

STEEL METHANE PROGRAMME //
COAL METHANE DATABASE MINE DATA SHEETS

CHINA



May 2026

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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.

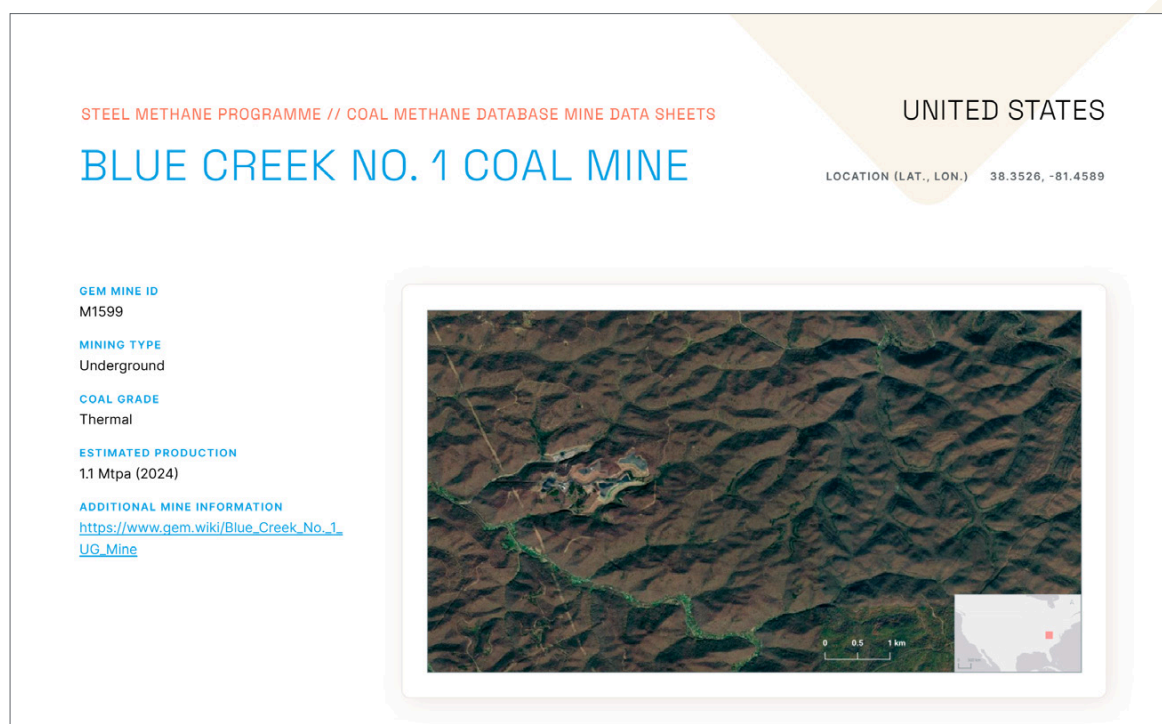
How to read mine data sheets

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.



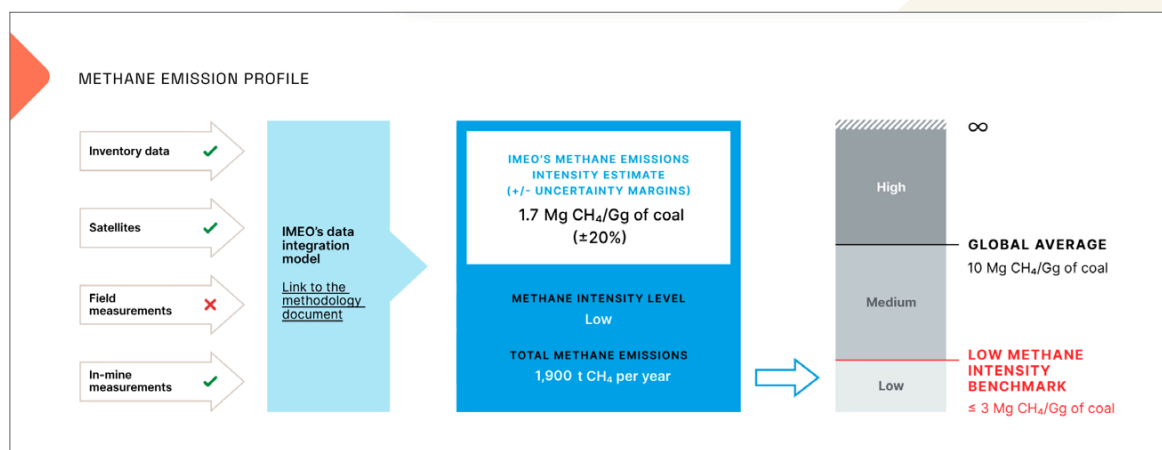
Methane emission profile

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 CH₄/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 CH₄/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.

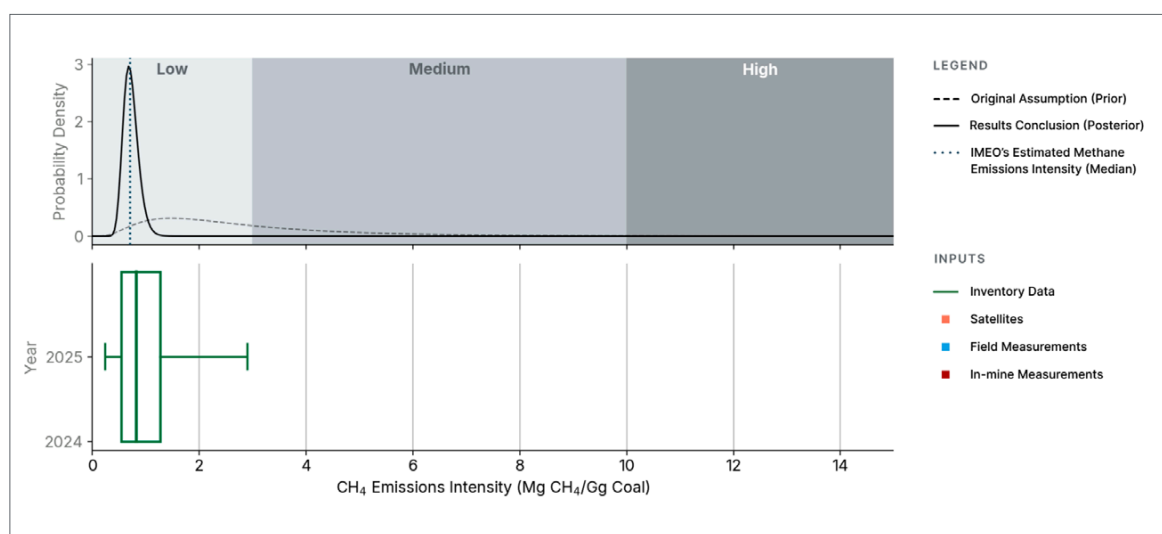


Data inputs and integration results

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.

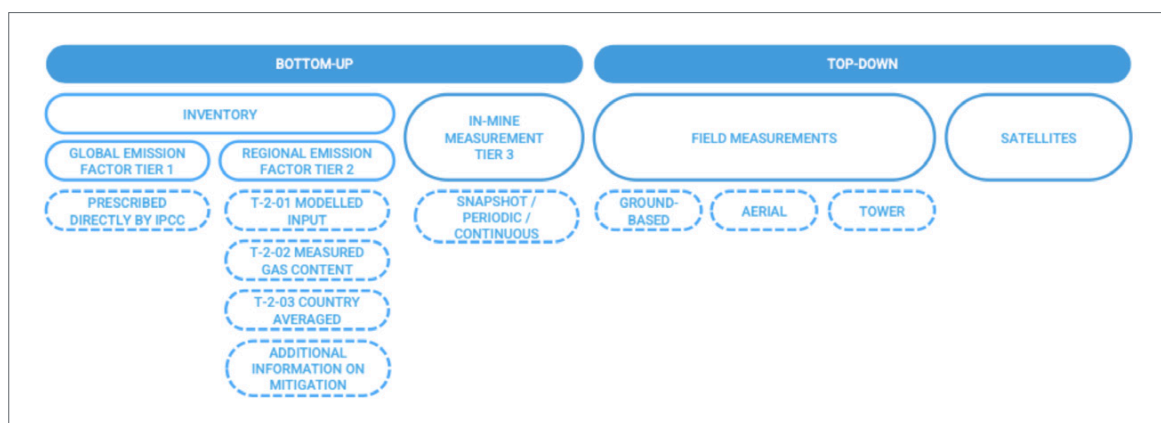
The relative influence of individual data inputs within the integration model is informed by their relative uncertainties, which have been attenuated by multiple factors including data recency, location of measurement in production chain (before or after potential mitigation), and data source trust.



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.

SHAQU NO.2 COAL MINE

LOCATION (LAT., LON.) 37.4116, 110.8618

GEM MINE ID

M1195

MINING TYPE

Underground

COAL GRADE

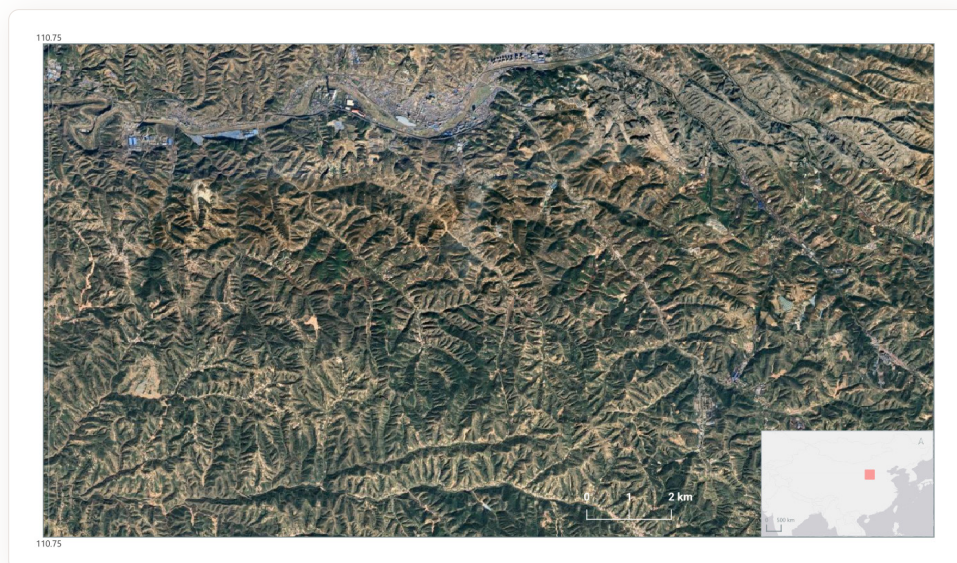
Metallurgical

ESTIMATED PRODUCTION

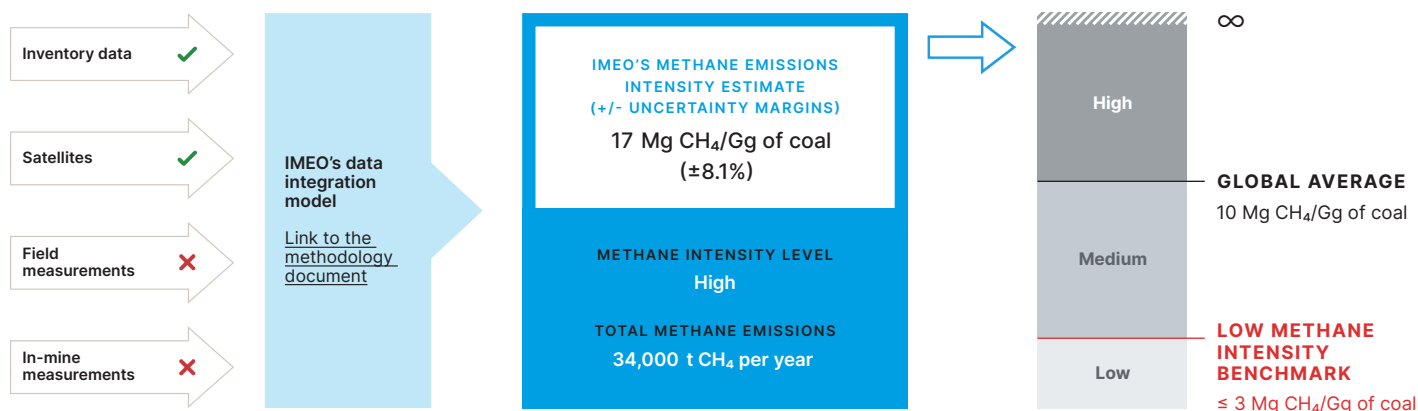
2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

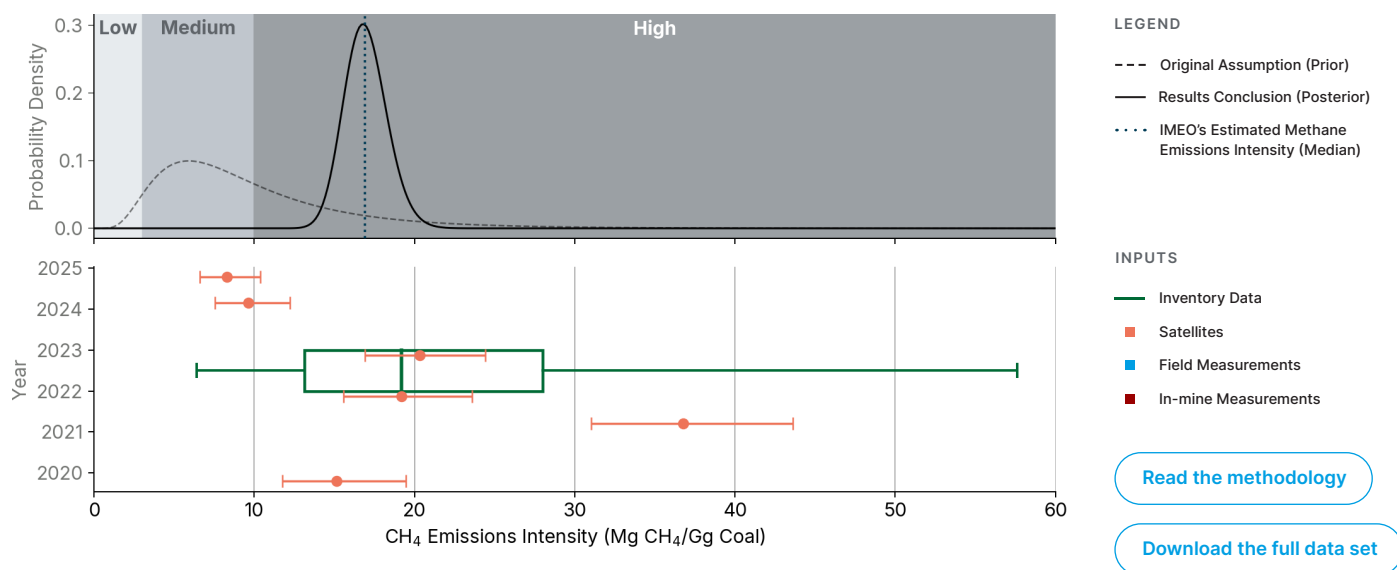
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR SHAQU NO.2 COAL MINE



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	2021	37	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	21	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	20	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	8	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	10	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	16	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	40	213%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	223%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	236%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	265%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

SHAQU NO.1 COAL MINE

LOCATION (LAT., LON.) 37.4118, 110.8614

GEM MINE ID

M0335

MINING TYPE

Underground

COAL GRADE

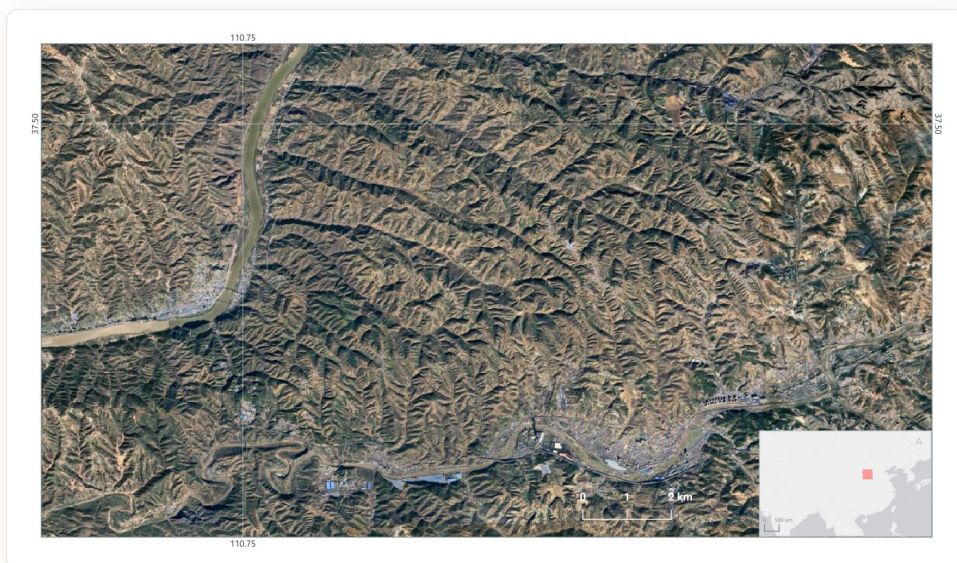
Metallurgical

ESTIMATED PRODUCTION

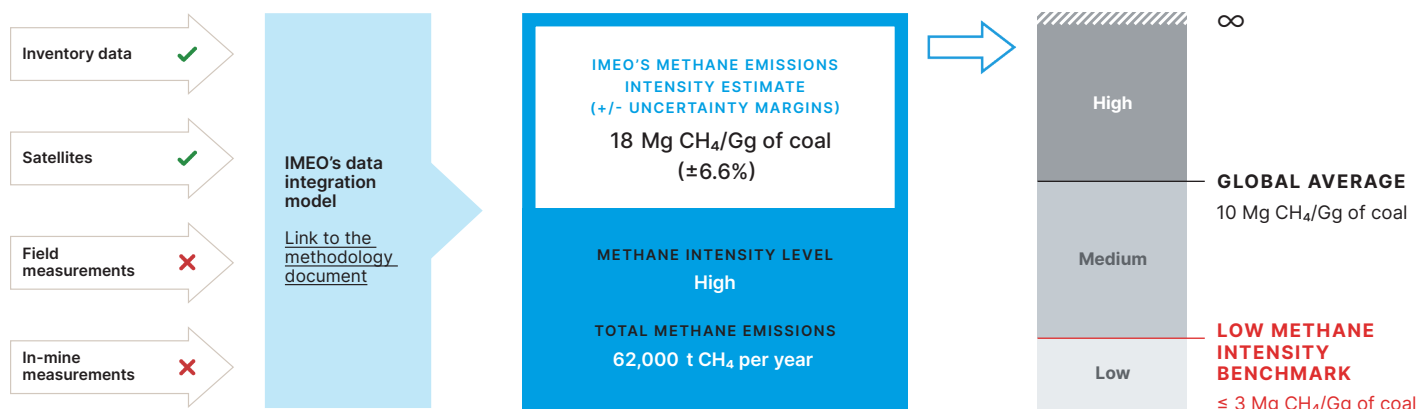
3.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



METHANE EMISSION PROFILE



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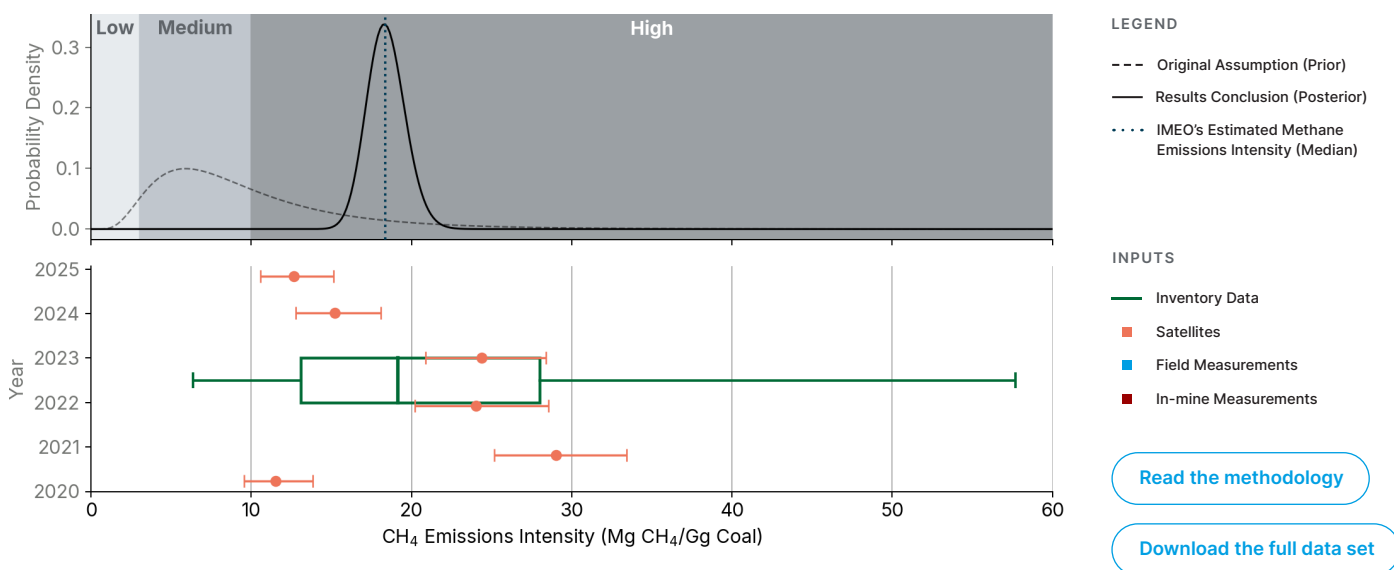
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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR SHAQU NO.1 COAL MINE



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	2021	29	14%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	25	15%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	24	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	15	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	13	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	12	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	184%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	40	212%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	225%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	237%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	266%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

CHANGCUN COAL MINE

LOCATION (LAT., LON.) 36.3627, 112.9758

GEM MINE ID

M3707

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

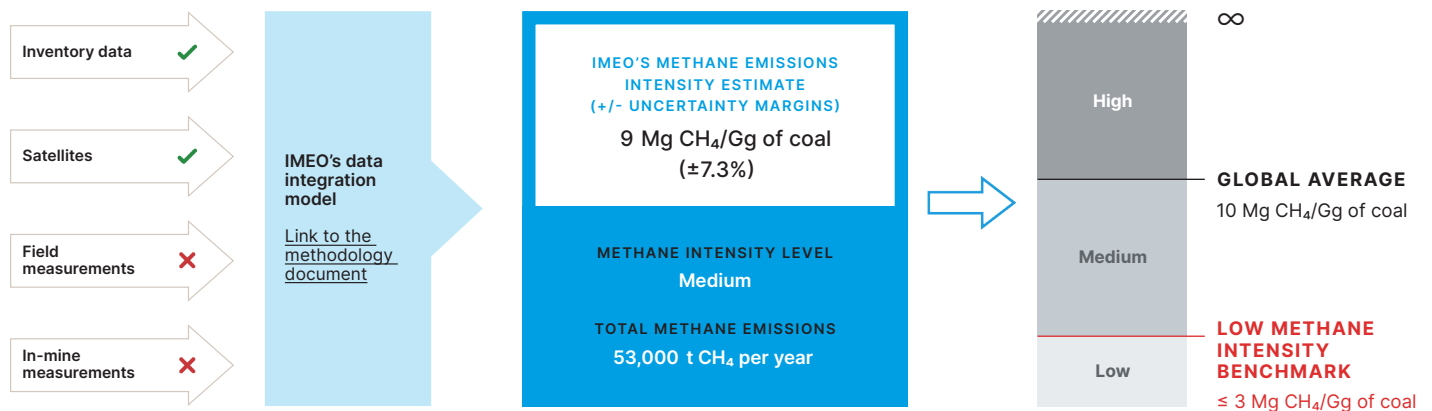
6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



METHANE EMISSION PROFILE



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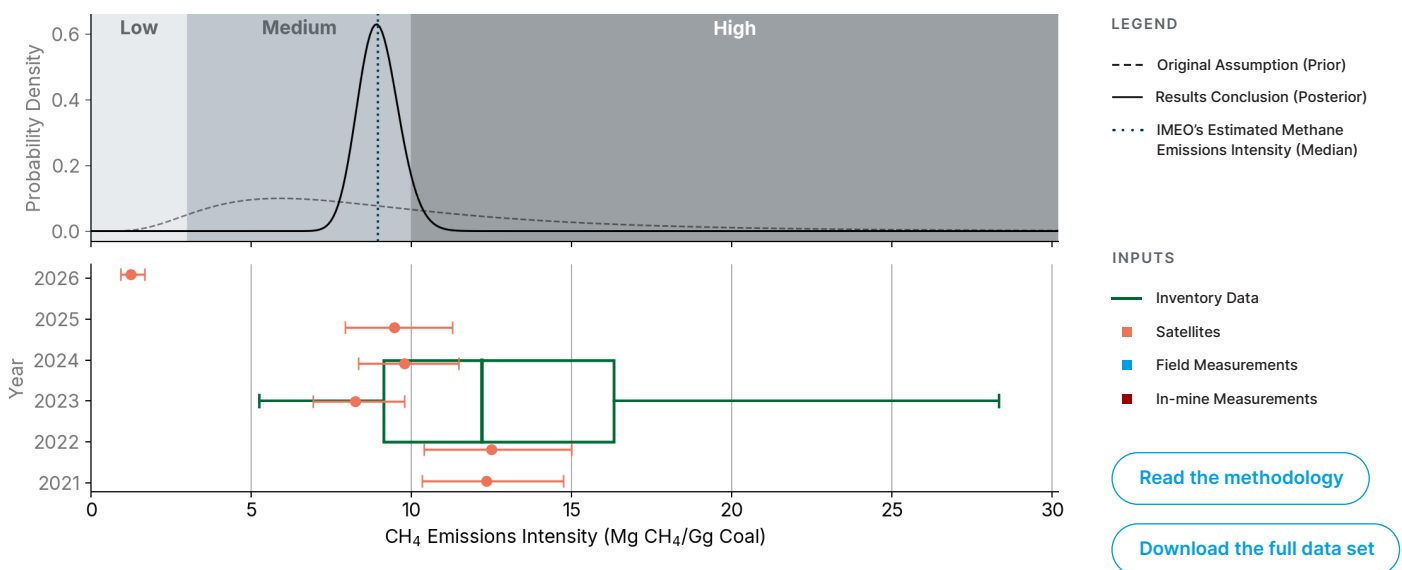
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR CHANGCUN COAL MINE



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	2024	10	16%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	8	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	10	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	13	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	13	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.3	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	12	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	12	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	84%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	7	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	136%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	147%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	160%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	238%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

WANGPO COAL MINE

LOCATION (LAT., LON.) 35.6726, 112.729

GEM MINE ID

M1217

MINING TYPE

Underground

COAL GRADE

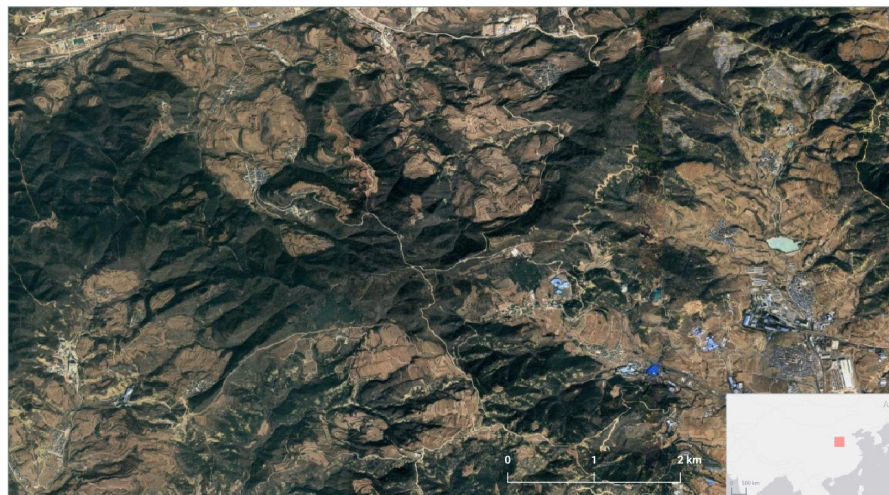
Thermal & Metallurgical

ESTIMATED PRODUCTION

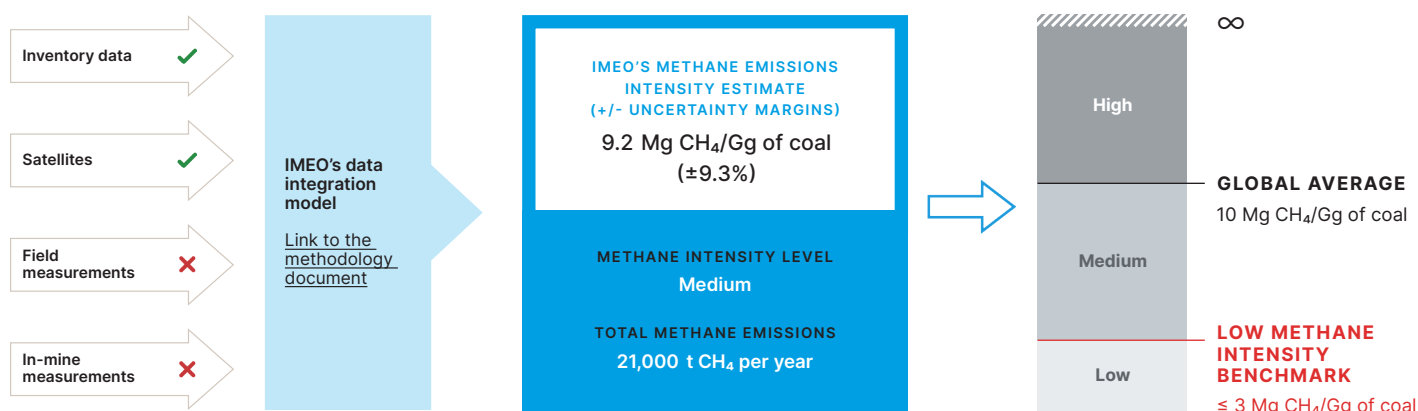
2.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



METHANE EMISSION PROFILE



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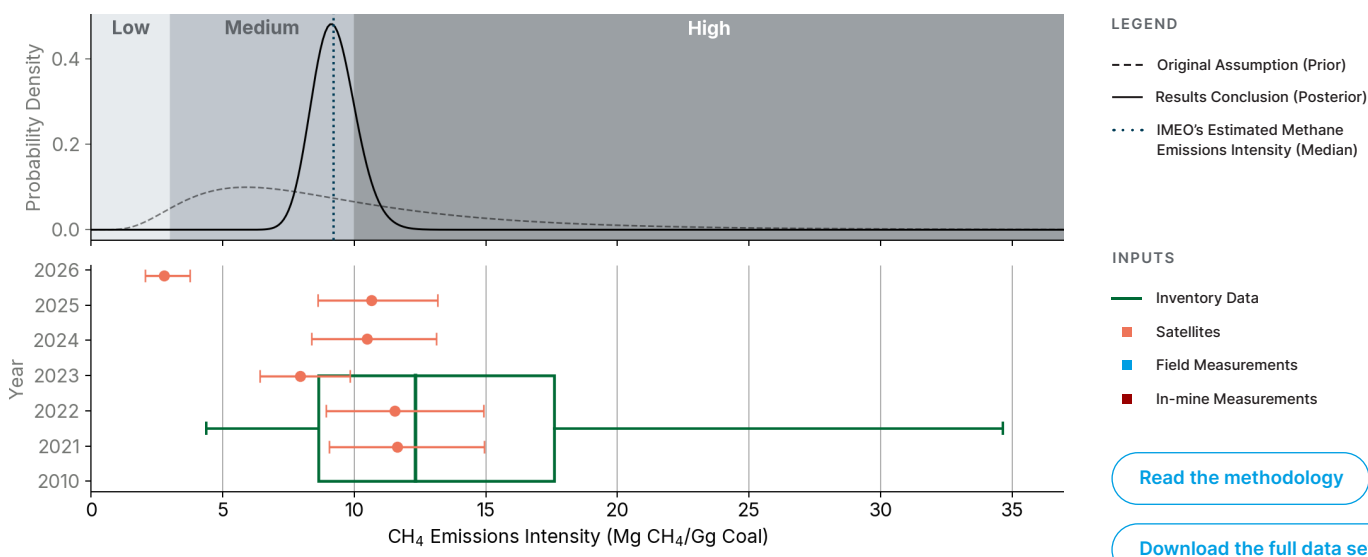
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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR WANGPO COAL MINE



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	11	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	8	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	11	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	12	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	12	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	2.9	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2010	6	160%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2010	10	268%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2010	10	281%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

TONGDE COAL MINE

LOCATION (LAT., LON.) 37.4247, 110.9038

GEM MINE ID

M2174

MINING TYPE

Underground

COAL GRADE

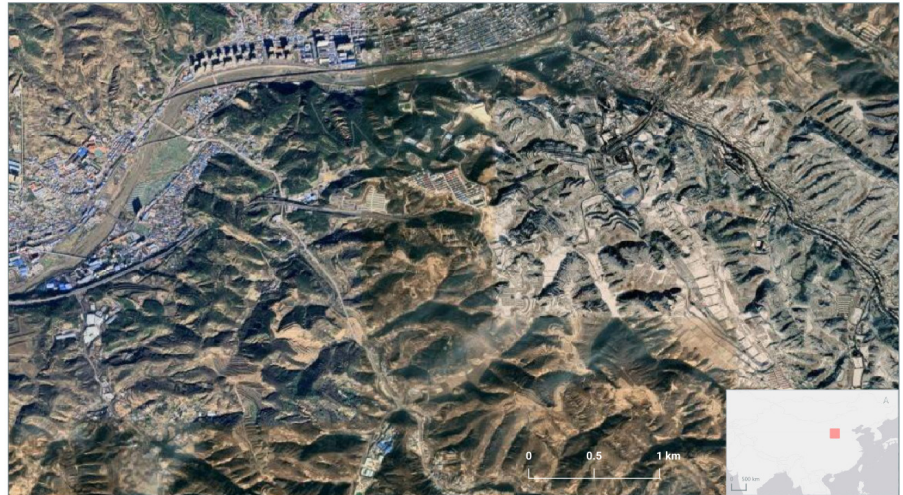
Metallurgical

ESTIMATED PRODUCTION

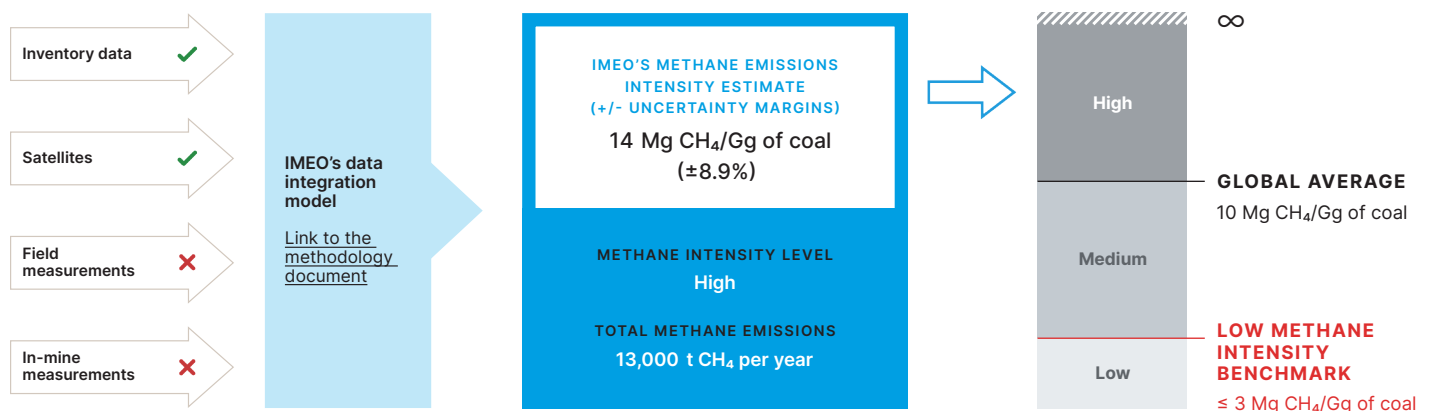
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



METHANE EMISSION PROFILE



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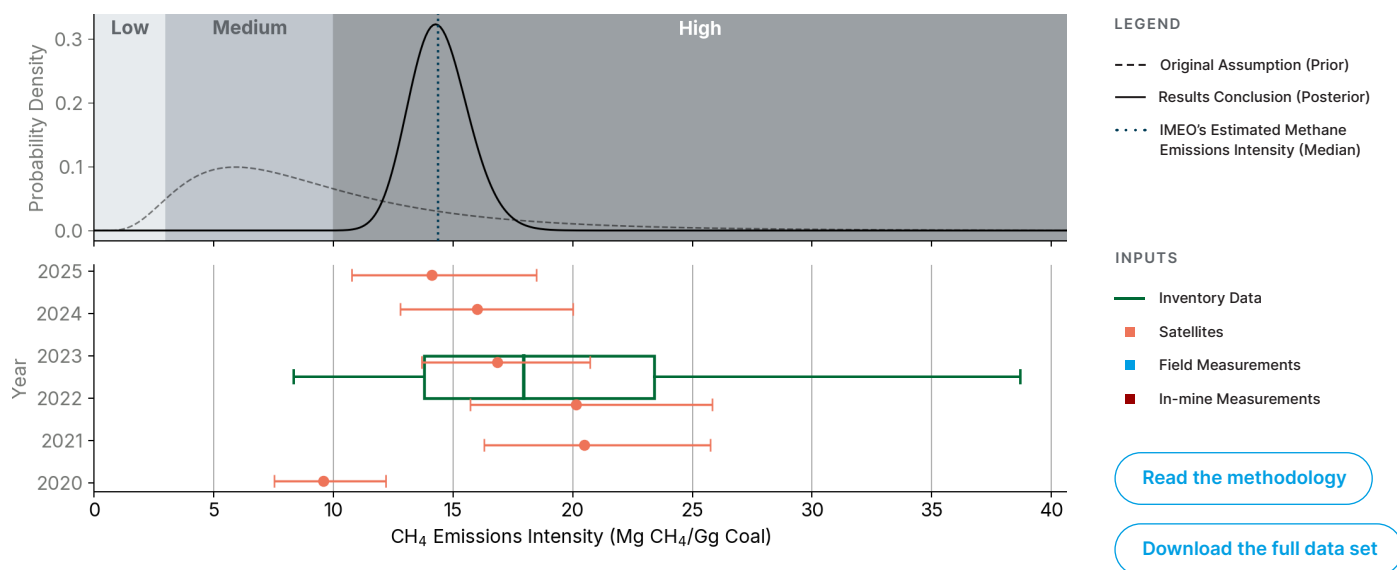
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TONGDE COAL MINE



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	2023	17	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	16	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	21	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	10	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	21	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	15	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	106%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	113%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	40	119%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	40	119%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	169%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	178%	Mg CH ₄ /Gg Coal	Tier-2-02	Zou et al., 2022	Link

GAOHE COAL MINE

LOCATION (LAT., LON.) 36.1523, 112.9908

GEM MINE ID

M0218

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

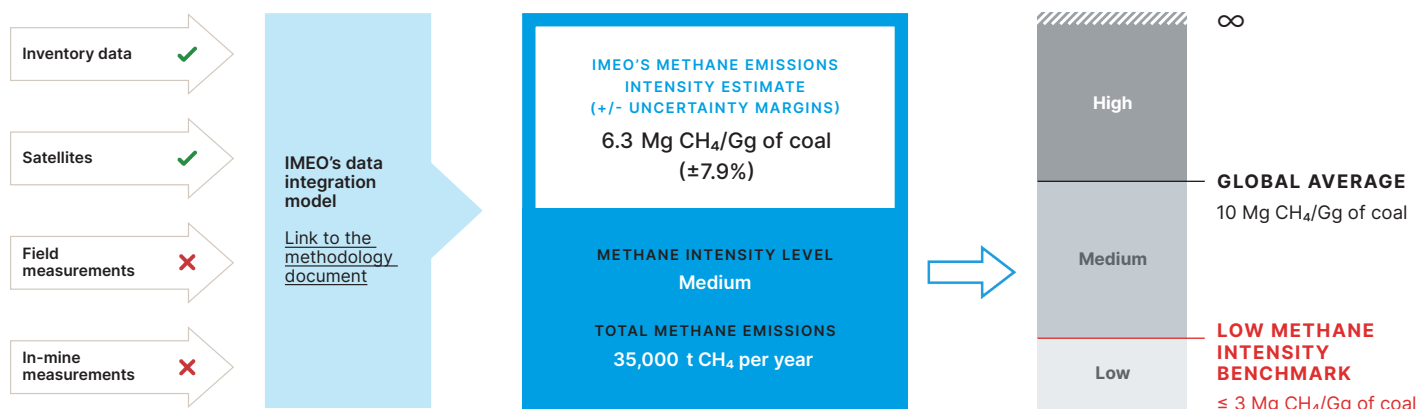
5.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

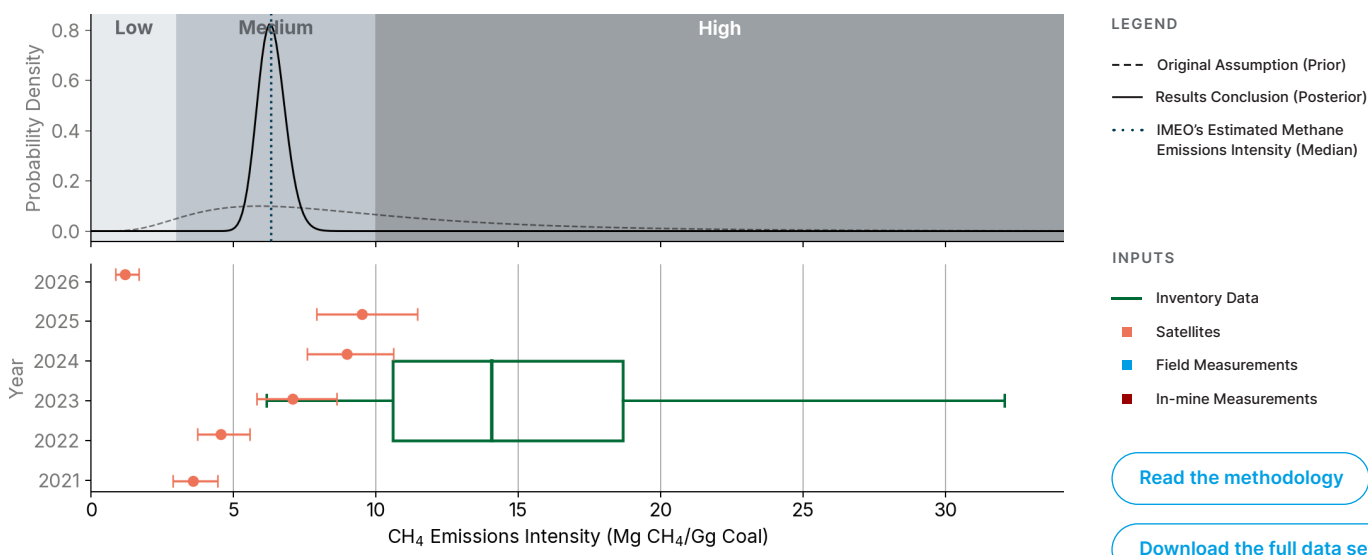
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 GAOHE COAL MINE



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	2024	9	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	10	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	7	20%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	4.7	20%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	3.7	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.3	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	108%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	118%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	129%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	144%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	181%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	199%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

HUAYE COAL MINE

LOCATION (LAT., LON.) 37.6516, 110.8871

GEM MINE ID

M1967

MINING TYPE

Underground

COAL GRADE

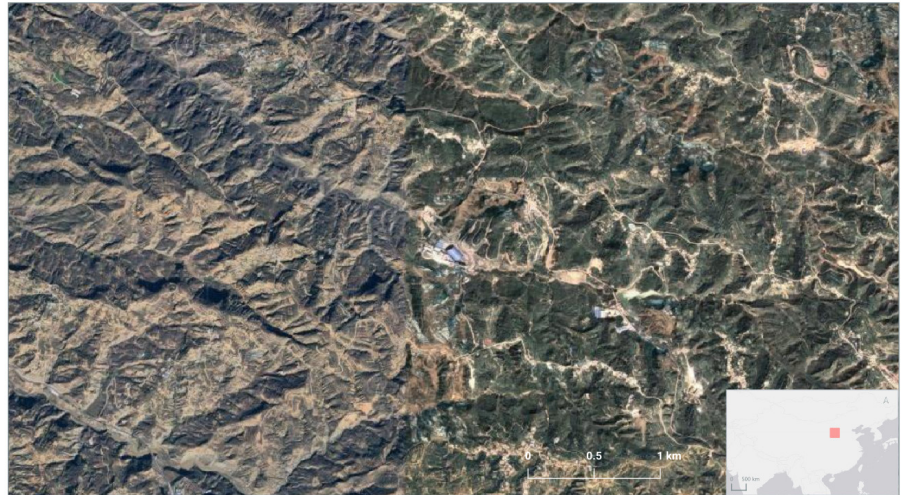
Metallurgical

ESTIMATED PRODUCTION

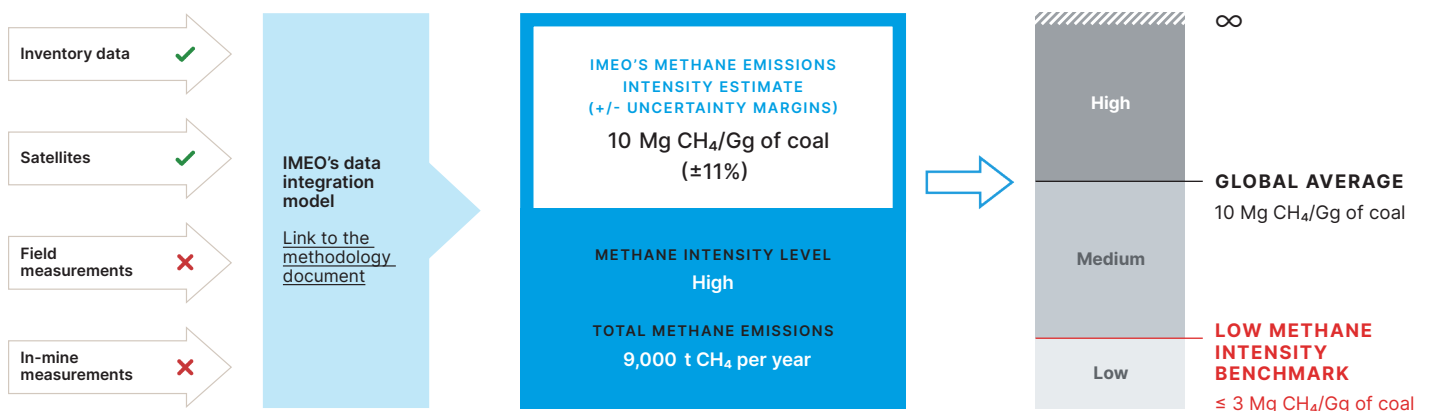
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

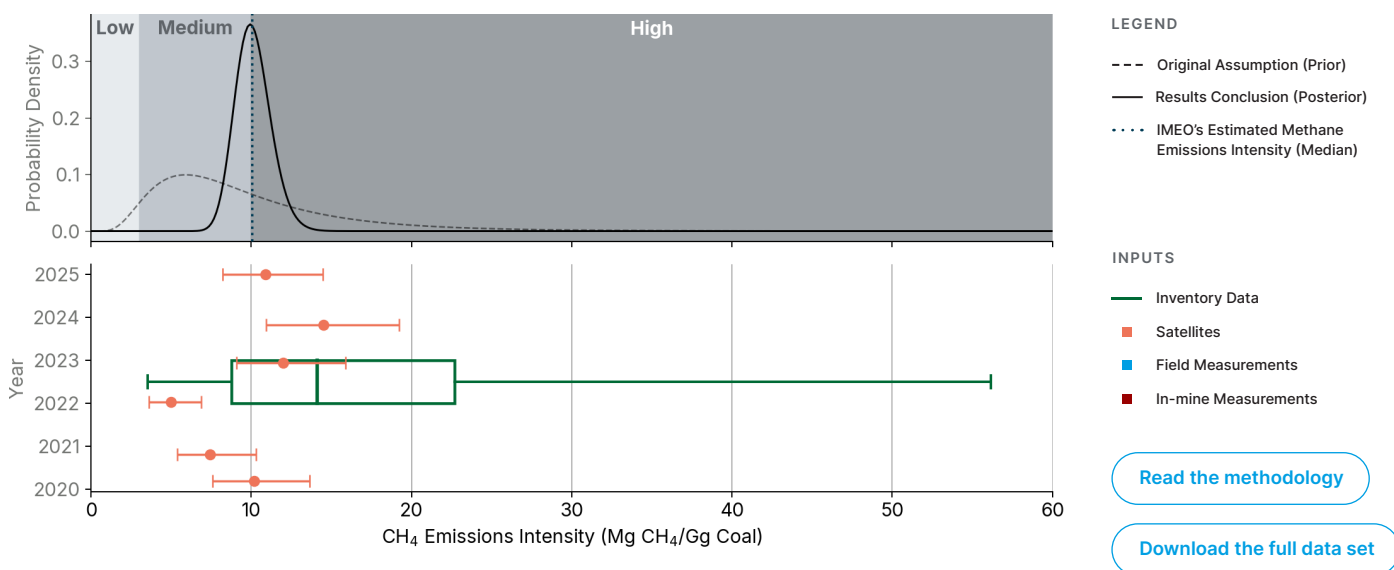
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 HUAYE COAL MINE



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	2023	12	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	11	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	15	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	11	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	5	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	8	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	110%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	222%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	0	398%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	413%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

YUWU COAL MINE

LOCATION (LAT., LON.) 36.3642, 112.8584

GEM MINE ID

M0421

MINING TYPE

Underground

COAL GRADE

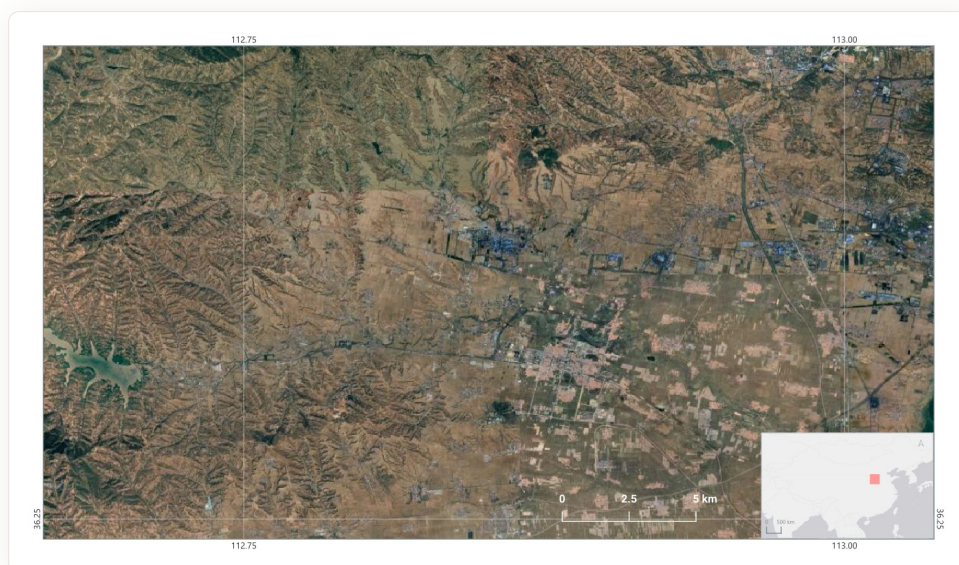
Thermal & Metallurgical

ESTIMATED PRODUCTION

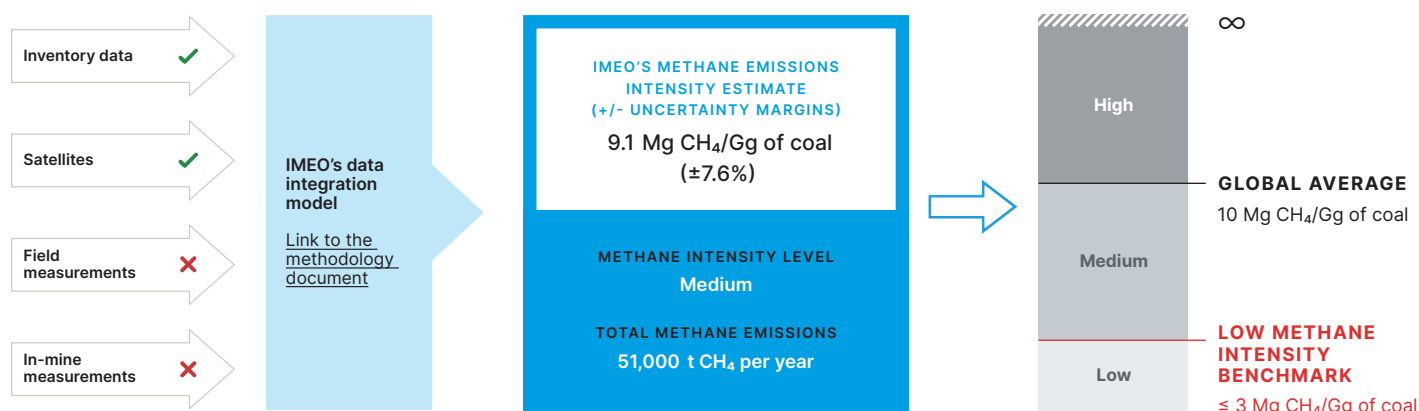
5.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

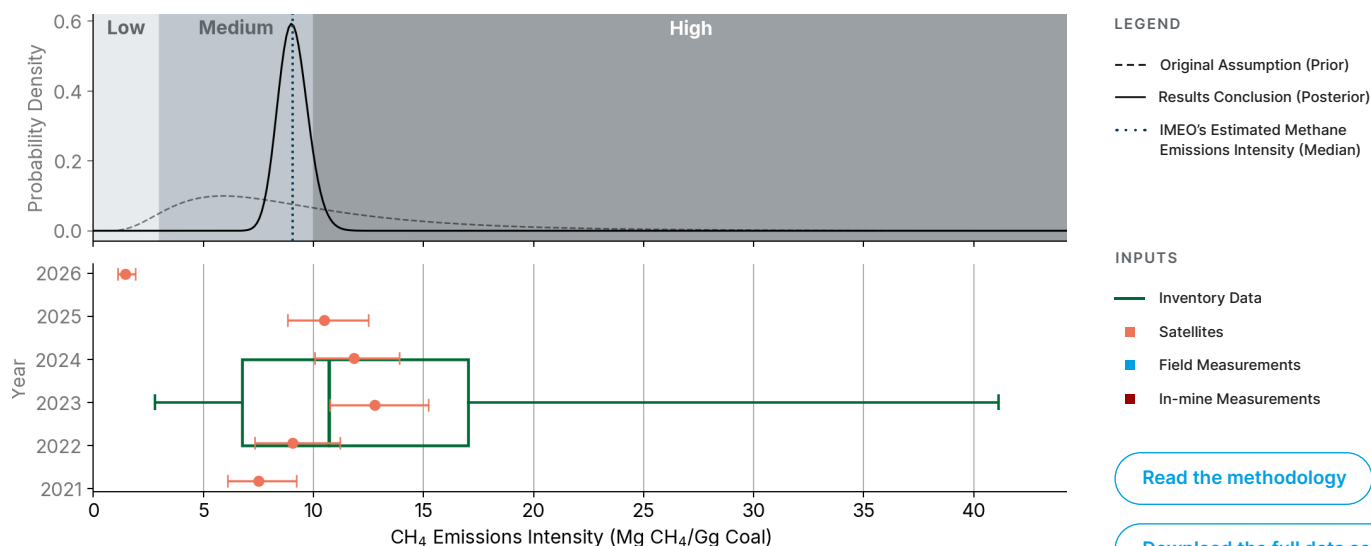
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 YUWU COAL MINE



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	2024	12	16%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	13	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	11	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	8	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	9	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.5	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	118%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	191%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	234%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	337%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	348%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	354%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

