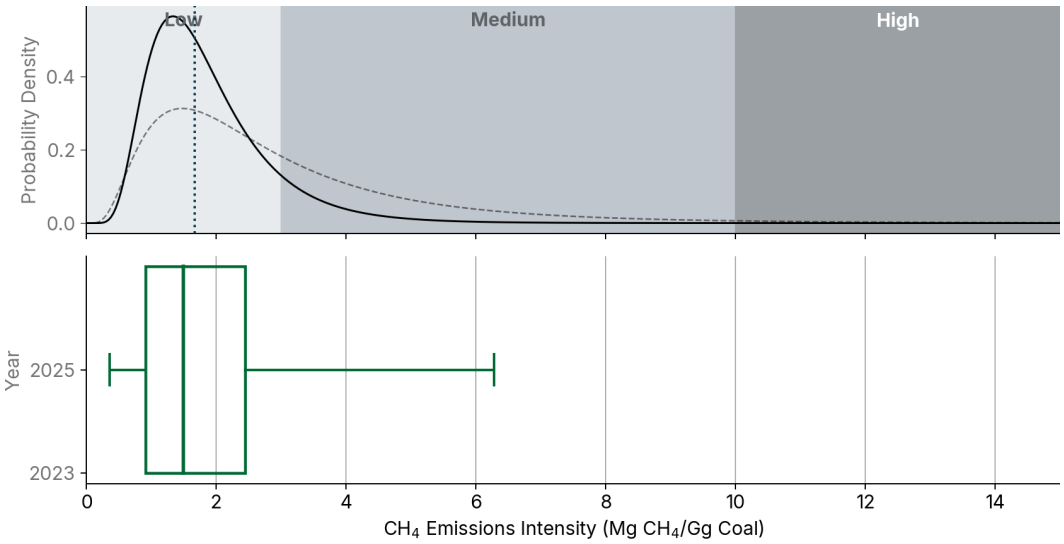
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR PASO DIABLO COAL MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

Read the methodology

Download the full data set

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2025 | 3 | 106% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2023 | 1 | 131% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |

ZIMBABWE

# COAL ZIMBABWE MINE

LOCATION (LAT., LON.) -21.0404, 31.6734

**GEM MINE ID**
M2323

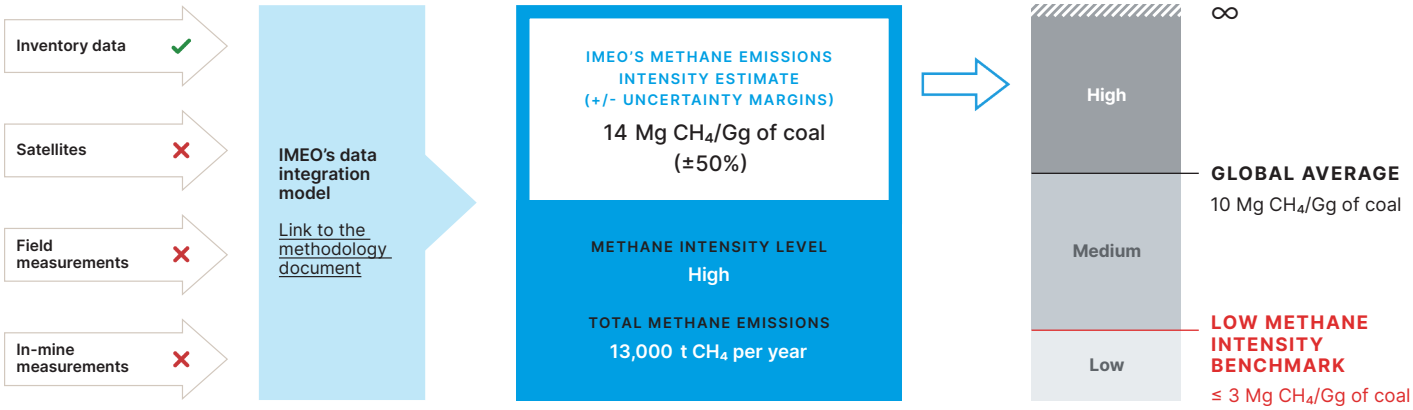
**MINING TYPE**
Underground

**COAL GRADE**
Metallurgical

**ESTIMATED PRODUCTION**
0.9 Mtpa (2023)

**ADDITIONAL MINE INFORMATION**
https://www.gem.wiki/Coal_Zimbabwe_Mine

## METHANE EMISSION PROFILE

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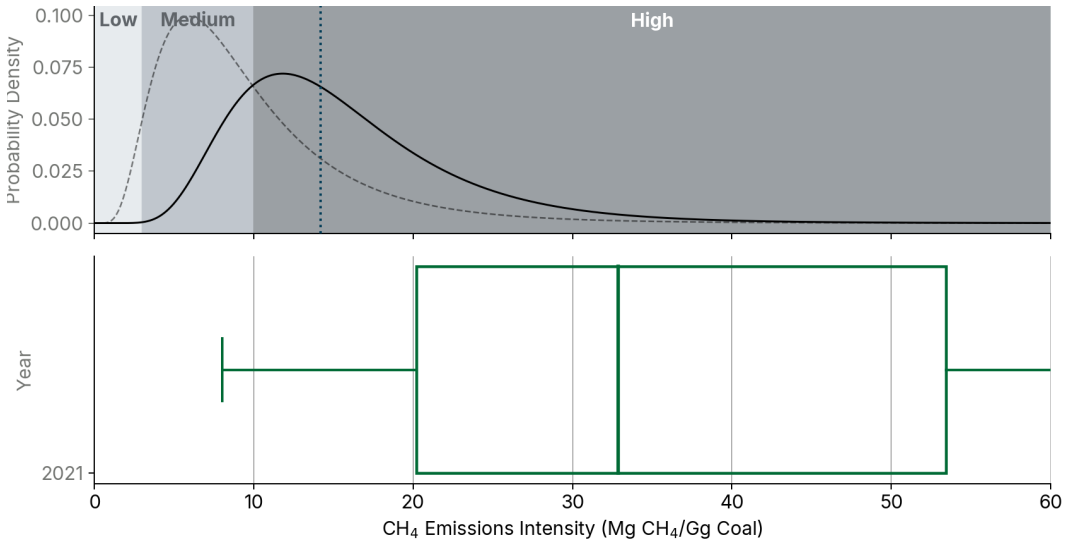
More information

# METHANE EMISSIONS DATA INPUTS

## RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR COAL ZIMBABWE MINE




LEGEND

- Original Assumption (Prior)
- Results Conclusion (Posterior)
- IMEO's Estimated Methane Emissions Intensity (Median)

INPUTS

- Inventory Data
- Satellites
- Field Measurements
- In-mine Measurements

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| Data Approach | Reporting Period | Value | Uncertainty (%) | Unit | Data Category | Source Category | |
|---|---|---|---|---|---|---|---|
| Inventory | 2021 | 40 | 100% | Mg $CH_4$/Gg Coal | Tier-2-01 | GEM Tracker 2025 | Link |
| Inventory | 2021 | 50 | 131% | Mg $CH_4$/Gg Coal | Tier-1 | IPCC 2006 guidelines | Link |