TASHAN COAL MINE

LOCATION (LAT., LON.) 39.9242, 113.0703

GEM MINE ID

M0358

MINING TYPE

Underground

COAL GRADE

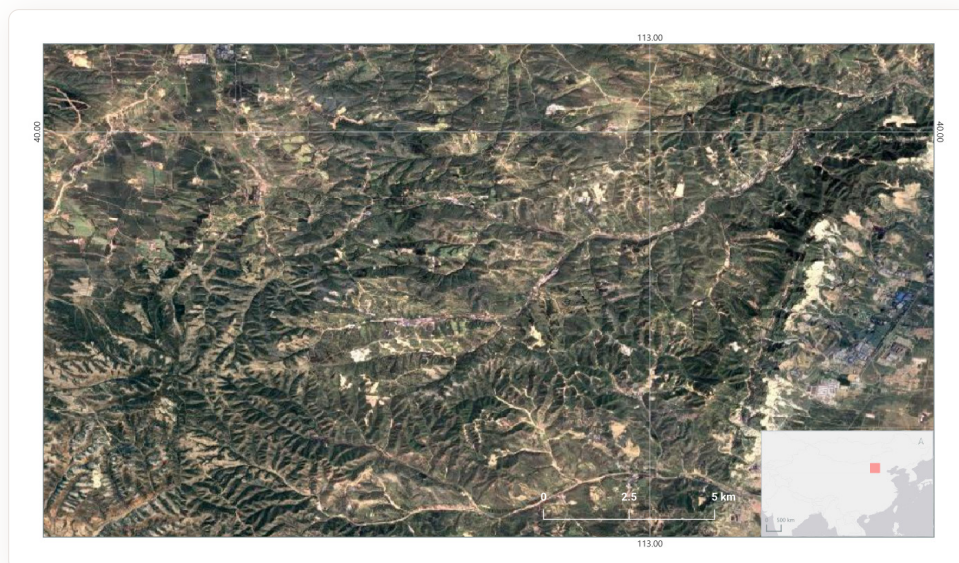
Metallurgical

ESTIMATED PRODUCTION

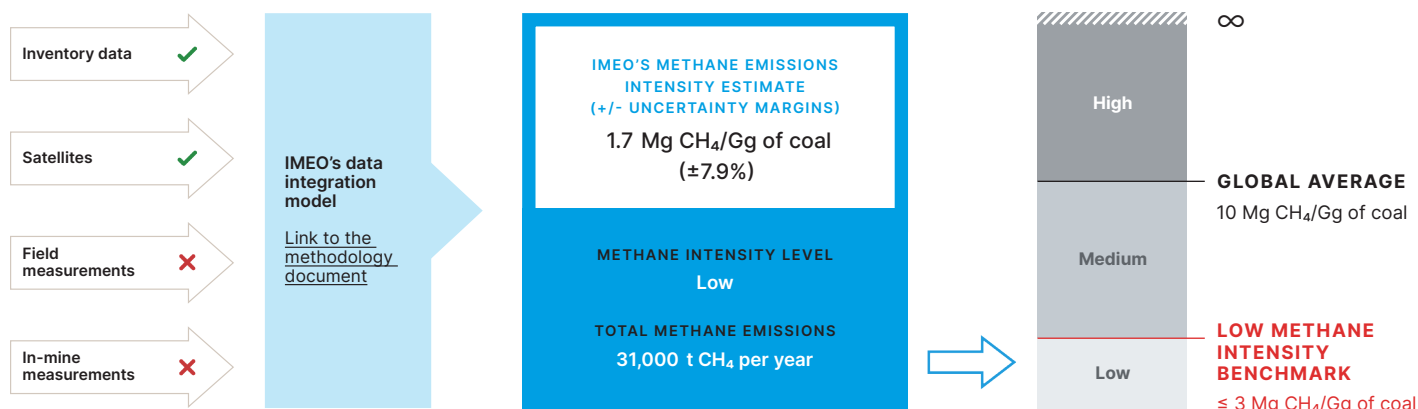
18.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

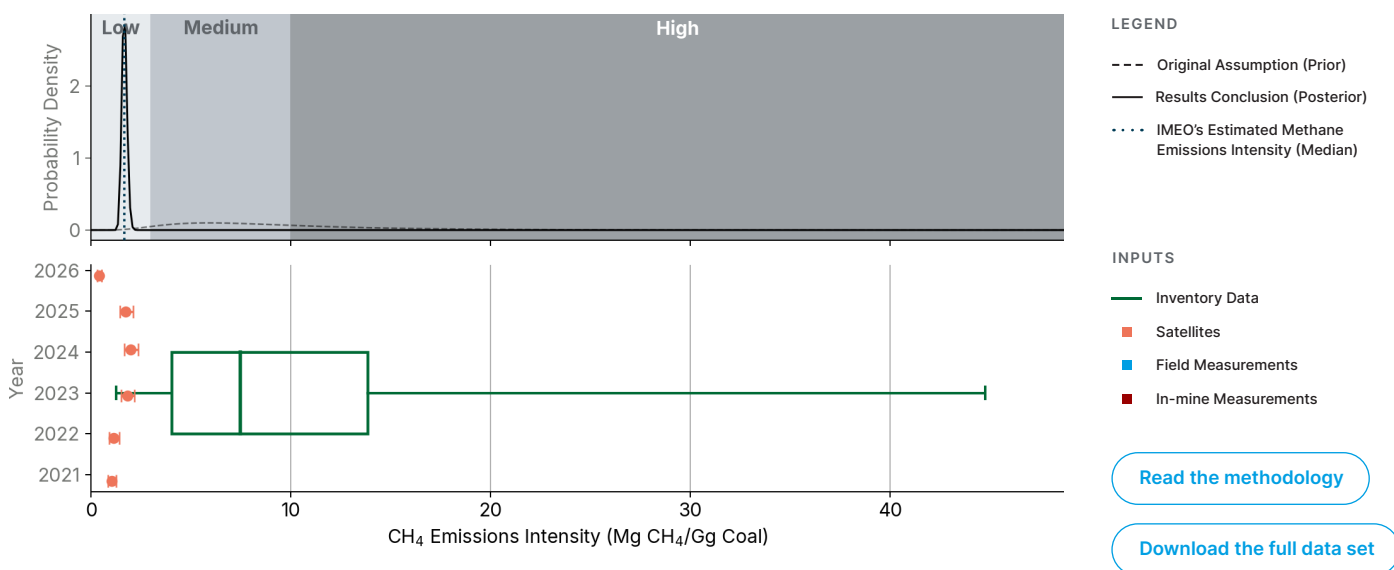
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TASHAN COAL MINE



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	2024	2	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	1.8	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.8	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	1	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	1.2	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.4	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	17	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	177%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	313%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	332%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	1	469%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	1	748%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

SHUANGLIU COAL MINE

LOCATION (LAT., LON.) 37.5386, 110.8443

GEM MINE ID

M1199

MINING TYPE

Underground

COAL GRADE

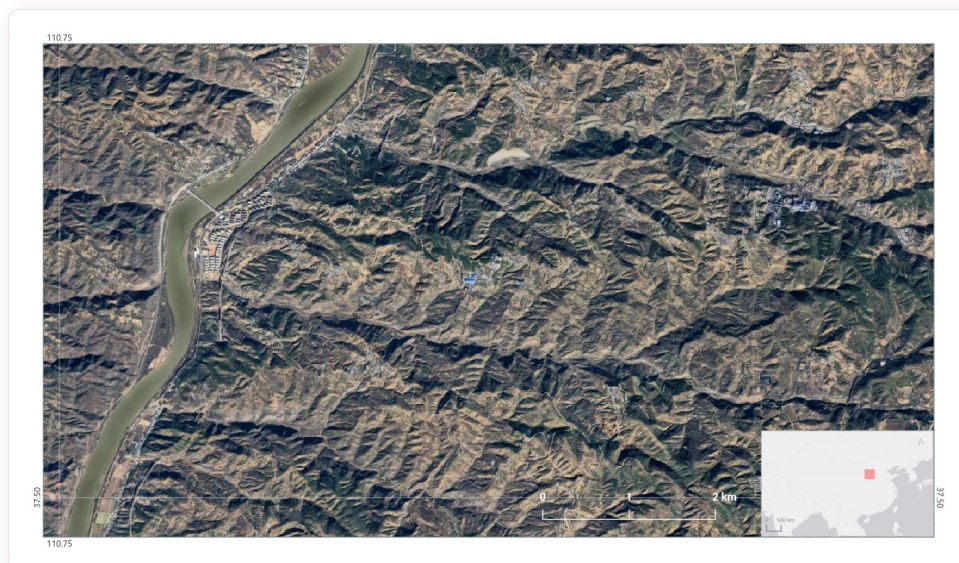
Metallurgical

ESTIMATED PRODUCTION

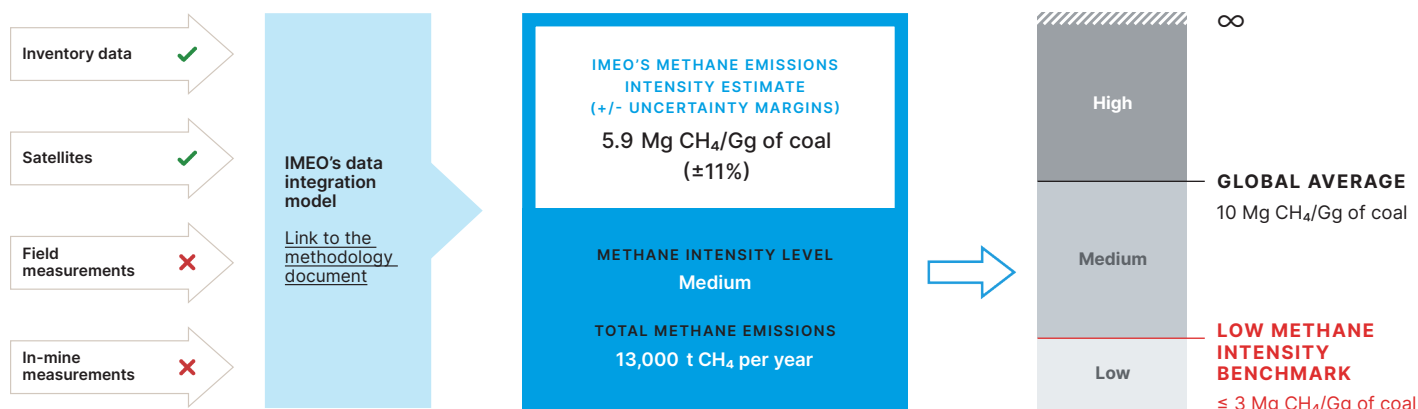
2.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

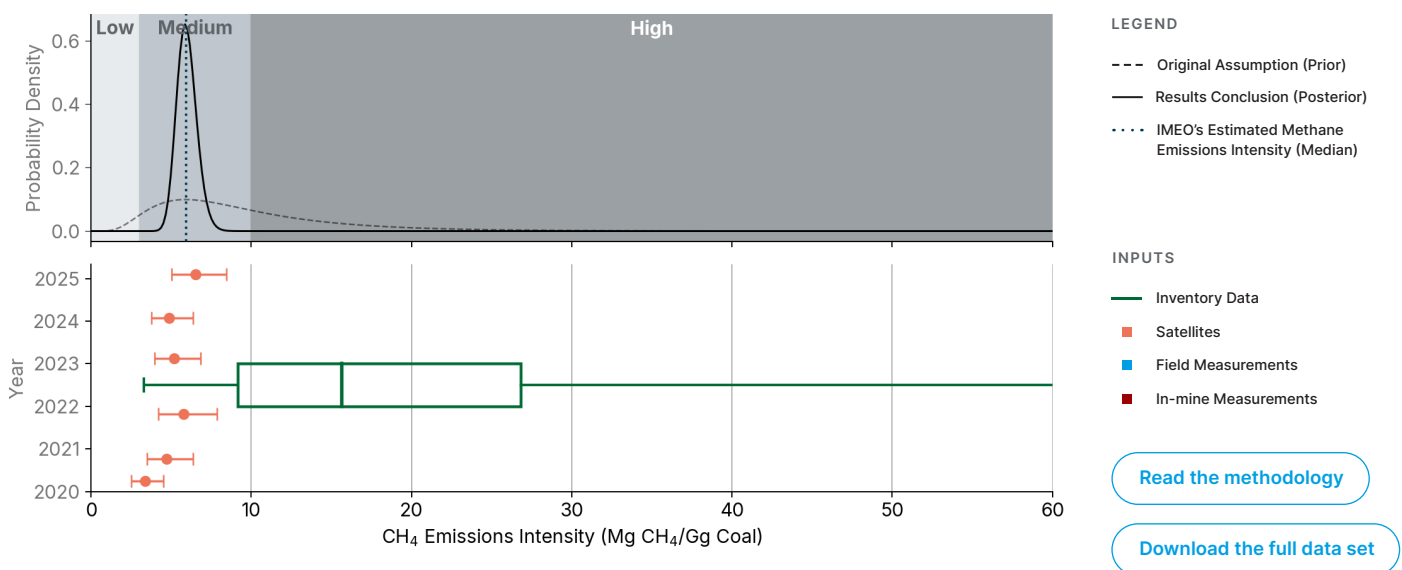
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHUANGLIU COAL MINE



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	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	5	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	5	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	4	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	5	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	6	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	40	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	40	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	224%	Mg CH ₄ /Gg Coal	Tier-2-02	Zou et al., 2022	Link
Inventory	2022	30	248%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	248%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	272%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	0	444%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	487%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

HUOERXINHE COAL MINE

LOCATION (LAT., LON.) 36.1029, 112.9244

GEM MINE ID

M1140

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

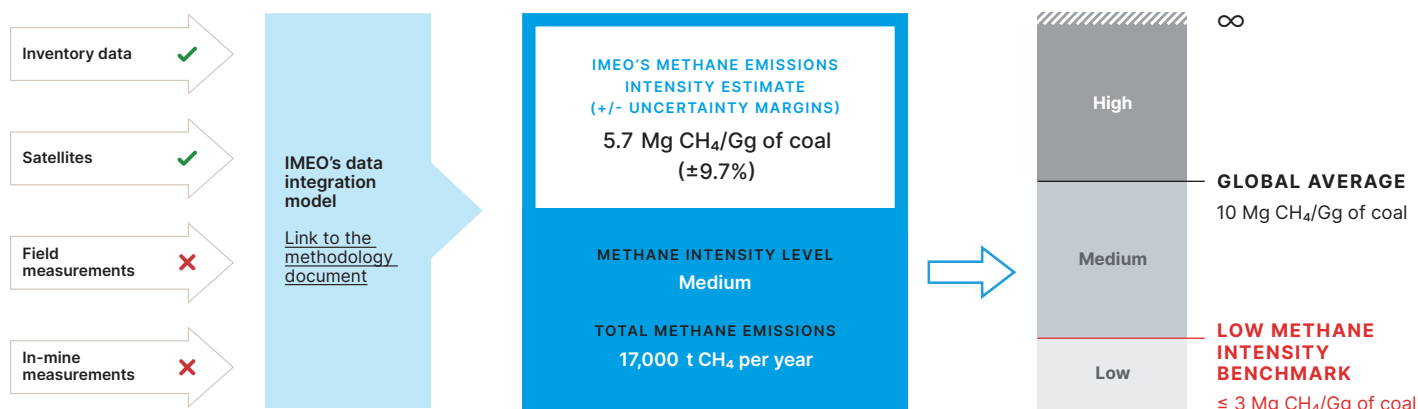
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

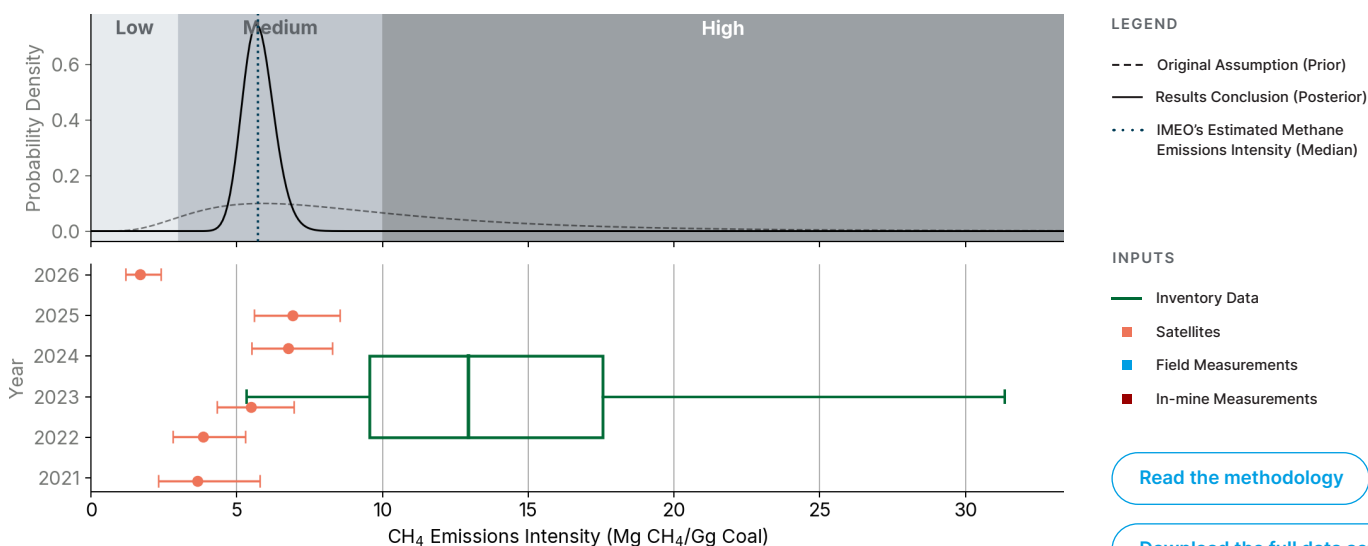
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR HUOERXINHE COAL MINE



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	2024	7	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	7	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	6	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	4	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.8	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2021	4	49%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	118%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	124%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	141%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	144%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	174%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	190%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	199%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

SANYUAN COAL MINE

LOCATION (LAT., LON.) 36.1762, 113.0447

GEM MINE ID

M2103

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

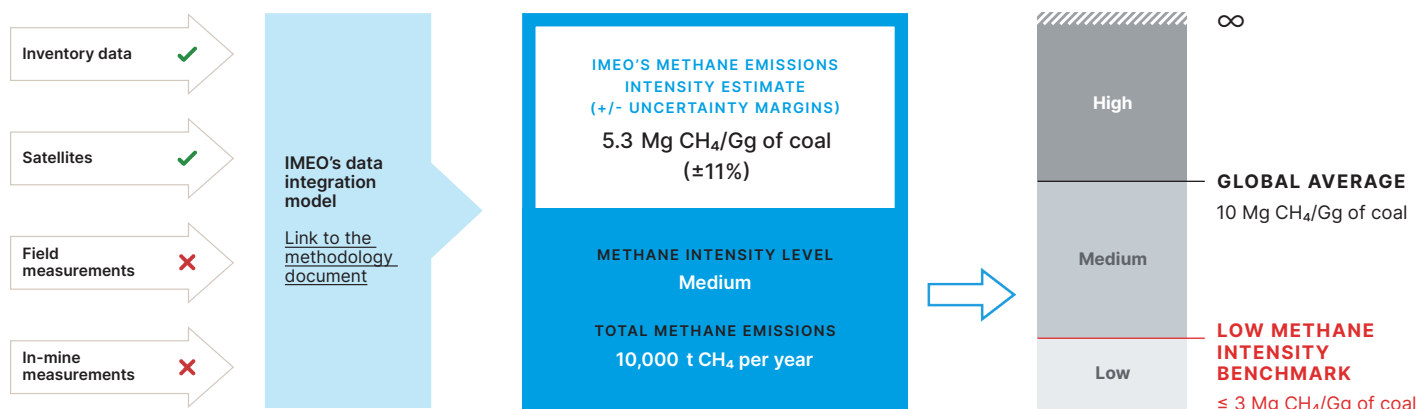
1.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

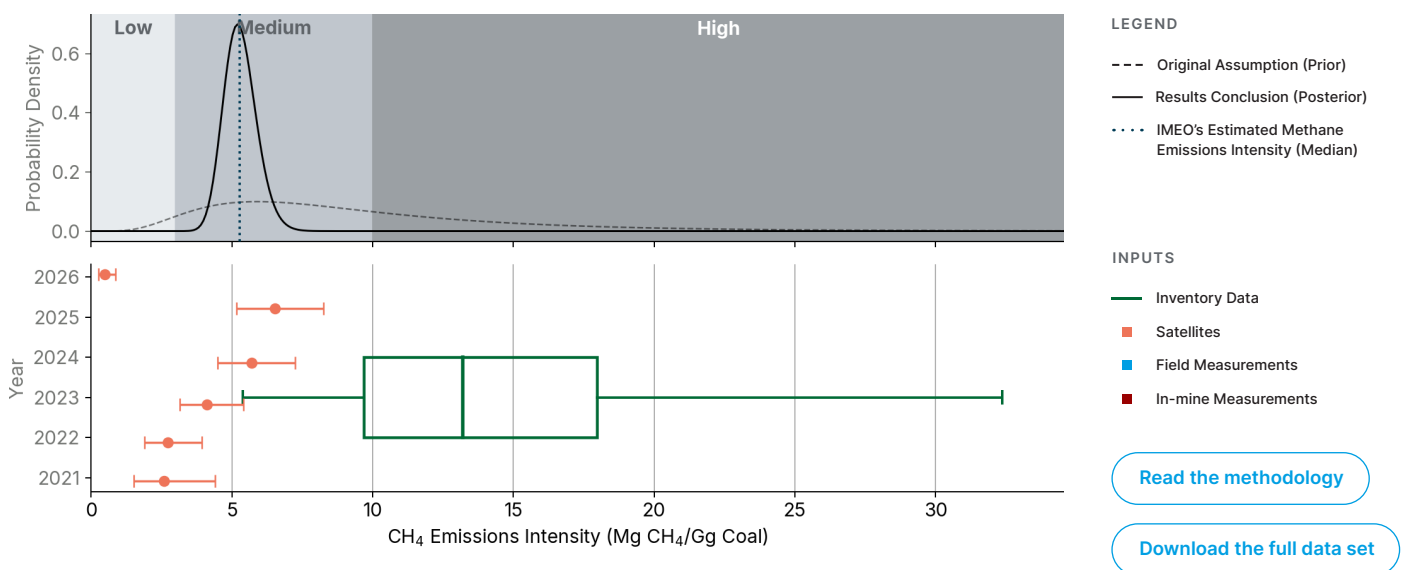
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SANYUAN COAL MINE



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	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	6	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	4	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	3	38%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2021	3	57%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.6	65%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	107%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	135%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	180%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	198%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	227%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

GUBEI COAL MINE

LOCATION (LAT., LON.) 32.8216, 116.5436

GEM MINE ID

M1127

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

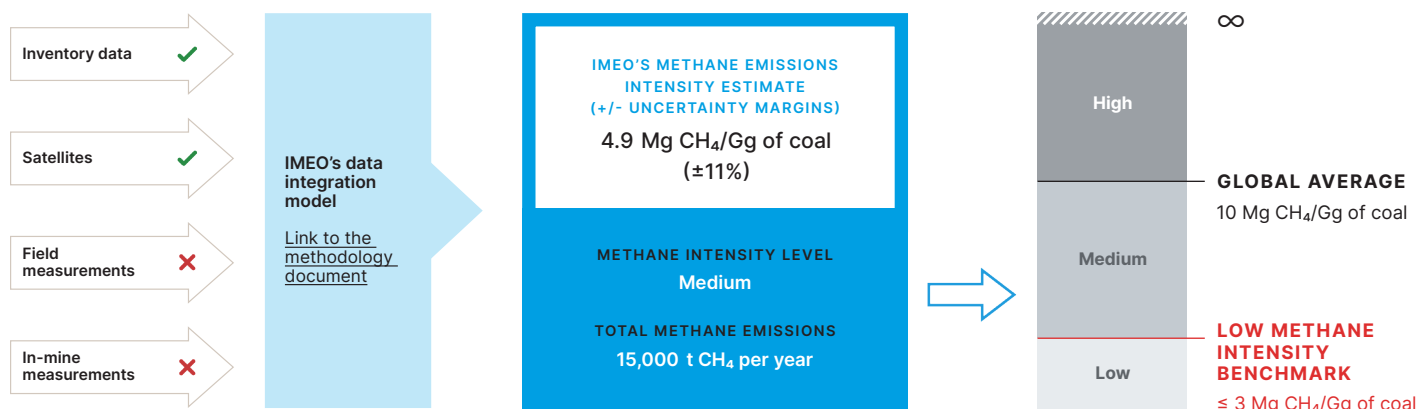
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

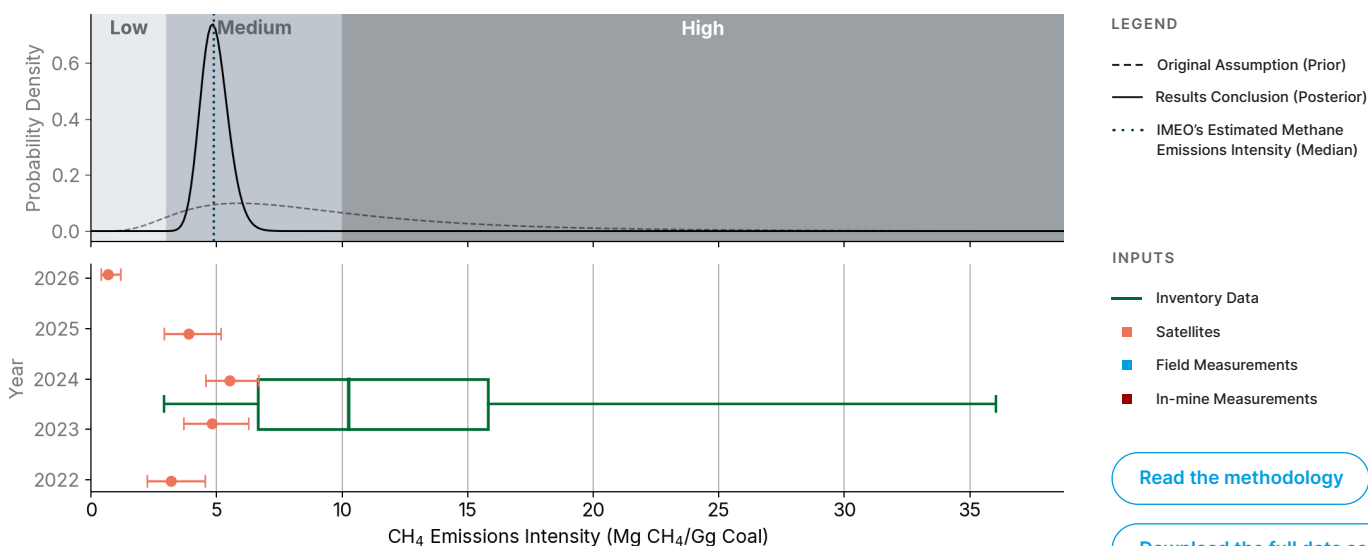
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 GUBEI COAL MINE



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	2024	6	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	5	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	3	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2026	0.8	59%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	70%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	82%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	105%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	317%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	352%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

ZHAOZHUANG COAL MINE

LOCATION (LAT., LON.) 35.9949, 112.8873

GEM MINE ID

M0430

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

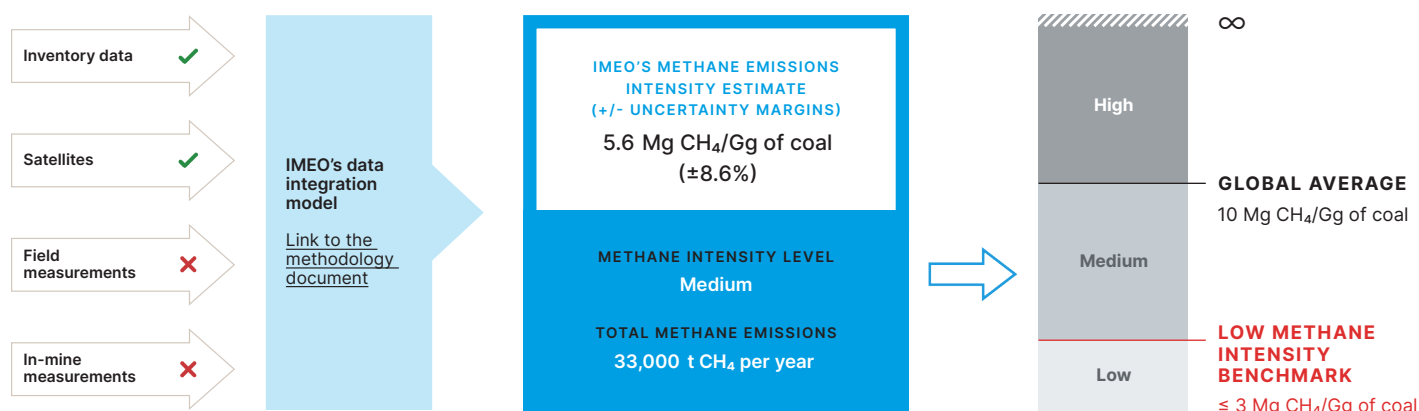
6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

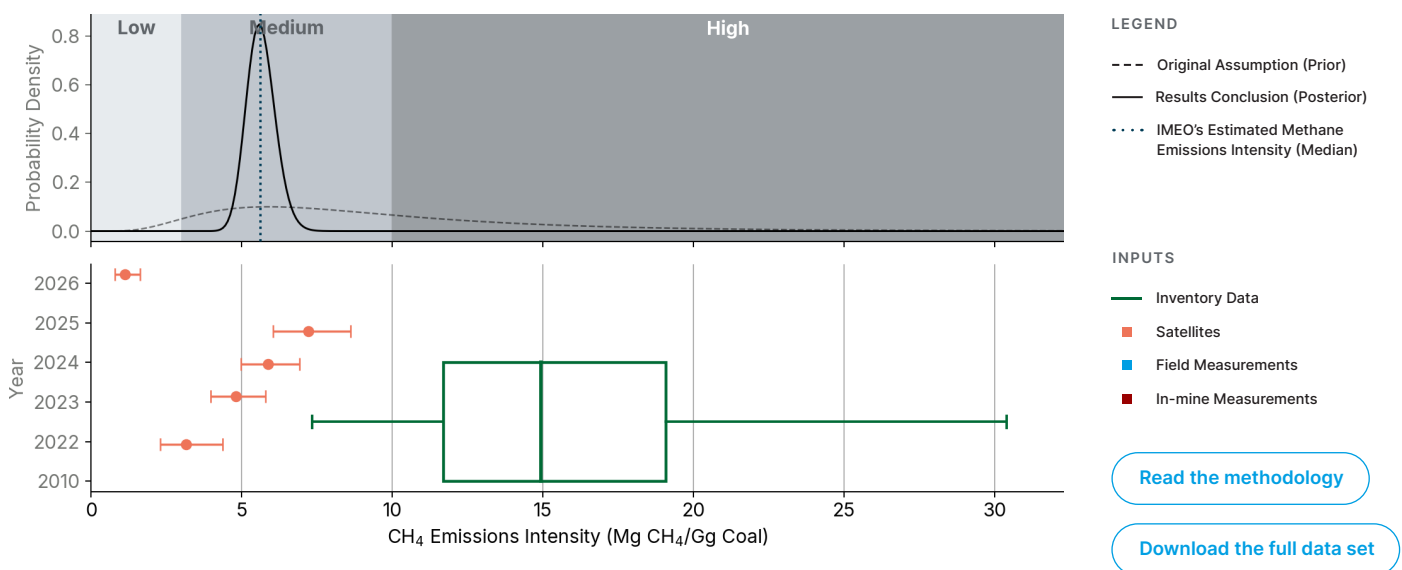
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ZHAOZHUANG COAL MINE



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	2024	5.9	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	7	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	4.9	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	3	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.2	38%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	99%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2010	6	107%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2022	20	111%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	155%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	163%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	165%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

ZHANGJI COAL MINE

LOCATION (LAT., LON.) 32.7463, 116.5151

GEM MINE ID

M0426

MINING TYPE

Underground

COAL GRADE

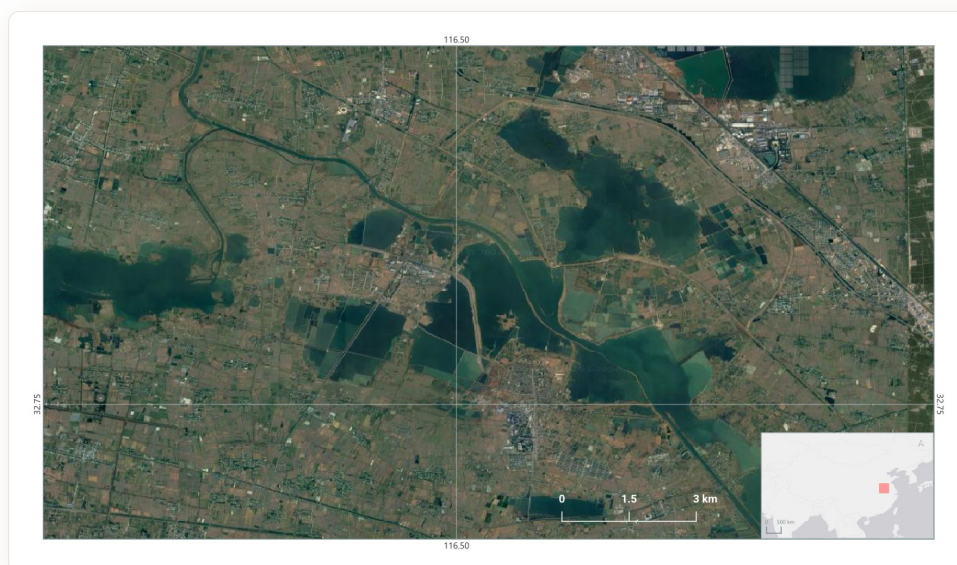
Thermal & Metallurgical

ESTIMATED PRODUCTION

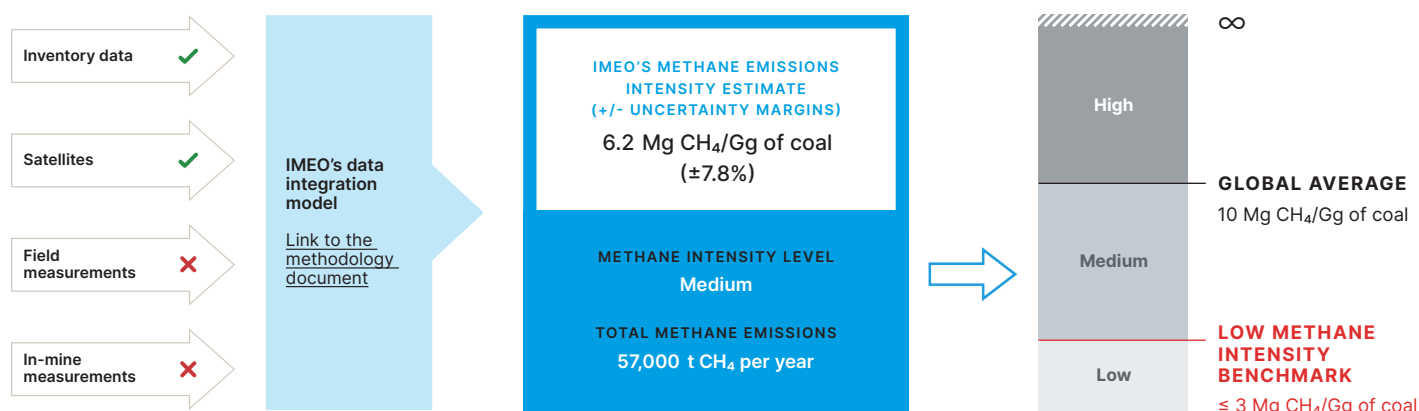
9.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

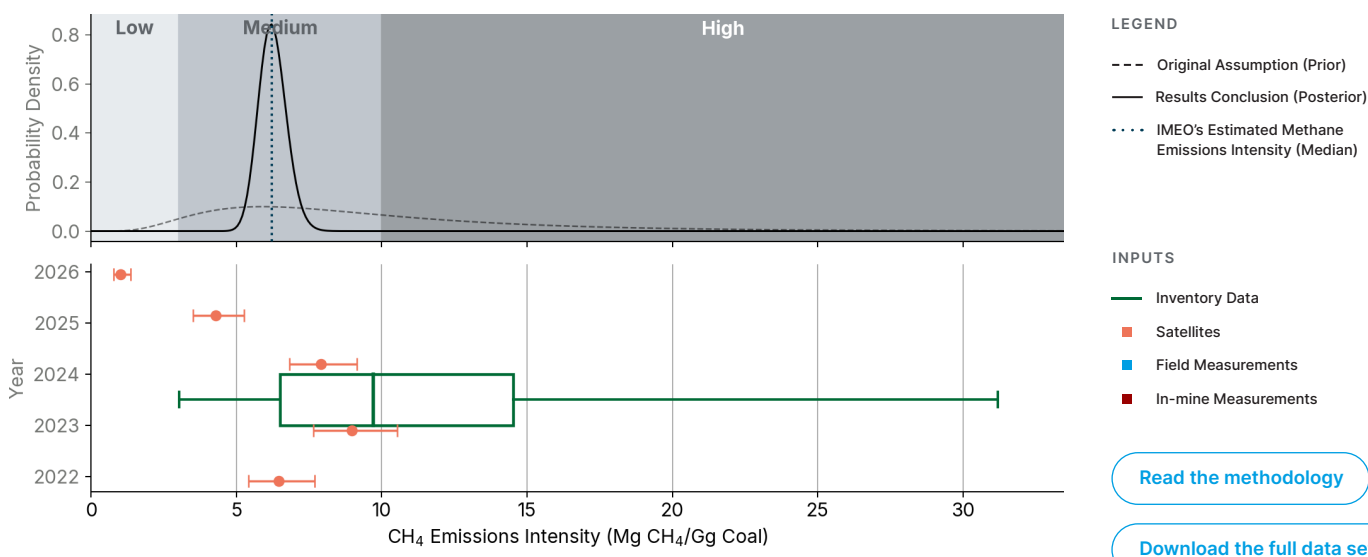
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ZHANGJI COAL MINE



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	2024	8	15%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	9	16%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	7	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4.4	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	1.1	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	91%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	201%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	281%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	313%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	318%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

ZHAOZHUANG COAL MINE NO. 2 WELL

LOCATION (LAT., LON.) 36.0125, 112.9302

GEM MINE ID

M2299

MINING TYPE

Underground

COAL GRADE

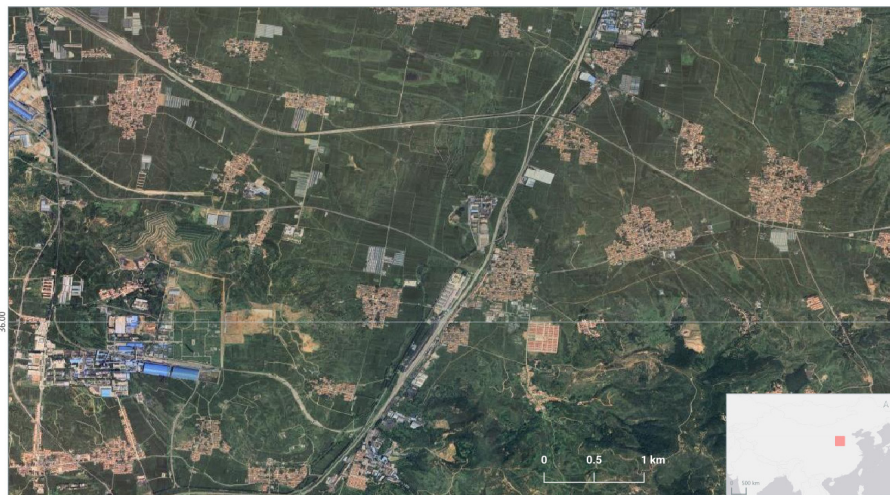
Thermal & Metallurgical

ESTIMATED PRODUCTION

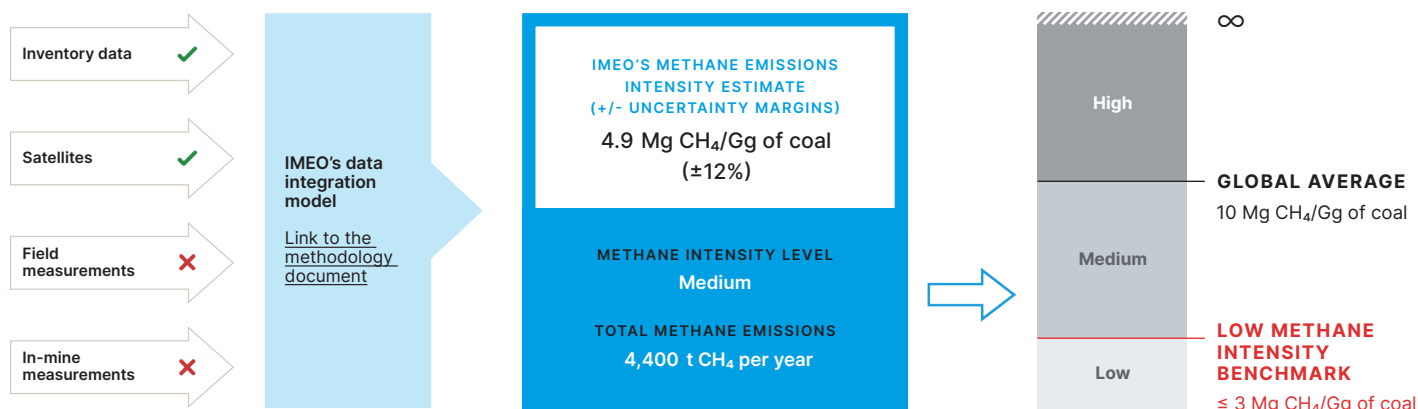
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

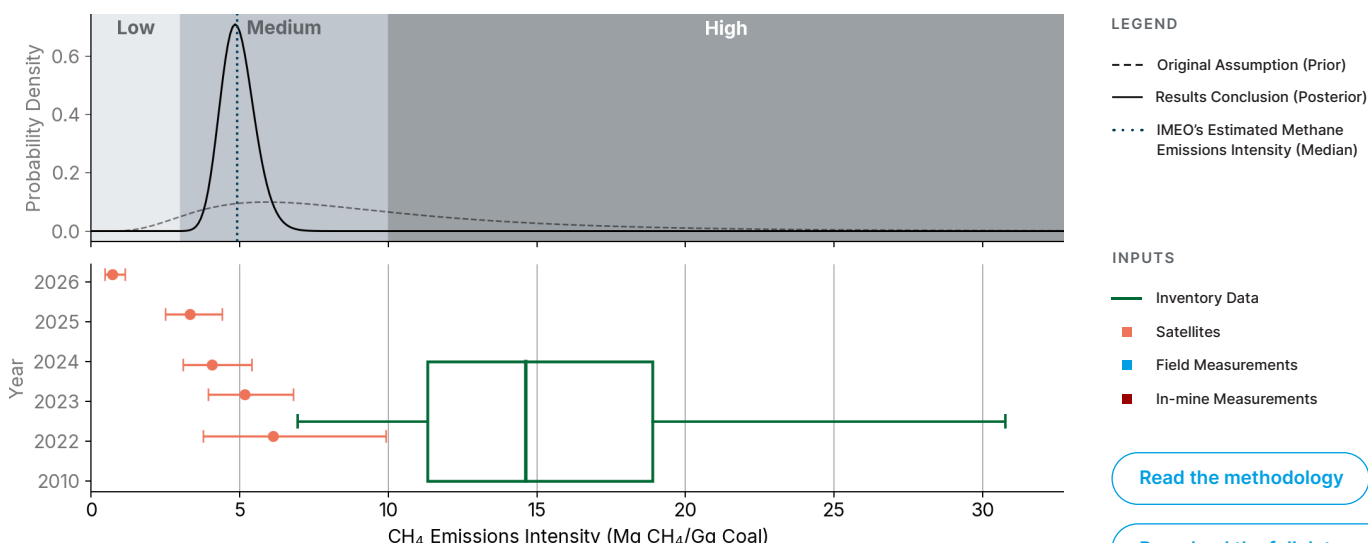
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ZHAOZHUANG COAL MINE NO. 2 WELL



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	2023	5	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	4	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	3.5	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2026	0.8	48%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	7	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	100%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	116%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	130%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	130%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2010	6	136%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2023	20	165%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	174%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

LU'AN LICUN COAL MINE

LOCATION (LAT., LON.) 36.0888, 112.8628

GEM MINE ID

M1170

MINING TYPE

Underground

COAL GRADE

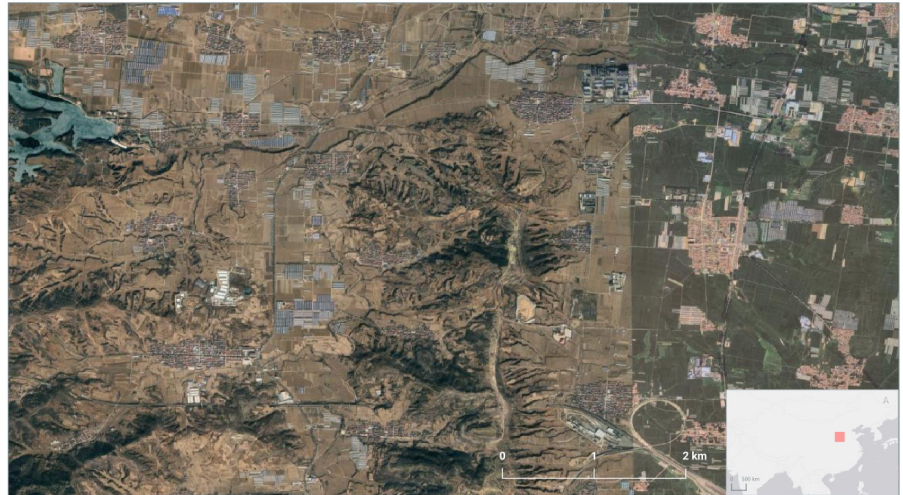
Thermal & Metallurgical

ESTIMATED PRODUCTION

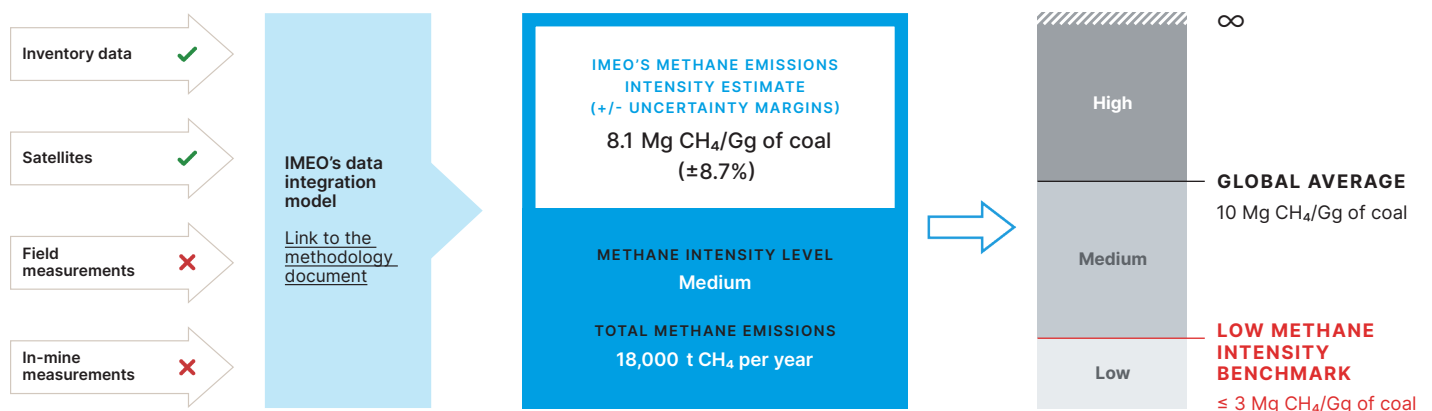
2.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

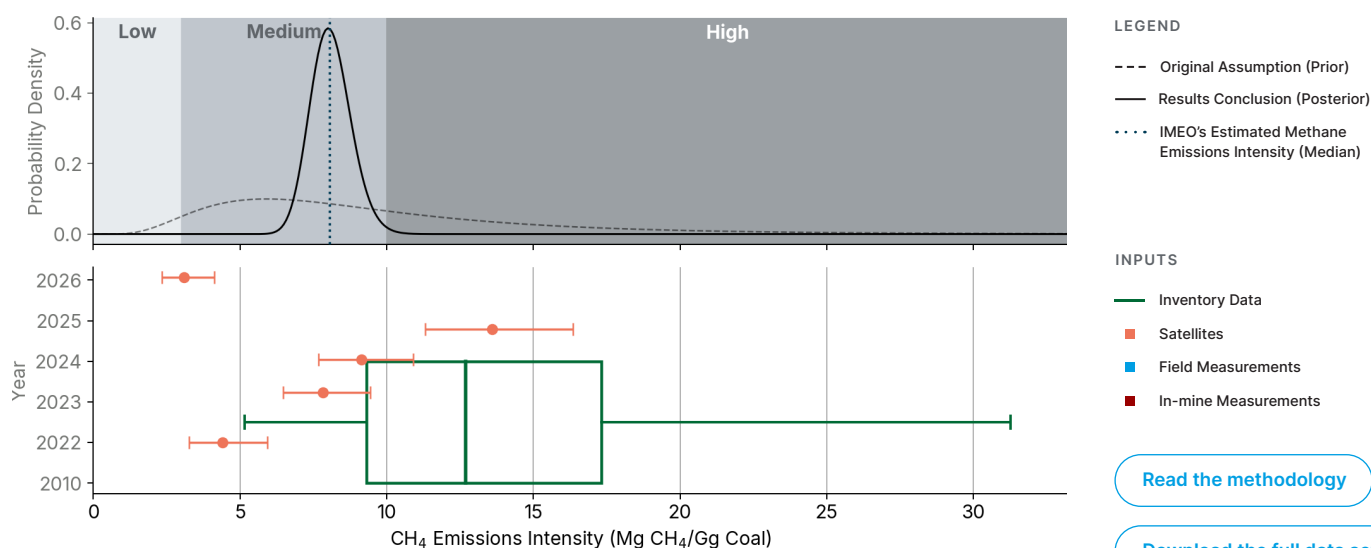
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 LU'AN LICUN COAL MINE



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	2024	9	18%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	14	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	8	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	3.2	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	5	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	119%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	166%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	166%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2010	10	204%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	213%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

SIMA COAL MINE

LOCATION (LAT., LON.)

36.102, 113.0503

GEM MINE ID

M1203

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

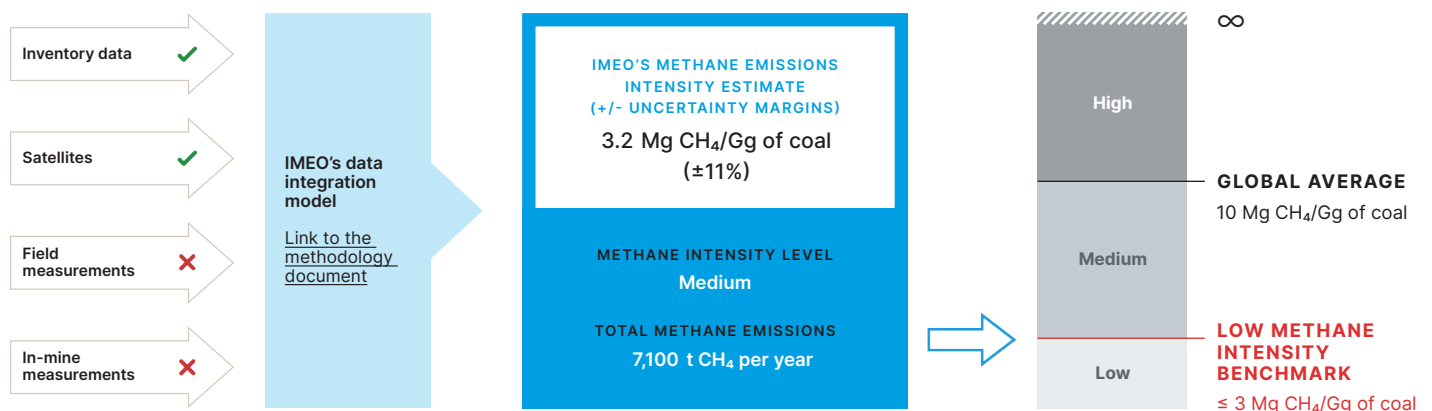
2.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

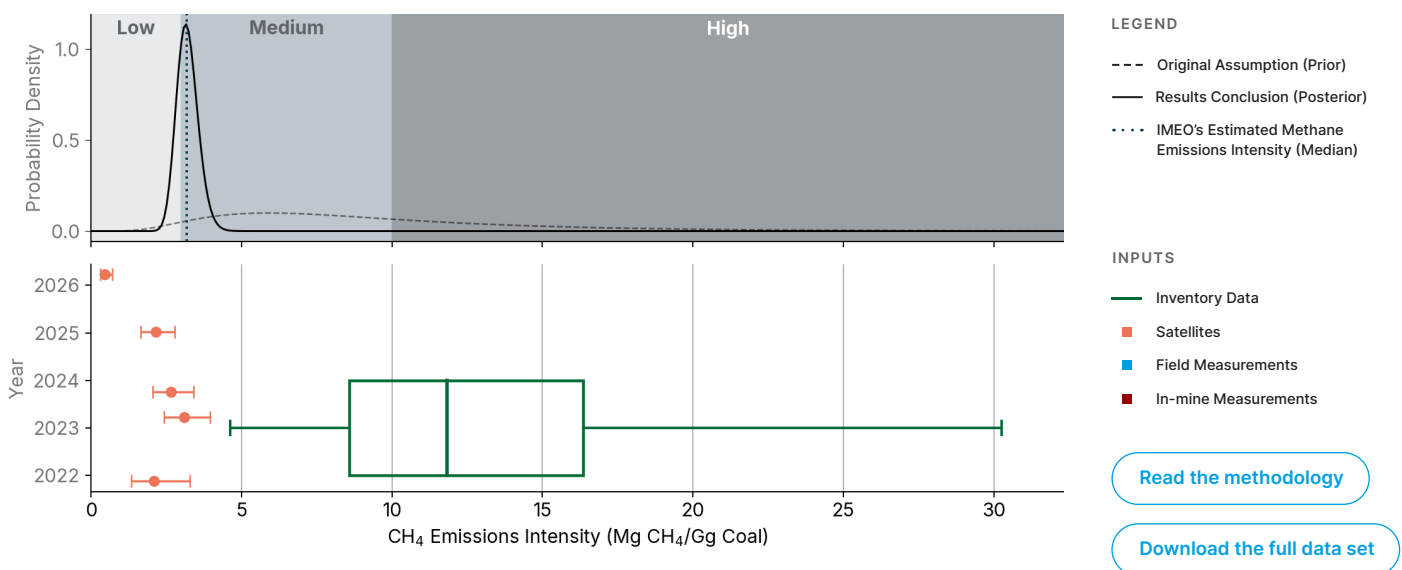
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SIMA COAL MINE



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	2023	3.2	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2.7	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	2.2	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2026	0.5	43%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	2	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	129%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	135%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	191%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	217%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	3	225%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	228%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

SHANXI LIULIN XINFEI HECHANG COAL MINE

LOCATION (LAT., LON.) 37.4627, 110.8864

GEM MINE ID

M4817

MINING TYPE

Underground

COAL GRADE

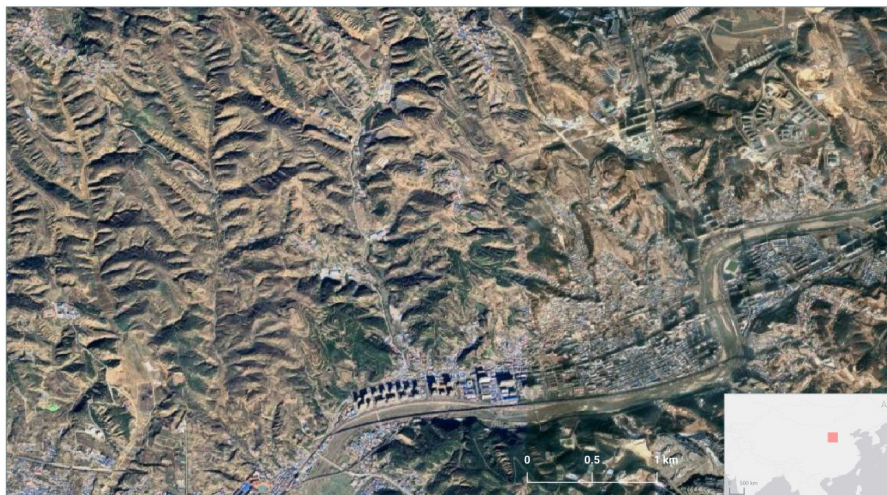
Metallurgical

ESTIMATED PRODUCTION

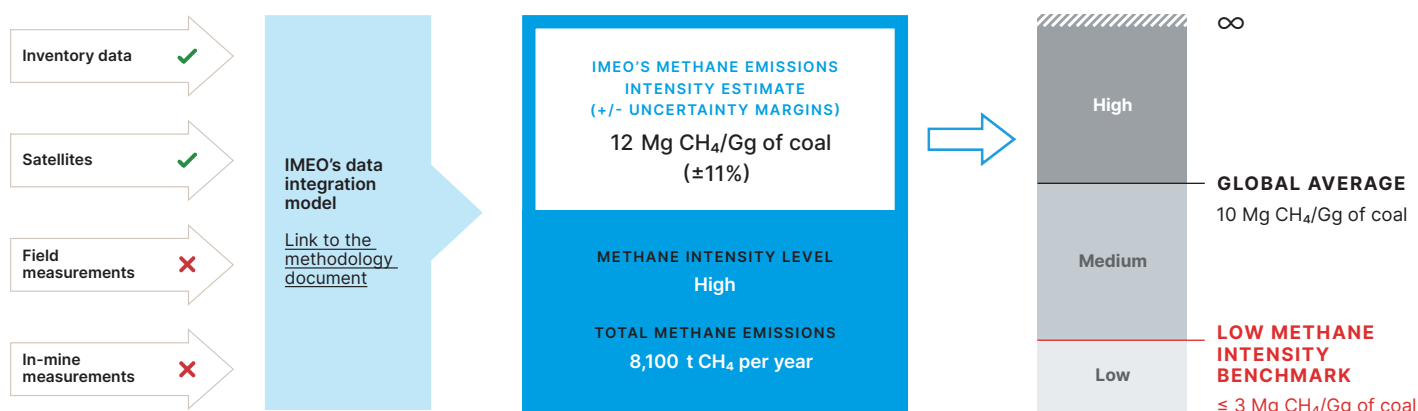
0.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

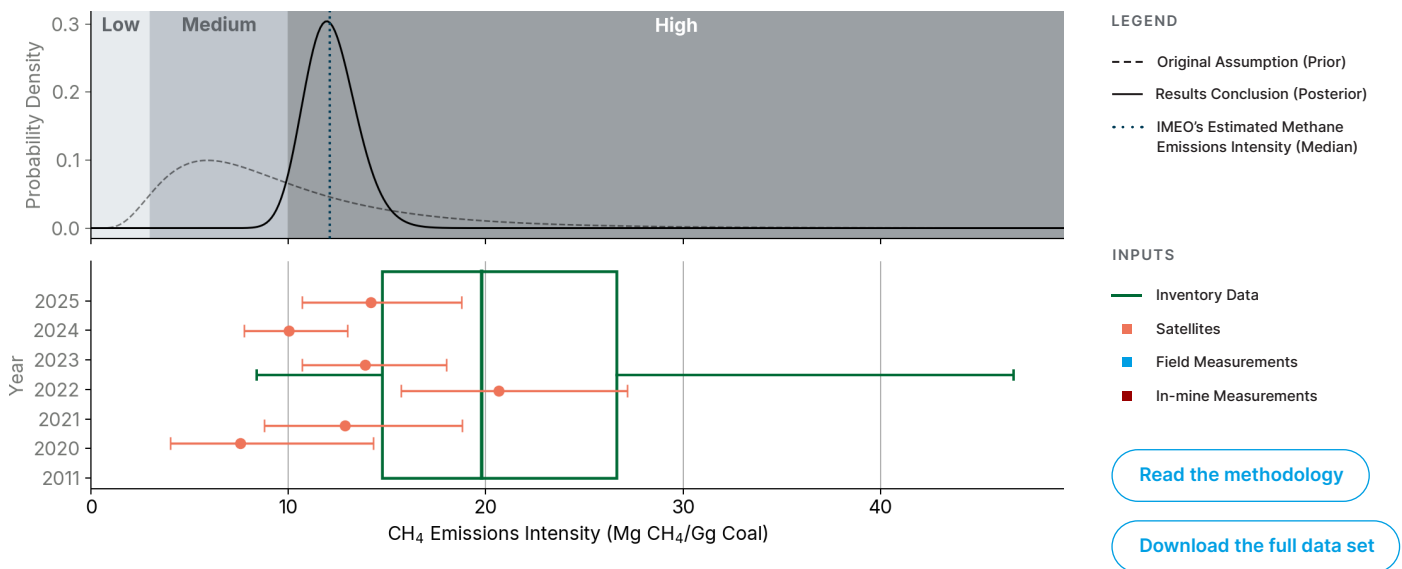
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHANXI LIULIN XINFEI HECHANG COAL MINE



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	2024	10	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	14	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	21	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	15	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	14	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	9	71%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2011	20	72%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	40	111%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	40	111%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2011	20	113%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	50	144%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	145%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2025	10	145%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	177%	Mg CH ₄ /Gg Coal	Tier-2-02	Zou et al., 2022	Link
Inventory	2022	20	187%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

LU'AN WANGZHUANG COAL MINE

LOCATION (LAT., LON.) 36.3739, 113.0199

GEM MINE ID

M0283

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

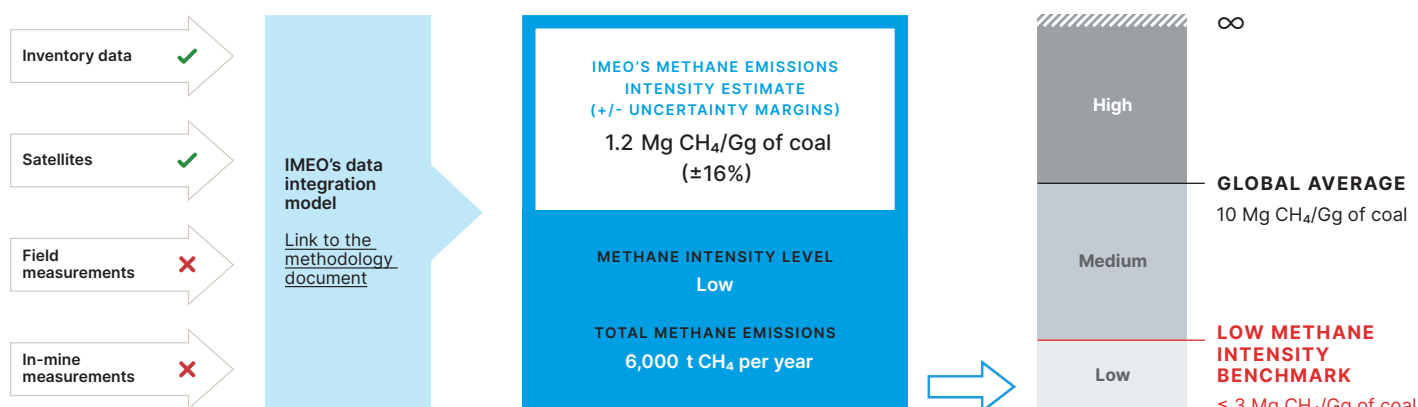
5.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

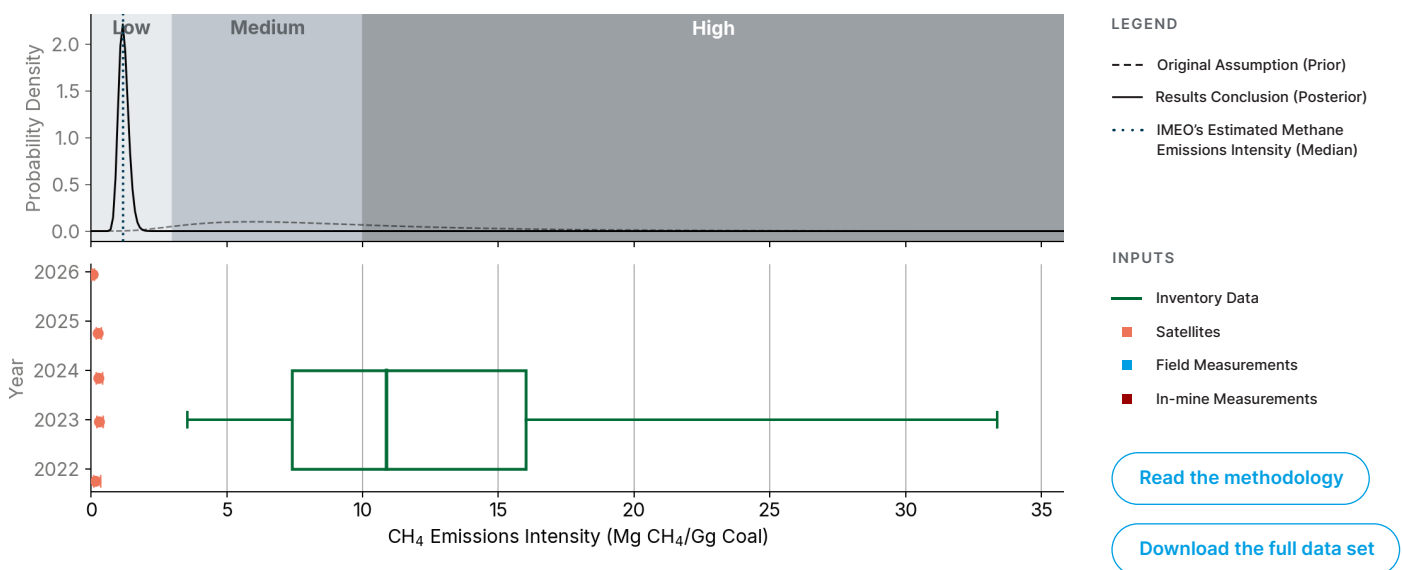
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 LU'AN WANGZHUANG COAL MINE



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	2023	0.3	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2024	0.3	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.3	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2026	0.07	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	0.2	84%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	118%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	201%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	211%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	222%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	234%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	385%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

GUANDI COAL MINE

LOCATION (LAT., LON.)

37.8168, 112.407

GEM MINE ID

M1125

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

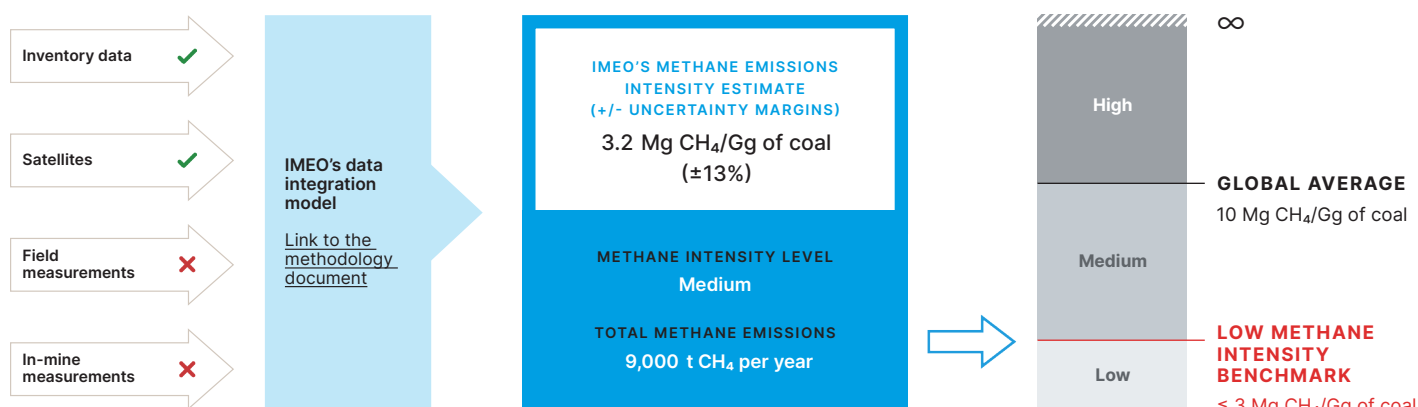
2.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

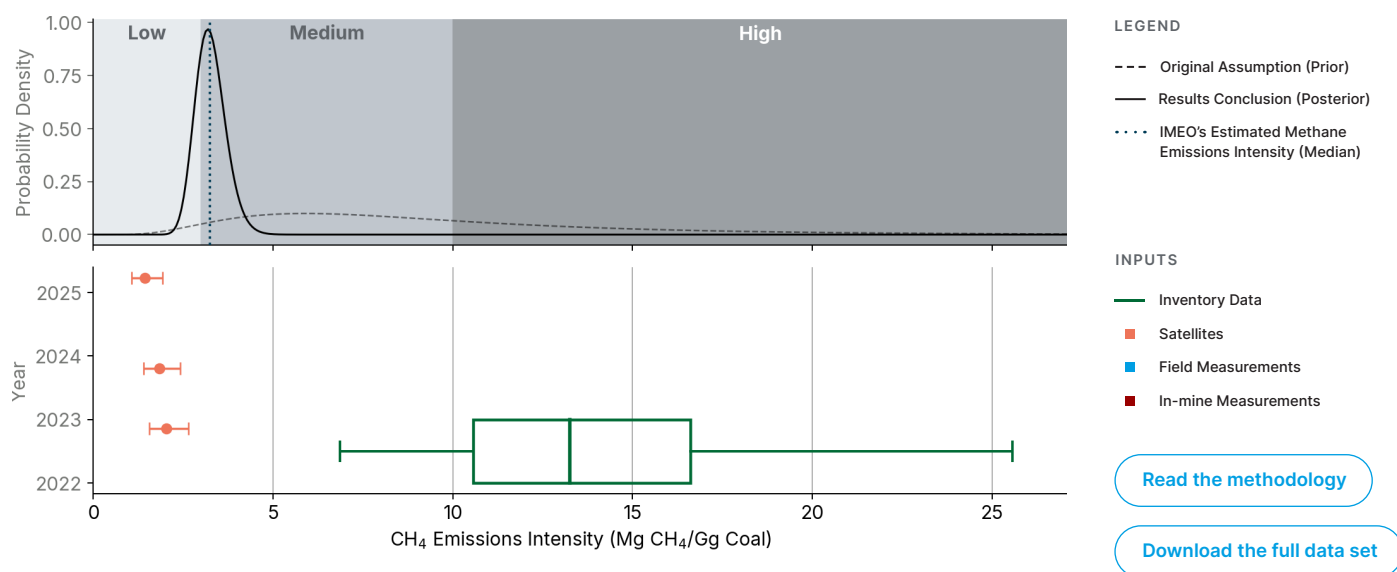
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 GUANDI COAL MINE



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	2023	2.1	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.9	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.5	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	12	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	12	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	77%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	95%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	7	120%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	126%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	144%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	155%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	181%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TANGKOU COAL MINE

LOCATION (LAT., LON.) 35.4379, 116.5199

GEM MINE ID

M1206

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

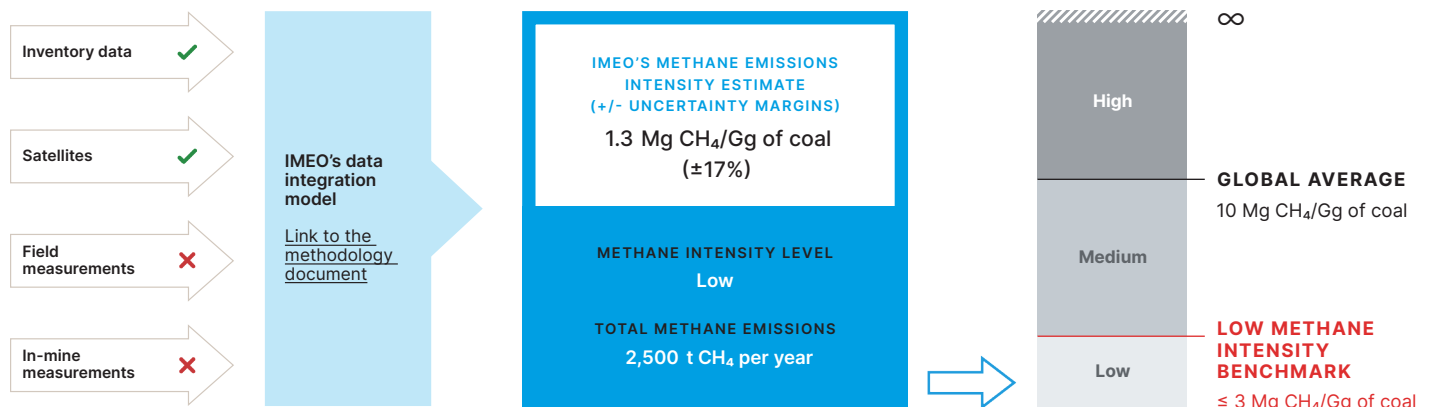
2 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

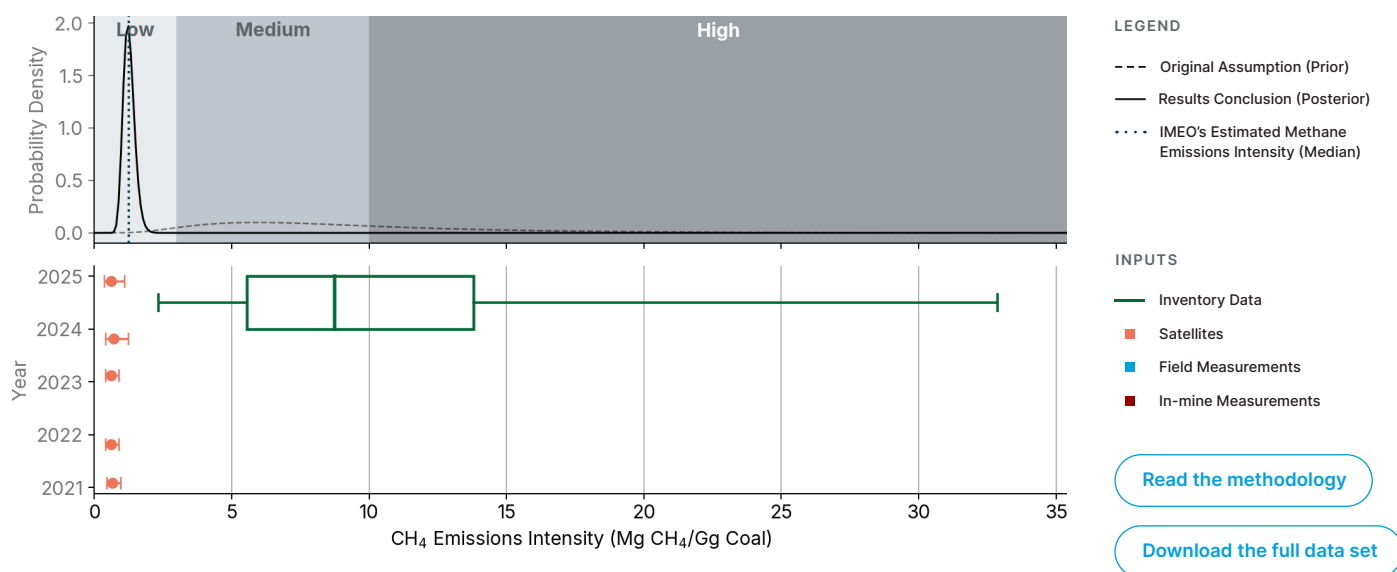
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TANGKOU COAL MINE



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	2022	0.6	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	0.7	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	0.7	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.8	60%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	9	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2025	0.7	62%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	9	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	20	106%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	128%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	2	408%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DUERPING COAL MINE

LOCATION (LAT., LON.) 37.8278, 112.3774

GEM MINE ID

M1120

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

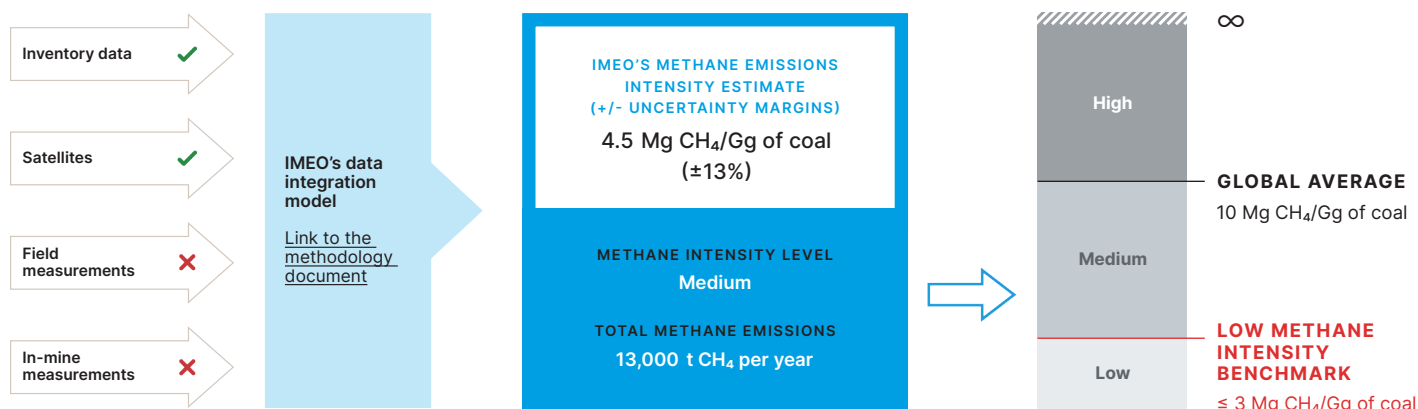
2.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

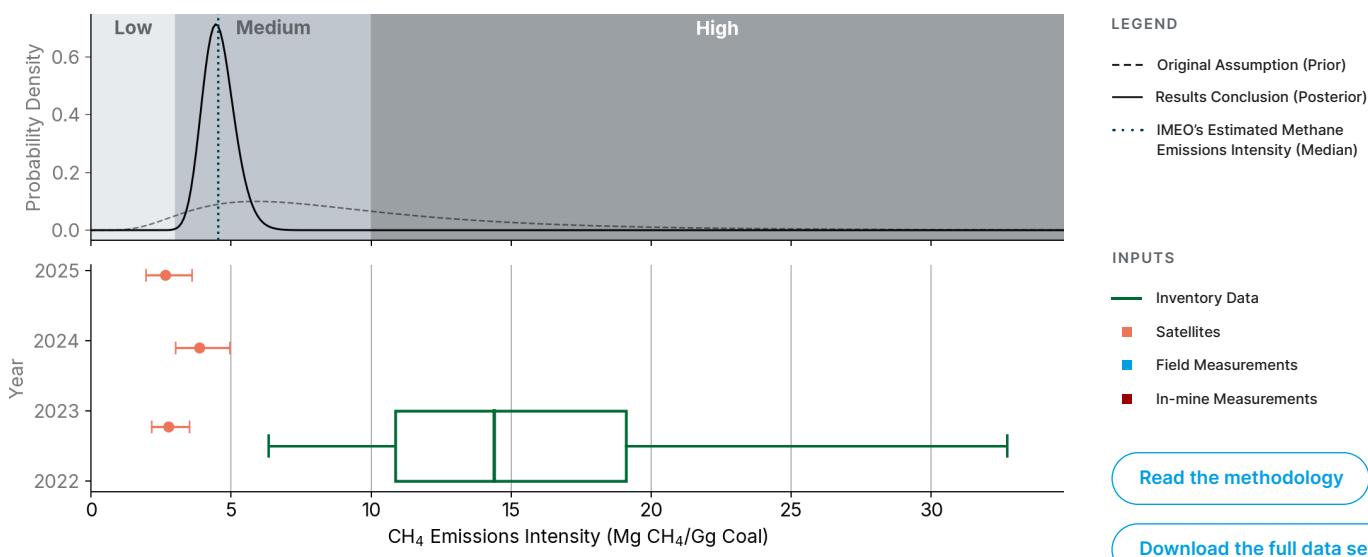
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DUERPING COAL MINE



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	2023	2.8	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	4	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	2.8	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	103%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	104%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	175%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	175%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	185%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	190%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	295%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DINGJI COAL MINE

LOCATION (LAT., LON.) 32.8714, 116.6314

GEM MINE ID

M0208

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

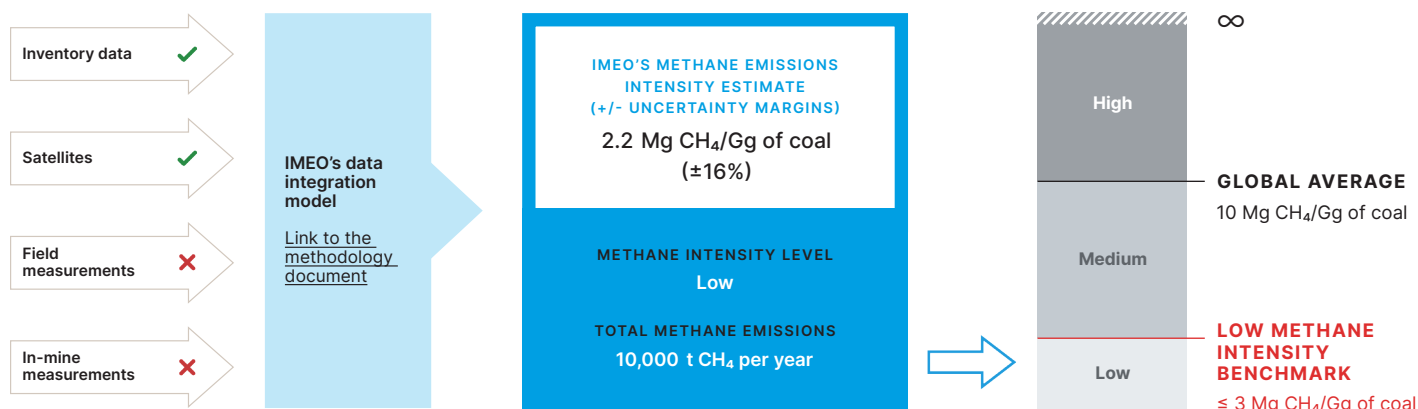
4.5 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

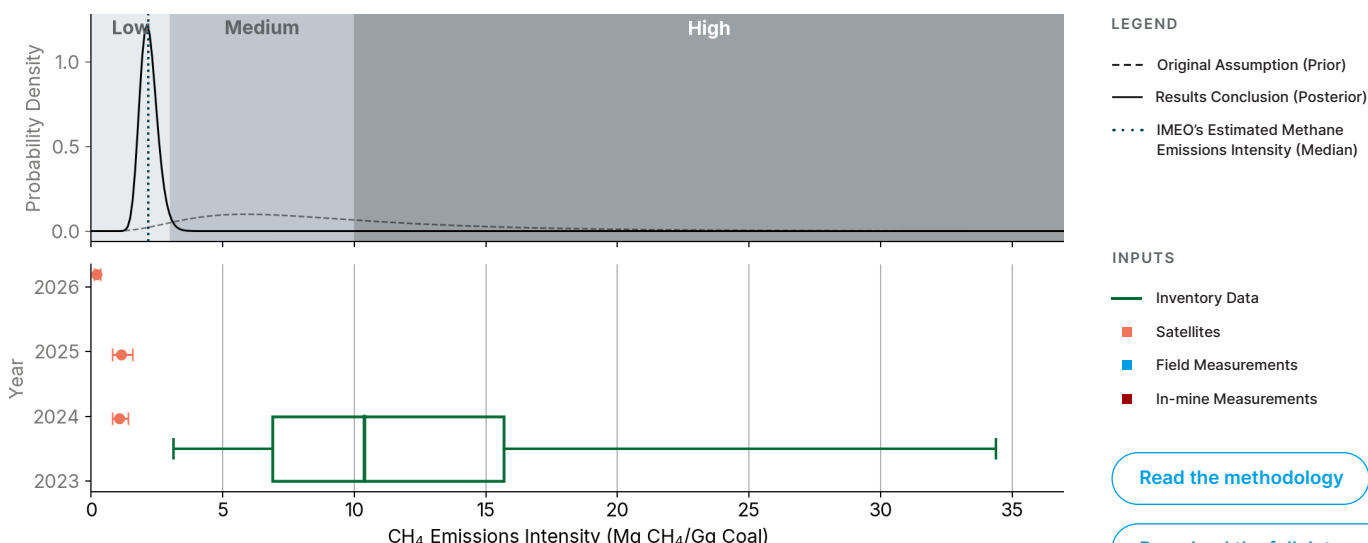
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DINGJI COAL MINE



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	2024	1.1	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.2	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	0.2	60%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	91%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	184%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	256%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	313%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	322%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	353%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

JUNDE COAL MINE

LOCATION (LAT., LON.)

47.1891, 130.24

GEM MINE ID

M1156

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

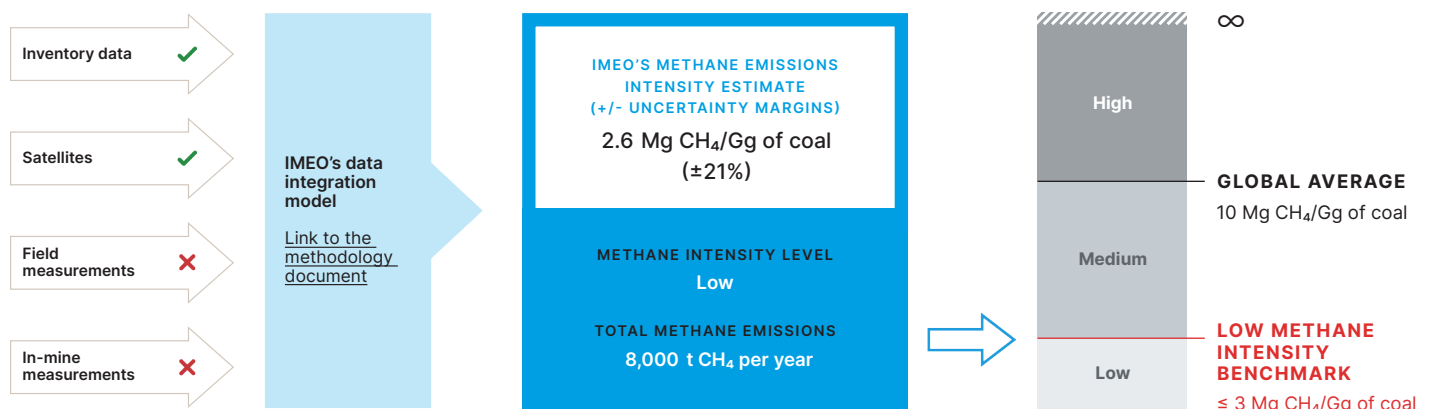
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

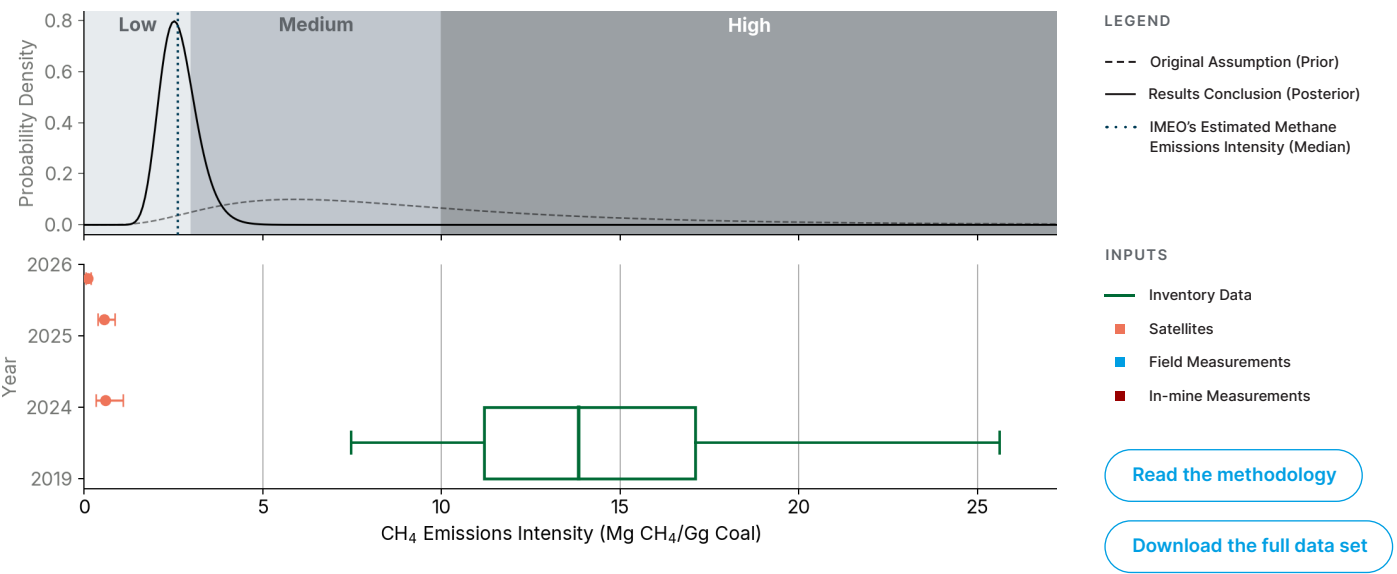
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 JUNDE COAL MINE



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	2019	11	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2025	0.6	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.7	65%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	11	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2026	0.13	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	10	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2019	20	108%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

WANGJIAYU COAL MINE

LOCATION (LAT., LON.) 36.7459, 113.1044

GEM MINE ID

M2184

MINING TYPE

Underground

COAL GRADE

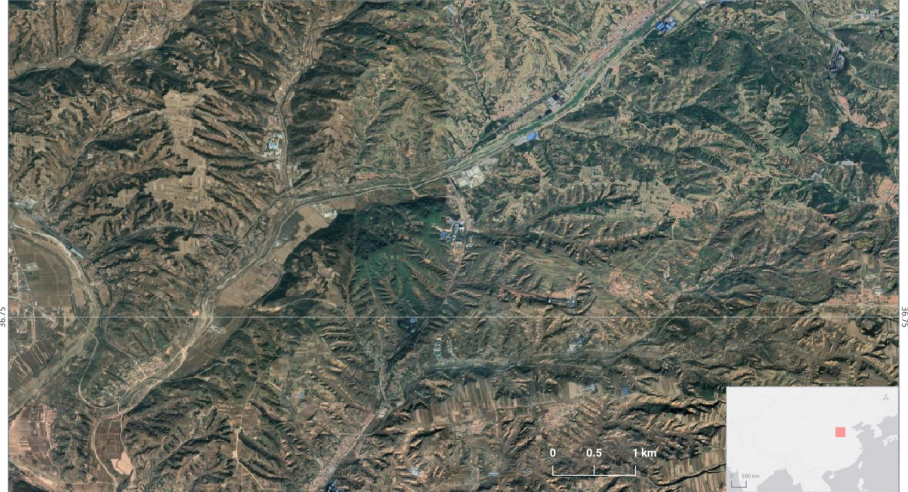
Thermal & Metallurgical

ESTIMATED PRODUCTION

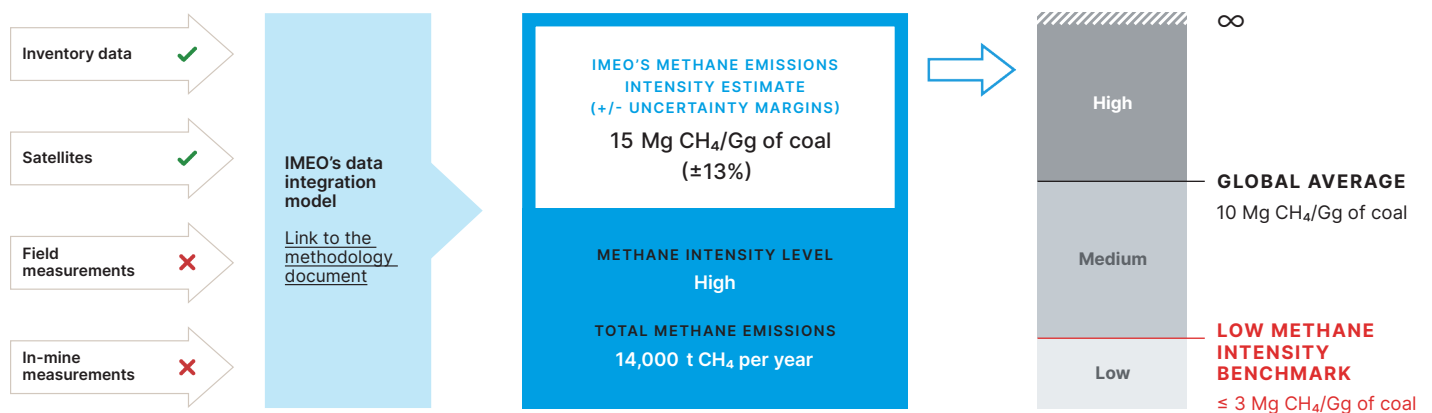
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

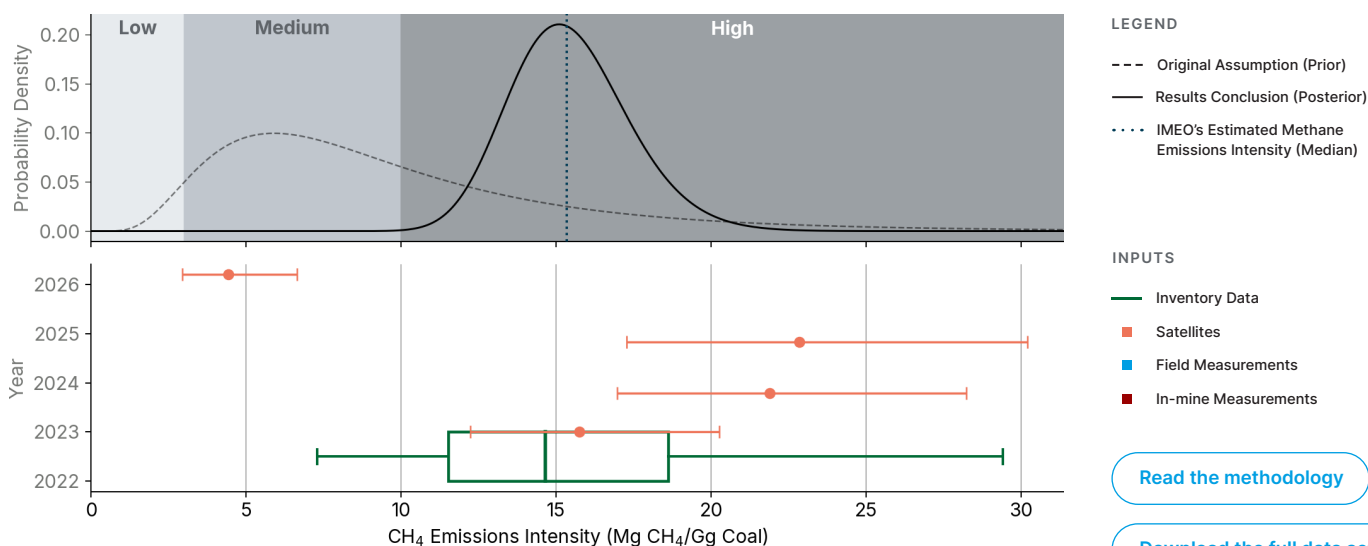
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 WANGJIAYU COAL MINE



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	2023	16	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	23	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	24	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2026	5	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	110%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

2130 COAL MINE

LOCATION (LAT., LON.)

43.0221, 87.454

GEM MINE ID

M1809

MINING TYPE

Underground

COAL GRADE

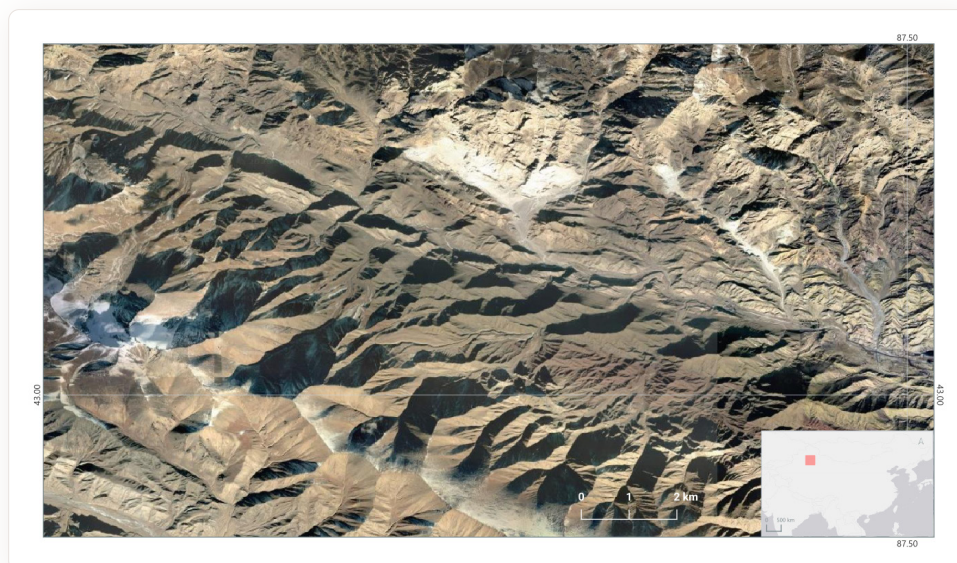
Metallurgical

ESTIMATED PRODUCTION

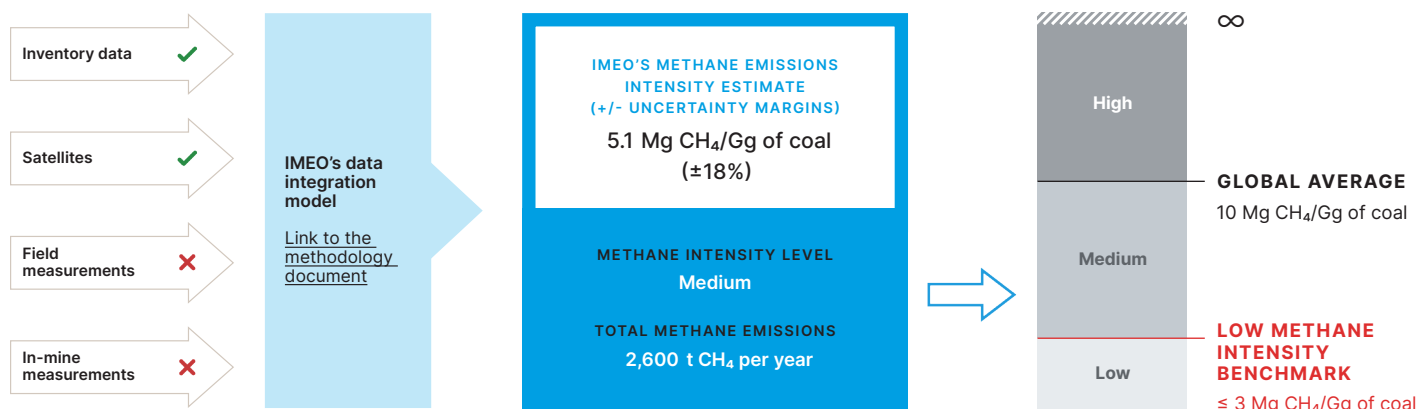
0.5 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

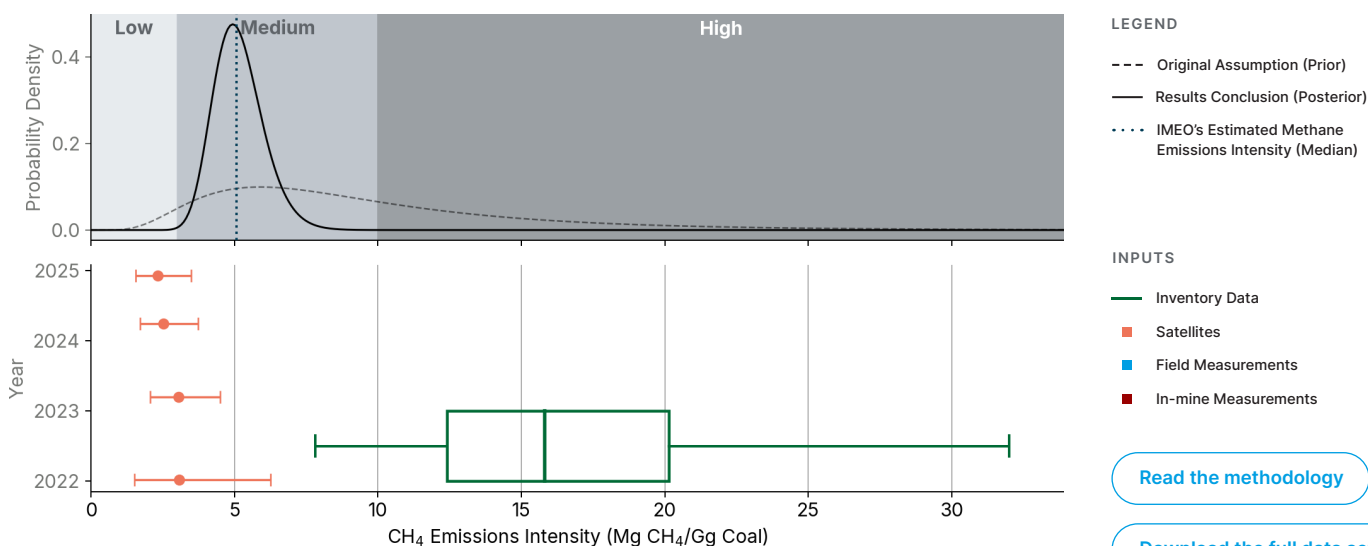
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 2130 COAL MINE



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	2022	18	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2023	3	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	3	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	3	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	70%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2022	4	82%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	110%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	126%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TENGHUI COAL MINE

LOCATION (LAT., LON.) 35.7806, 110.6159

GEM MINE ID

M2161

MINING TYPE

Underground

COAL GRADE

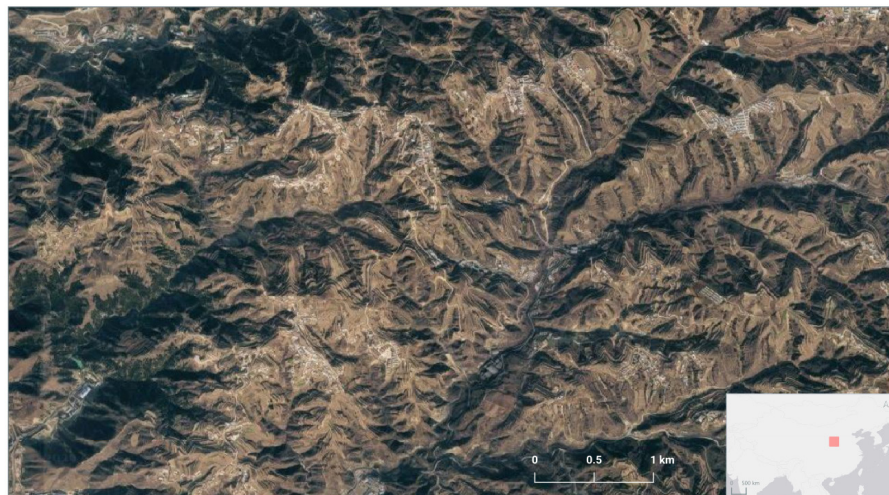
Thermal & Metallurgical

ESTIMATED PRODUCTION

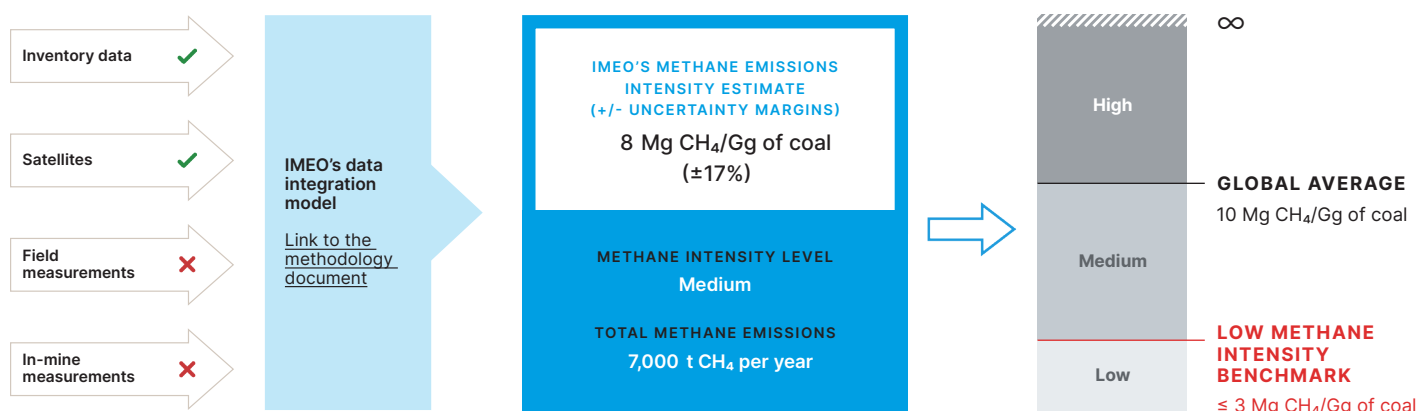
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

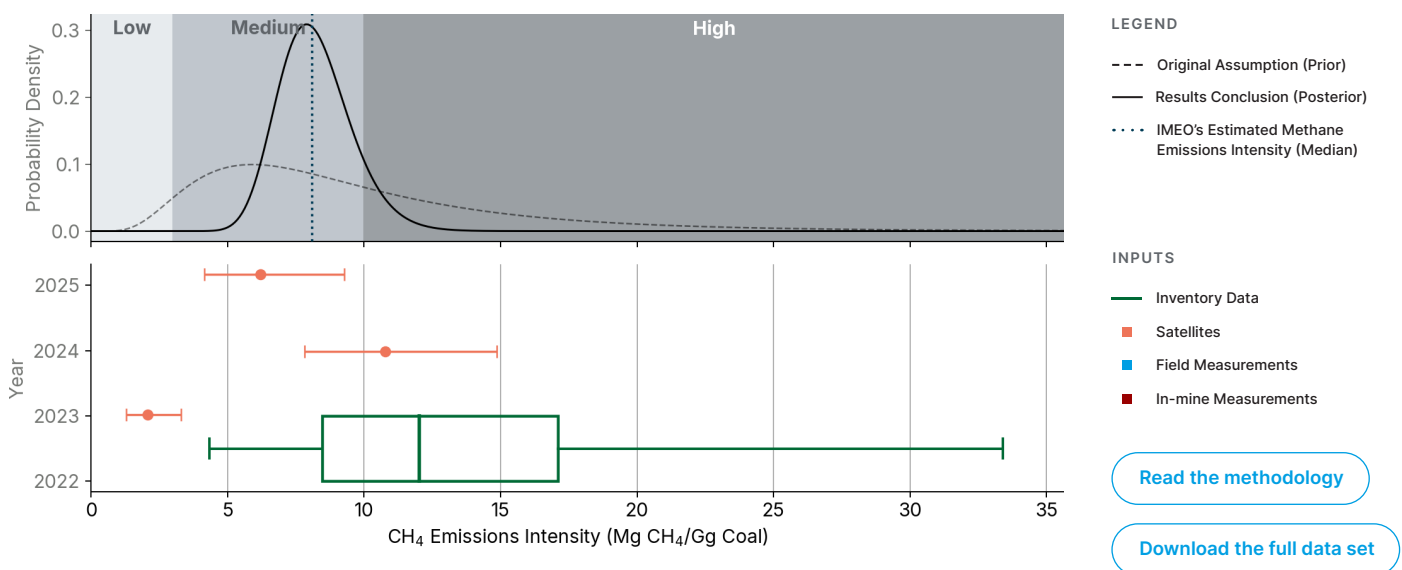
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TENGHUI COAL MINE



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	2024	11	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2025	7	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	2	50%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	92%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	112%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	141%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	202%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	227%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	235%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	341%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

XINGHUA COAL MINE

LOCATION (LAT., LON.) 45.3255, 131.1099

GEM MINE ID

M2224

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

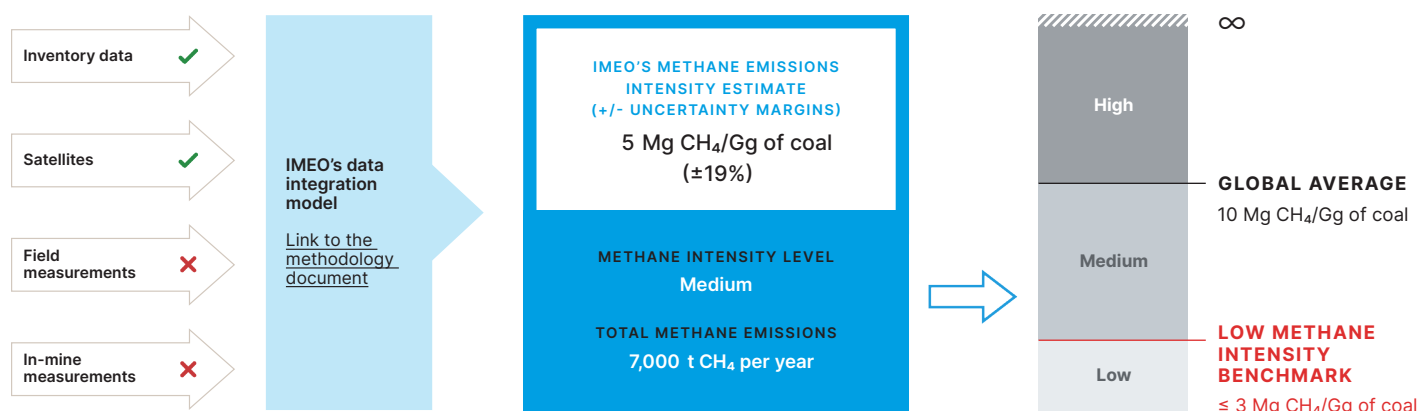
1.5 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

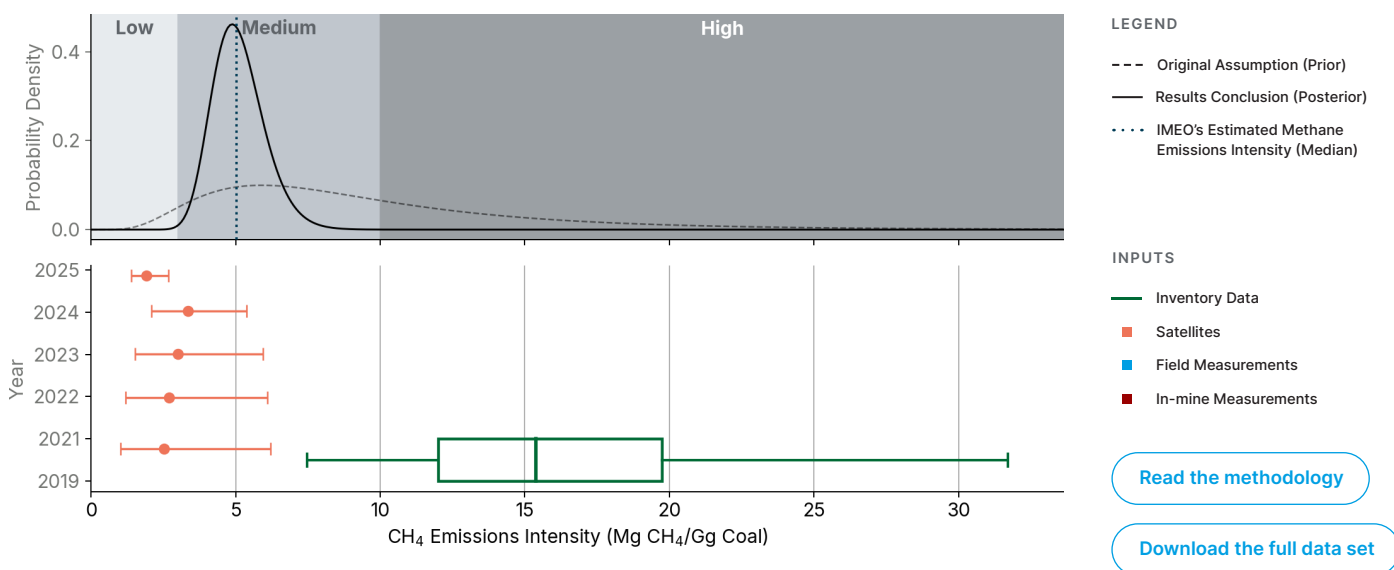
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XINGHUA COAL MINE



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	2	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	18	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2024	4	50%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	20	70%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2023	4	77%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	4	97%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	4	113%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	10	121%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2019	20	124%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

HUANGLING NO. 2 COAL MINE

LOCATION (LAT., LON.) 35.6611, 108.9187

GEM MINE ID

M0252

MINING TYPE

Underground

COAL GRADE

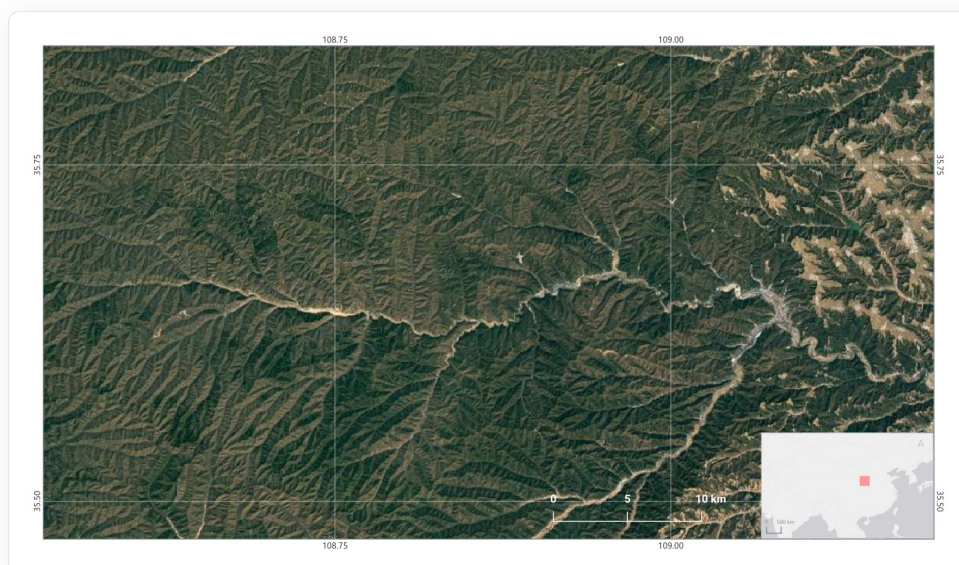
Thermal & Metallurgical

ESTIMATED PRODUCTION

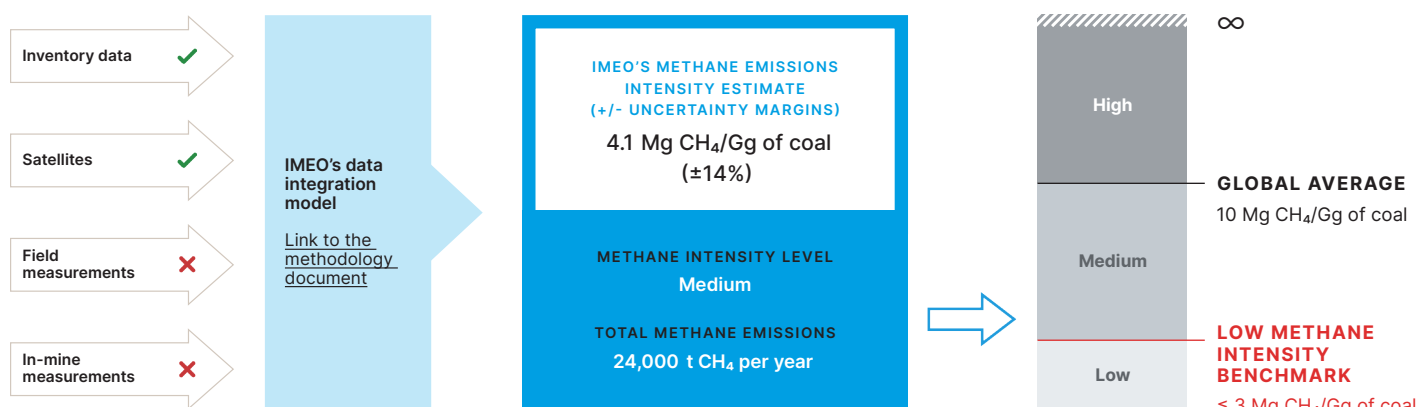
6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

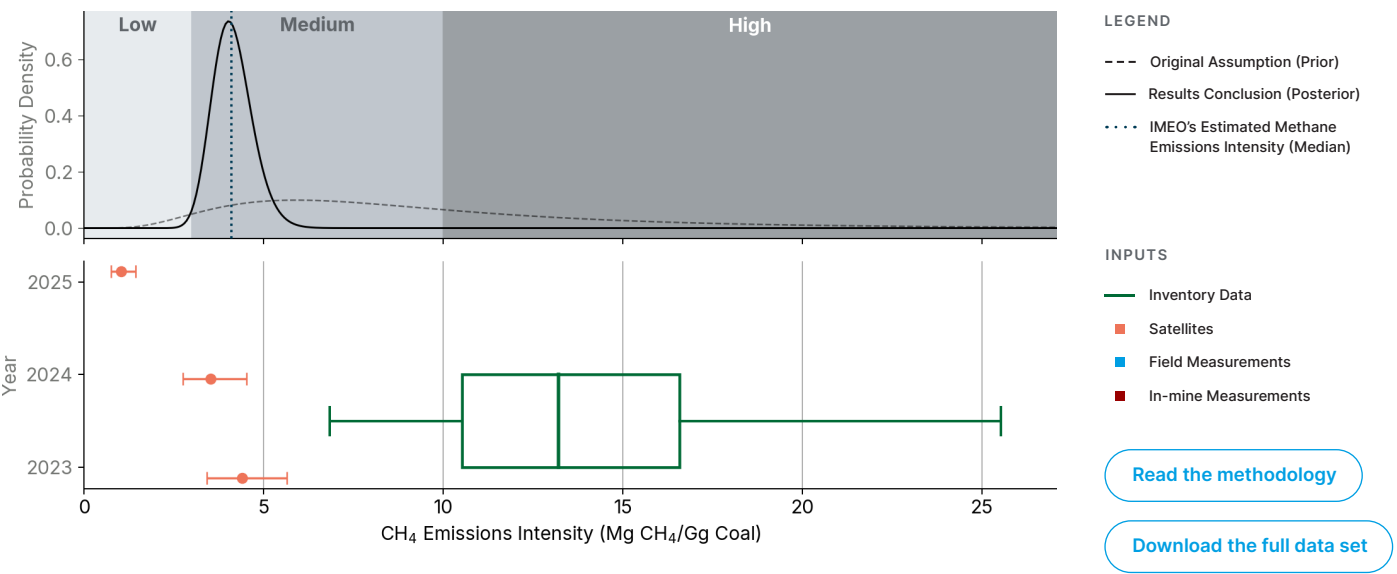
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 HUANGLING NO. 2 COAL MINE



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	2024	3.6	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	5	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.1	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	13	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	13	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	103%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	113%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

PAN'ER COAL MINE

LOCATION (LAT., LON.) 32.8155, 116.8923

GEM MINE ID

M1185

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

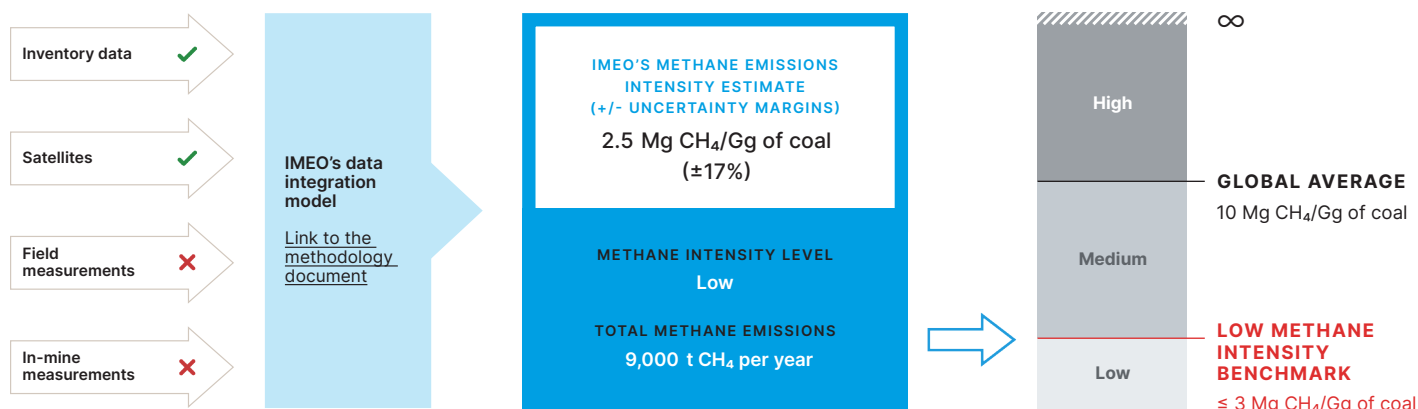
3.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

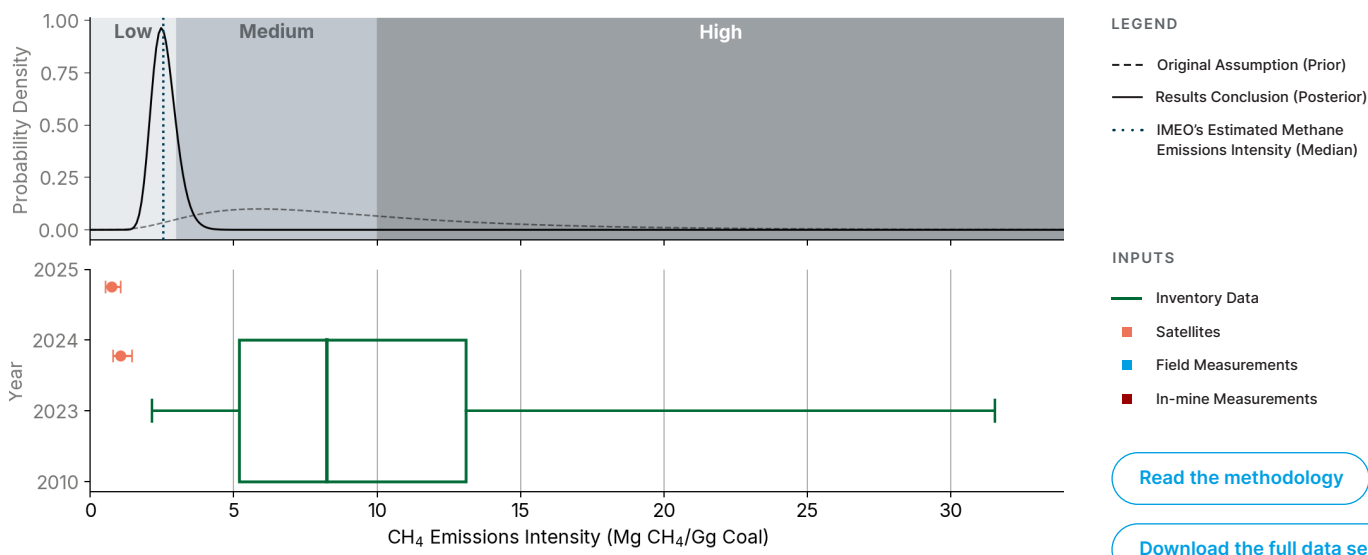
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 PAN'ER COAL MINE



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	2024	1.1	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.8	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	85%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2010	3	116%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2023	10	234%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	309%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	319%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2010	1	554%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link

DABAODING COAL MINE

LOCATION (LAT., LON.) 26.5664, 101.6108

GEM MINE ID

M1846

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

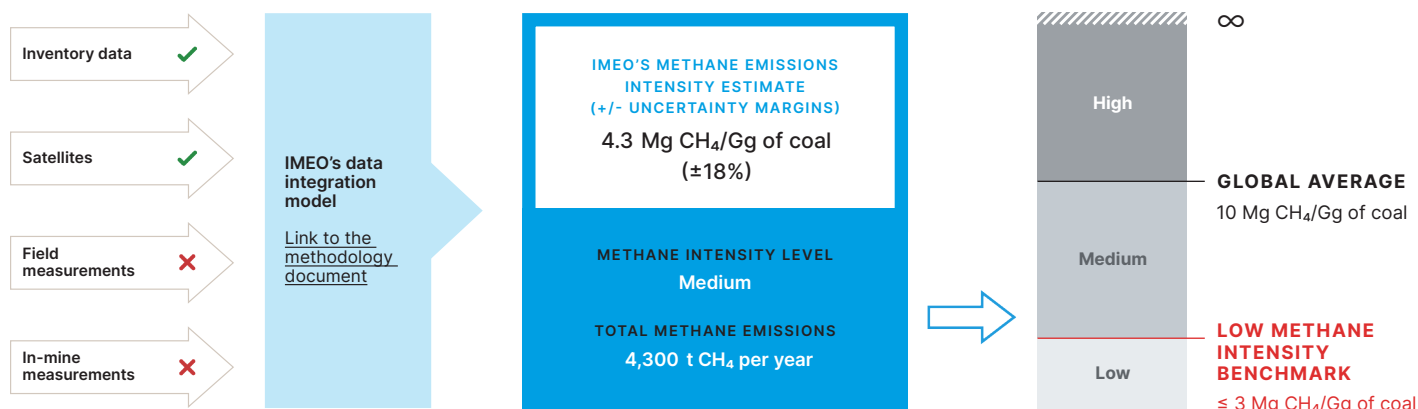
1 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

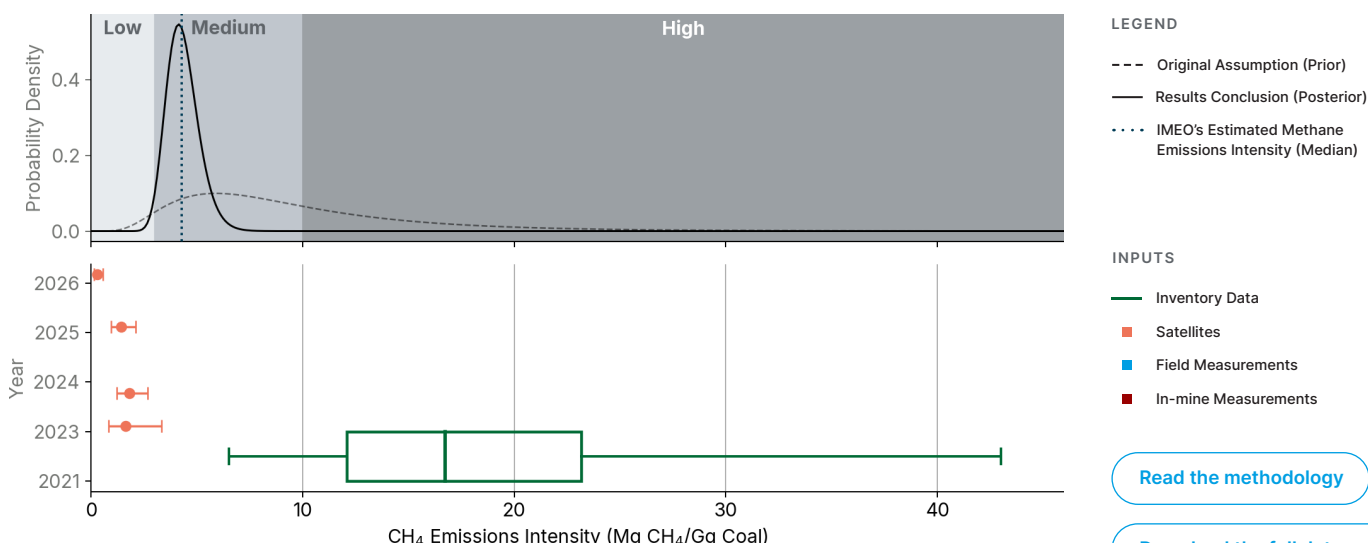
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DABAODING COAL MINE



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	2021	24	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2024	2	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.5	43%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2021	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2026	0.4	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	2	80%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2021	20	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2021	10	127%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2021	20	146%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2021	10	211%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2021	20	254%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

HUASHAN COAL MINE

LOCATION (LAT., LON.) 26.5938, 101.5719

GEM MINE ID

M1965

MINING TYPE

Underground

COAL GRADE

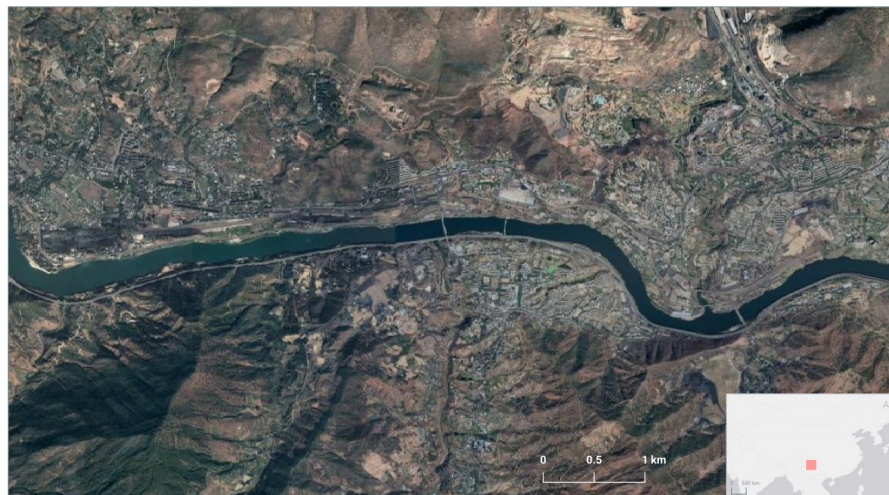
Metallurgical

ESTIMATED PRODUCTION

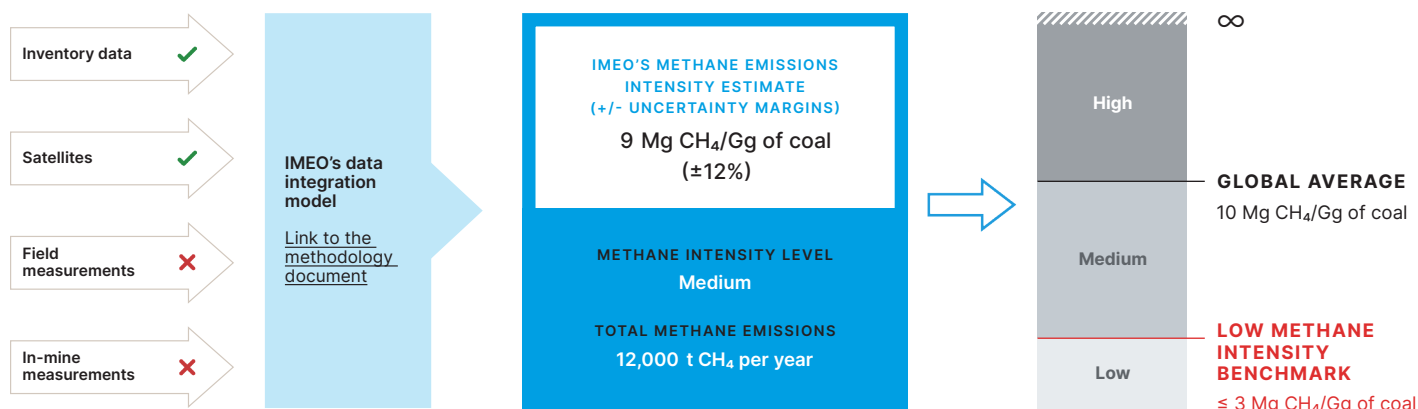
1.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

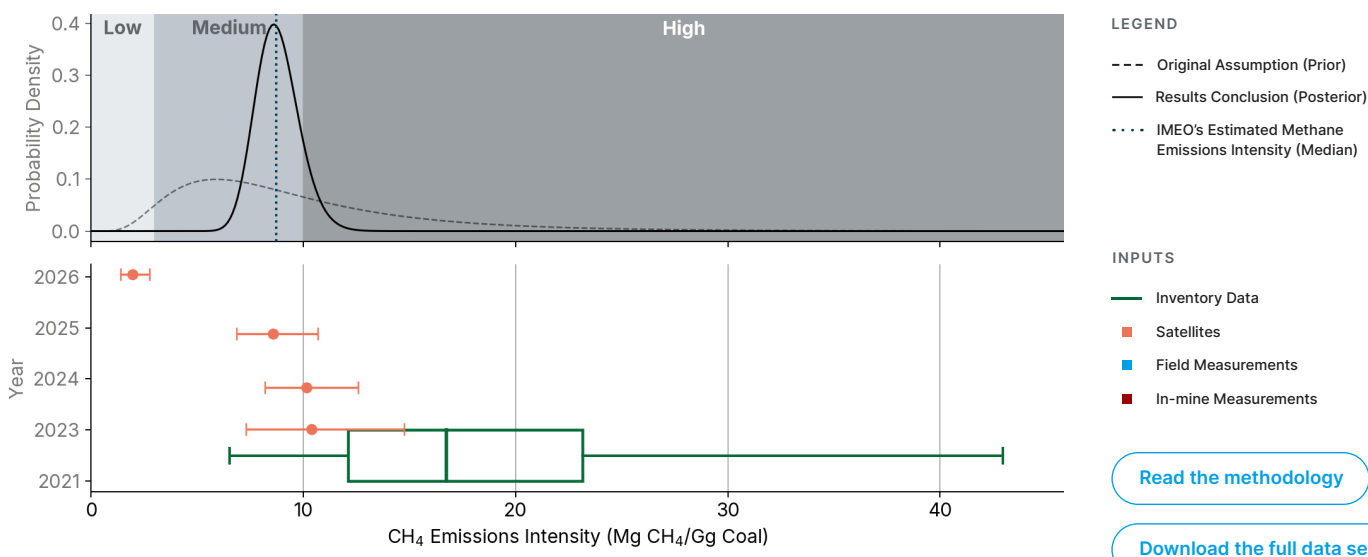
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 HUASHAN COAL MINE



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	2024	10	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	9	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	2.1	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	11	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2021	24	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link; Link
Inventory	2021	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2021	20	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2021	10	128%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2021	20	146%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2021	10	209%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2021	20	254%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TONGXIN COAL MINE

LOCATION (LAT., LON.) 40.0132, 113.1033

GEM MINE ID

M0363

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

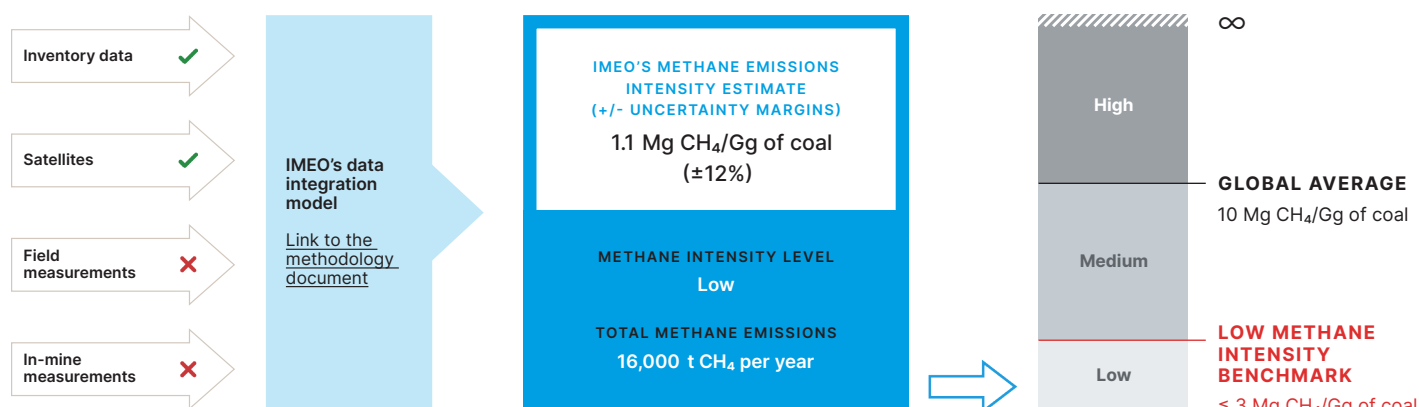
14.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

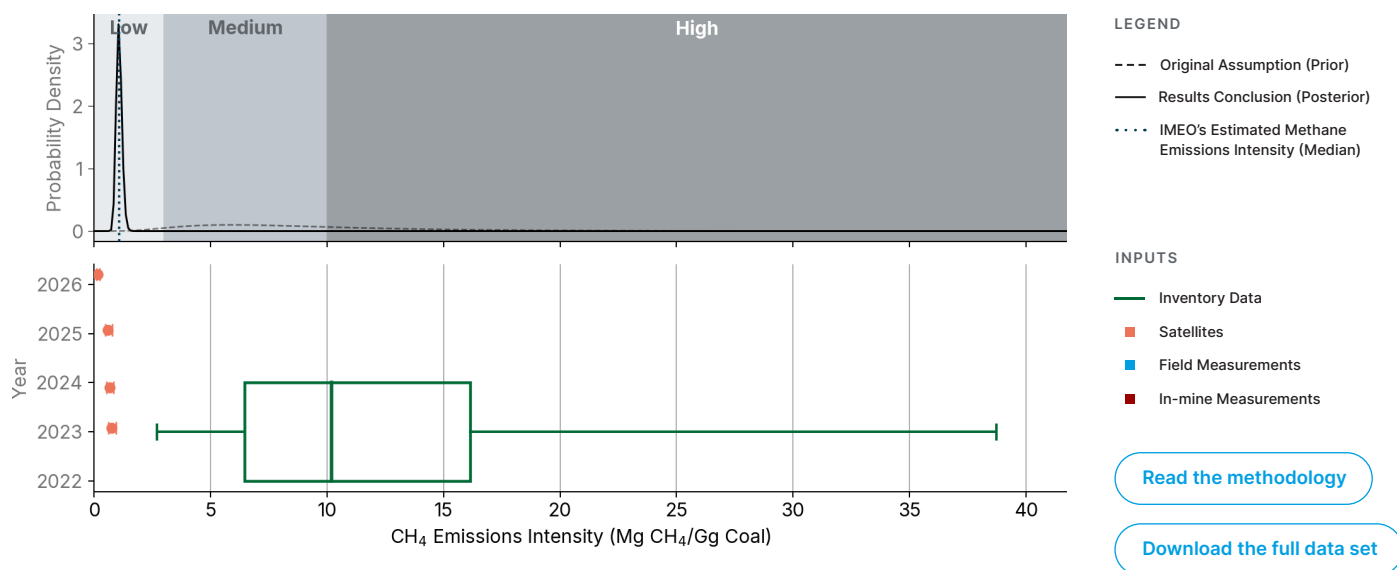
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TONGXIN COAL MINE



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	2023	0.8	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.7	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.6	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	14	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2026	0.17	46%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	14	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	8	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	148%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	243%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	291%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	1	525%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

XIMING COAL MINE

LOCATION (LAT., LON.) 37.8647, 112.4113

GEM MINE ID

M1231

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

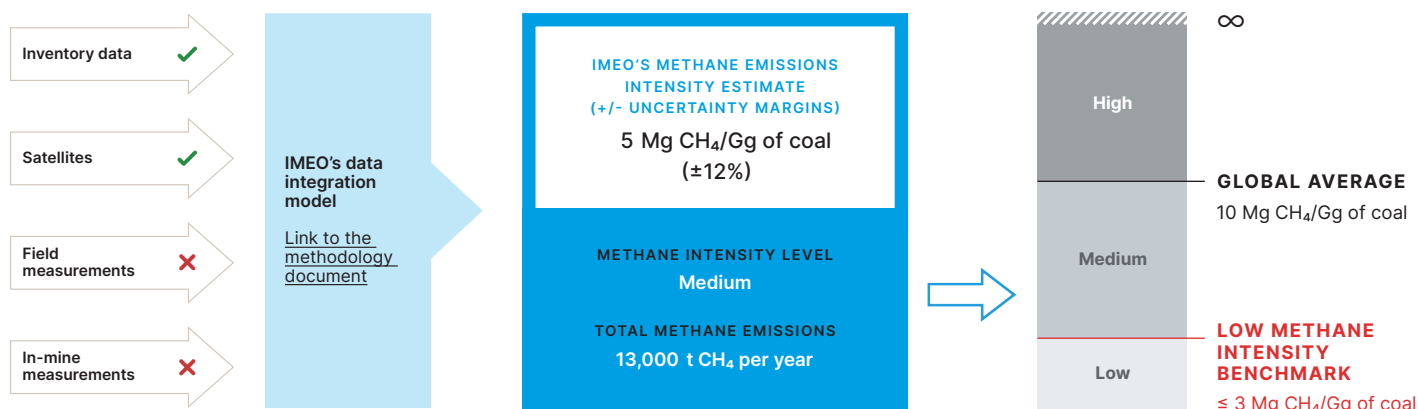
2.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

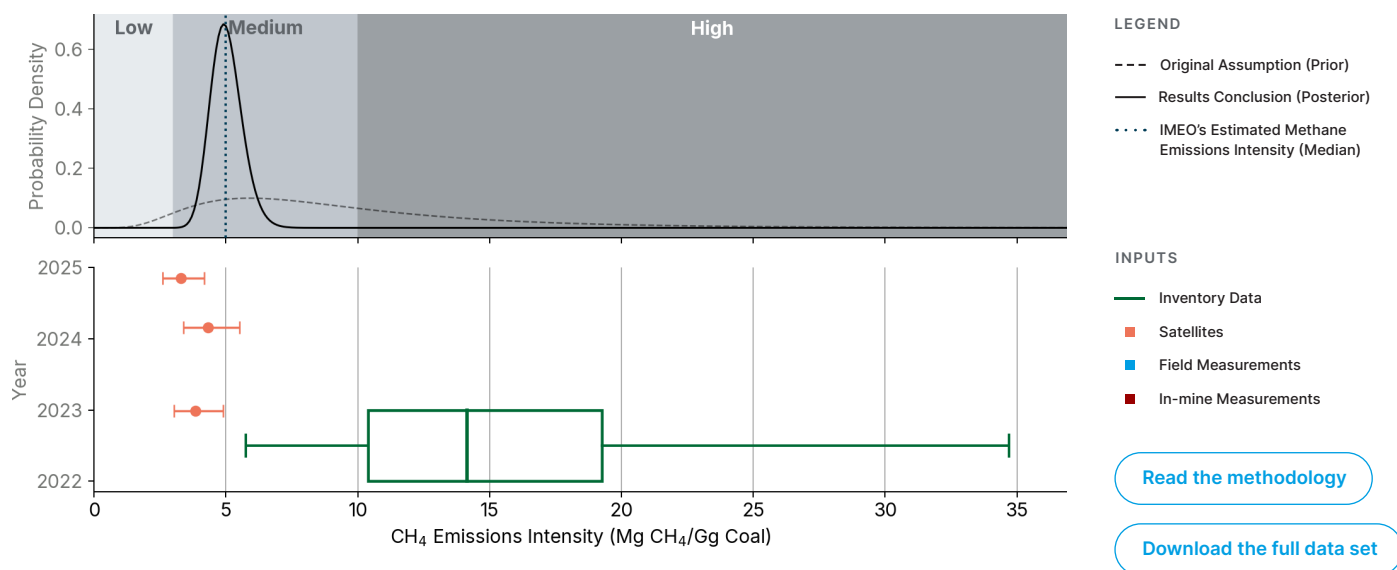
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XIMING COAL MINE



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	3.4	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	4	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	4	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	104%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	120%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	123%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	175%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	191%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	217%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	222%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	0	333%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

WUYANG COAL MINE

LOCATION (LAT., LON.)

36.493, 113.0471

GEM MINE ID

M1228

MINING TYPE

Underground

COAL GRADE

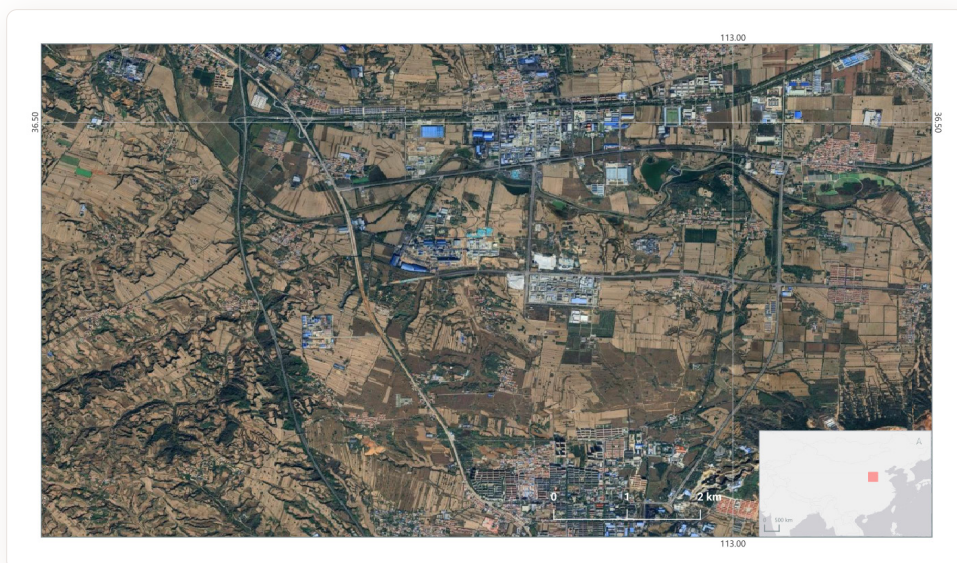
Metallurgical

ESTIMATED PRODUCTION

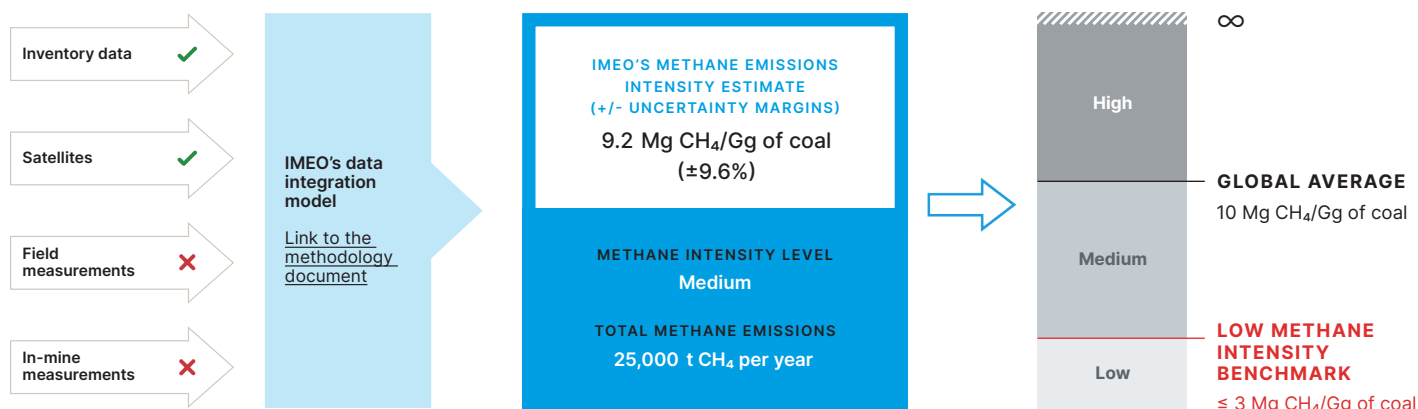
2.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

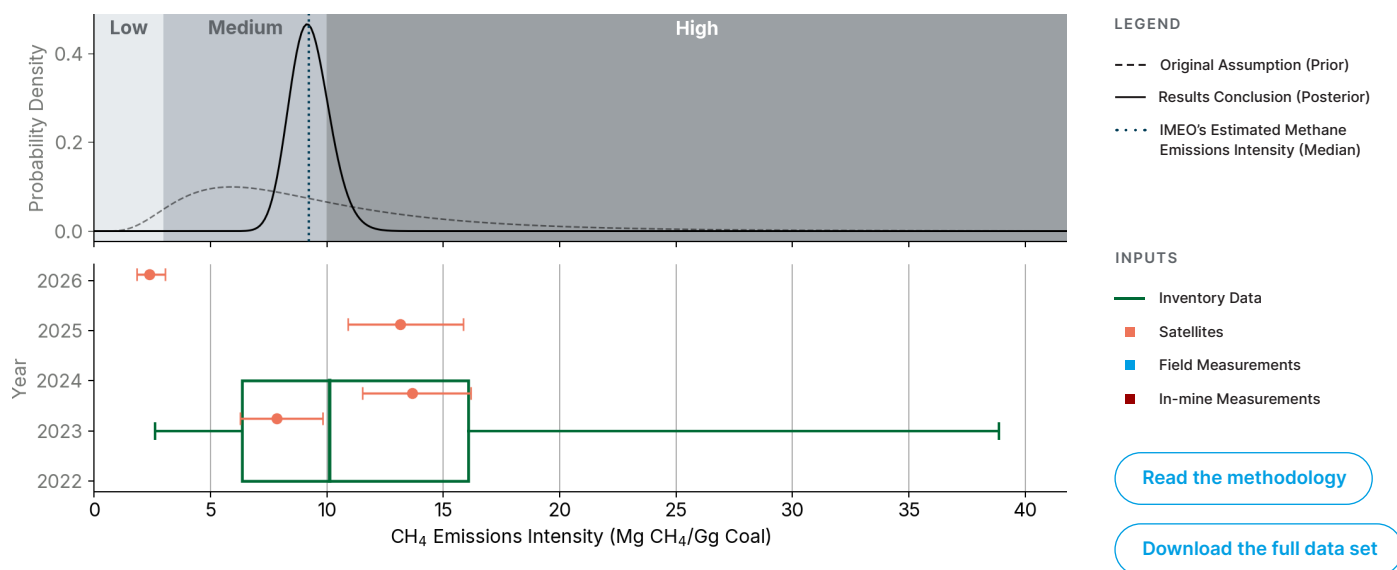
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 WUYANG COAL MINE



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	2024	14	17%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	13	19%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	8	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	2.4	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	15	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	120%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	205%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	263%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	288%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	340%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	508%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

RENJIAZHUANG COAL MINE

LOCATION (LAT., LON.) 38.1931, 106.4678

GEM MINE ID

M1189

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

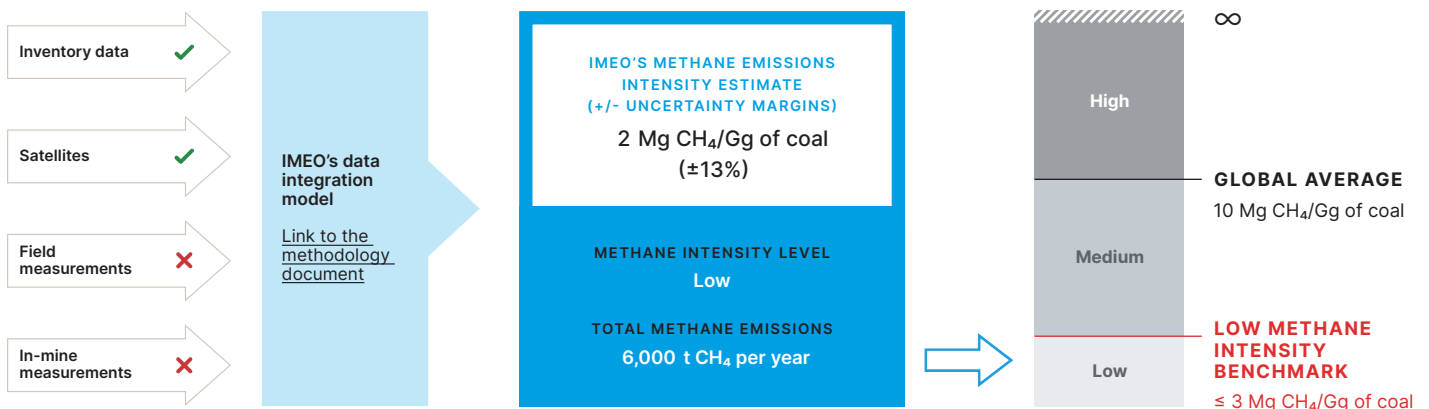
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

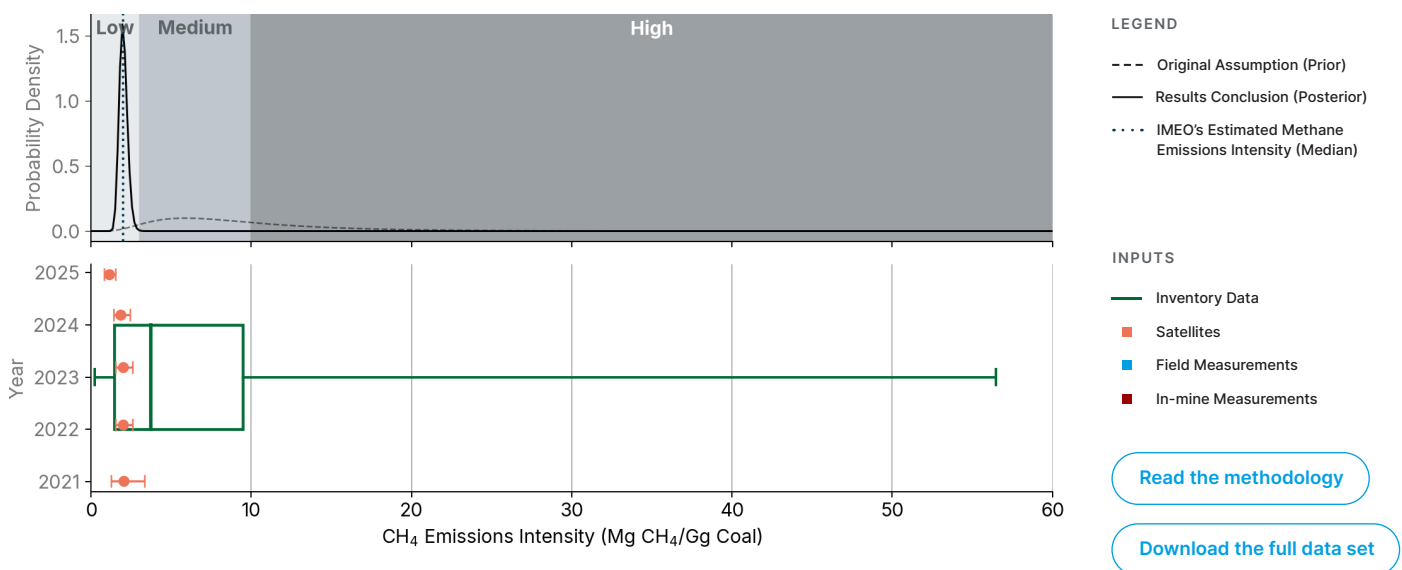
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 RENJIAZHUANG COAL MINE



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	2022	2.1	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	2.1	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.9	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.2	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	2	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	117%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	120%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	1	582%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	0	757%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

LVJIATUO COAL MINE

LOCATION (LAT., LON.) 39.6646, 118.3865

GEM MINE ID

M1174

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

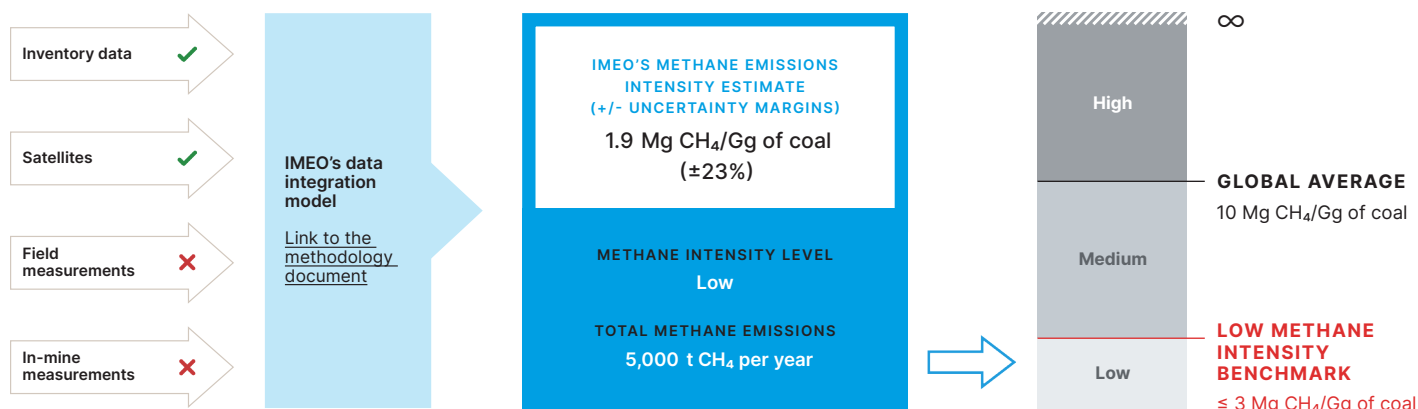
2.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

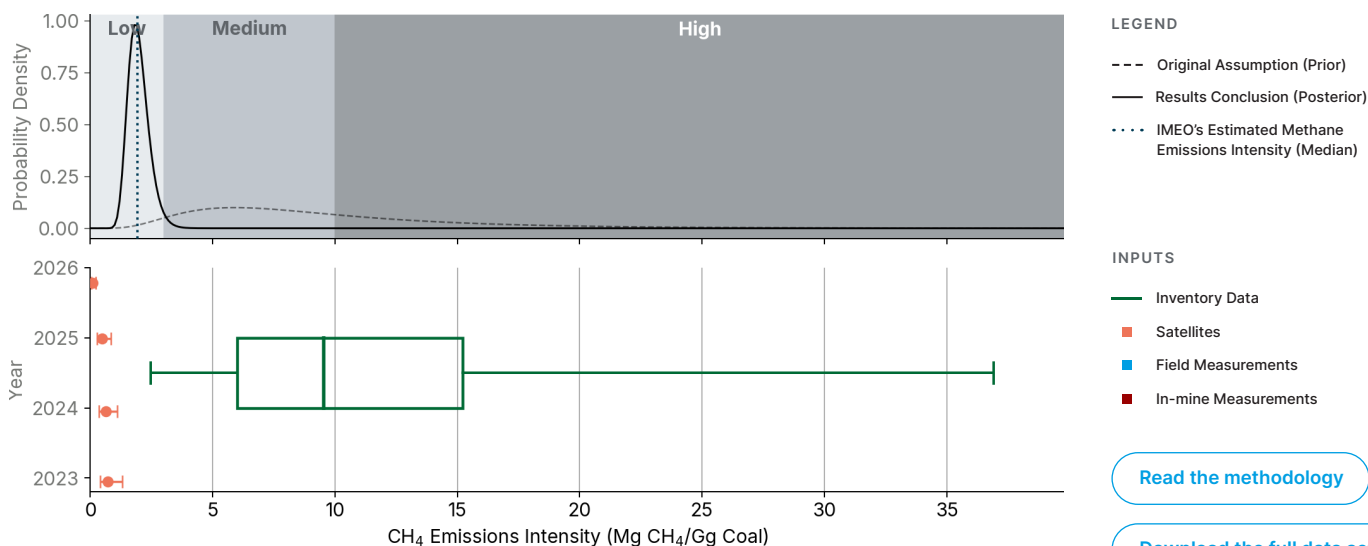
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 LVJIATUO COAL MINE



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	2024	13	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2024	0.7	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.6	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	0.9	63%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.1	95%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	121%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	140%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	3	309%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	347%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	356%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

SHIQUAN COAL MINE

LOCATION (LAT., LON.) 36.5247, 112.8776

GEM MINE ID

M2127

MINING TYPE

Underground

COAL GRADE

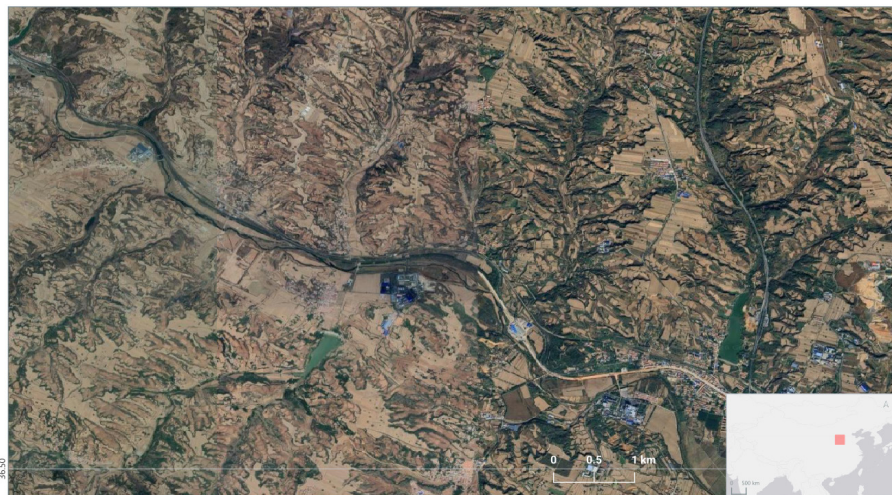
Metallurgical

ESTIMATED PRODUCTION

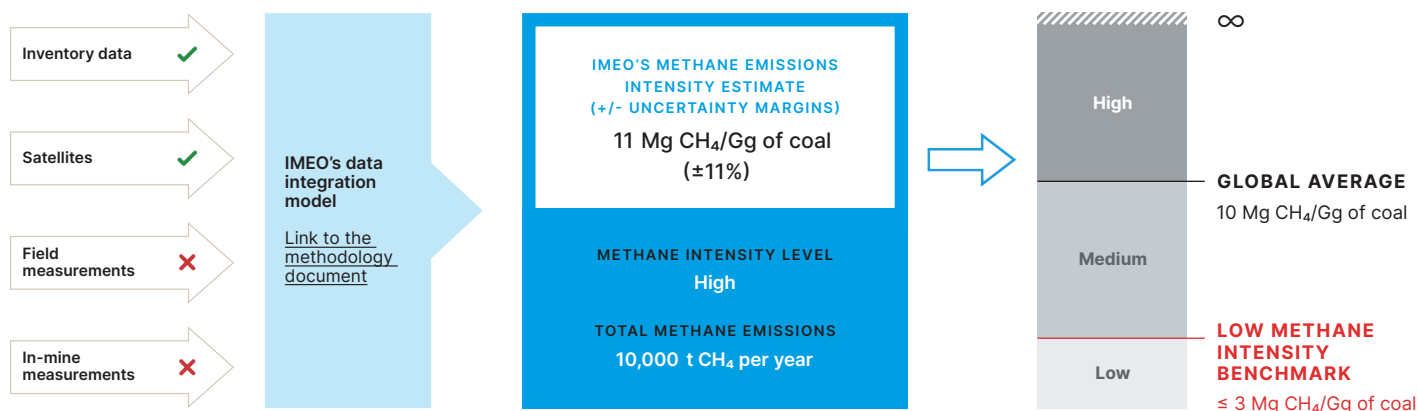
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

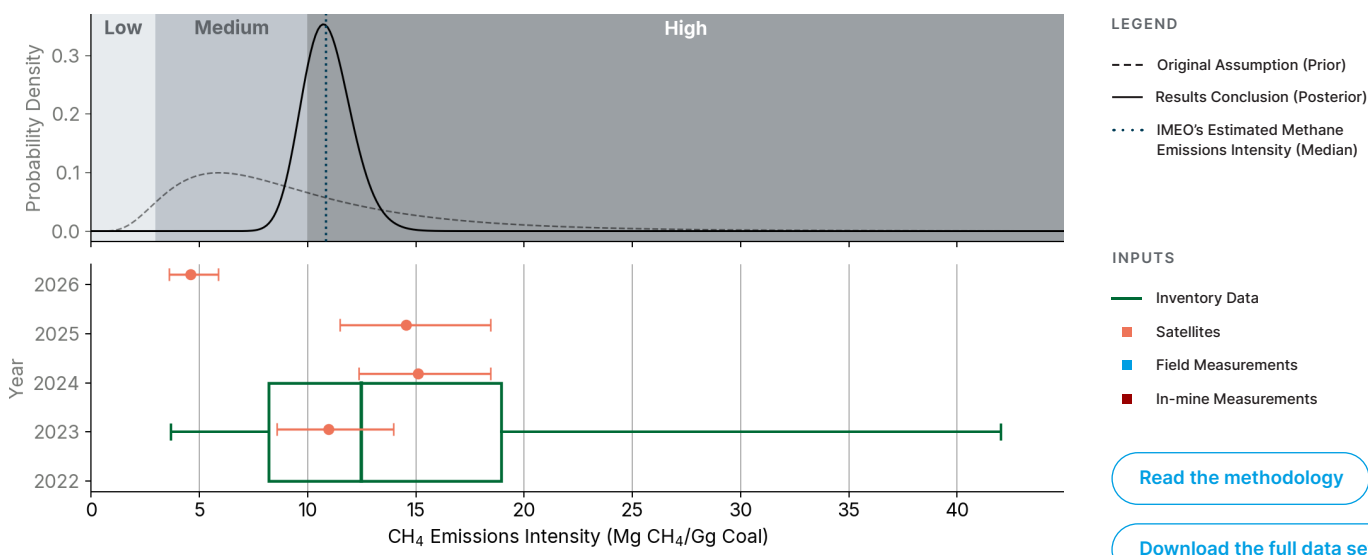
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHIQUAN COAL MINE



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	2024	15	20%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	15	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	11	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	5	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	122%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	283%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	336%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

FUDA COAL MINE

LOCATION (LAT., LON.) 36.9526, 113.2958

GEM MINE ID

M1902

MINING TYPE

Underground

COAL GRADE

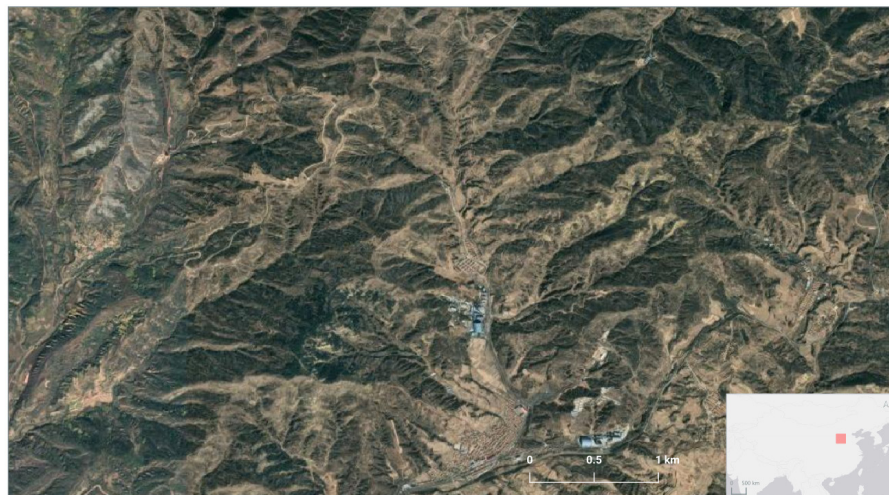
Metallurgical

ESTIMATED PRODUCTION

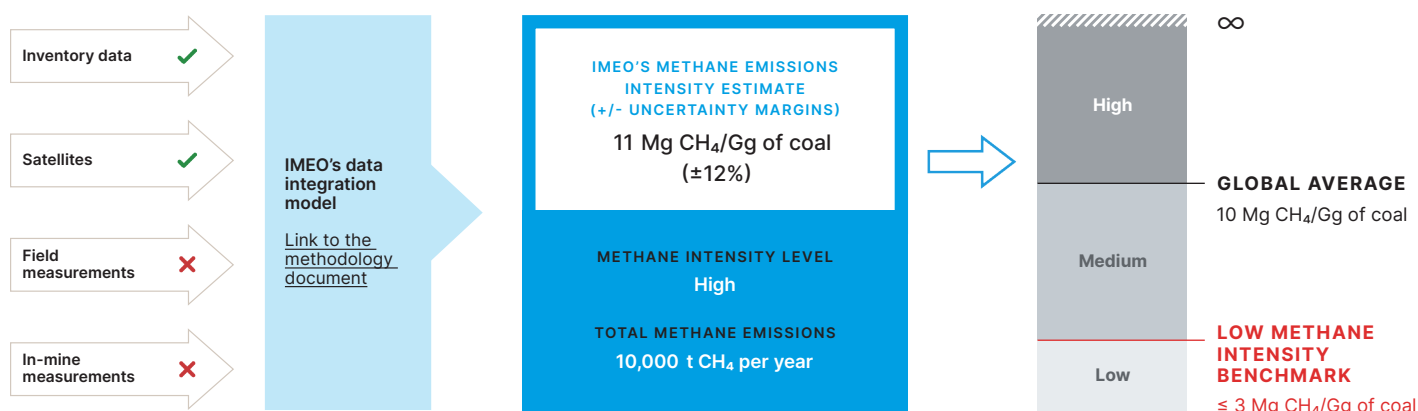
0.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

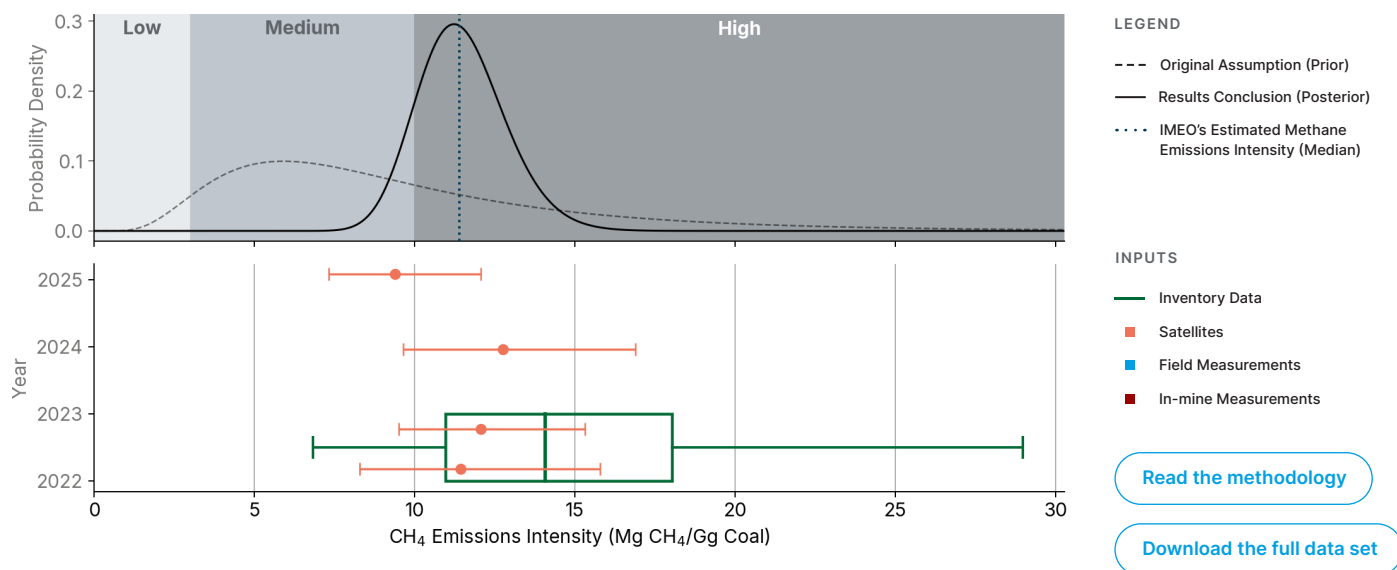
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 FUDA COAL MINE



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	2023	12	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	10	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	13	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	12	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	122%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

JINYANG COAL MINE

LOCATION (LAT., LON.) 36.5621, 112.4676

GEM MINE ID

M2944

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

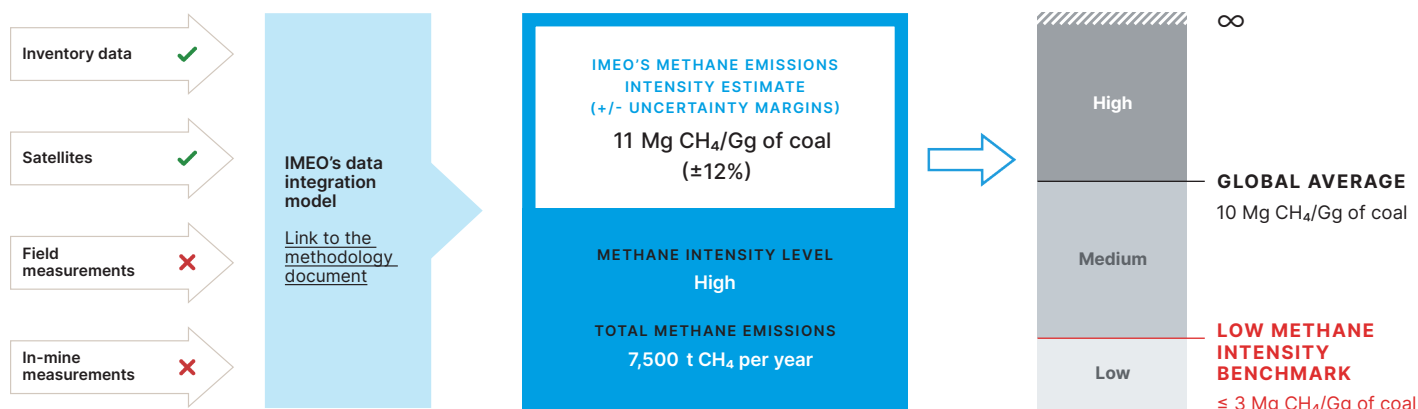
0.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

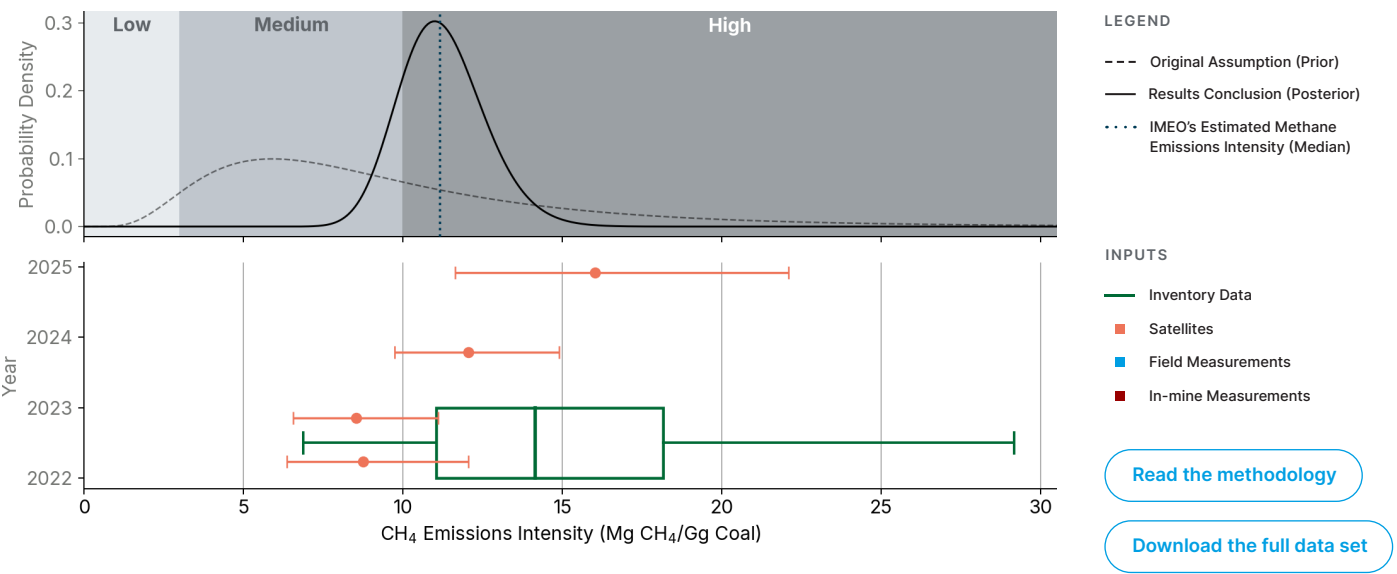
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 JINYANG COAL MINE



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	2024	12	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	9	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	9	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	17	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	122%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

WANGJIALING COAL MINE

LOCATION (LAT., LON.) 35.7021, 110.6863

GEM MINE ID

M0366

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

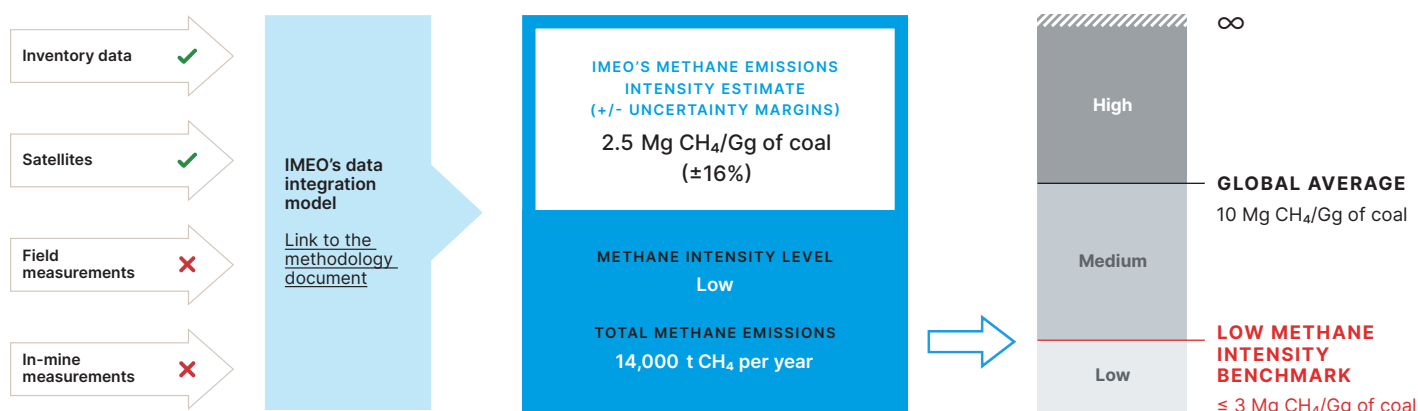
5.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

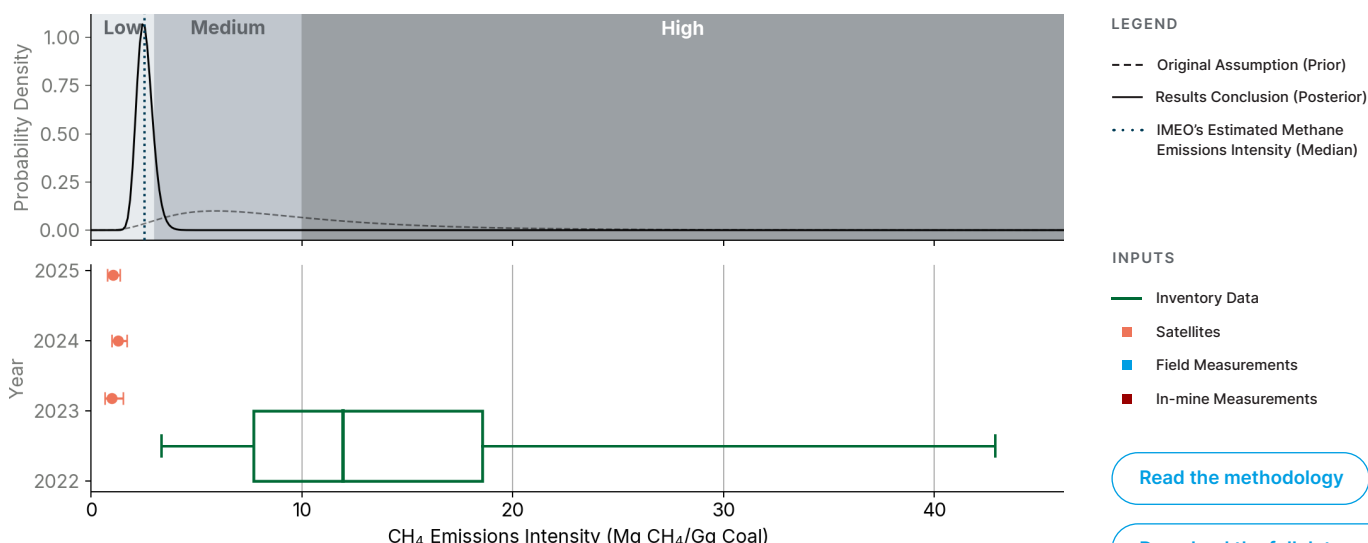
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 WANGJIALING COAL MINE



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	2024	1.3	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.1	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2023	1.1	46%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	118%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	202%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	236%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	284%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	464%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

XIAOJIAWA COAL MINE

LOCATION (LAT., LON.) 38.3948, 111.1439

GEM MINE ID

M0384

MINING TYPE

Underground

COAL GRADE

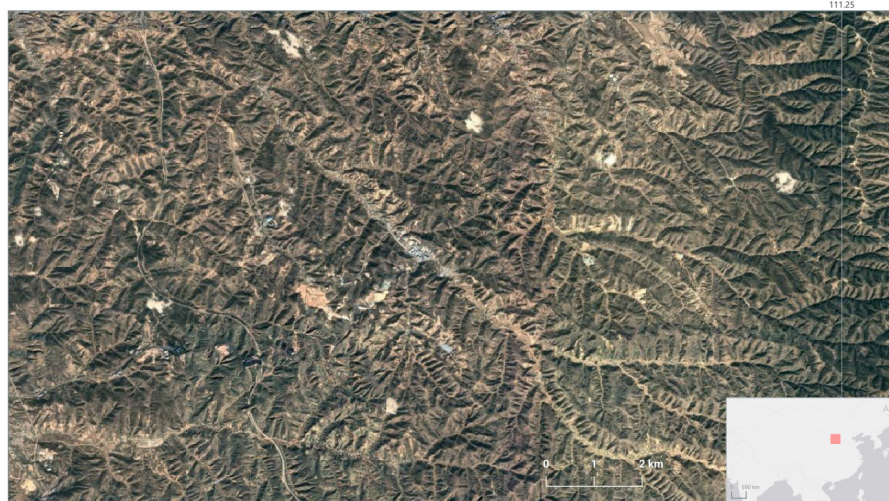
Metallurgical

ESTIMATED PRODUCTION

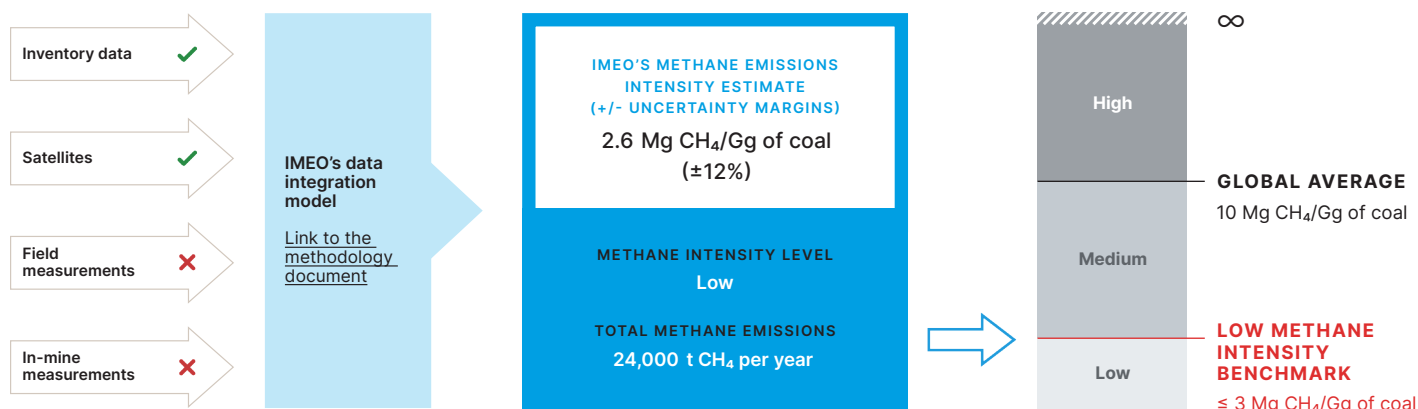
8.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

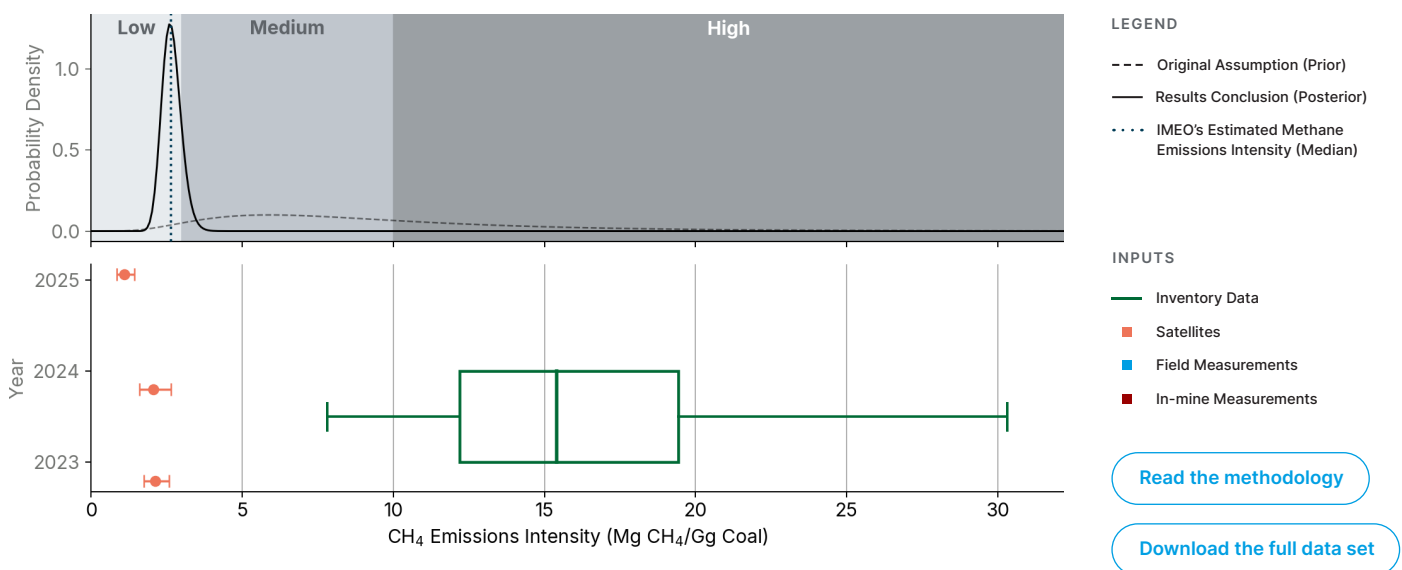
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XIAOJIAWA COAL MINE



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	2023	2.2	20%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2.1	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.1	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	101%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

LONGQUAN COAL MINE

LOCATION (LAT., LON.)

38.1723, 111.7731

GEM MINE ID

M1169

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

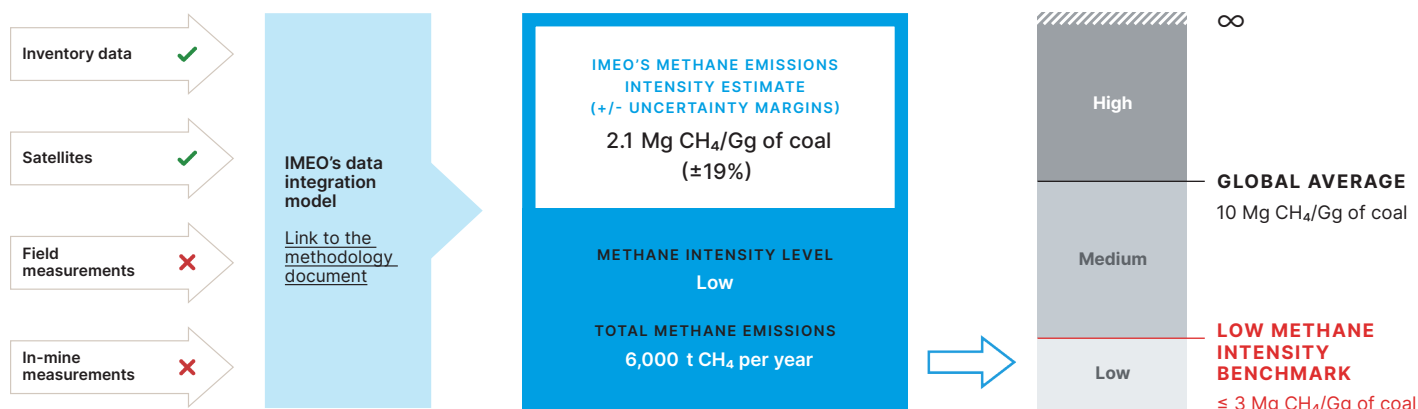
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

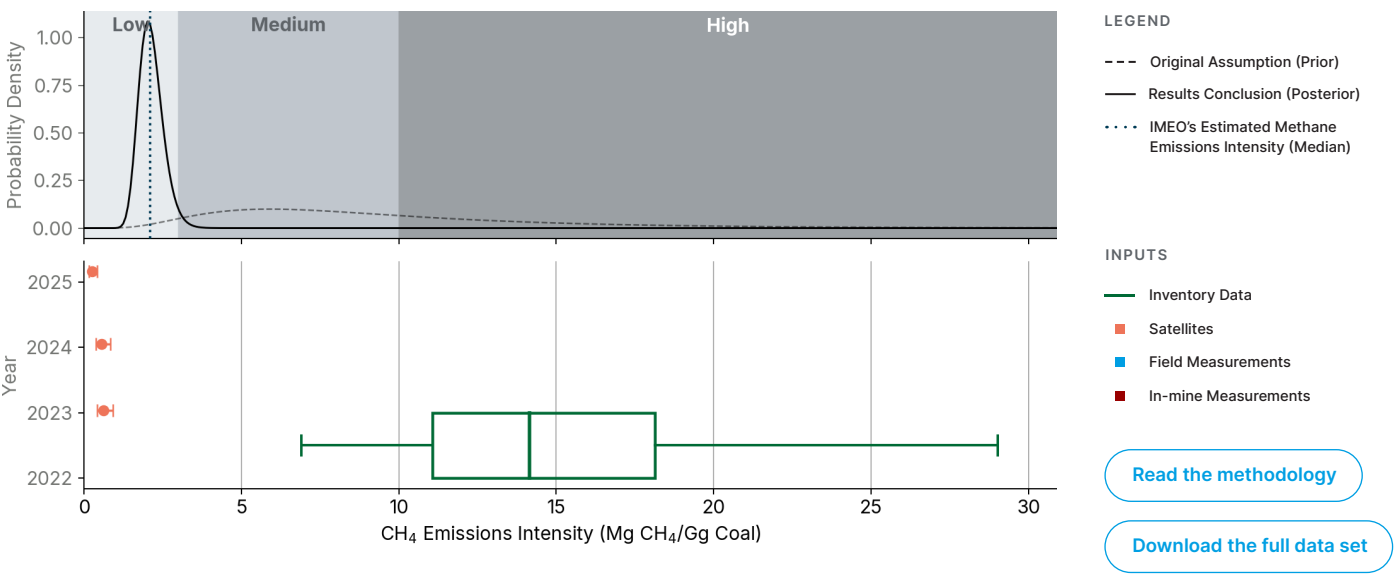
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 LONGQUAN COAL MINE



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	2023	0.7	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2024	0.6	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.3	55%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	120%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	122%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TUNLAN COAL MINE

LOCATION (LAT., LON.)

37.9001, 112.109

GEM MINE ID

M1215

MINING TYPE

Underground

COAL GRADE

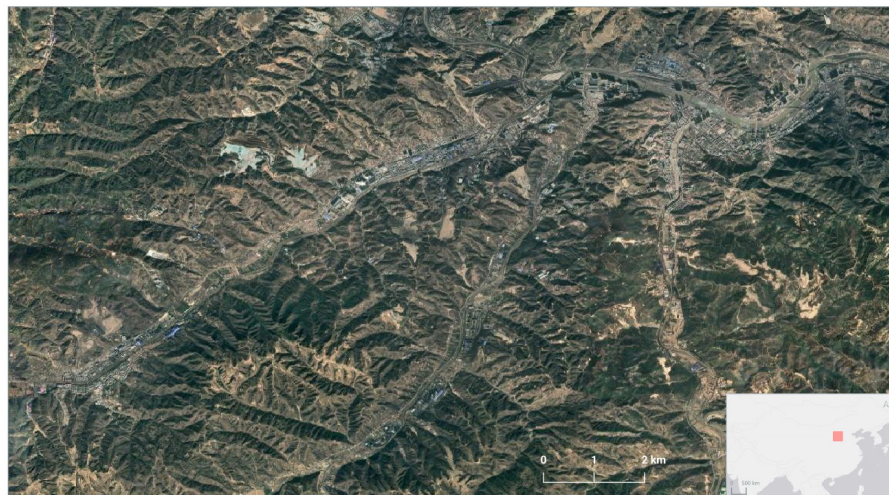
Metallurgical

ESTIMATED PRODUCTION

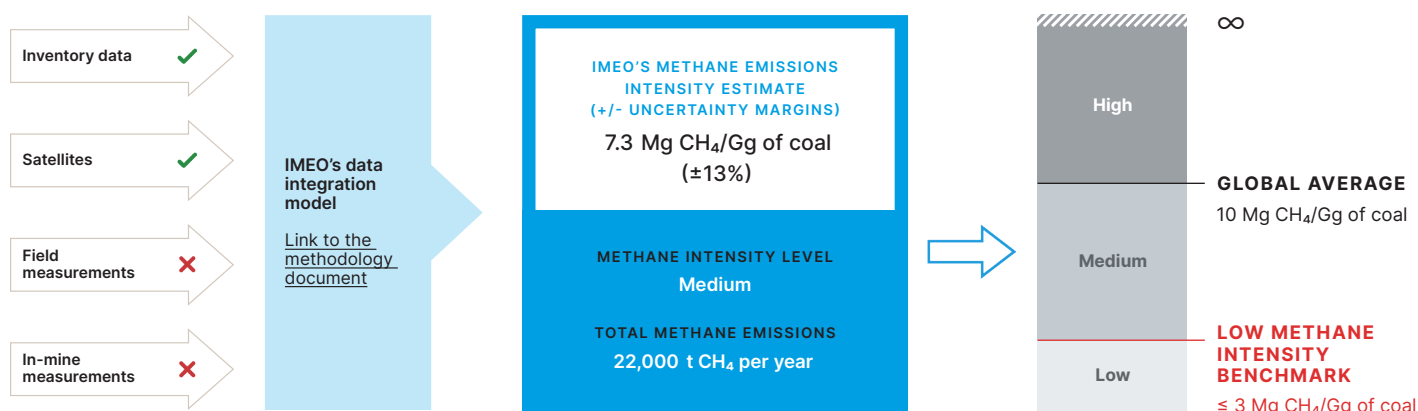
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

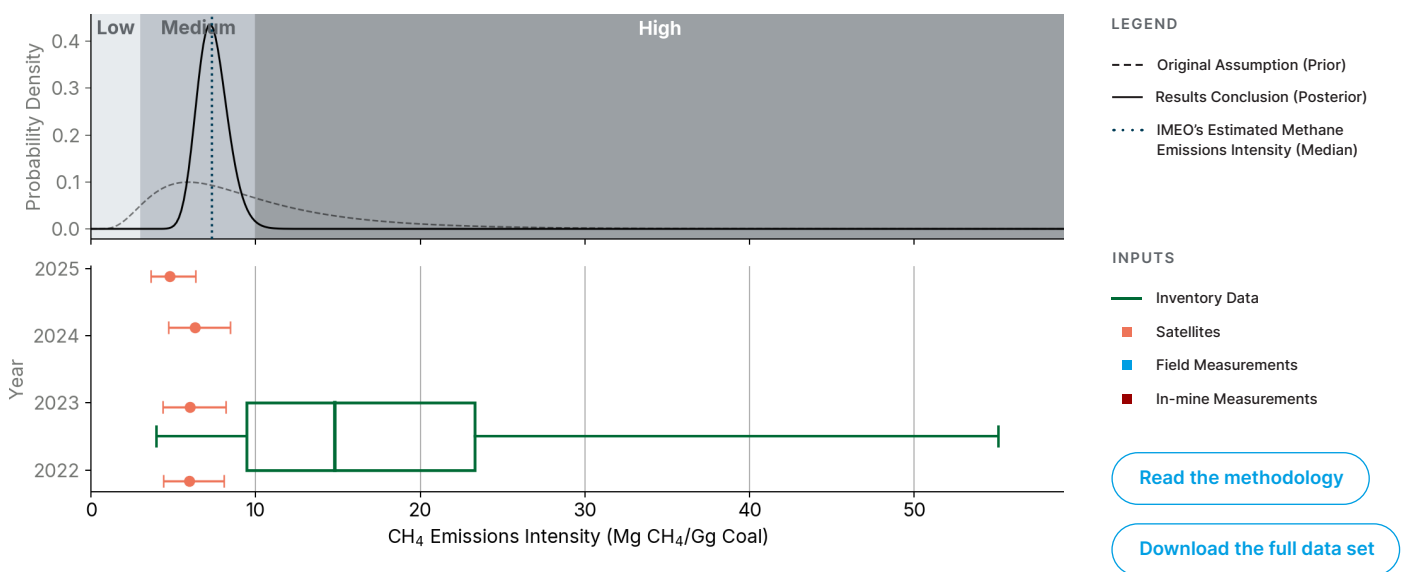
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TUNLAN COAL MINE



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	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	7	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	6	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	6	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	125%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	128%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	266%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	275%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	329%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	332%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	336%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	368%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

DONGQU COAL MINE

LOCATION (LAT., LON.)

37.9095, 112.192

GEM MINE ID

M1118

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

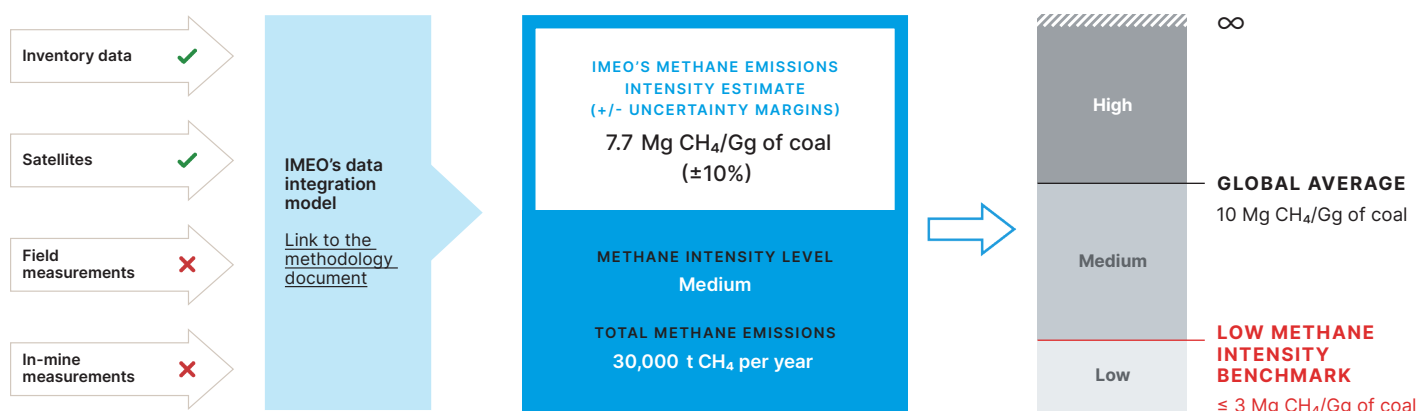
3.8 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

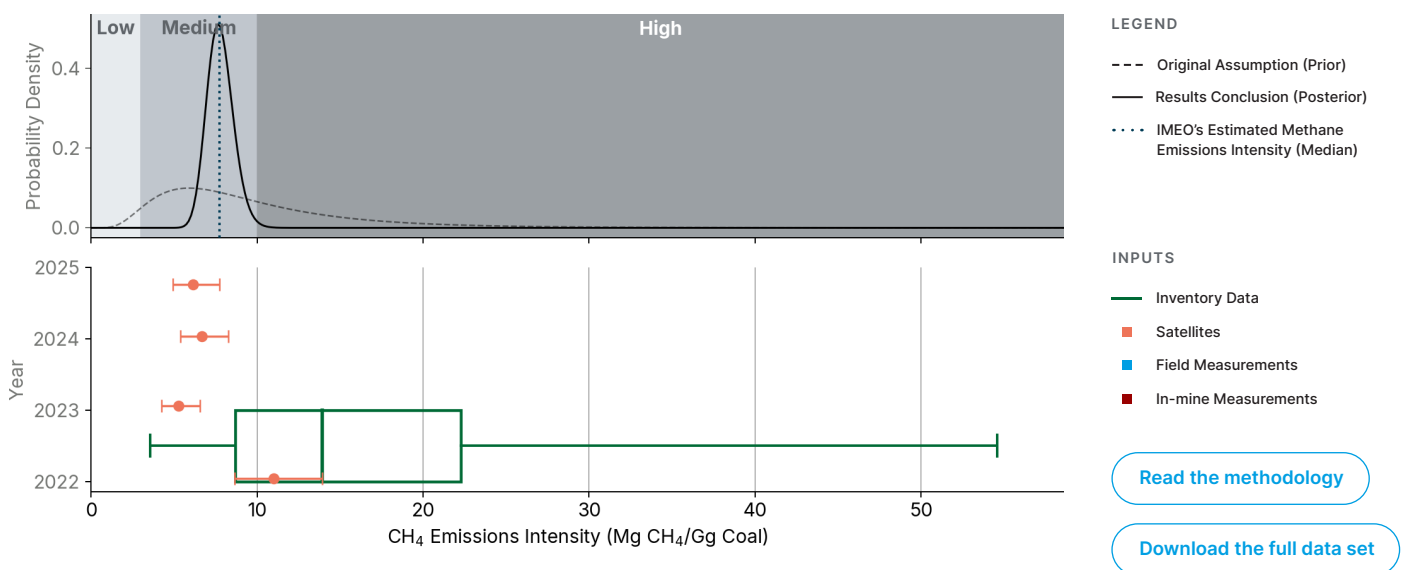
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DONGQU COAL MINE



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	2024	7	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	5	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	6	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	11	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	125%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	30	234%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	234%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	275%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	3	323%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	330%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	333%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	439%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

YAOZHIDA COAL MINE

LOCATION (LAT., LON.) 35.9776, 112.9095

GEM MINE ID

M2263

MINING TYPE

Underground

COAL GRADE

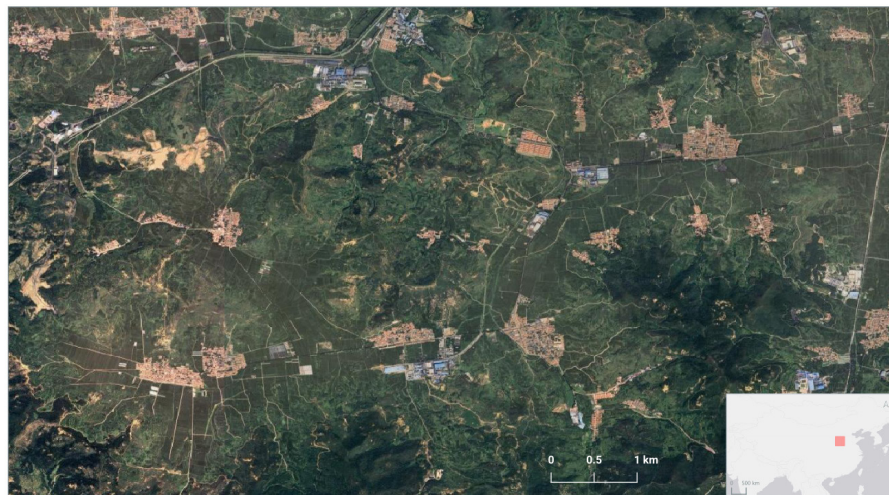
Thermal & Metallurgical

ESTIMATED PRODUCTION

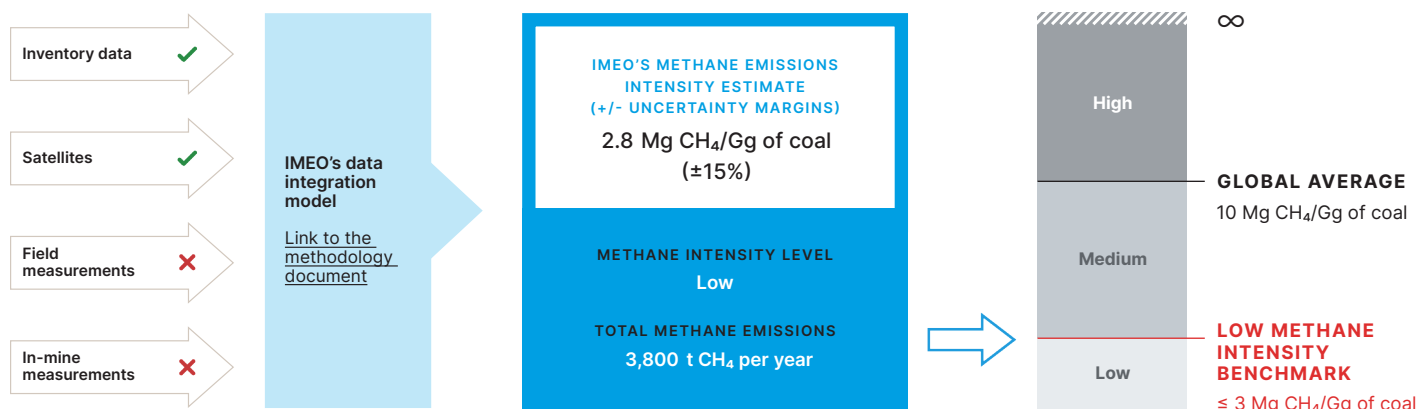
1.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

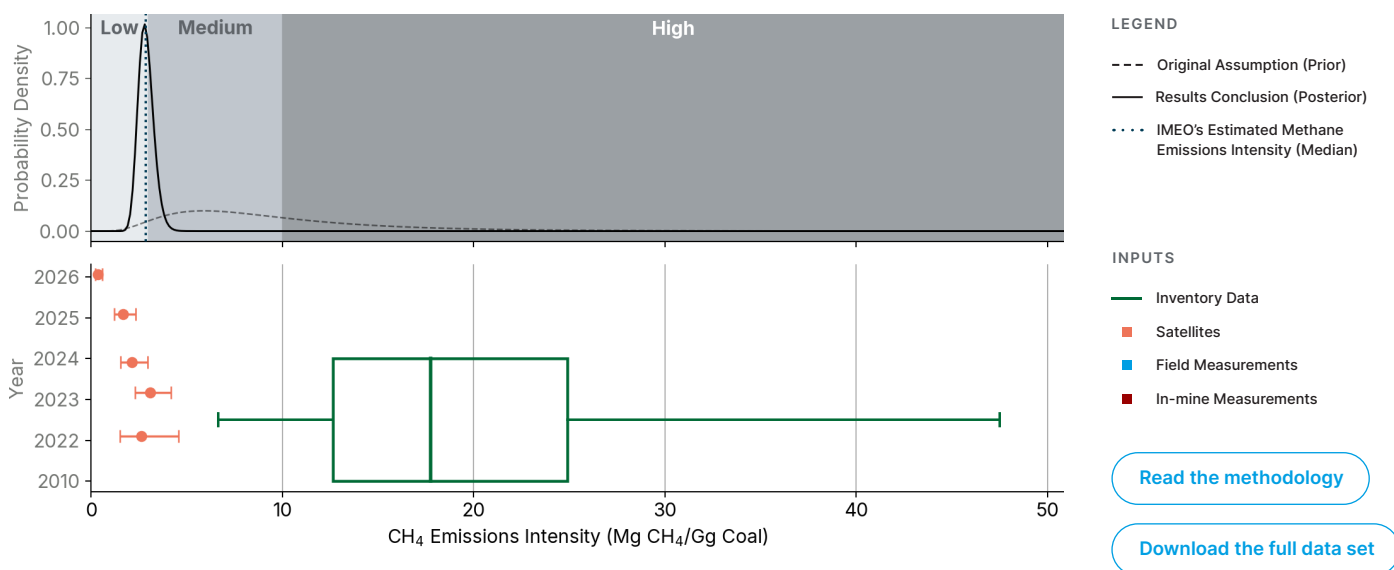
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 YAOZHIDA COAL MINE



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	2023	3	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.8	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2.2	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.4	56%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	3	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	121%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	126%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	136%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	140%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	152%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	179%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2010	10	189%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2022	10	197%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	200%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	20	221%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

MALAN COAL MINE

LOCATION (LAT., LON.) 37.8582, 112.0402

GEM MINE ID

M1176

MINING TYPE

Underground

COAL GRADE

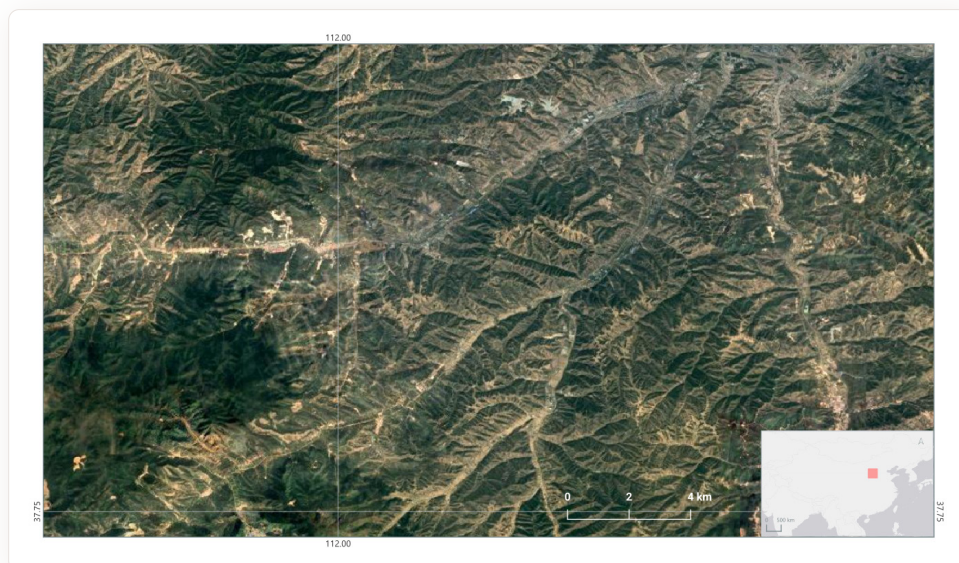
Metallurgical

ESTIMATED PRODUCTION

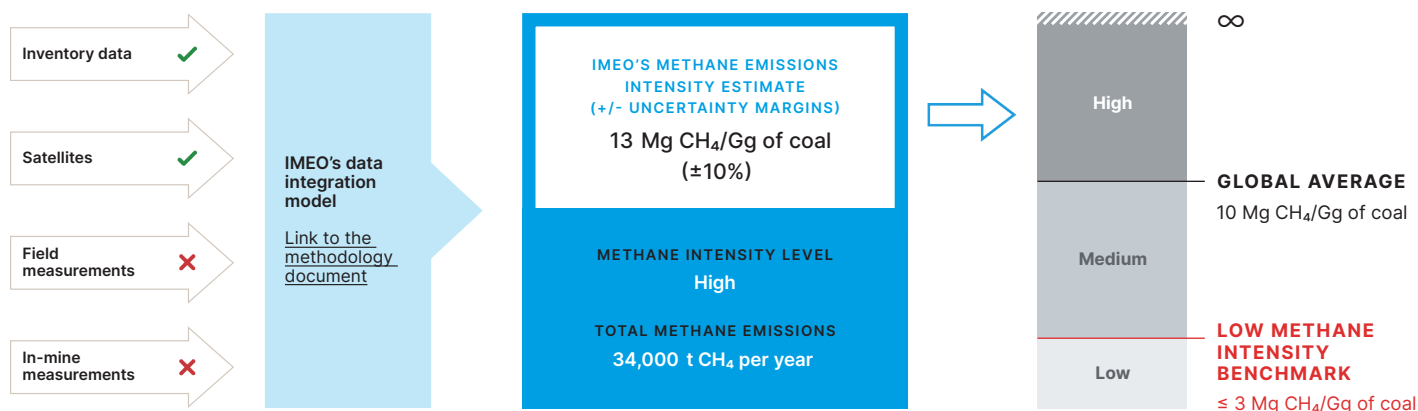
2.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

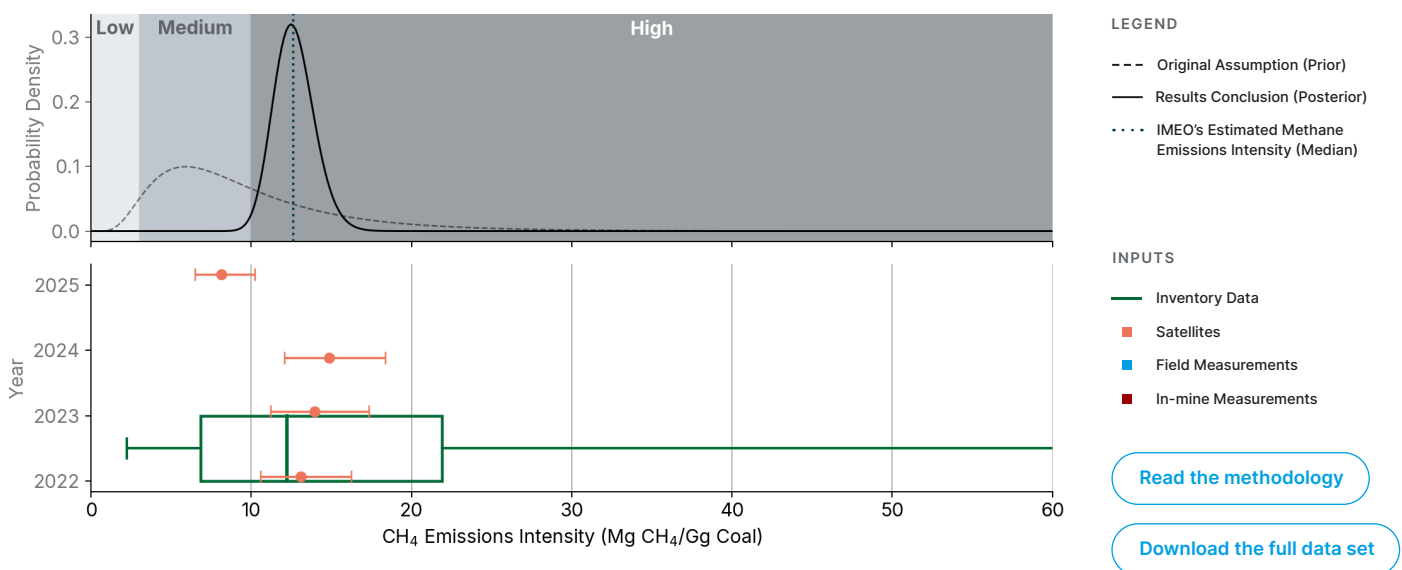
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 MALAN COAL MINE



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	2024	15	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	13	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	14	22%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	8	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	30	128%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	183%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	30	234%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	275%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	337%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	406%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	448%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	513%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	644%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

MALIANTAI COAL MINE

LOCATION (LAT., LON.) 38.2686, 106.5534

GEM MINE ID

M1177

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

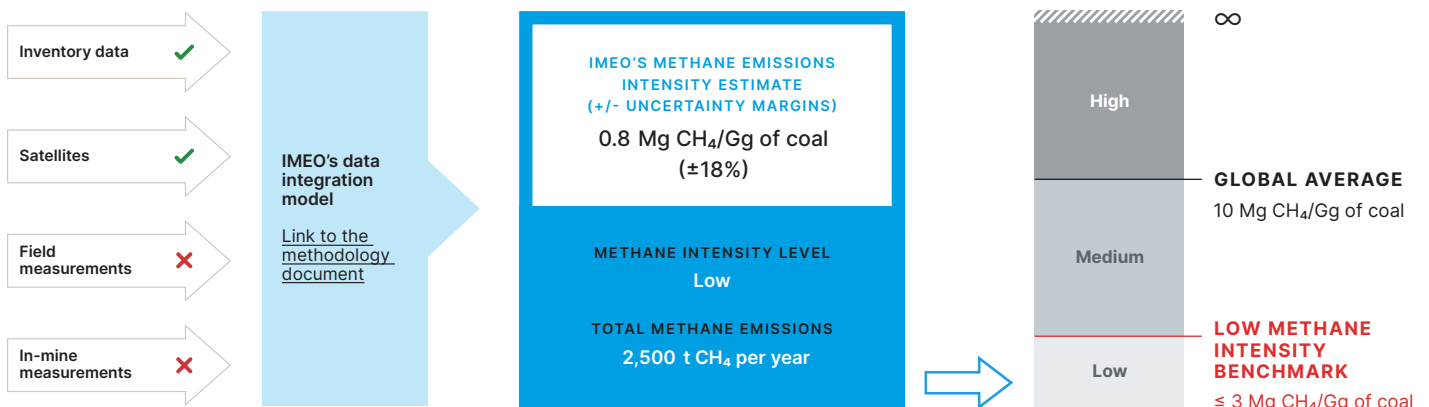
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

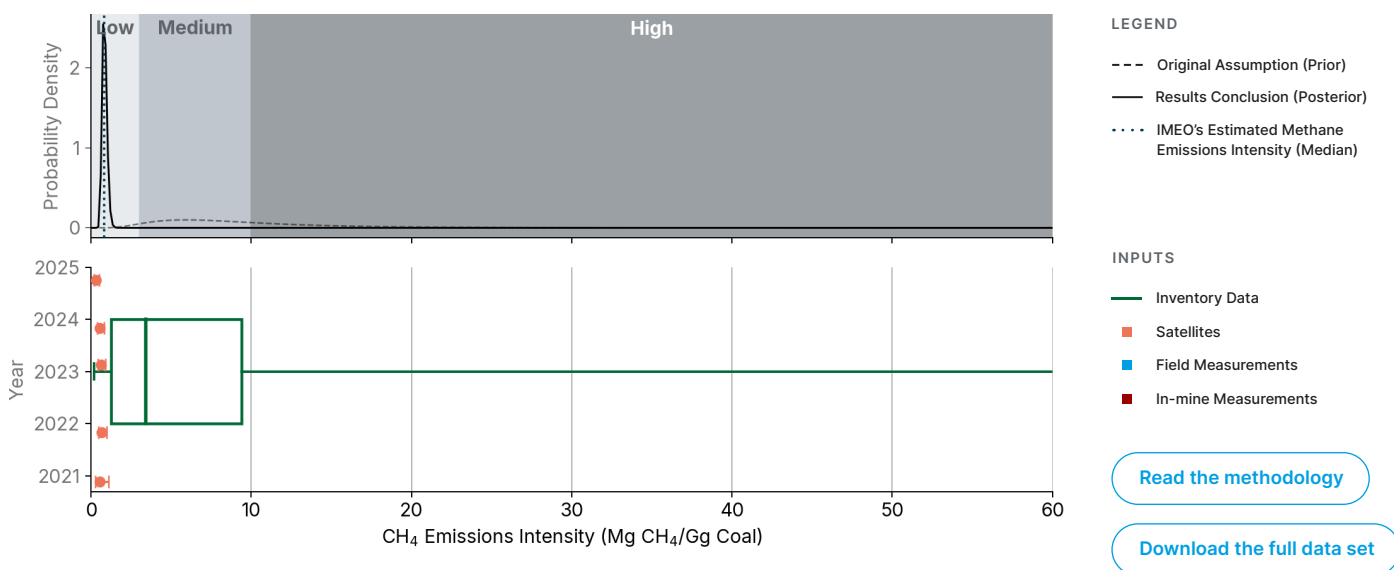
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 MALIANTAI COAL MINE



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	2023	0.7	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	0.7	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.6	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.4	48%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	0.7	82%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	20	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	129%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	0	724%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	0	908%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

TIAN'AN NO.4 COAL MINE

LOCATION (LAT., LON.)

33.7782, 113.266

GEM MINE ID

M2167

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

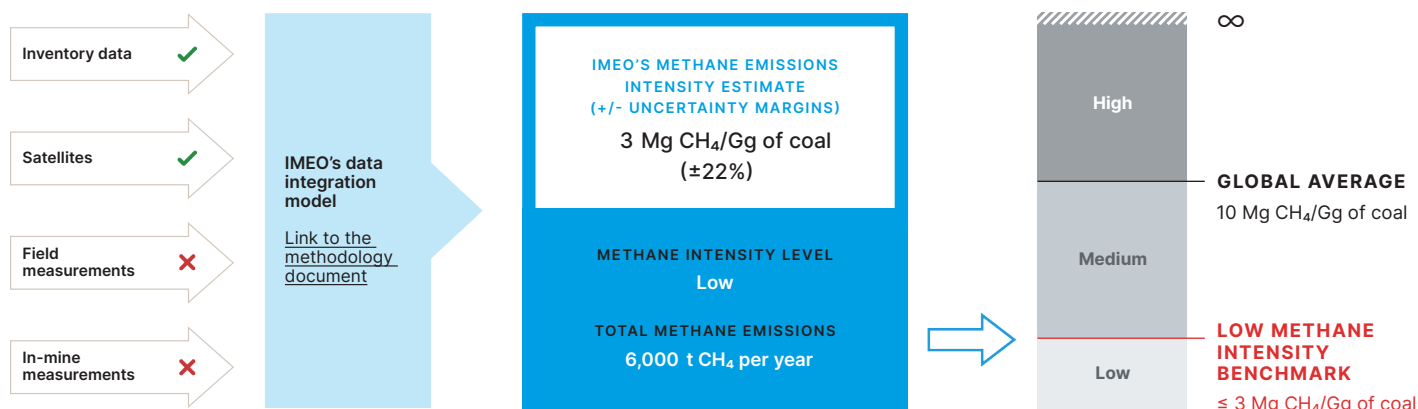
2 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

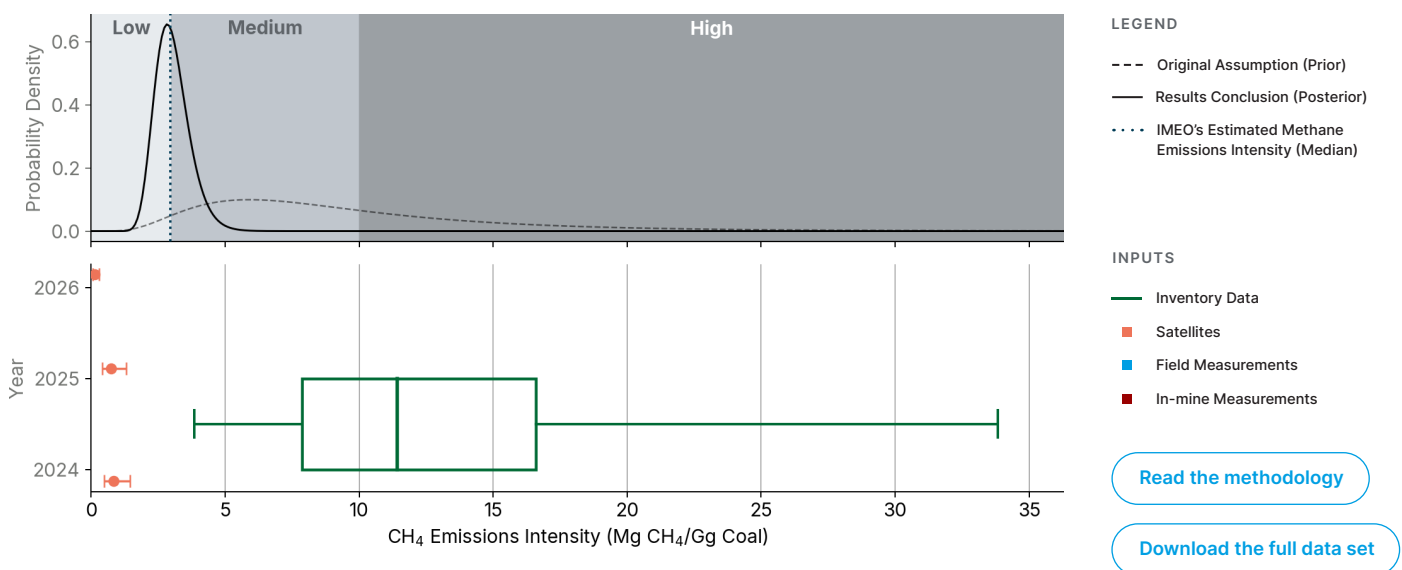
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIAN'AN NO.4 COAL MINE



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	2024	1	59%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2025	0.9	62%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.2	95%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	100%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	122%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	153%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	171%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	183%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	206%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	216%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	20	245%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	319%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	365%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

TIANAN NO. 6 COAL MINE

LOCATION (LAT., LON.) 33.7879, 113.2412

GEM MINE ID

M1209

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

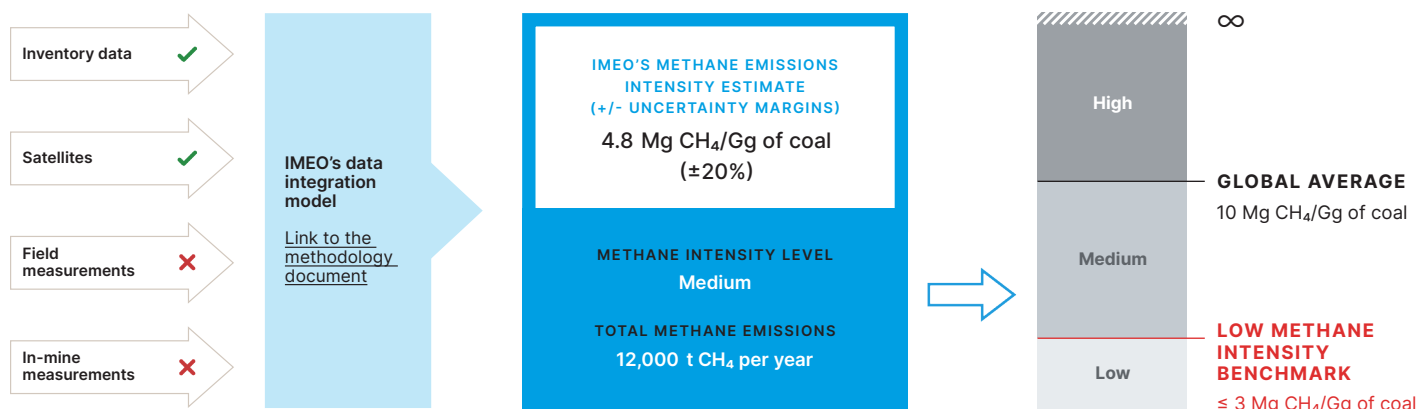
2.4 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

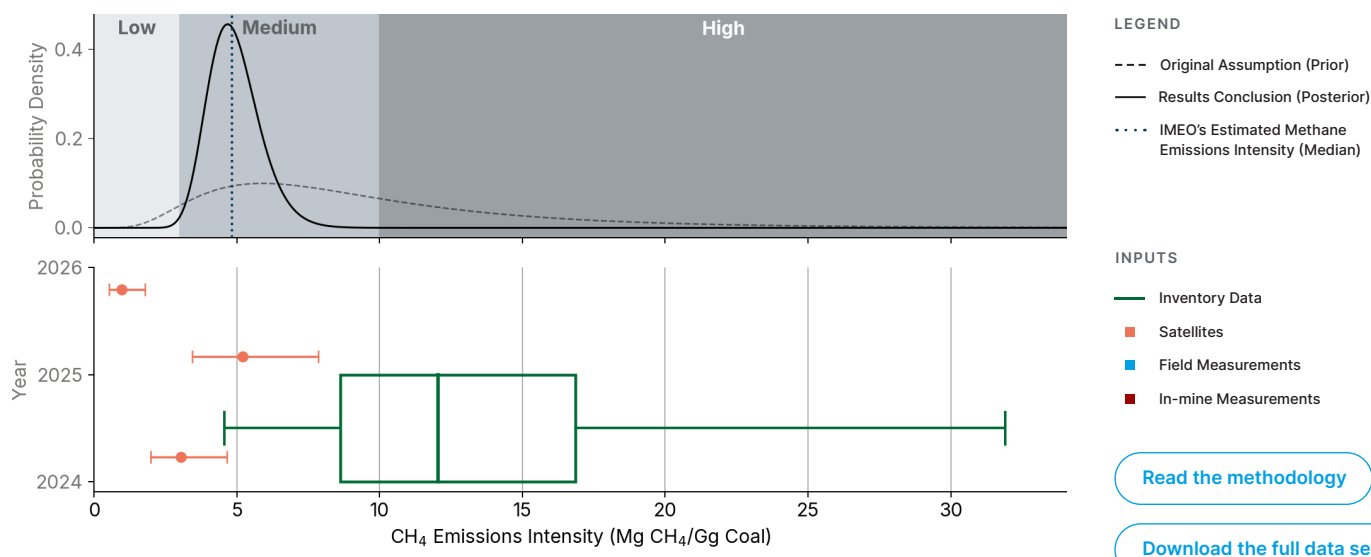
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIANAN NO. 6 COAL MINE



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	6	43%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	3	45%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	1.2	67%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	116%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	154%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	168%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	193%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	202%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	217%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	225%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	20	239%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	270%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

TIANAN NO. 1 COAL MINE

LOCATION (LAT., LON.) 33.7624, 113.3034

GEM MINE ID

M1208

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

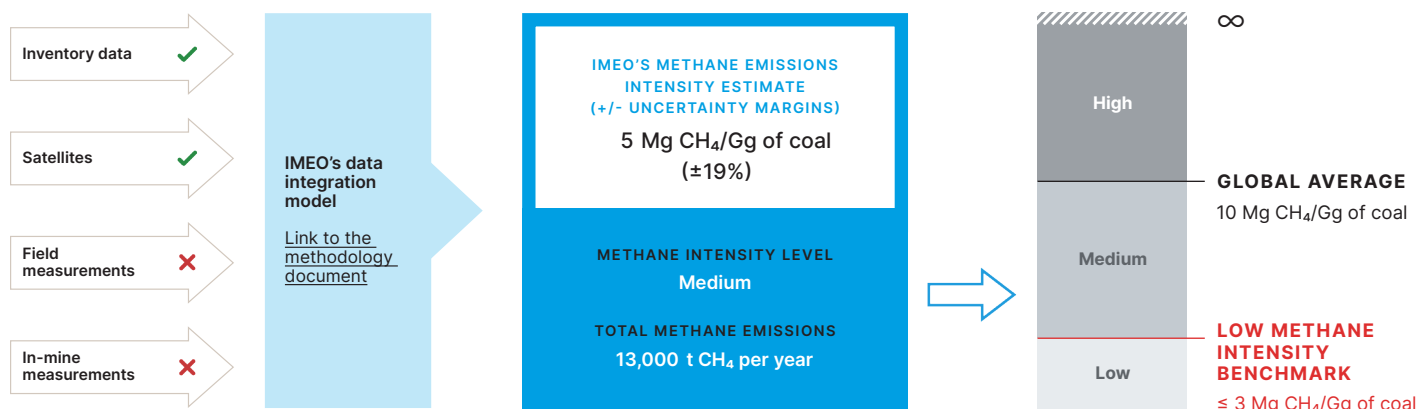
2.4 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

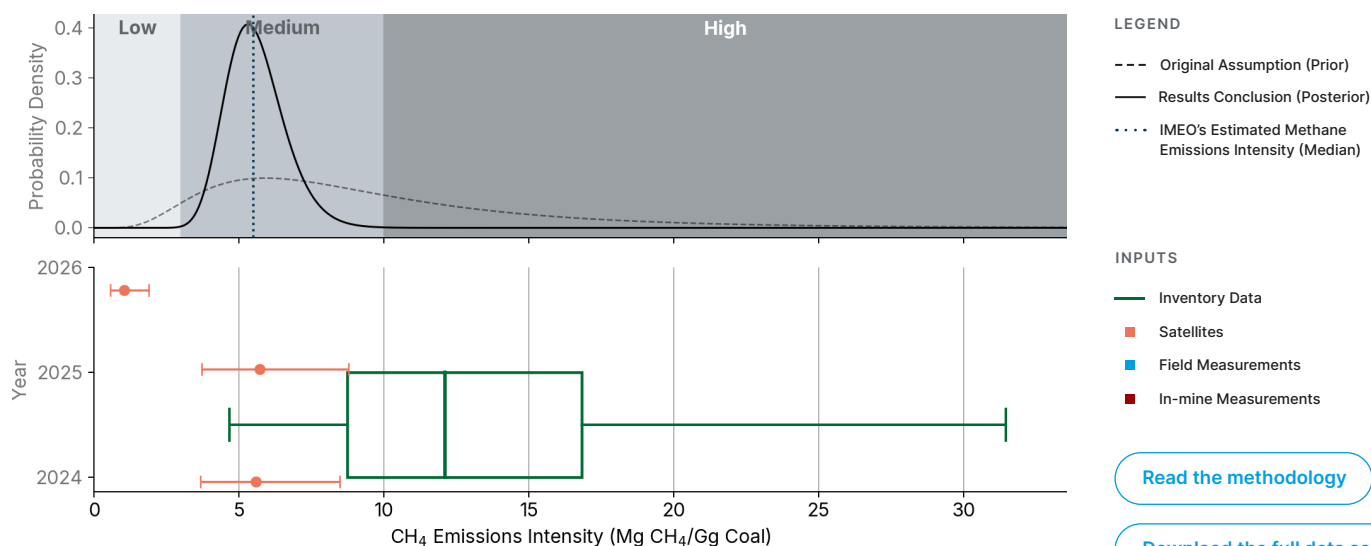
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIANAN NO. 1 COAL MINE



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	2024	6	44%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	6	45%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	1.2	66%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	116%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	168%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	172%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	179%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	202%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	211%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	217%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	239%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	20	246%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TIAN'AN NO.10 COAL MINE

LOCATION (LAT., LON.) 33.7598, 113.349

GEM MINE ID

M2162

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

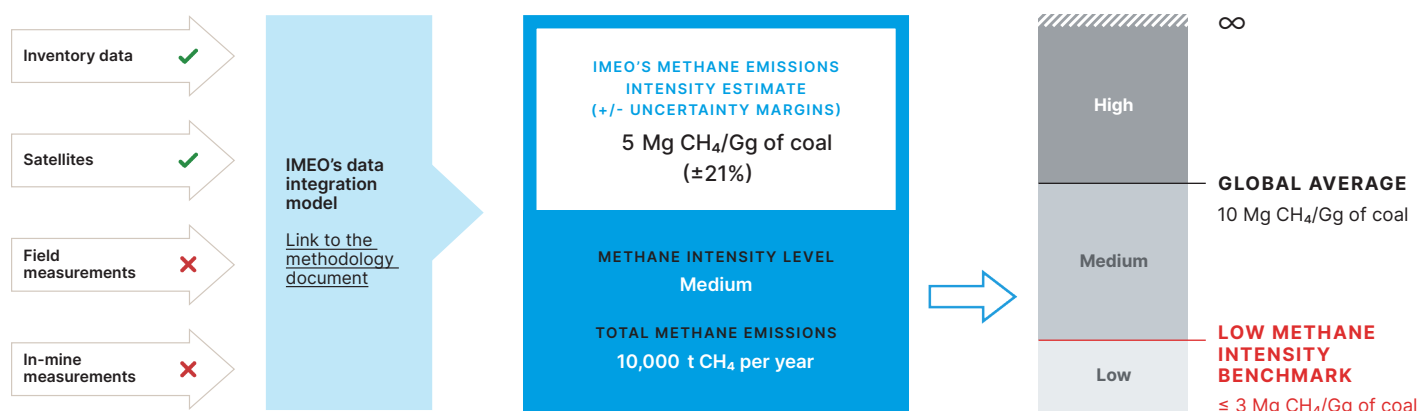
2 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

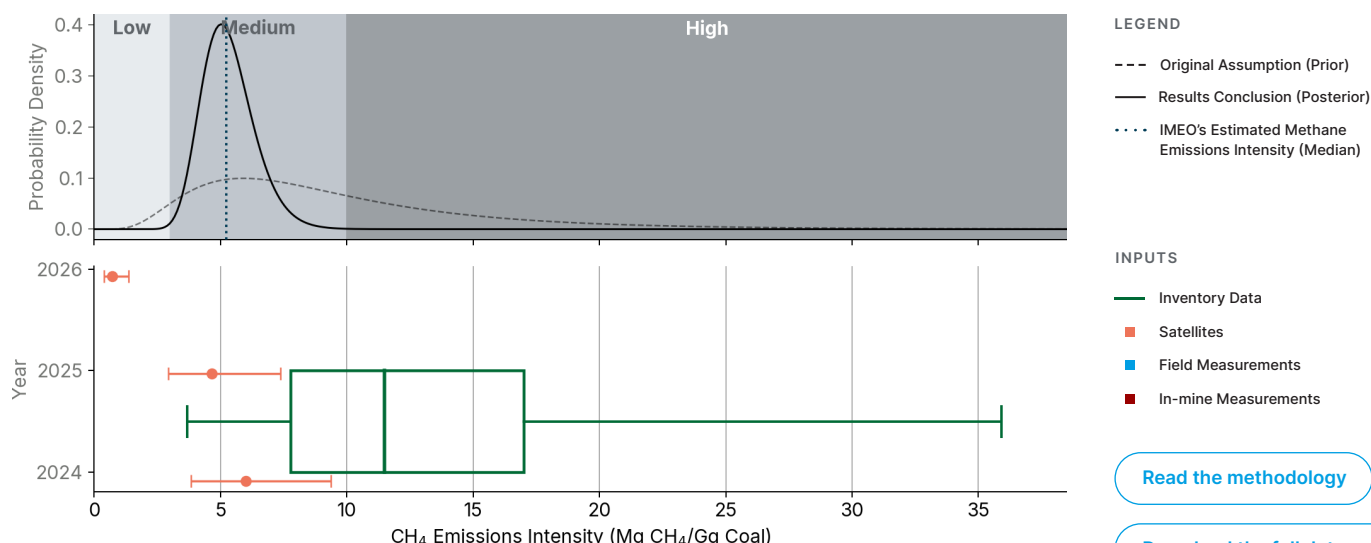
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIAN'AN NO.10 COAL MINE



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	2024	7	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	5	49%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	0.9	71%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	113%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	179%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	207%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	216%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	250%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	256%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	20	300%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	311%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	313%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

TIAN'AN NO.13 COAL MINE

LOCATION (LAT., LON.) 33.8814, 113.3801

GEM MINE ID

M2165

MINING TYPE

Underground

COAL GRADE

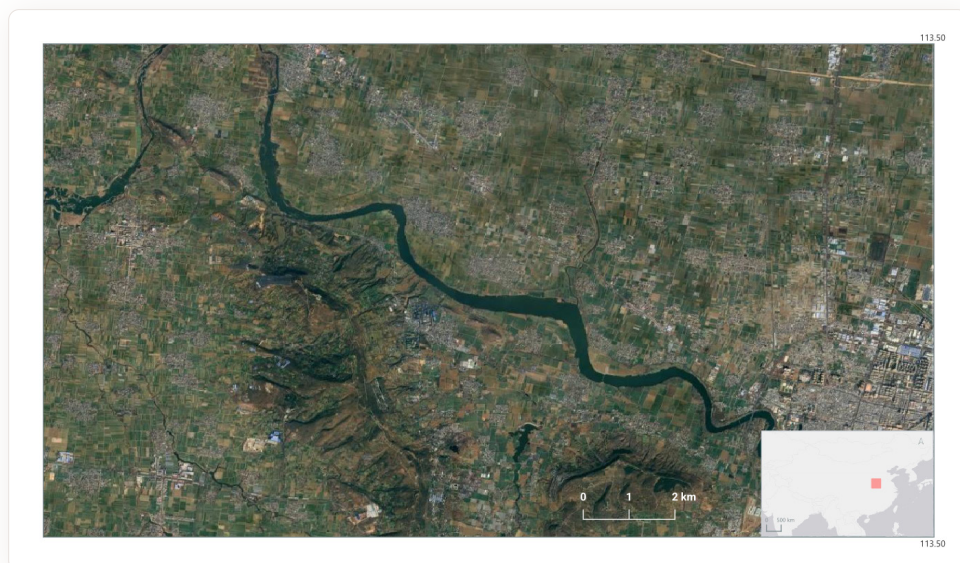
Metallurgical

ESTIMATED PRODUCTION

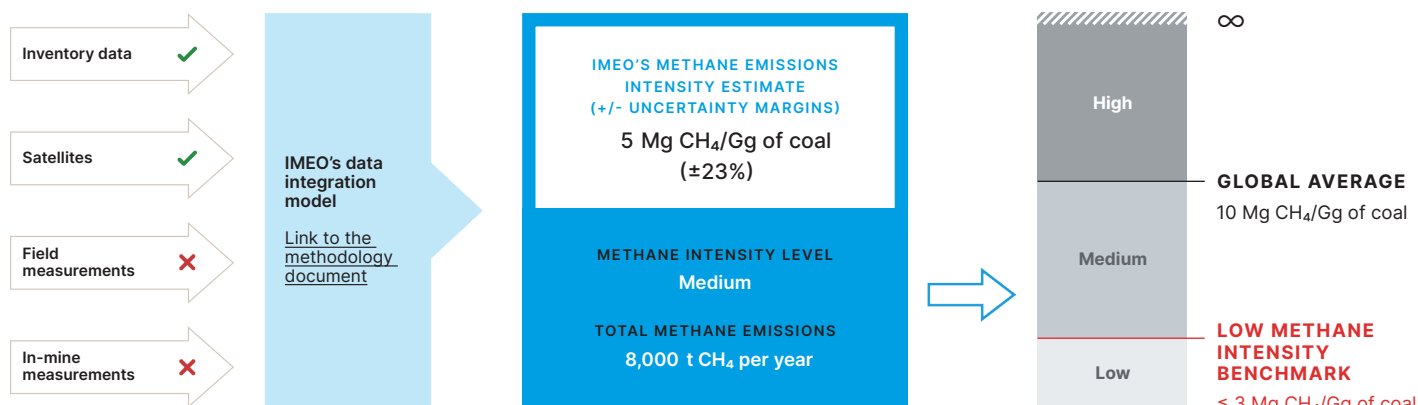
1.6 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

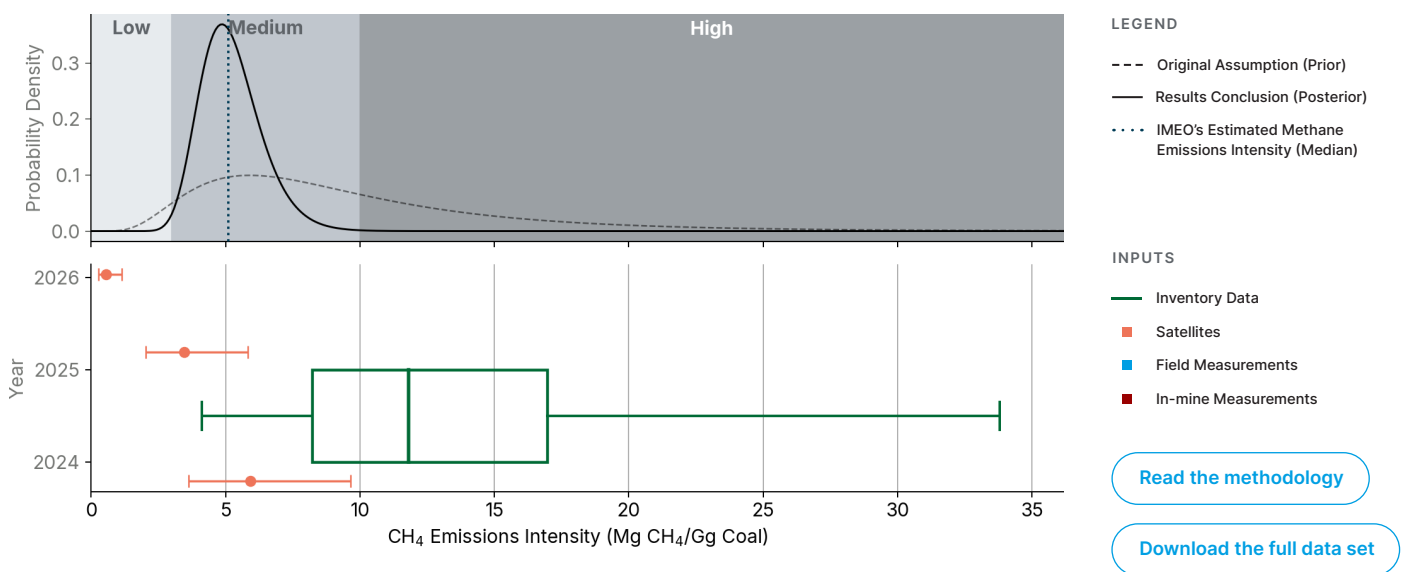
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIAN'AN NO.13 COAL MINE



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	2024	7	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	56%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	0.7	80%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	100%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	119%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	191%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	235%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	276%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

TIANAN NO. 8 COAL MINE

LOCATION (LAT., LON.) 33.7581, 113.4263

GEM MINE ID

M1210

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

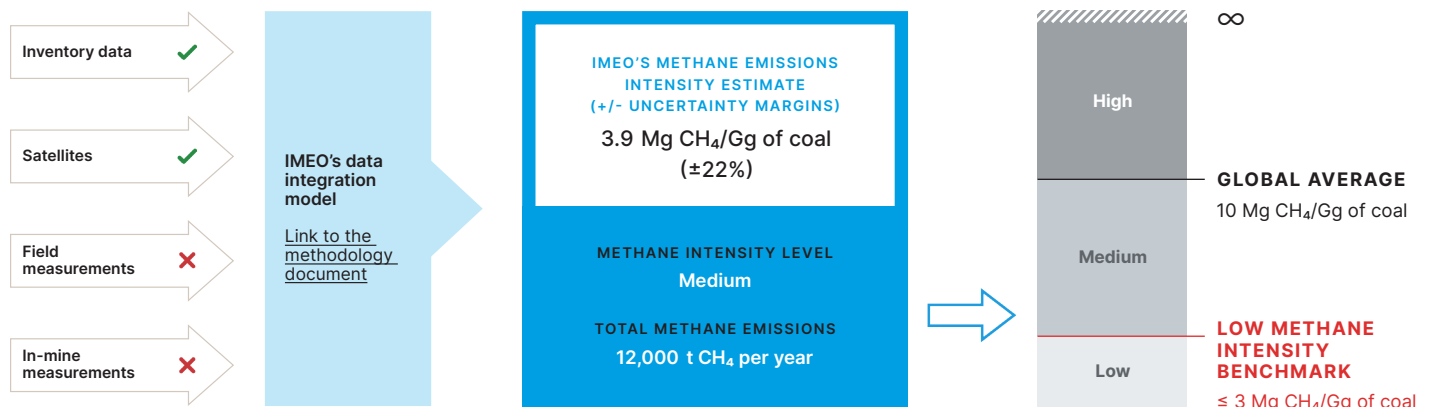
3 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

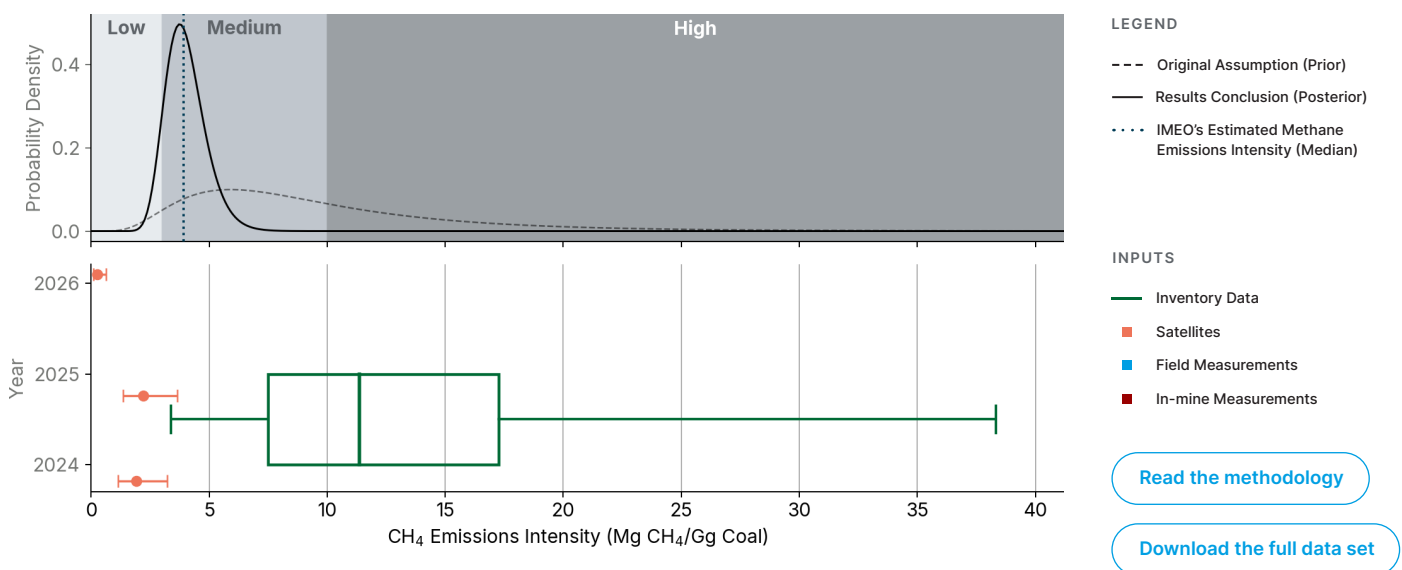
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIANAN NO. 8 COAL MINE



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	3	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	55%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2026	0.4	106%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	115%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	206%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	219%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	246%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	272%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	290%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	20	300%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	20	321%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	358%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

TIAN'AN NO.11 COAL MINE

LOCATION (LAT., LON.)

33.8131, 113.1732

GEM MINE ID

M2163

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

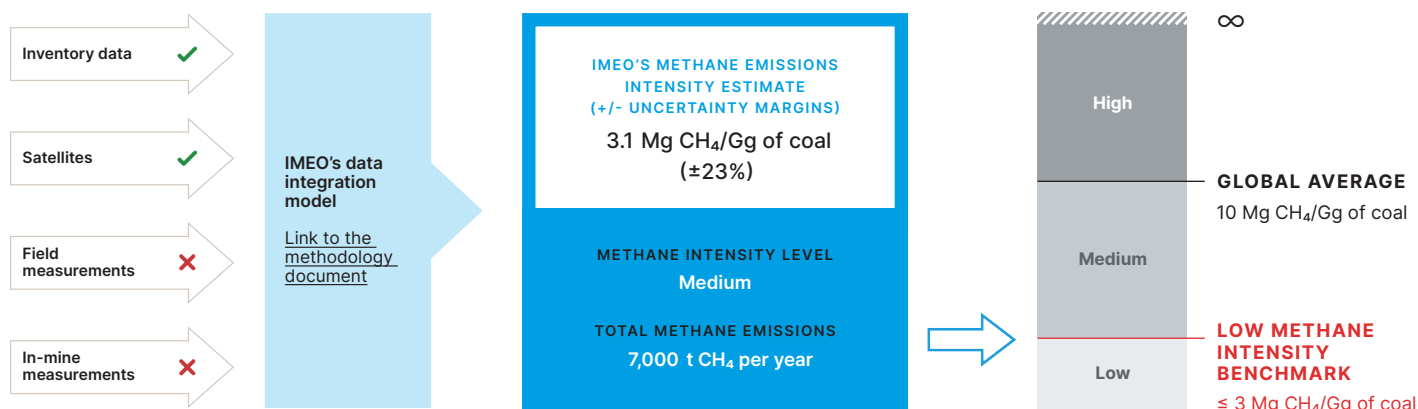
2.2 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

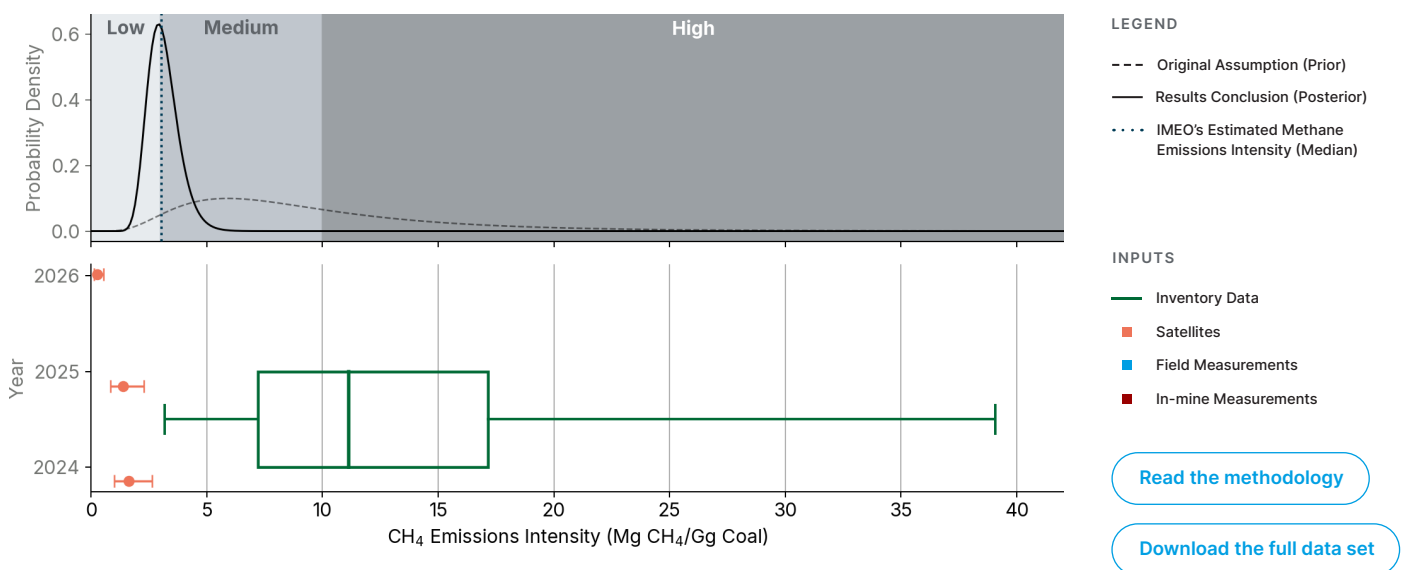
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIAN'AN NO.11 COAL MINE



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	2024	1.8	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.6	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Satellite	2026	0.3	76%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	100%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	112%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	224%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	274%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	329%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	365%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

QIANJIAYING COAL MINE

LOCATION (LAT., LON.)

39.599, 118.3647

GEM MINE ID

M0307

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

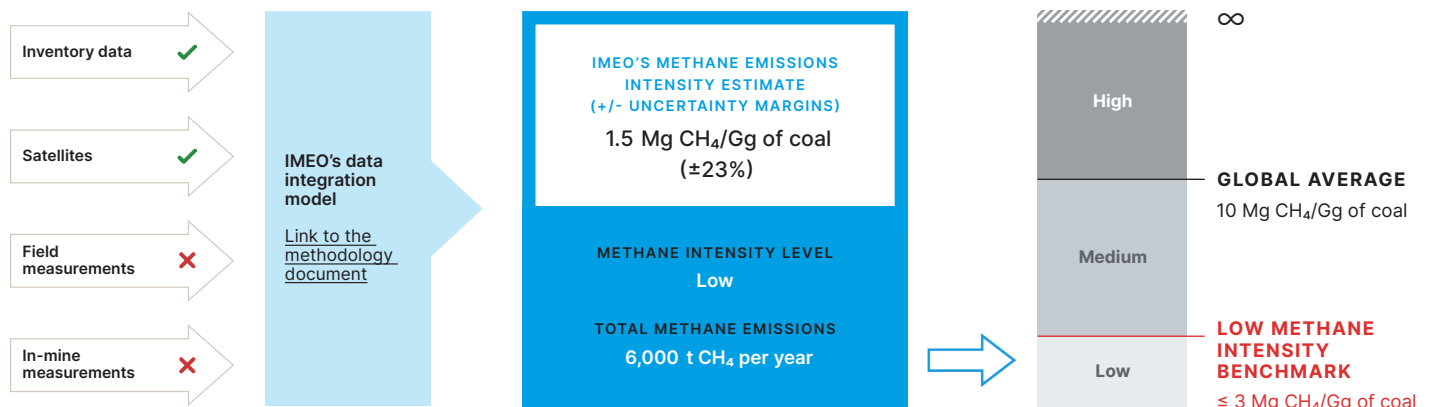
4.1 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

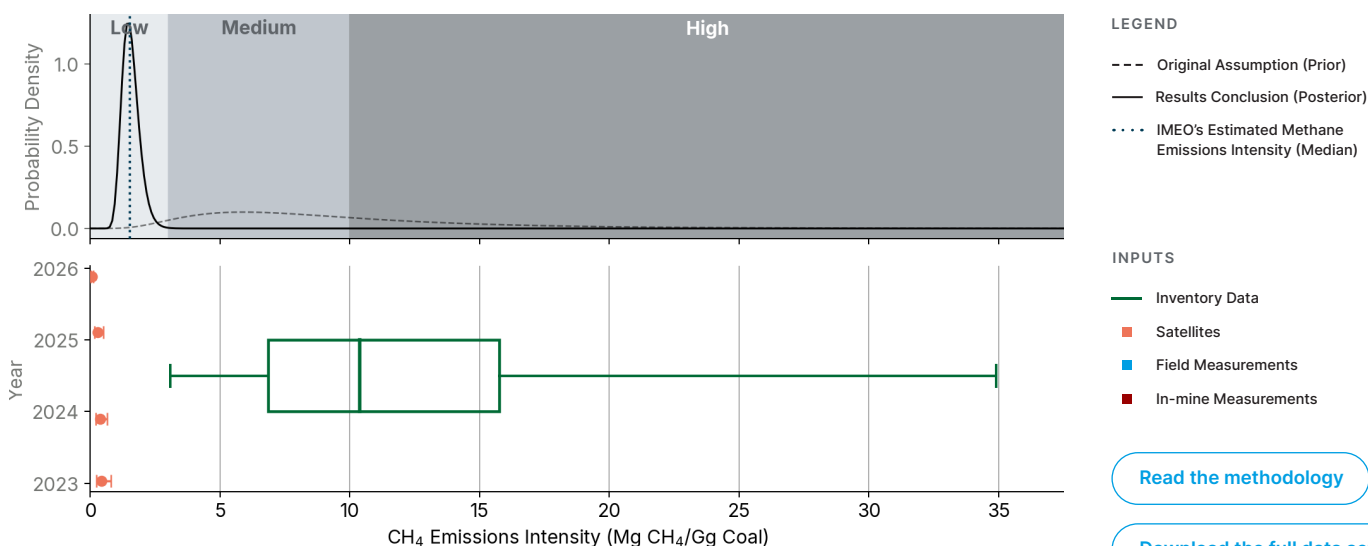
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 QIANJIAYING COAL MINE



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	2024	13	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2025	0.3	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.4	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	0.5	63%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.08	96%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	101%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	133%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	139%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	3	250%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	256%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	284%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	343%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DONGPANG COAL MINE

LOCATION (LAT., LON.) 37.2432, 114.4611

GEM MINE ID

M1117

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

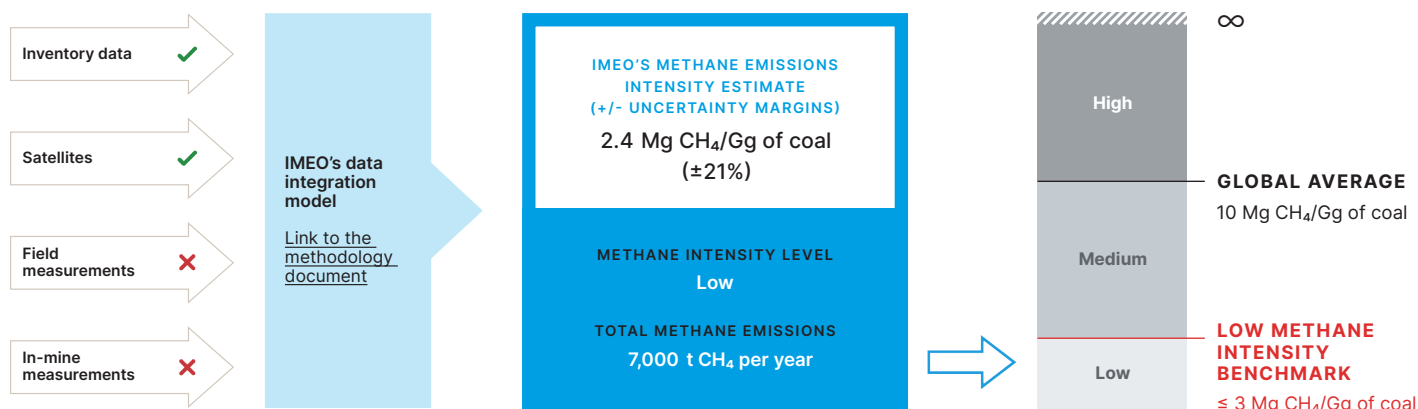
2.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

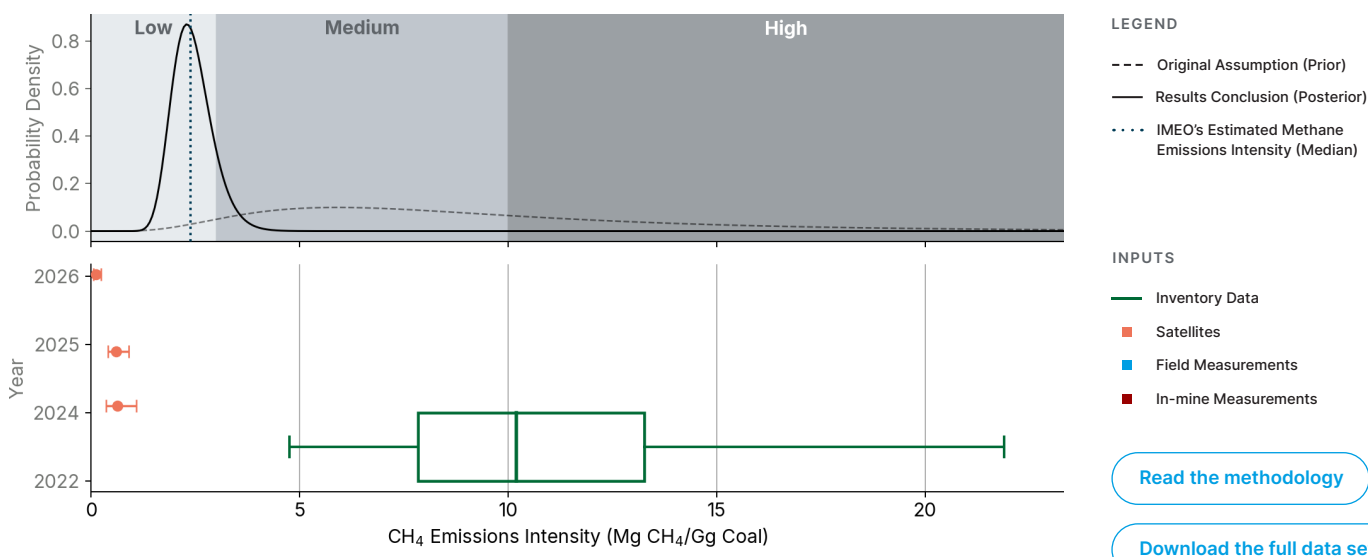
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DONGPANG COAL MINE



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	2022	13	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2025	0.7	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.7	59%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	13	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Satellite	2026	0.2	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	125%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	6	137%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

JINING COAL MINE

LOCATION (LAT., LON.)

35.802, 110.581

GEM MINE ID

M1152

MINING TYPE

Underground

COAL GRADE

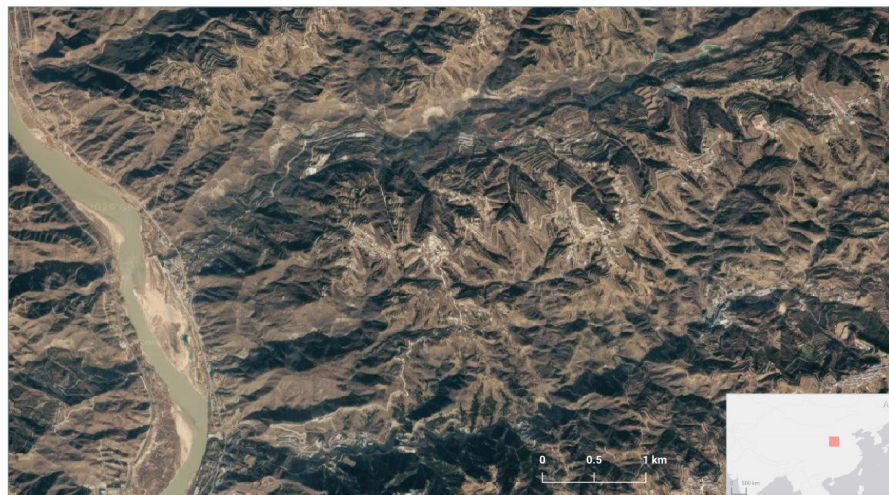
Metallurgical

ESTIMATED PRODUCTION

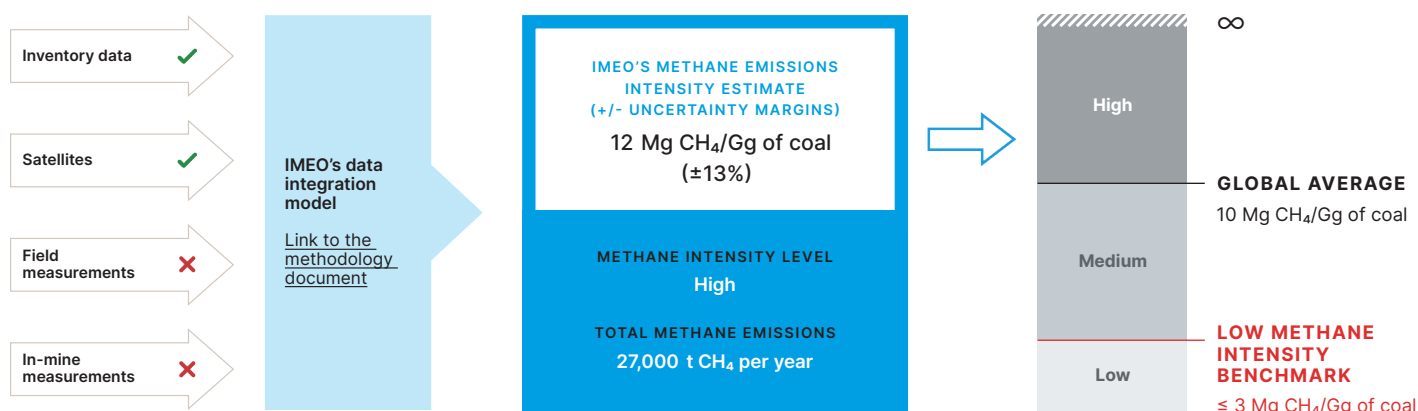
2.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

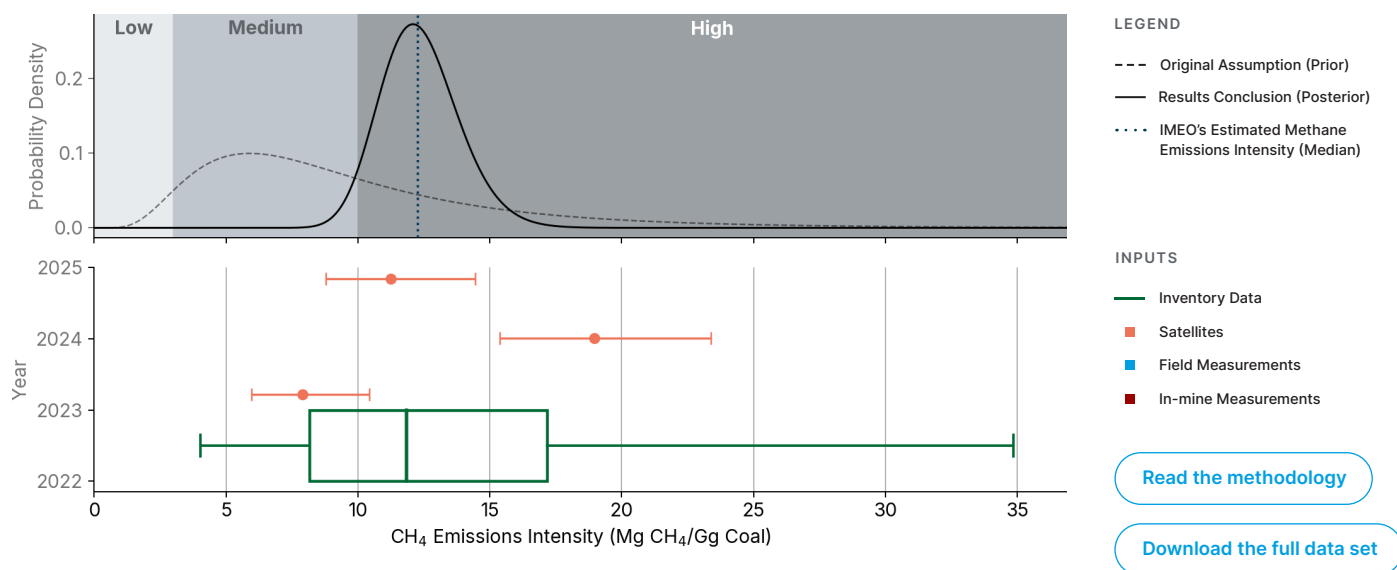
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 JINING COAL MINE



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	2024	19	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	12	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	8	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	16	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2022	20	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	112%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	141%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	7	147%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	153%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	235%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	236%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	399%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

PANGPANGTA COAL MINE

LOCATION (LAT., LON.) 37.9988, 111.1384

GEM MINE ID

M0305

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

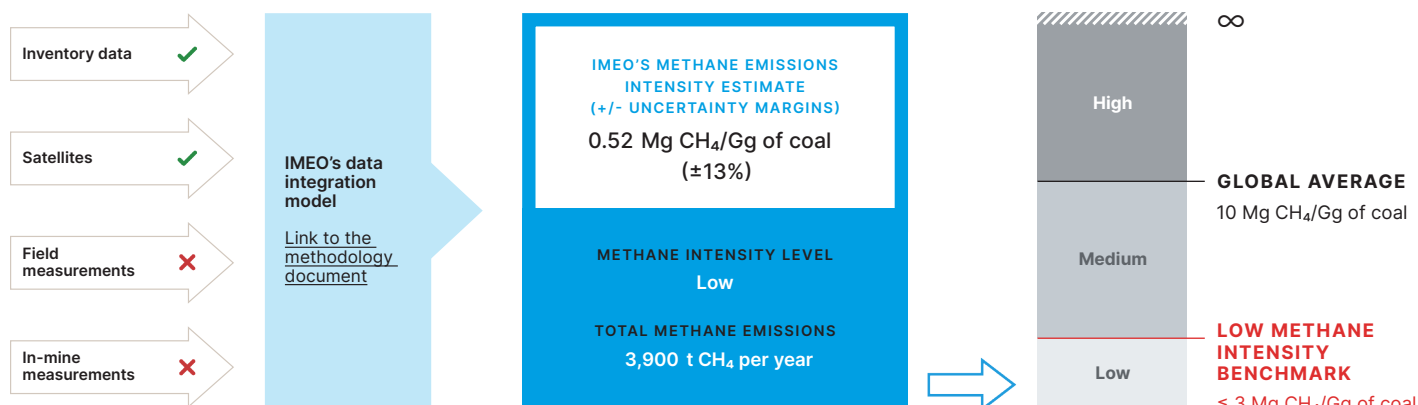
7.4 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

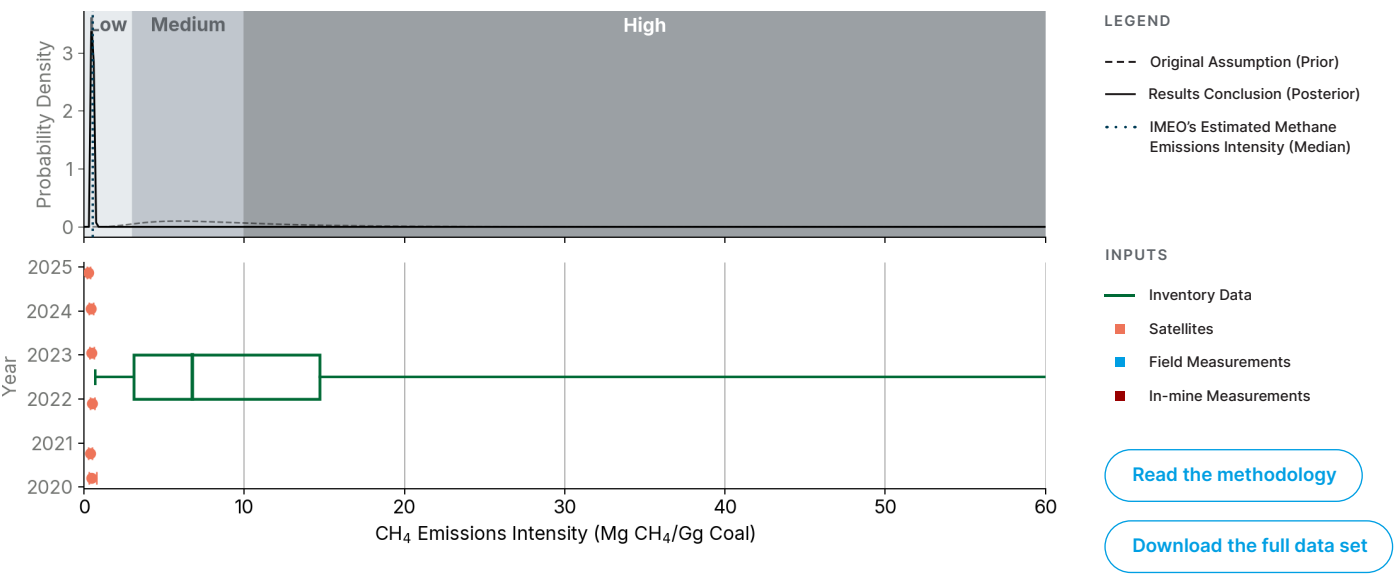
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 PANGPANGTA COAL MINE



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	2021	0.4	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	0.5	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	0.5	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.4	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.3	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	0.5	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	142%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	151%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	0	453%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

WANGTIAN COAL MINE

LOCATION (LAT., LON.)

38.9946, 111.125

GEM MINE ID

M2191

MINING TYPE

Underground

COAL GRADE

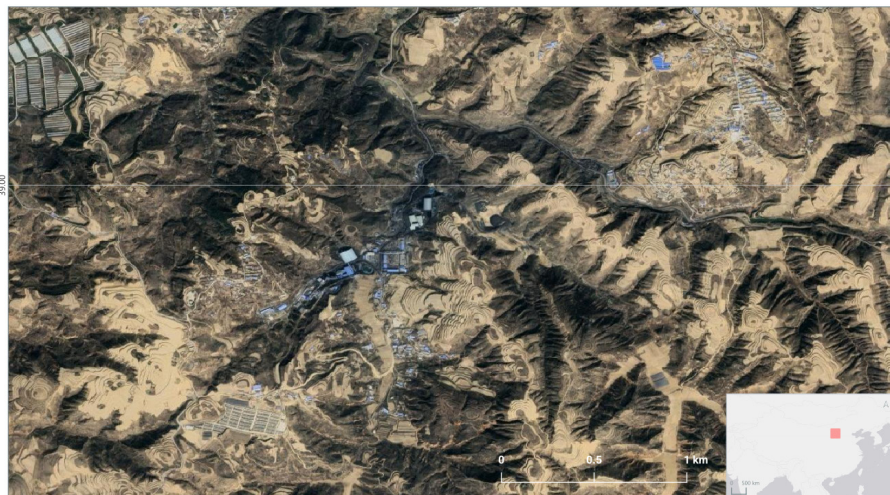
Thermal & Metallurgical

ESTIMATED PRODUCTION

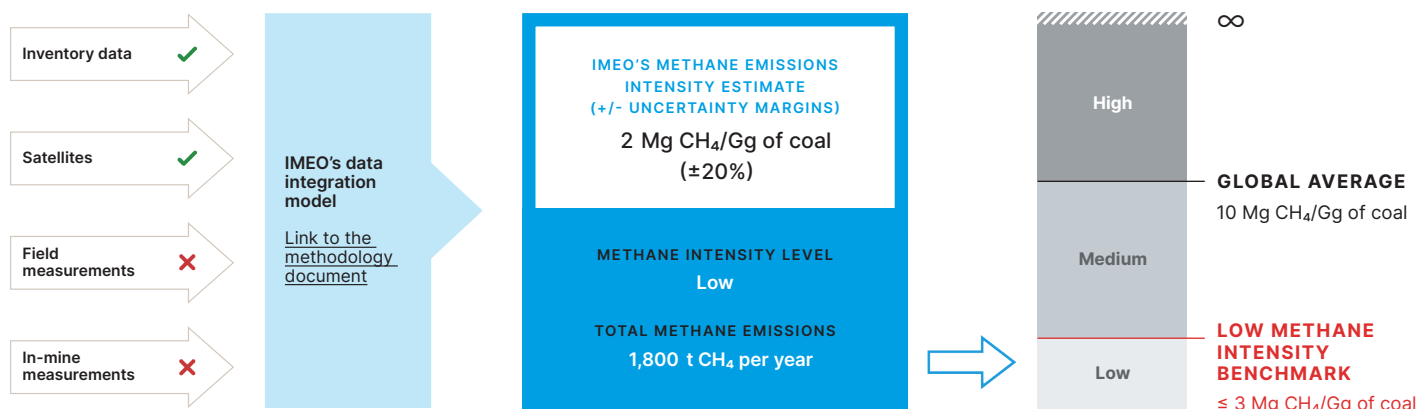
0.9 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

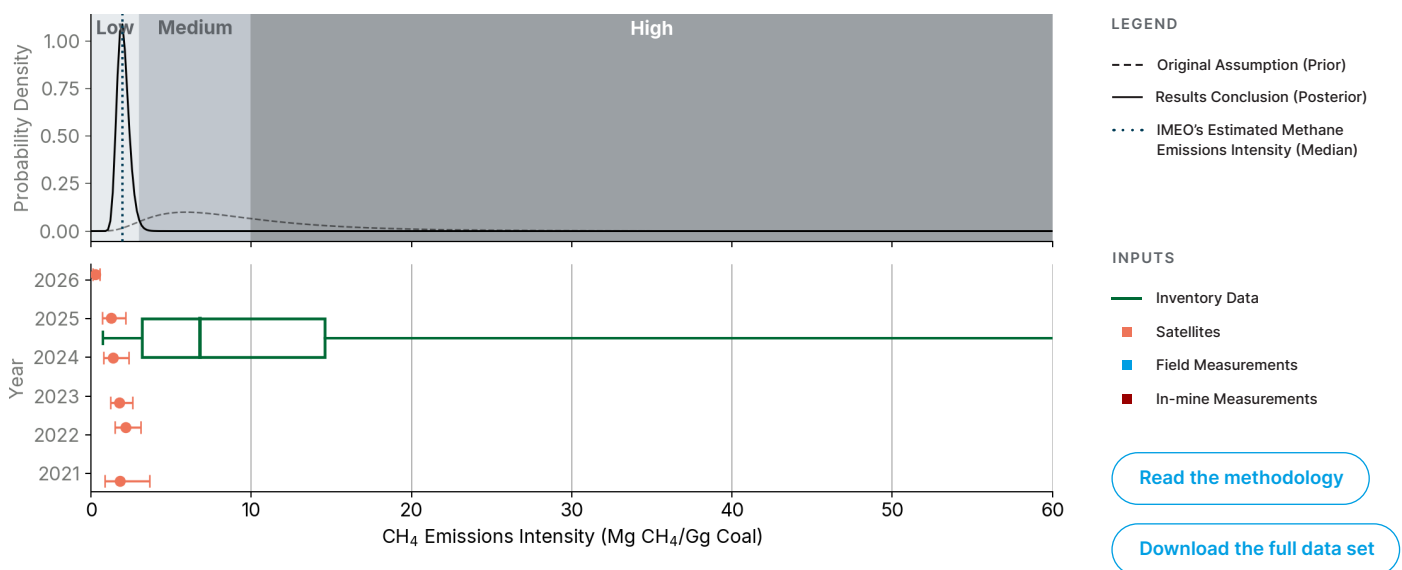
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 WANGTIAN COAL MINE



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	2022	2.3	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	1.9	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.6	60%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.4	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	2	82%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.3	94%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	155%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	164%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	0	428%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

TUCHENG COAL MINE

LOCATION (LAT., LON.) 26.0565, 104.5032

GEM MINE ID

M2177

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

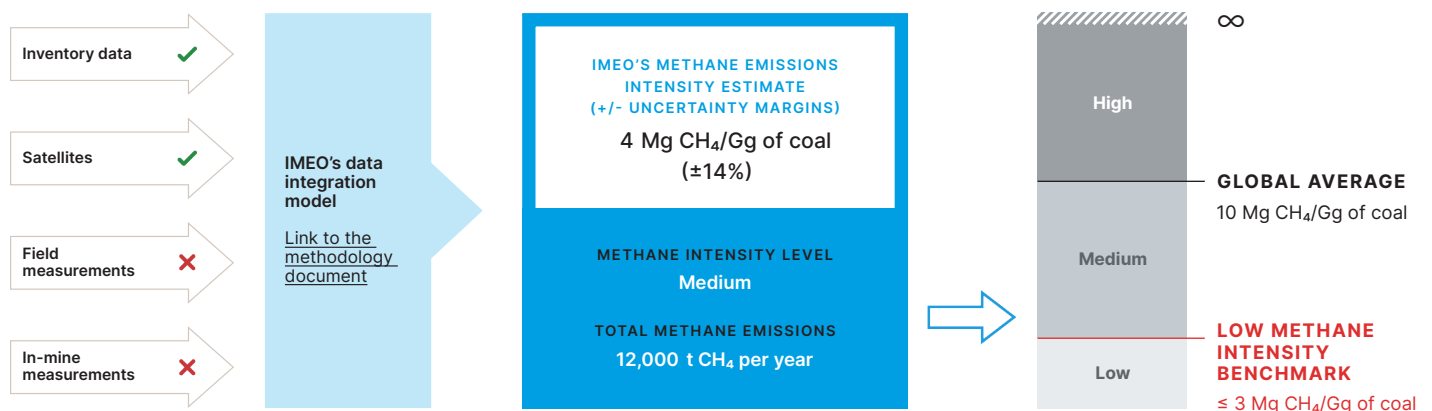
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

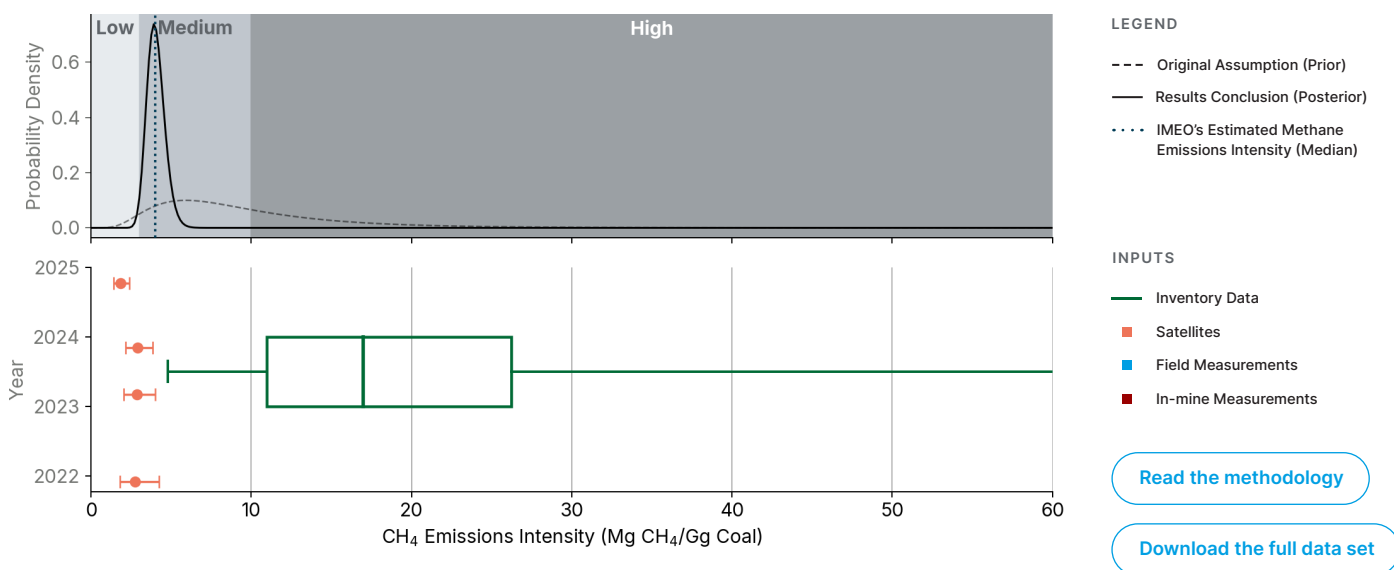
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TUCHENG COAL MINE



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	1.9	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	3	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	3	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Satellite	2022	3	45%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	156%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	195%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	30	342%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

HUASHENGRONG COAL MINE

LOCATION (LAT., LON.) 36.0602, 112.9714

GEM MINE ID

M1966

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

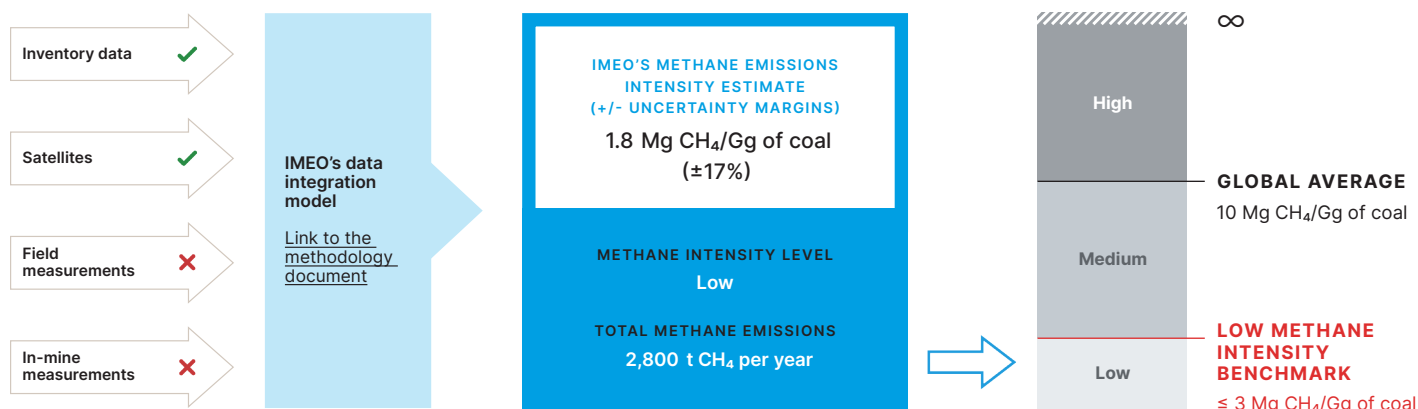
1.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

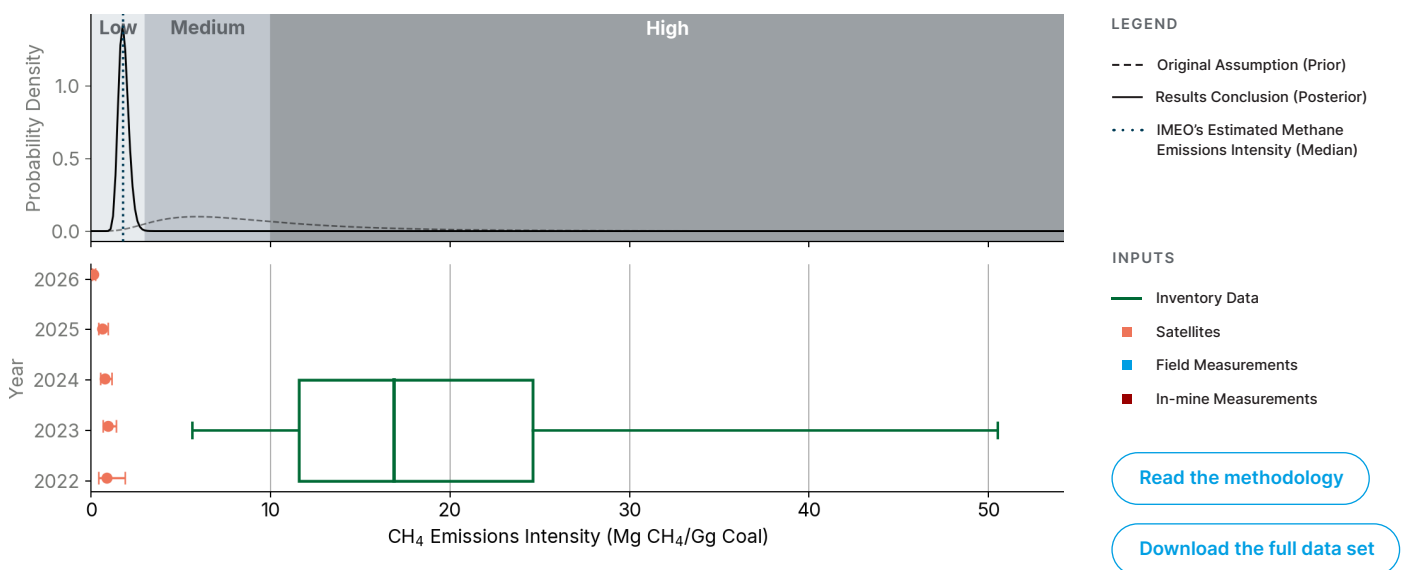
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 HUASHENGRONG COAL MINE



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	2023	1	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.8	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.7	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.2	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	1	89%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	160%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	161%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	165%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	175%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	179%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	194%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	195%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	197%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	233%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	239%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

Note: Coal grade reclassified by IMEO from thermal to thermal and metallurgical.

DATONG WANGCUN COAL MINE

LOCATION (LAT., LON.)

39.935, 112.9154

GEM MINE ID

M1861

MINING TYPE

Underground

COAL GRADE

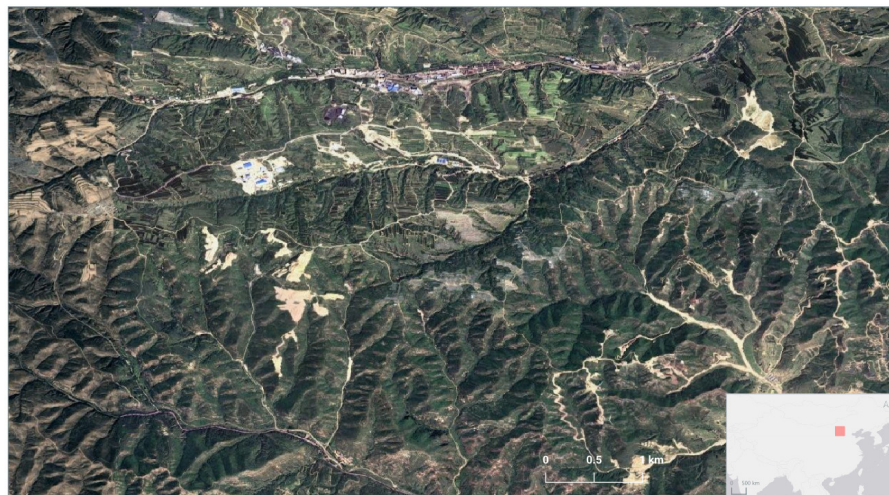
Metallurgical

ESTIMATED PRODUCTION

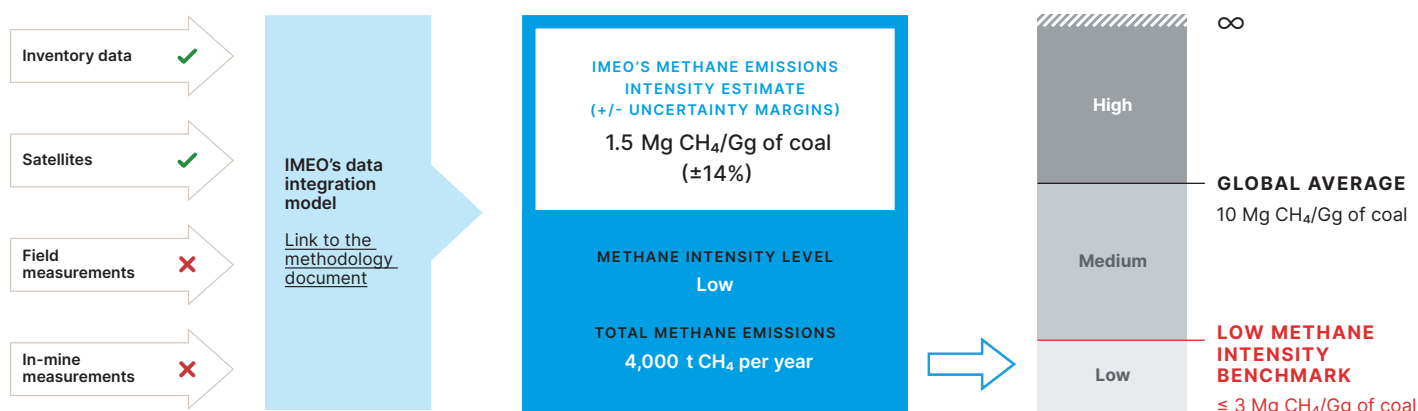
2.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

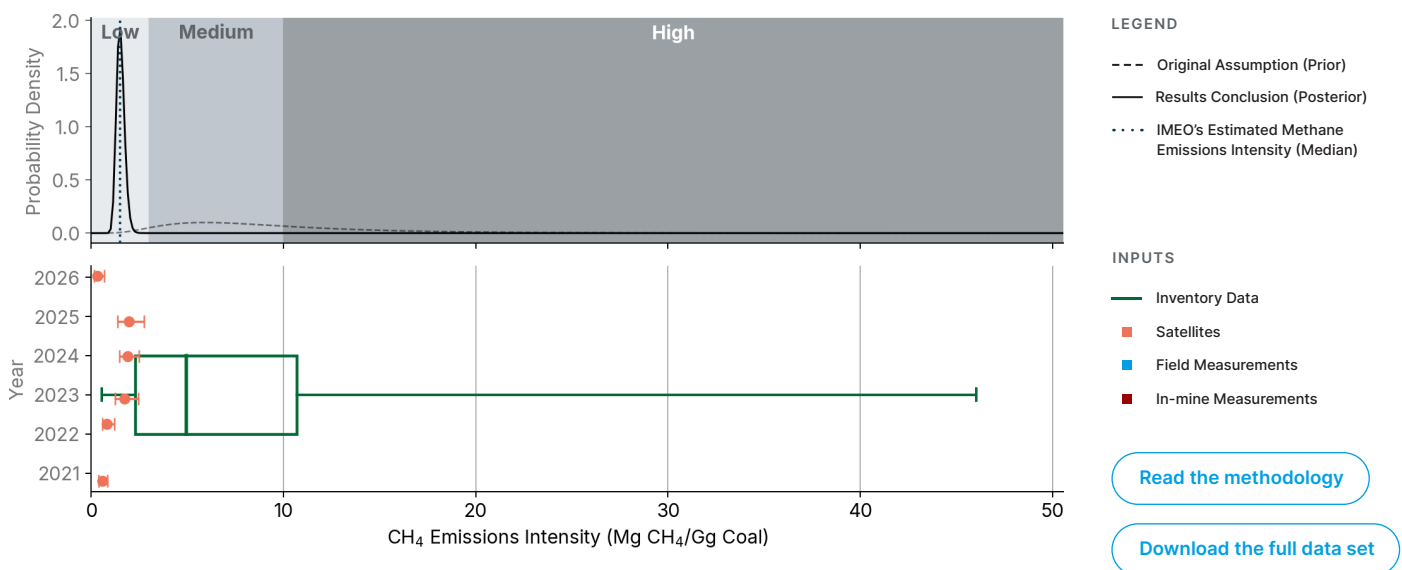
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DATONG WANGCUN COAL MINE



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	2024	2	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	1.8	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	2.1	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	0.9	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	0.6	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.4	81%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	161%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	172%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	218%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	326%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	344%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	0	358%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	406%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	1	593%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	1	1081%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

XINJULONG COAL MINE

LOCATION (LAT., LON.) 35.2782, 115.8826

GEM MINE ID

M0394

MINING TYPE

Underground

COAL GRADE

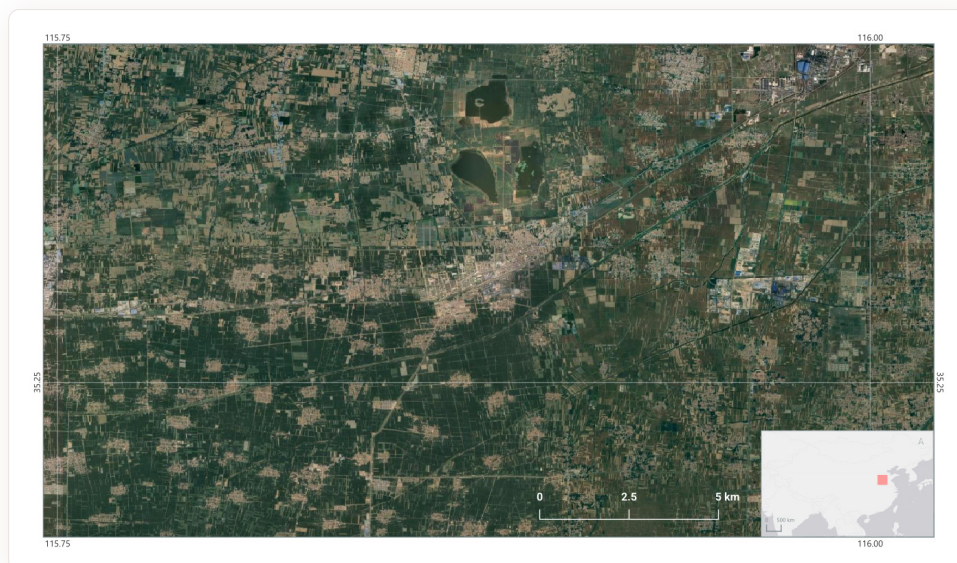
Metallurgical

ESTIMATED PRODUCTION

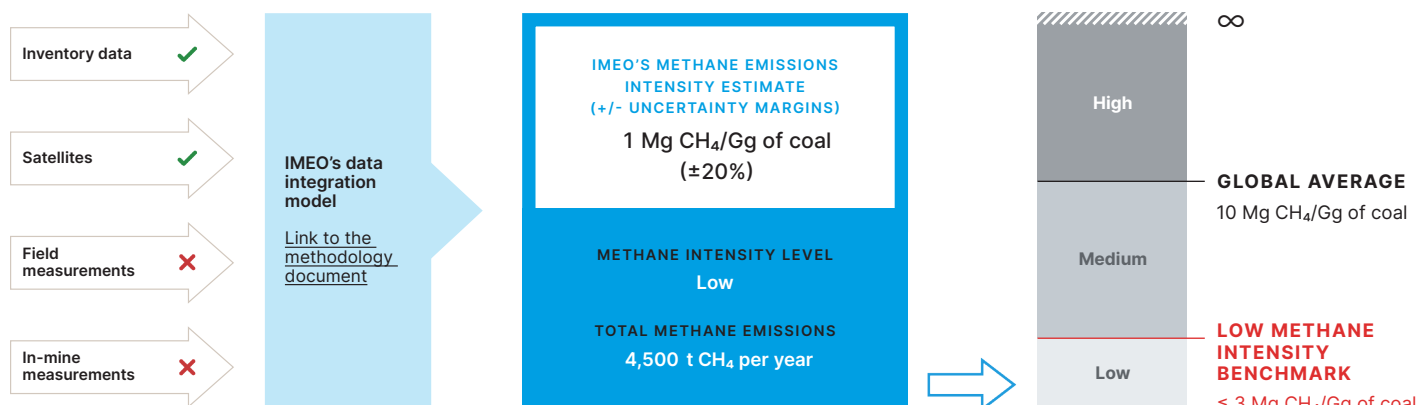
4.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

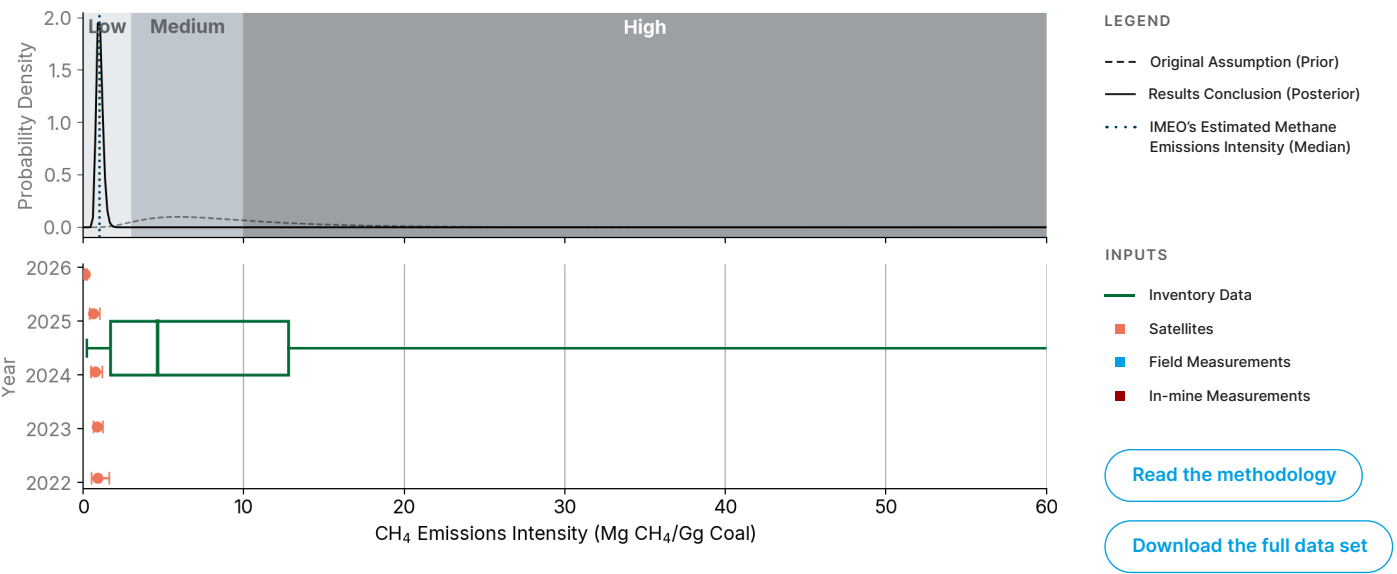
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XINJULONG COAL MINE



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	2023	0.9	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.8	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.7	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	1.1	63%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.1	76%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	152%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	166%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	0	848%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

JUDE COAL MINE

LOCATION (LAT., LON.) 37.5058, 110.8739

GEM MINE ID

M2011

MINING TYPE

Underground

COAL GRADE

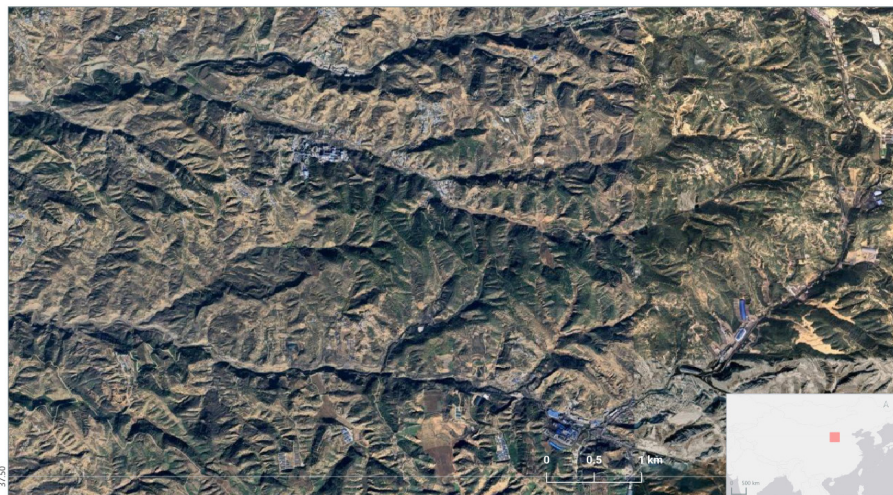
Metallurgical

ESTIMATED PRODUCTION

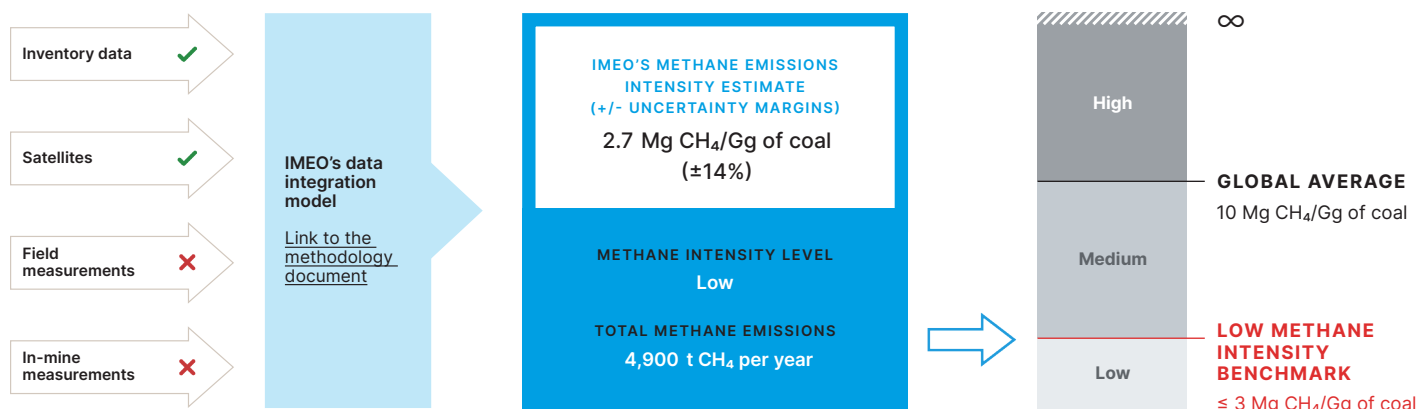
1.8 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

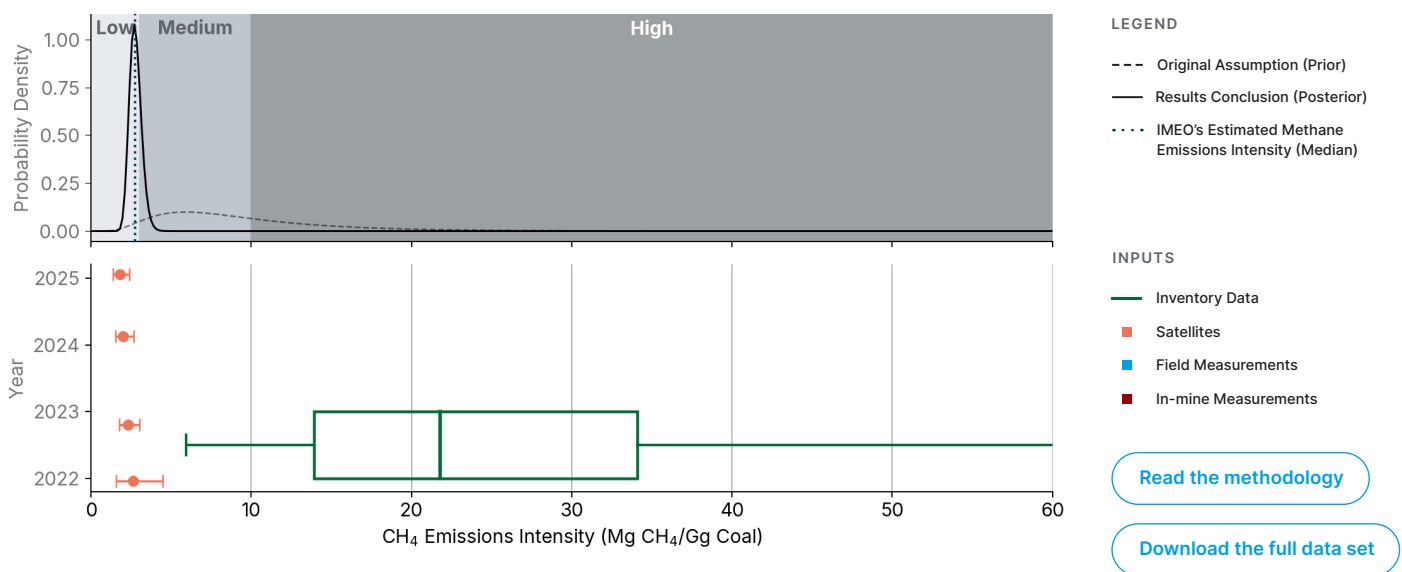
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 JUDE COAL MINE



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	2023	2.4	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2.1	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.9	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	3	57%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	50	147%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	173%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	178%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	204%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	0	247%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	0	247%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	273%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	278%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	279%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	30	303%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	316%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

XIQU COAL MINE

LOCATION (LAT., LON.) 37.9195, 112.1581

GEM MINE ID

M1237

MINING TYPE

Underground

COAL GRADE

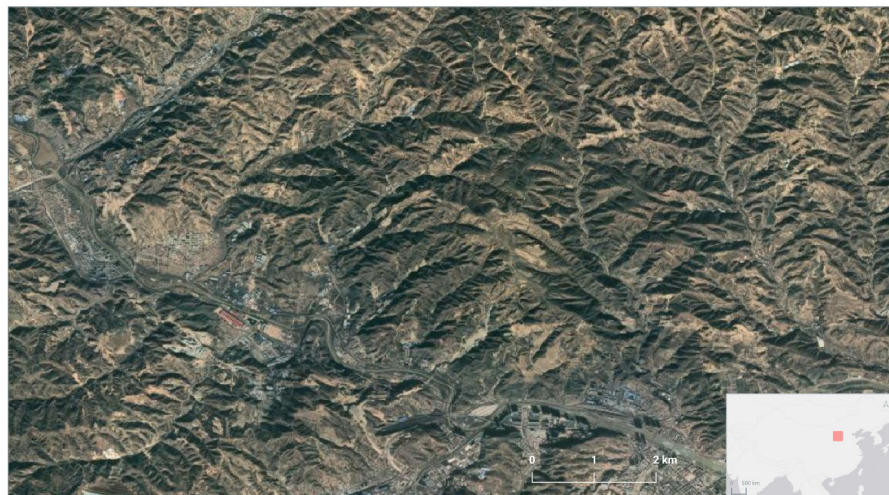
Metallurgical

ESTIMATED PRODUCTION

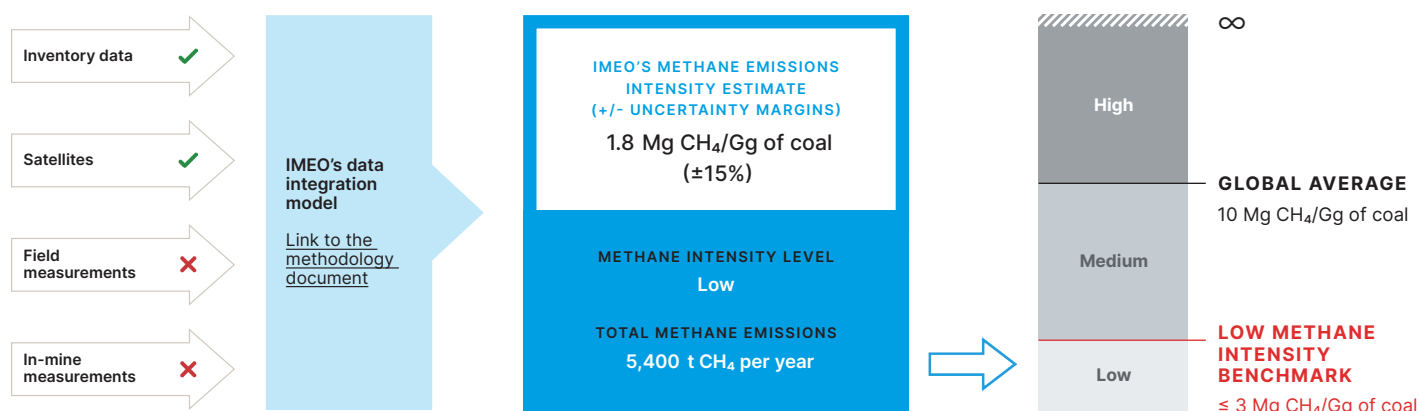
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

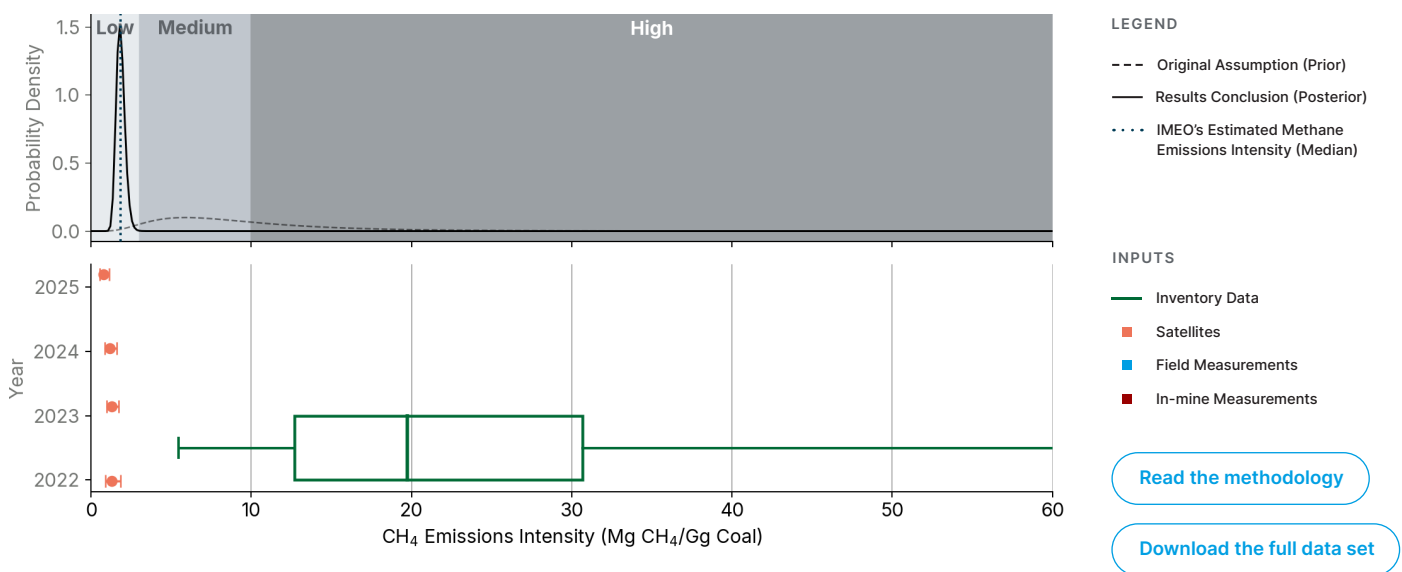
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XIQU COAL MINE



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	2023	1.3	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.2	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.8	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	1.4	38%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	40	107%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	40	116%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	181%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	40	190%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	213%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	217%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	234%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	239%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	254%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	364%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	390%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

PANSAN COAL MINE

LOCATION (LAT., LON.) 32.8246, 116.7452

GEM MINE ID

M5206

MINING TYPE

Underground

COAL GRADE

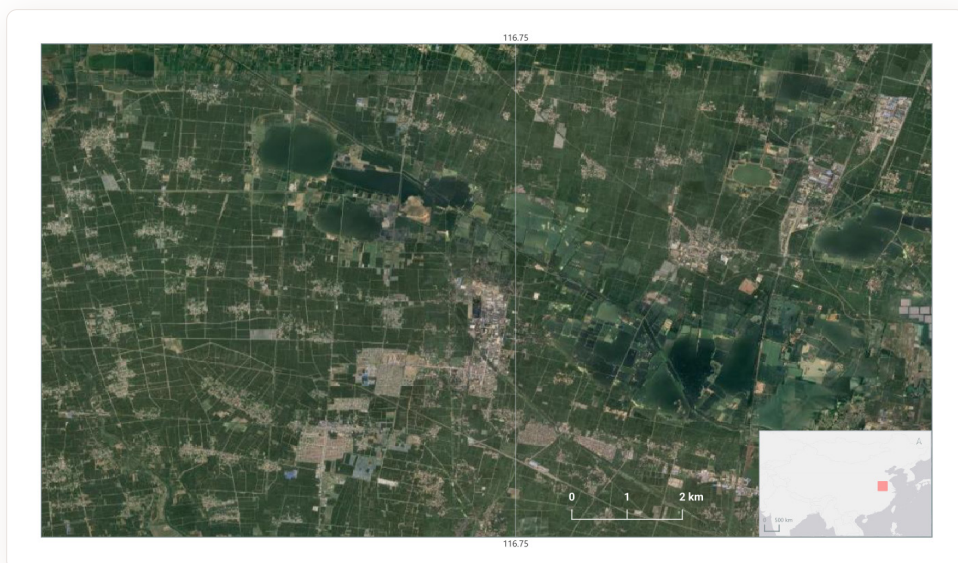
Metallurgical

ESTIMATED PRODUCTION

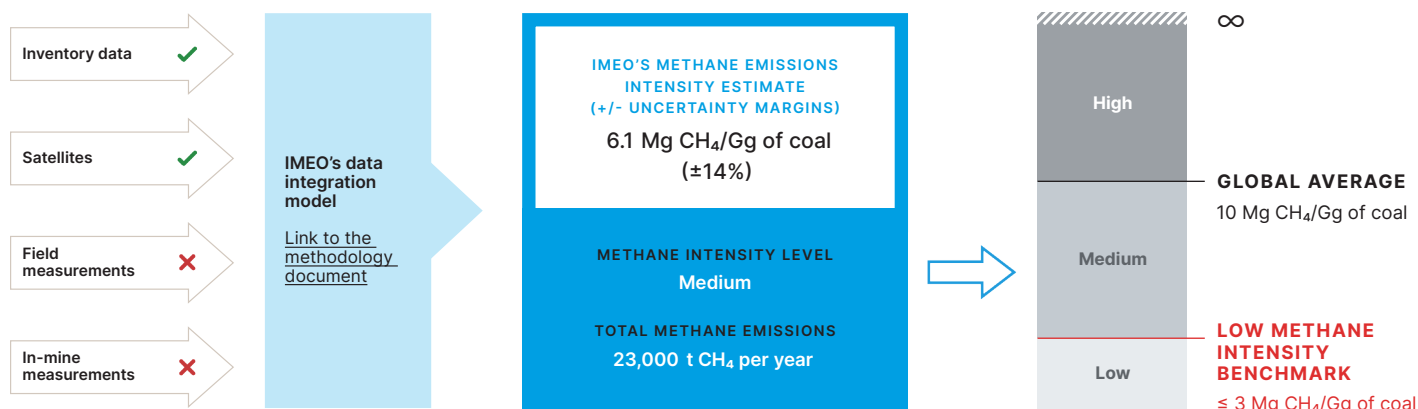
3.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

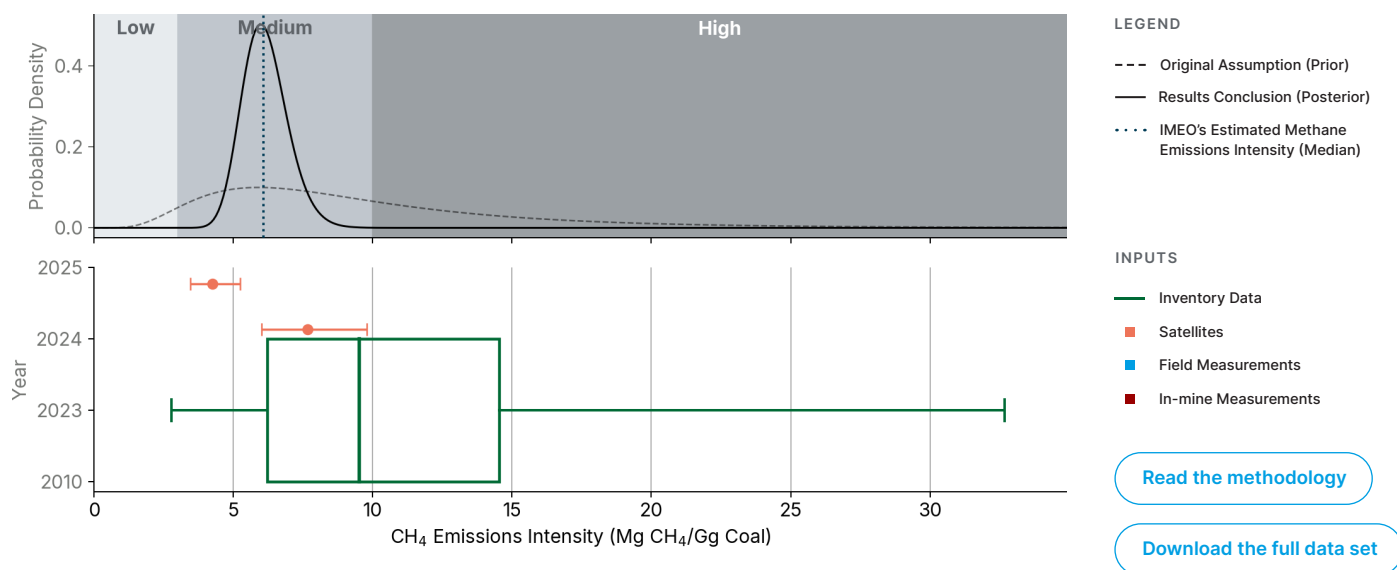
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 PANSAN COAL MINE



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	4.3	21%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	8	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	91%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	184%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	256%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	319%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	322%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	342%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2010	0	376%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link

SHOUSHAN NO.1 COAL MINE

LOCATION (LAT., LON.) 33.8186, 113.4168

GEM MINE ID

M2131

MINING TYPE

Underground

COAL GRADE

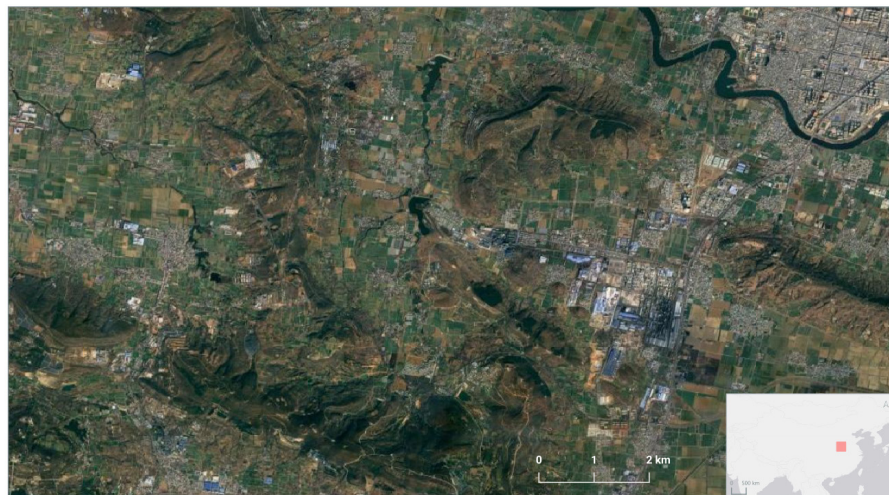
Metallurgical

ESTIMATED PRODUCTION

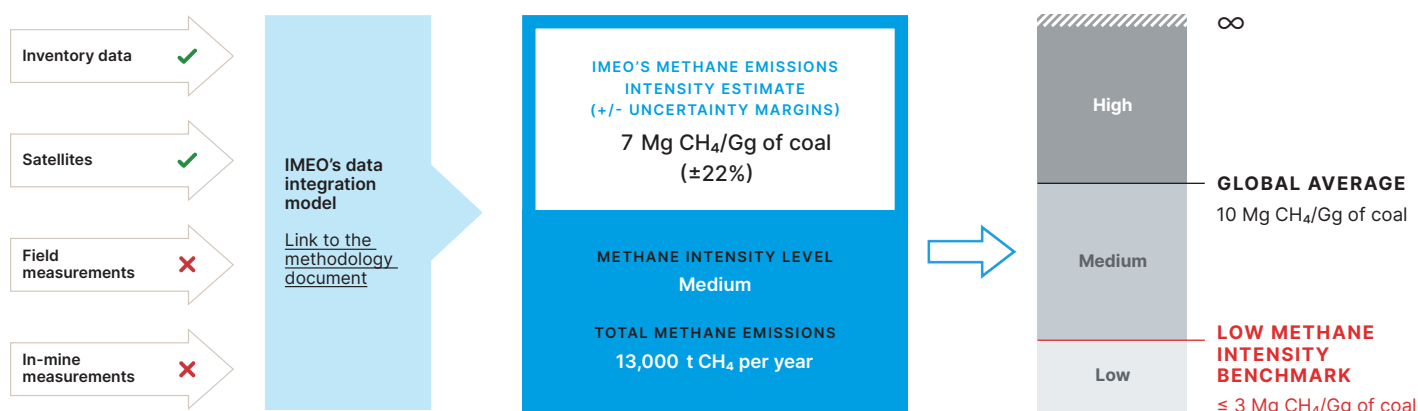
1.8 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

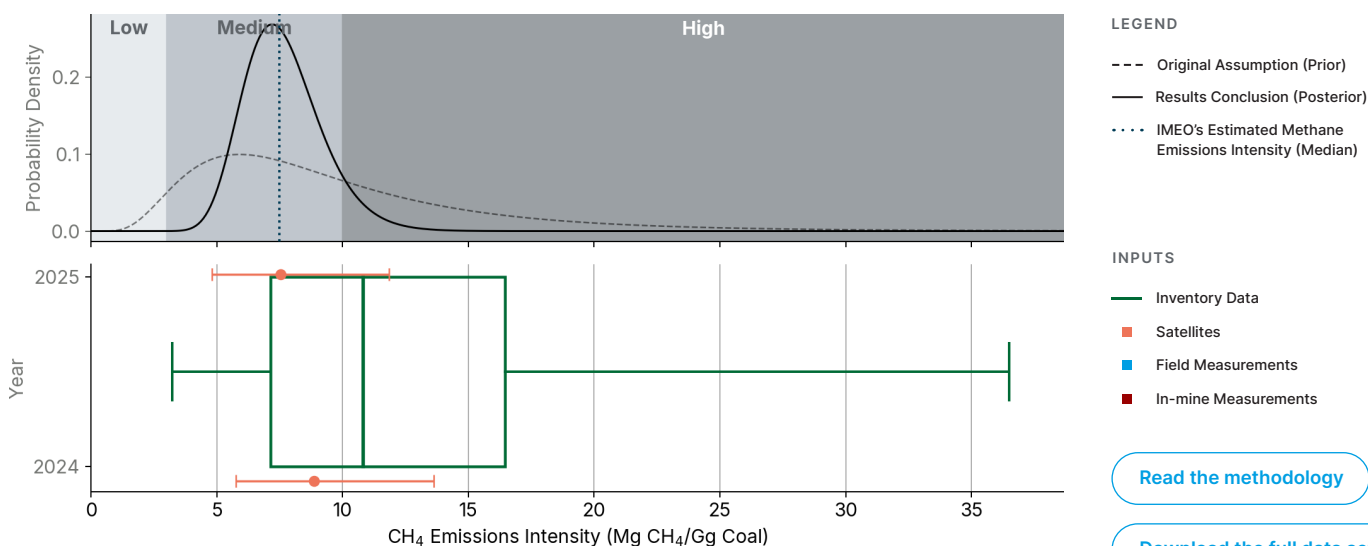
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHOUSHAN NO.1 COAL MINE



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	2024	10	45%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	8	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	60%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Inventory	2024	10	100%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	118%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	132%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	191%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	219%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	237%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	266%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	277%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	312%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	319%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	20	320%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	396%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

XIEQIAO COAL MINE

LOCATION (LAT., LON.) 32.7741, 116.3816

GEM MINE ID

M0388

MINING TYPE

Underground

COAL GRADE

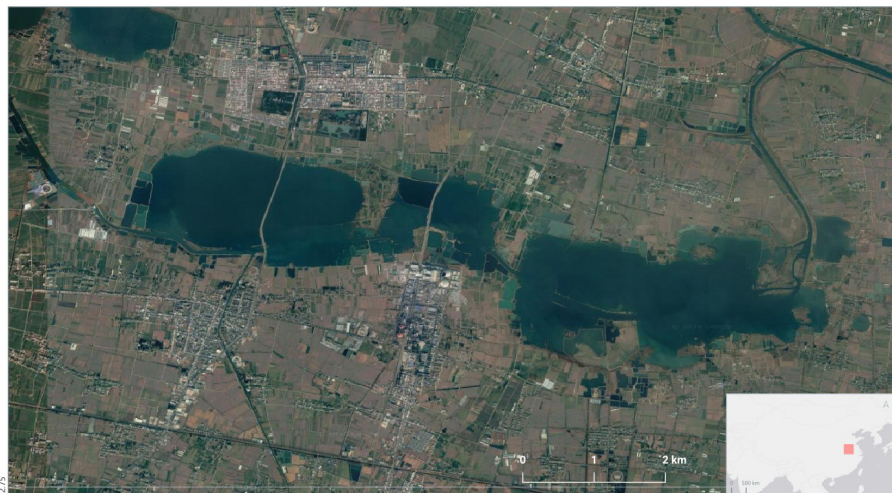
Thermal & Metallurgical

ESTIMATED PRODUCTION

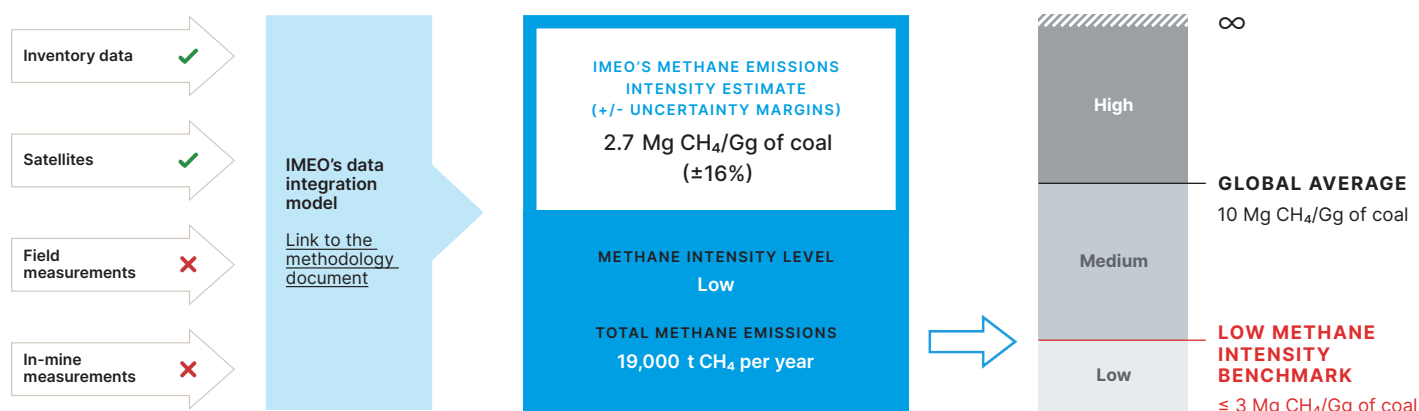
7.1 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

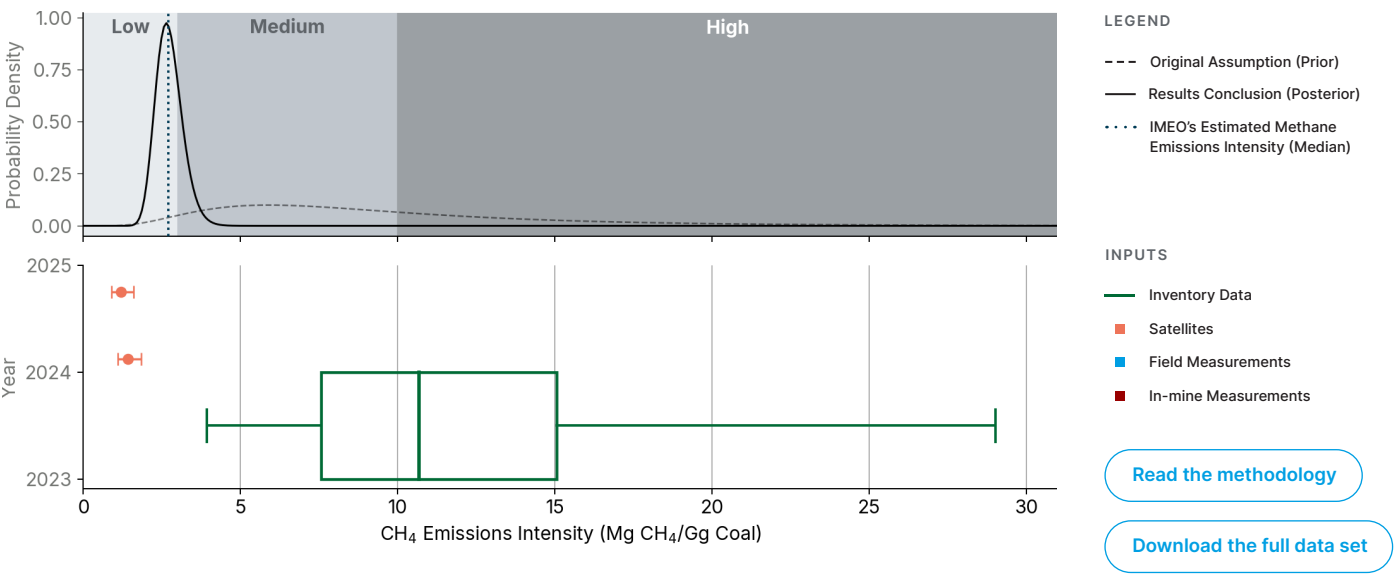
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XIEQIAO COAL MINE



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	2024	1.5	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.2	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	91%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	201%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	281%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

LINHUAN COAL MINE

LOCATION (LAT., LON.) 33.6334, 116.6338

GEM MINE ID

M1319

MINING TYPE

Underground

COAL GRADE

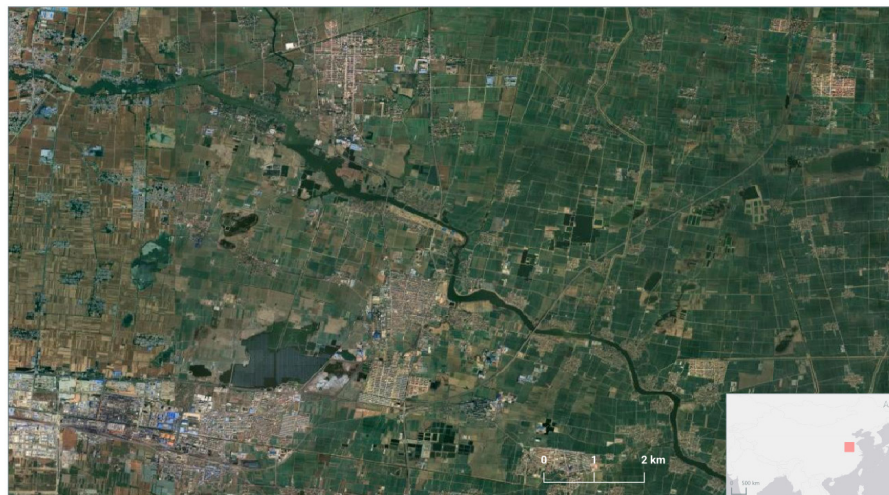
Metallurgical

ESTIMATED PRODUCTION

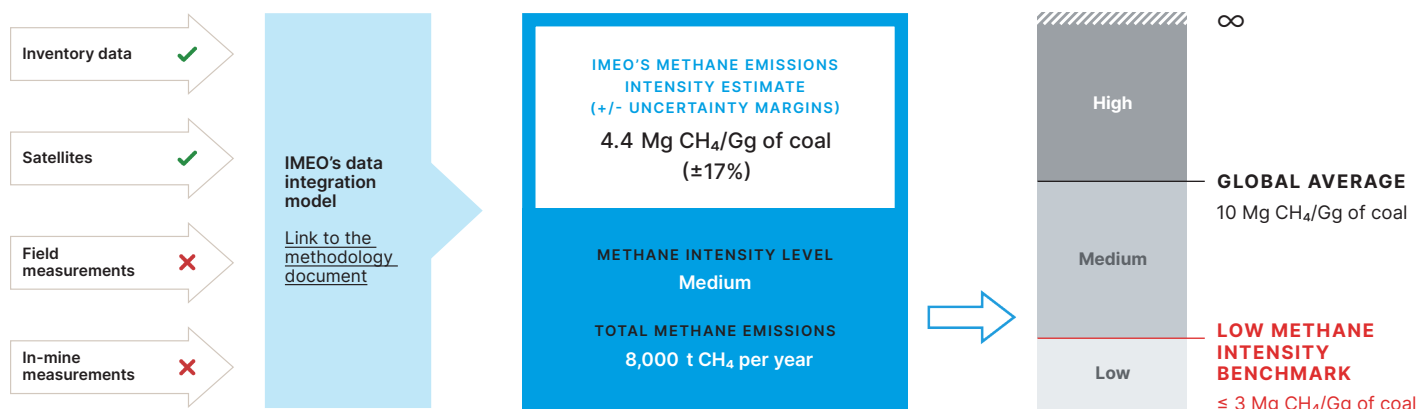
1.9 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

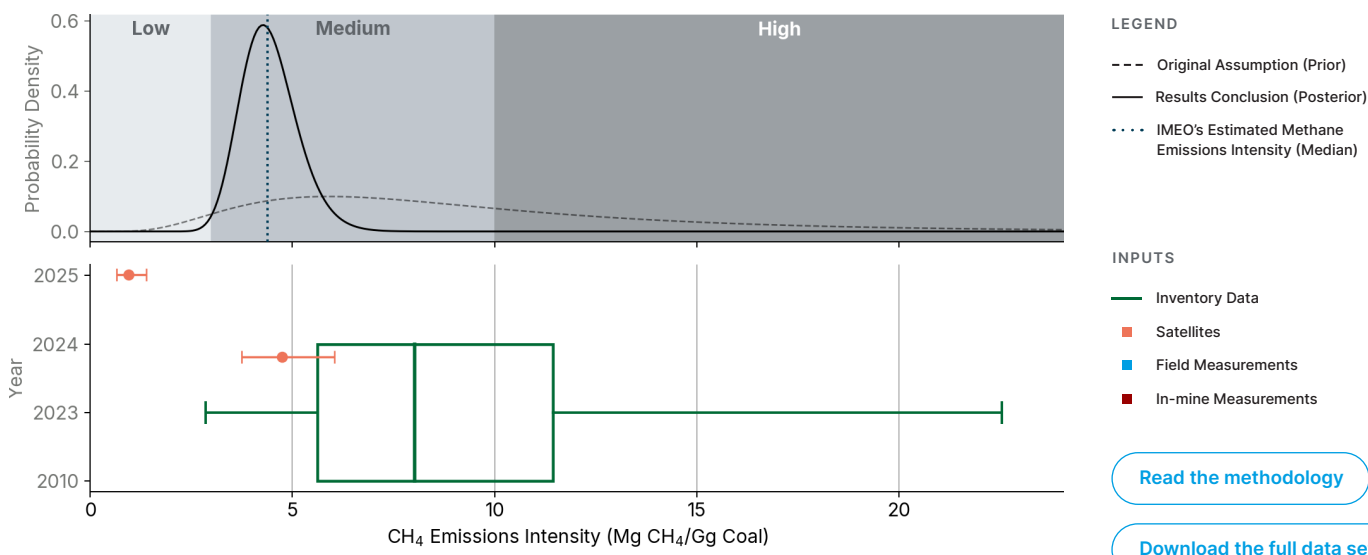
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 LINHUAN COAL MINE



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	2024	5	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	89%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2010	2	207%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2010	2	298%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link

GAOYANG COAL MINE

LOCATION (LAT., LON.)

37.131, 111.6491

GEM MINE ID

M3725

MINING TYPE

Underground

COAL GRADE

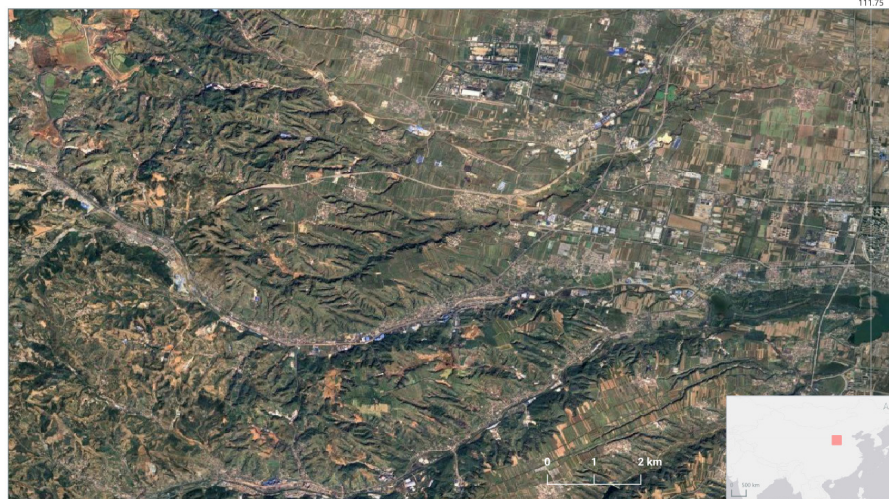
Metallurgical

ESTIMATED PRODUCTION

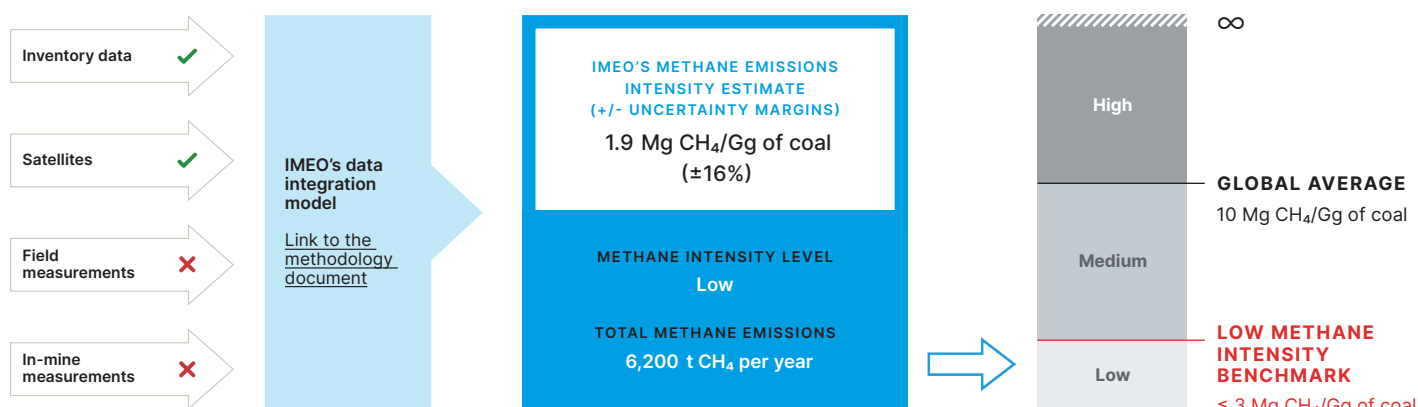
3.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

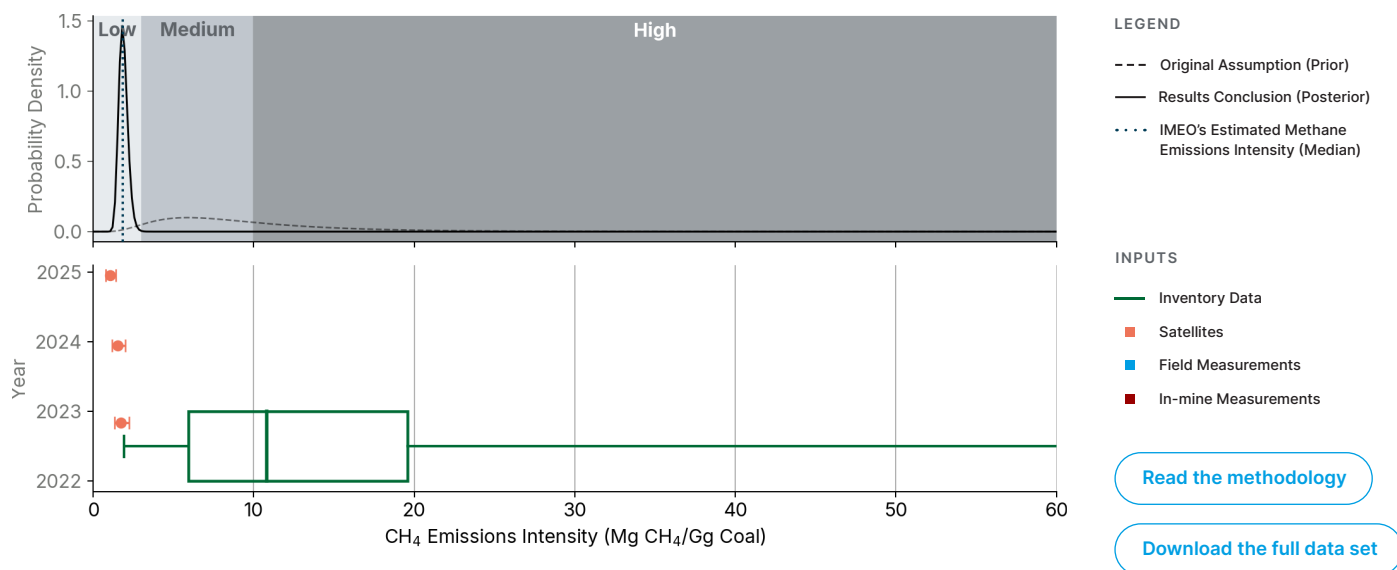
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 GAOYANG COAL MINE



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	2023	1.8	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.6	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.1	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	144%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	150%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	164%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	214%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	20	218%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	512%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

FANGEZHUANG COAL MINE

LOCATION (LAT., LON.) 39.6464, 118.4328

GEM MINE ID

M1121

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

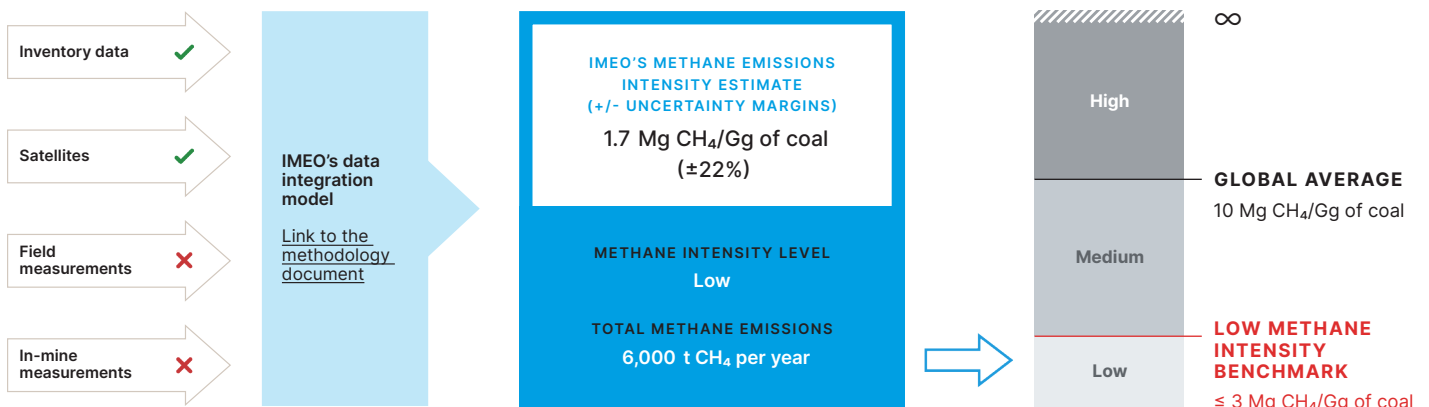
3.6 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

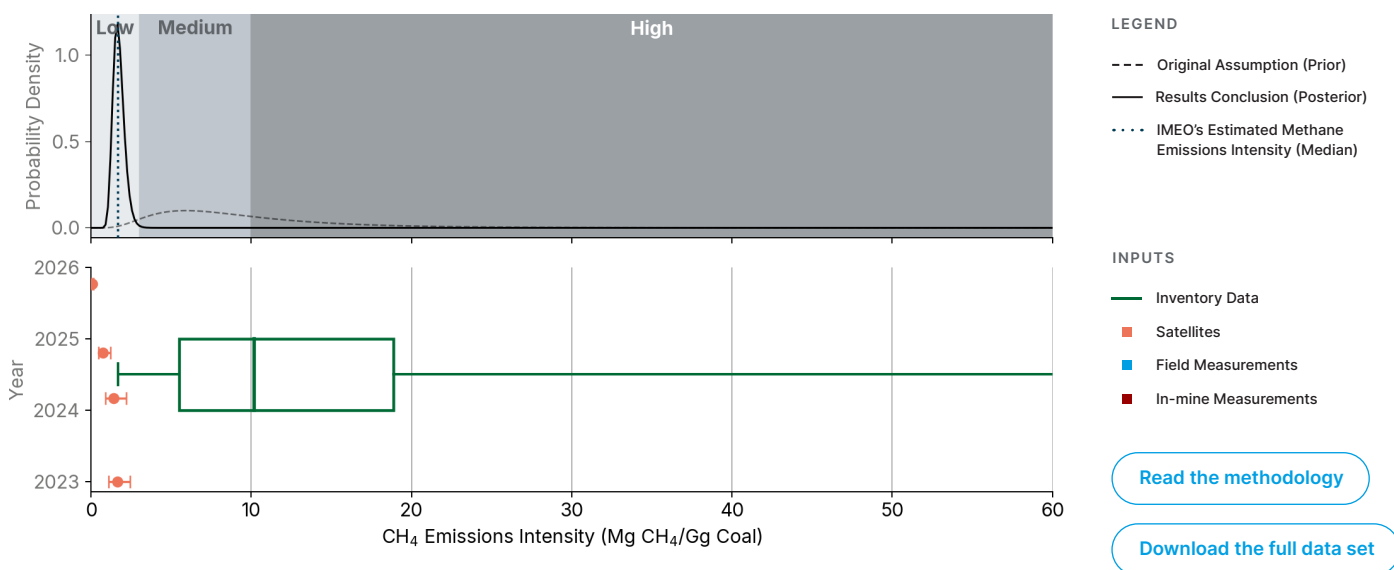
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 FANGEZHUANG COAL MINE



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	2023	1.8	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1.6	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.8	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.1	94%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	170%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	184%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	224%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	20	279%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	10	280%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	295%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	20	334%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	0	614%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

ZHUJIDONG COAL MINE

LOCATION (LAT., LON.) 32.8626, 116.8226

GEM MINE ID

M1254

MINING TYPE

Underground

COAL GRADE

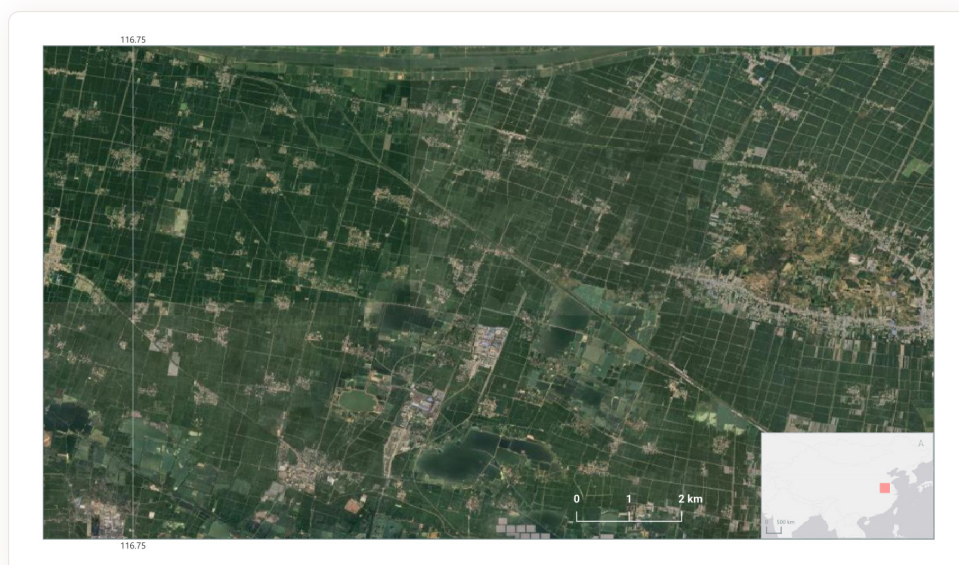
Metallurgical

ESTIMATED PRODUCTION

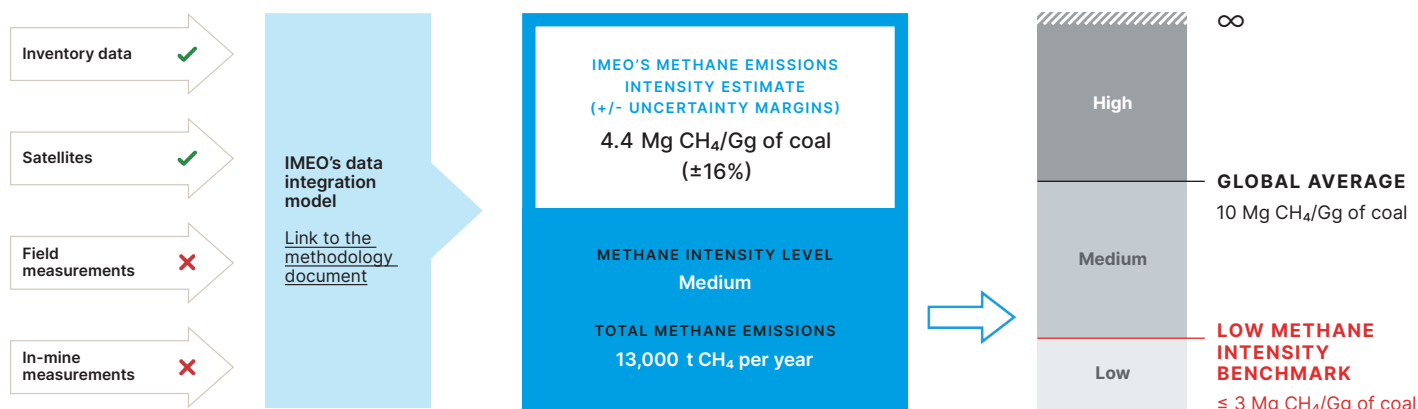
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

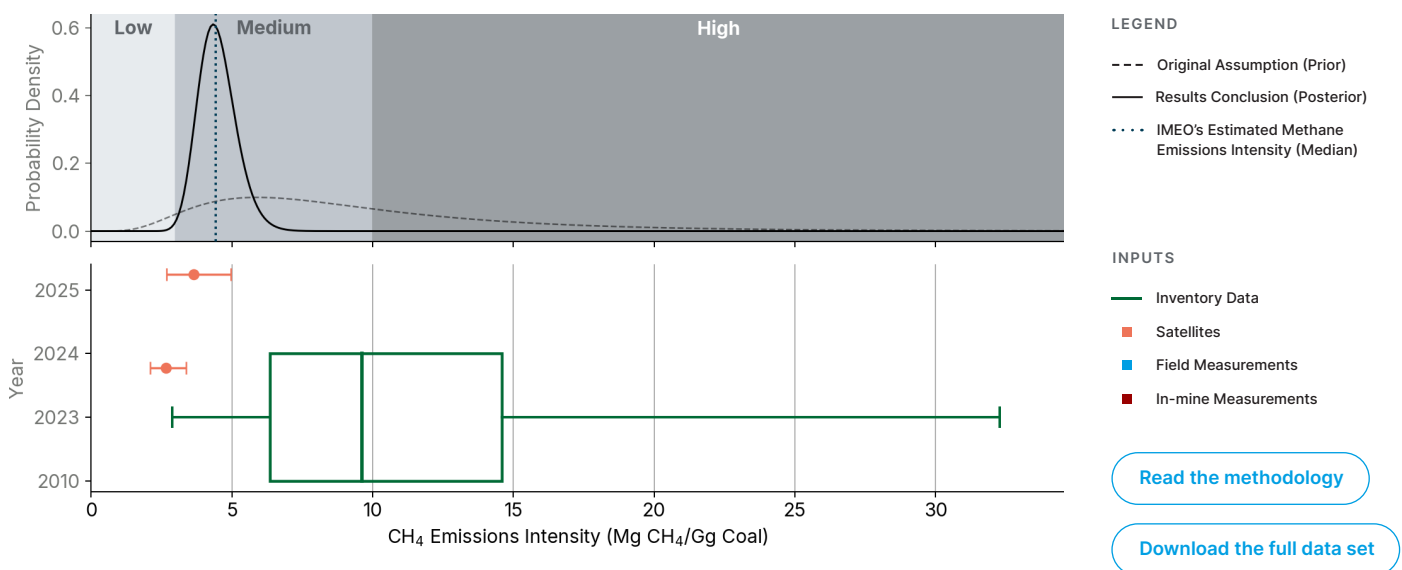
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ZHUJIDONG COAL MINE



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	2024	2.7	24%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	10	70%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	82%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	105%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	233%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2010	3	284%	Mg CH ₄ /Gg Coal	Tier-2-01	Ju et al., 2016	Link
Inventory	2023	10	316%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	341%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

SHANXI JINYUAN COAL MINE

LOCATION (LAT., LON.) 37.6771, 110.8498

GEM MINE ID

M0330

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

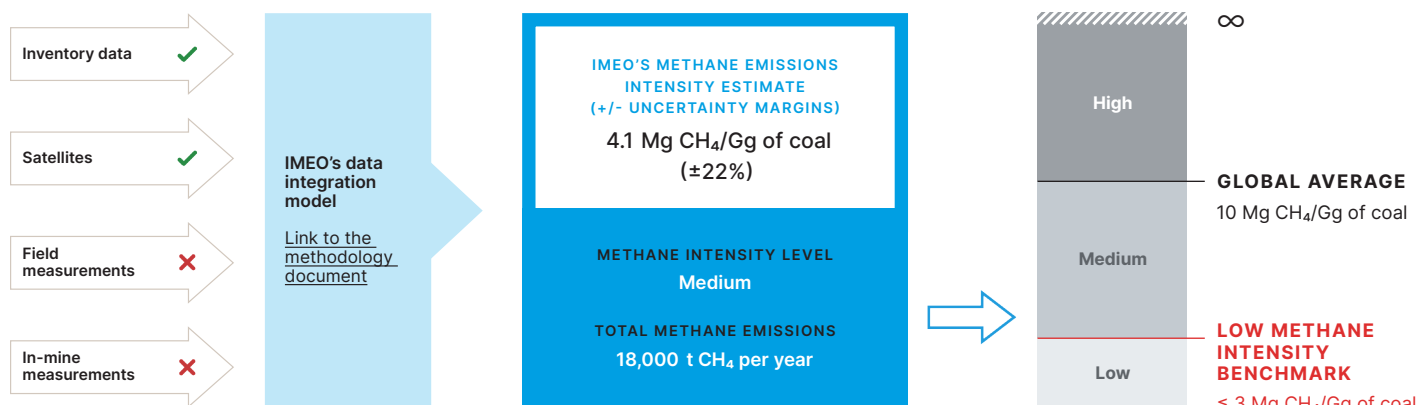
4.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

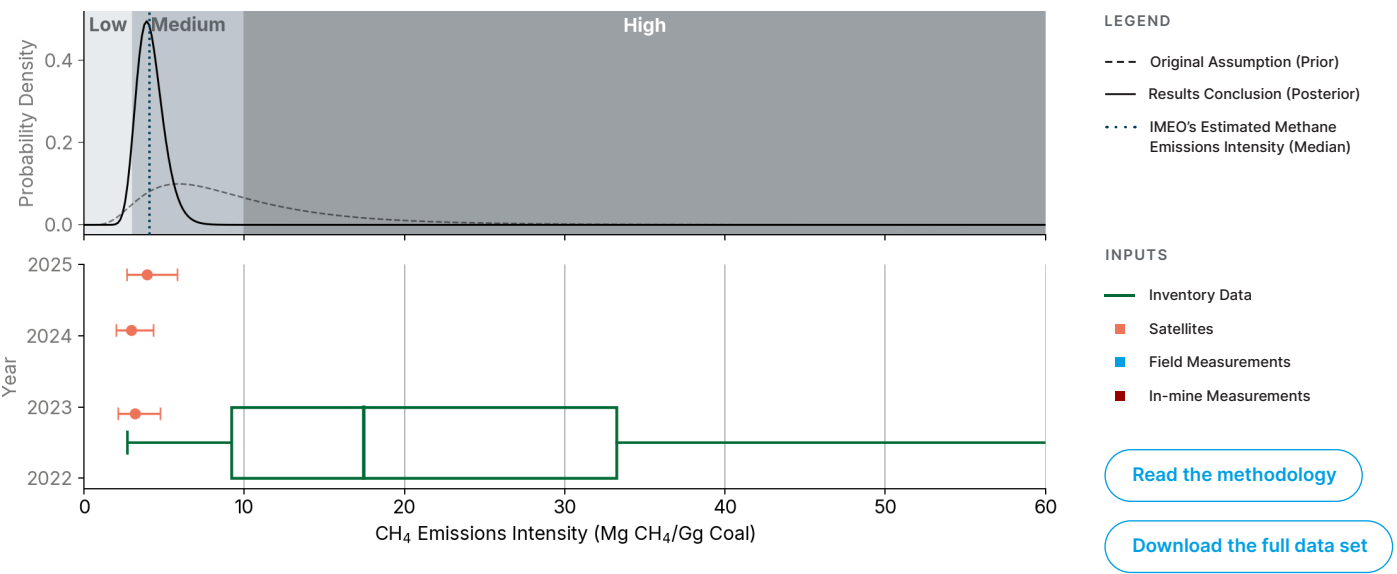
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHANXI JINYUAN COAL MINE



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	2024	3	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	3	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	185%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	20	249%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	254%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	100	276%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DATONG WAJINWAN COAL MINE

LOCATION (LAT., LON.) 39.9515, 112.9655

GEM MINE ID

M3717

MINING TYPE

Underground

COAL GRADE

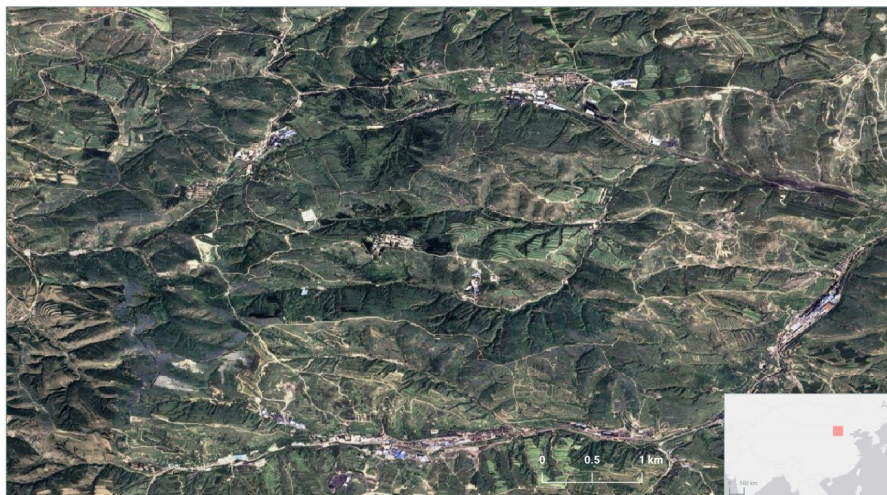
Metallurgical

ESTIMATED PRODUCTION

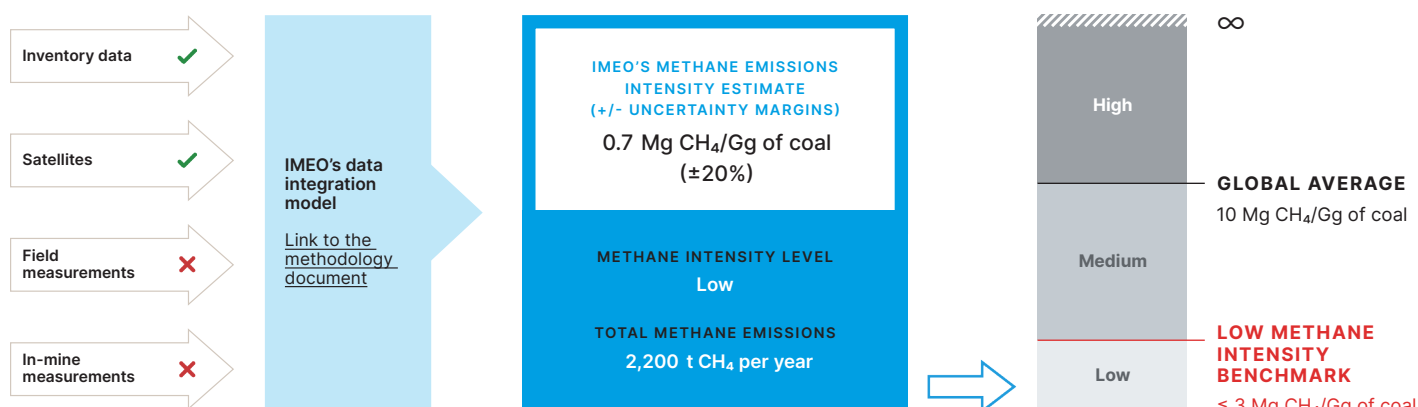
3.4 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

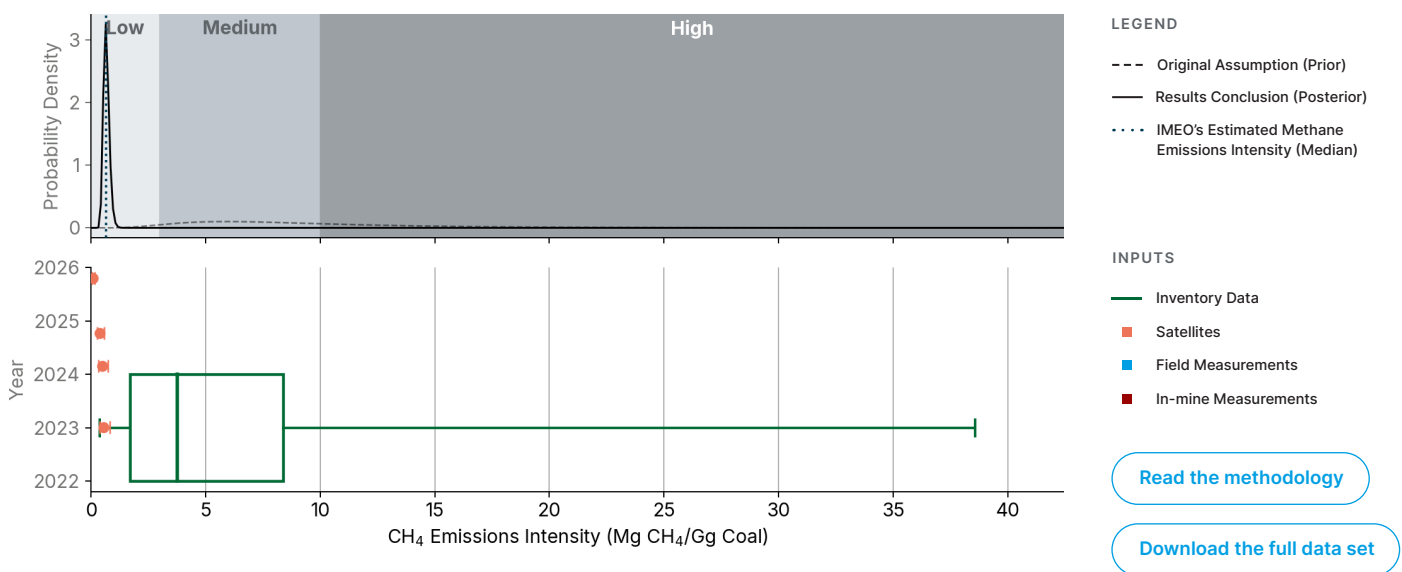
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DATONG WAJINWAN COAL MINE



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	2023	0.6	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.5	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.4	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.1	75%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	10	200%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	0	204%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	284%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	10	293%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	343%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	1	617%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2022	1	879%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

SHANJIAOSHU COAL MINE

LOCATION (LAT., LON.)

25.889, 104.5001

GEM MINE ID

M2110

MINING TYPE

Underground

COAL GRADE

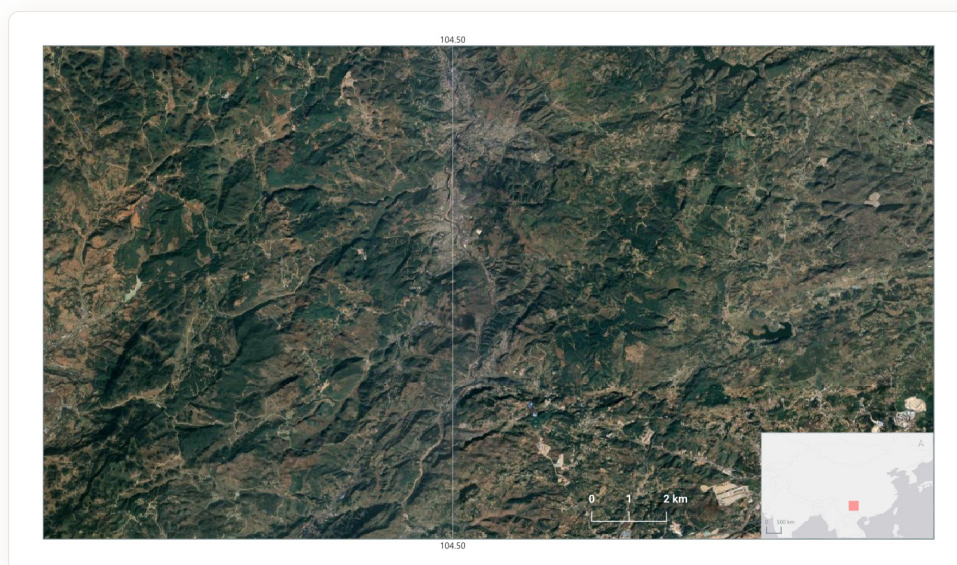
Metallurgical

ESTIMATED PRODUCTION

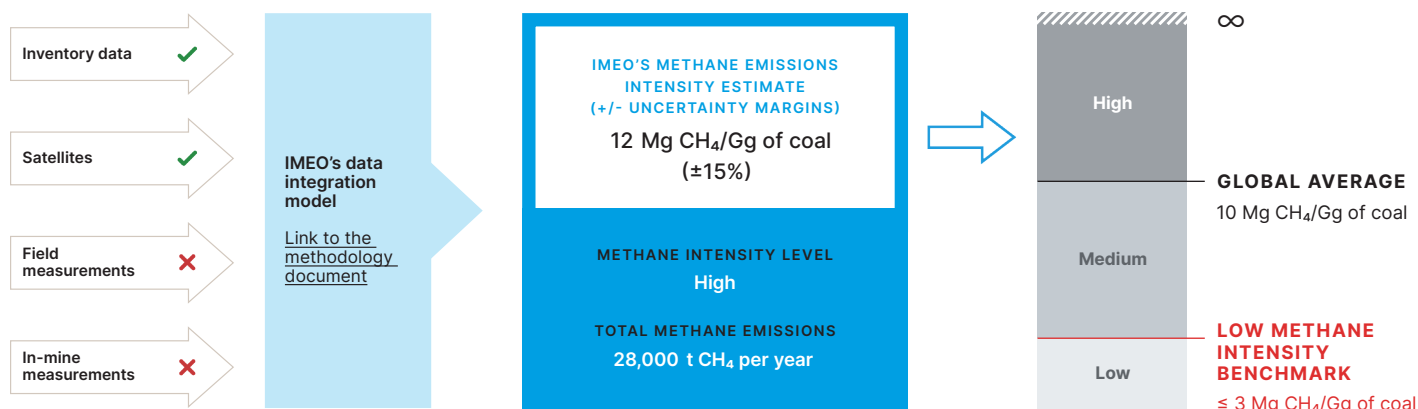
2.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

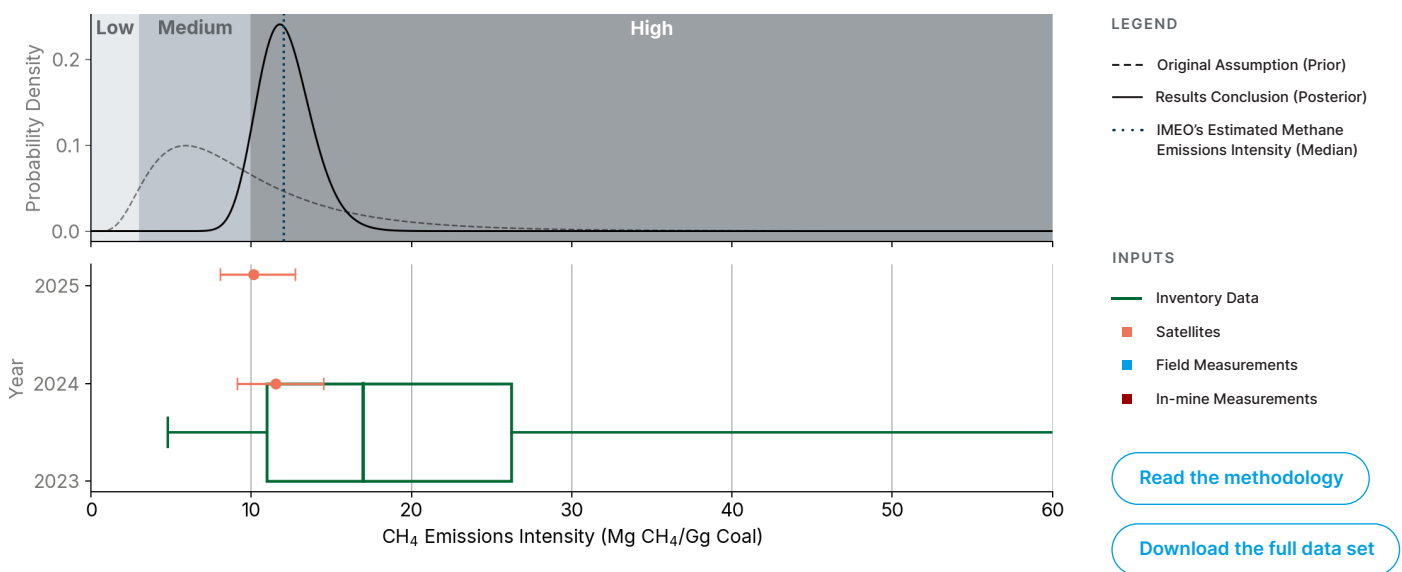
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHANJIAOSHU COAL MINE



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	10	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	12	23%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	30	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link
Inventory	2023	30	71%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	20	157%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	195%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	30	342%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

ANJU COAL MINE

LOCATION (LAT., LON.) 35.3482, 116.5349

GEM MINE ID

M1812

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

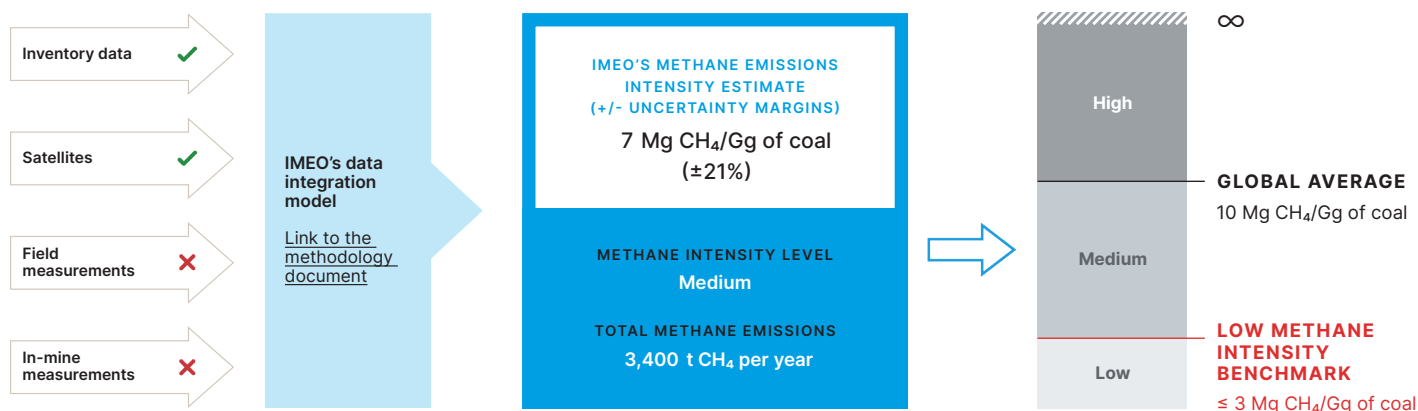
0.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

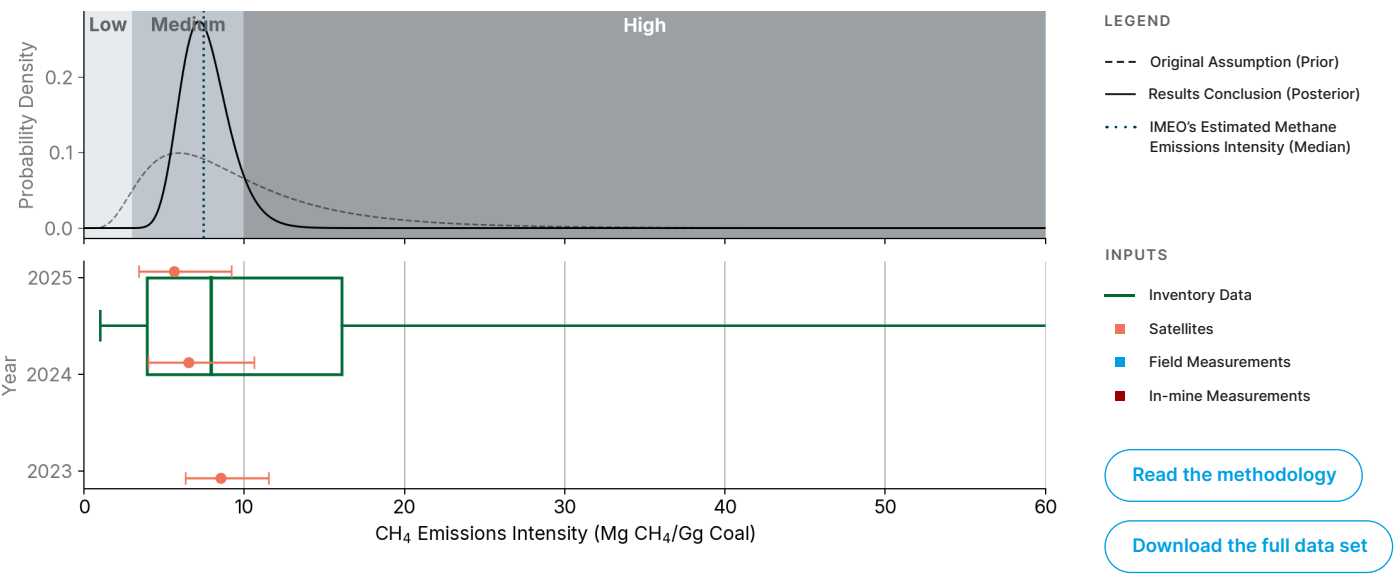
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ANJU COAL MINE



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	2023	9	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	7	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	6	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	111%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	133%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	339%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	2	420%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

CHAILI COAL MINE

LOCATION (LAT., LON.)

34.958, 117.0261

GEM MINE ID

M1829

MINING TYPE

Underground

COAL GRADE

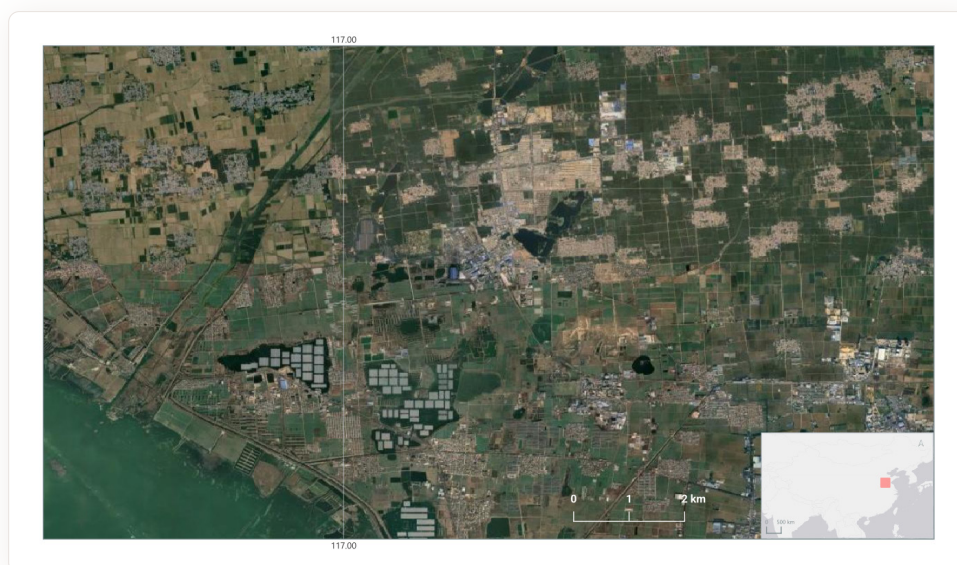
Metallurgical

ESTIMATED PRODUCTION

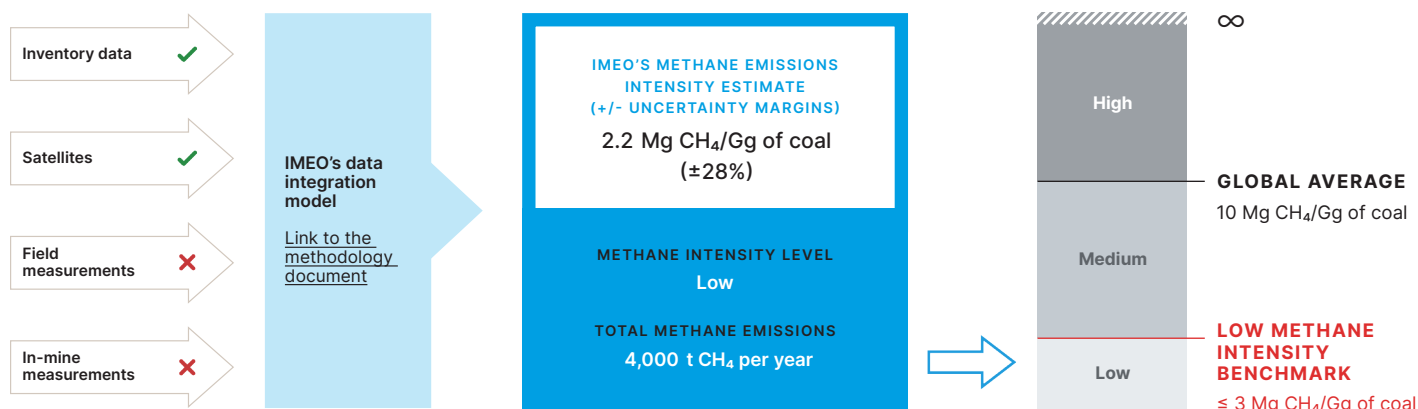
1.8 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

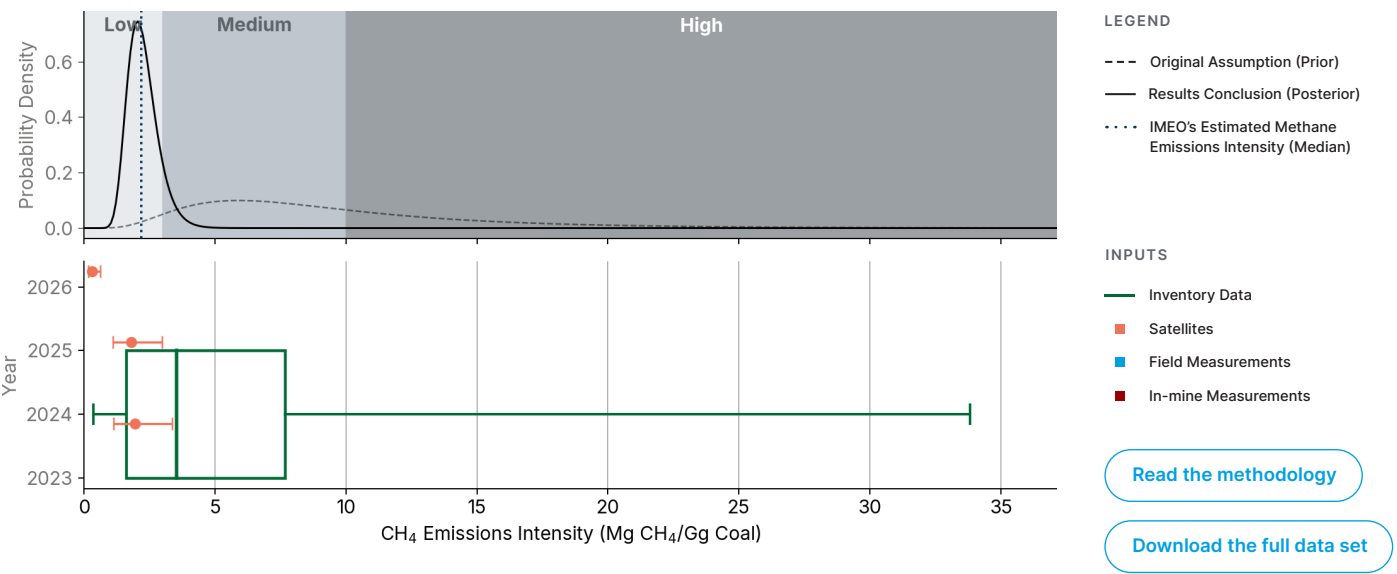
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 CHAILI COAL MINE



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	2	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	58%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.4	79%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	123%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	138%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	2	366%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	0	488%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	2	540%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

FUCUN COAL MINE

LOCATION (LAT., LON.) 34.8552, 117.0508

GEM MINE ID

M1901

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

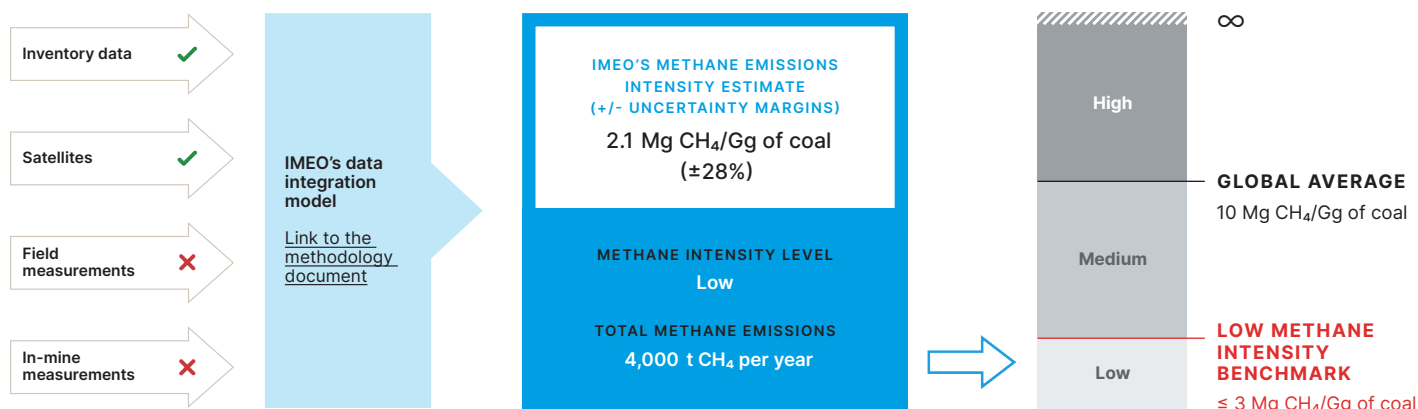
2 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

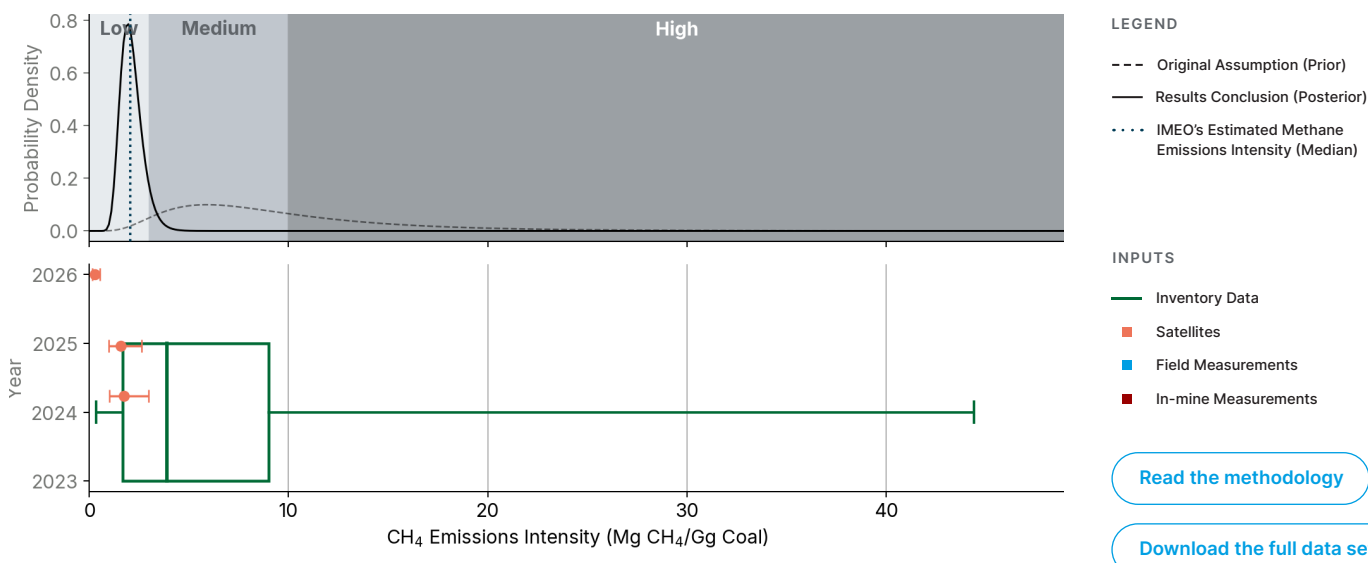
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 FUCUN COAL MINE



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	1.8	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	58%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.3	79%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	10	131%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	137%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	2	468%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	0	500%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2024	0	642%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

YAOQIAO COAL MINE

LOCATION (LAT., LON.) 34.8821, 116.9126

GEM MINE ID

M1241

MINING TYPE

Underground

COAL GRADE

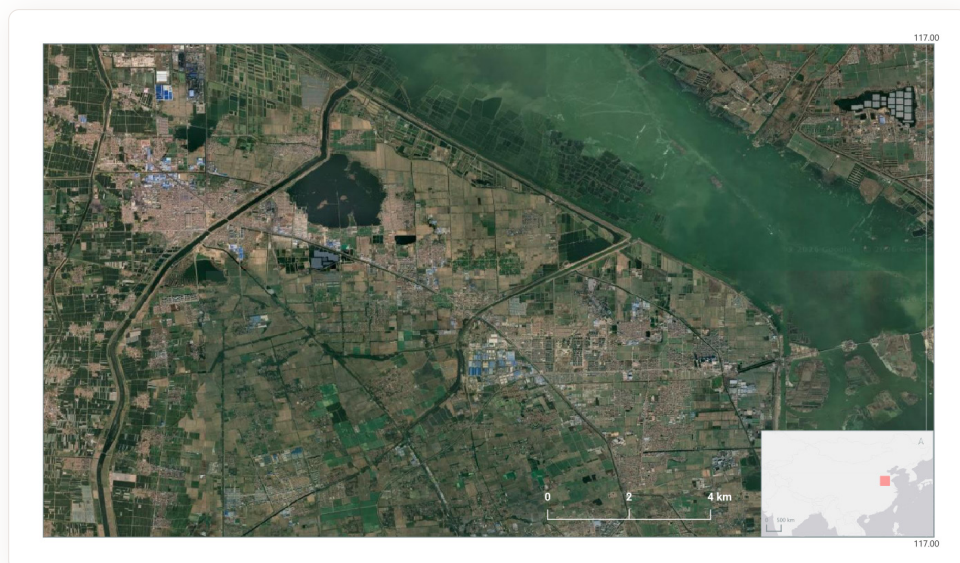
Metallurgical

ESTIMATED PRODUCTION

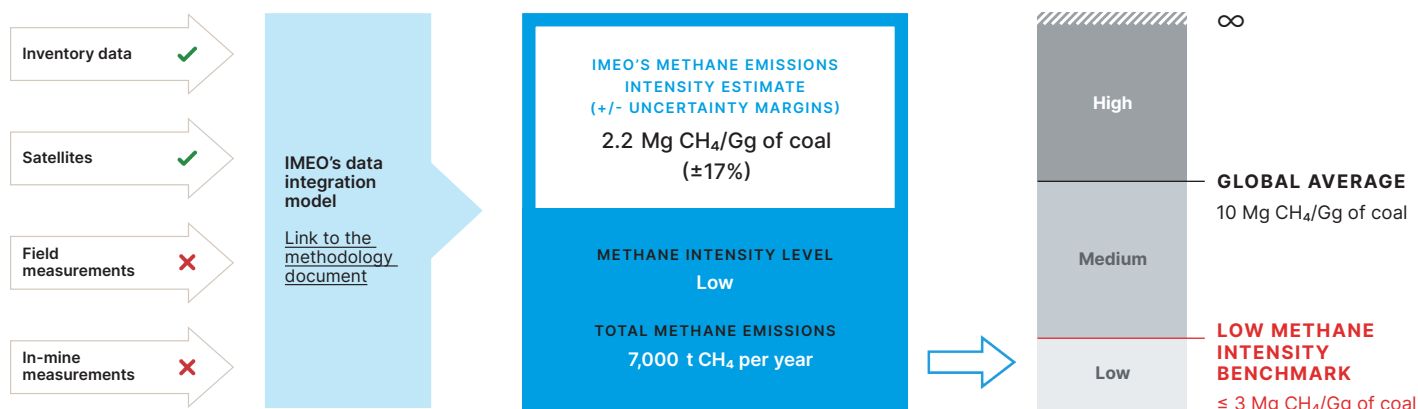
3.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

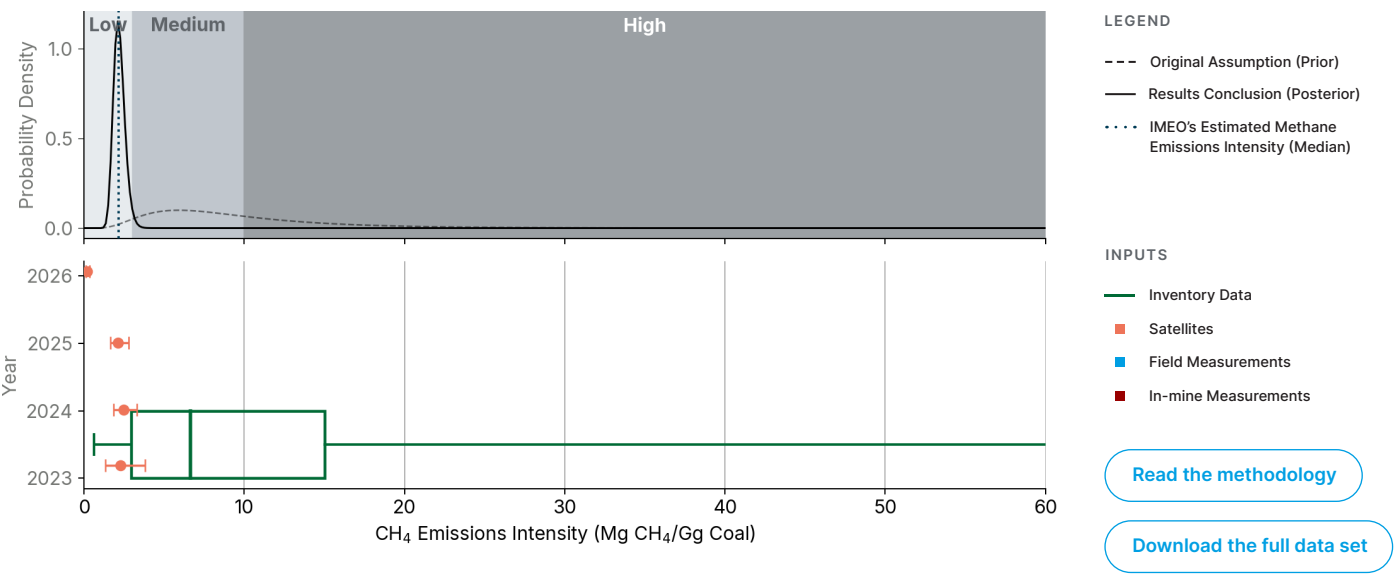
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 YAOQIAO COAL MINE



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	2.2	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2.6	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	3	56%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.2	58%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	20	133%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	138%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	0	515%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DONGHUANTUO COAL MINE

LOCATION (LAT., LON.) 39.6474, 118.0024

GEM MINE ID

M1115

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

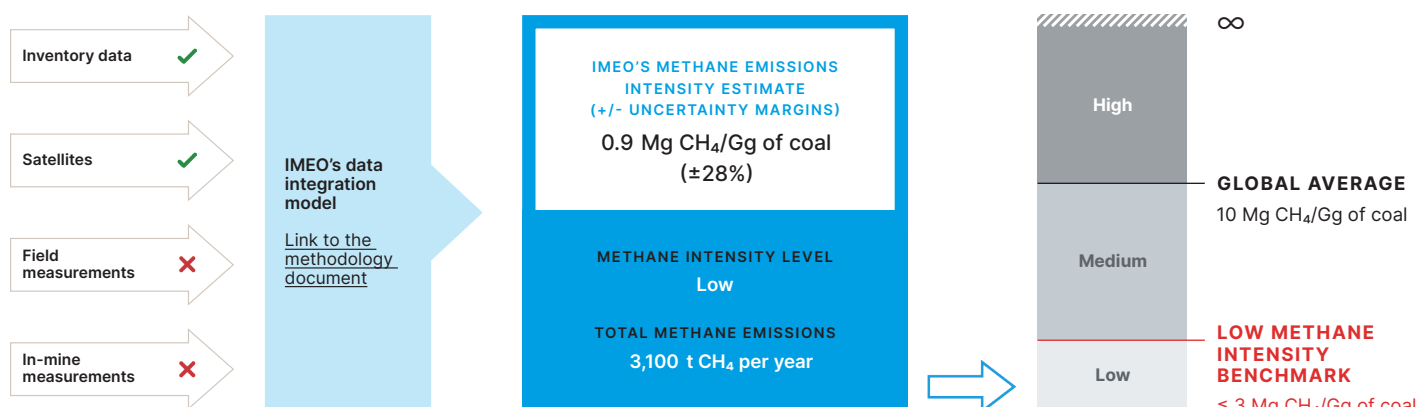
3.4 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

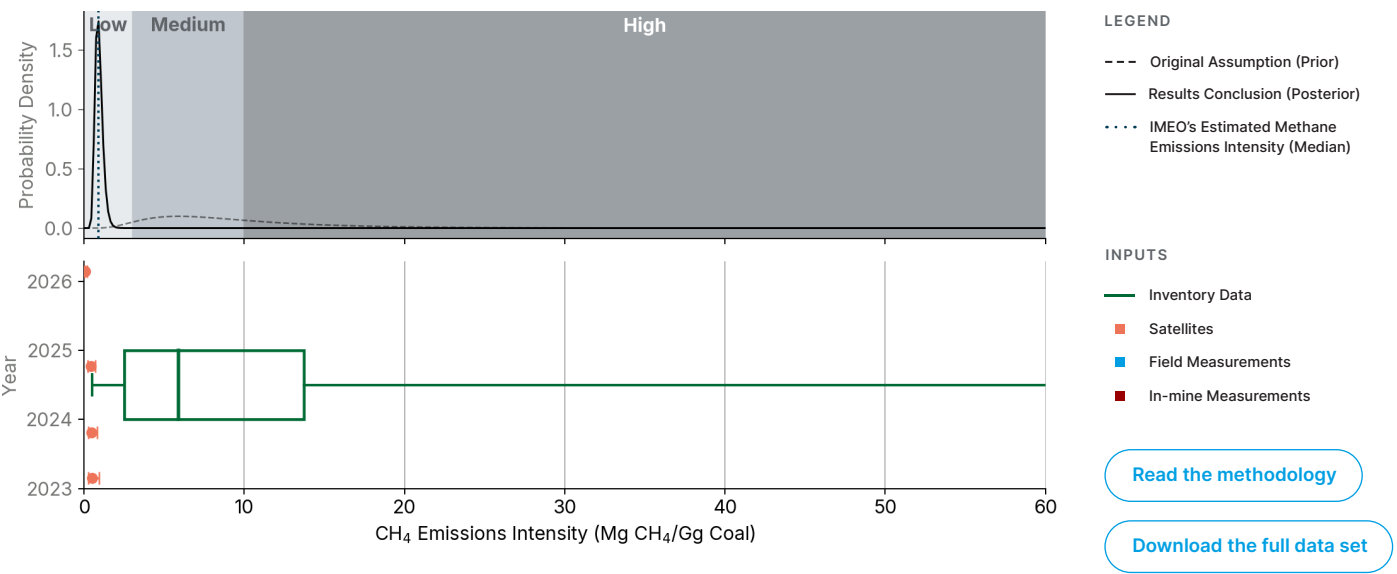
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DONGHUANTUO COAL MINE



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	2024	0.6	60%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.5	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	0.6	65%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.1	95%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	161%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	170%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	0	541%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

ZHAOLOU COAL MINE

LOCATION (LAT., LON.)

35.387, 115.9524

GEM MINE ID

M1252

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

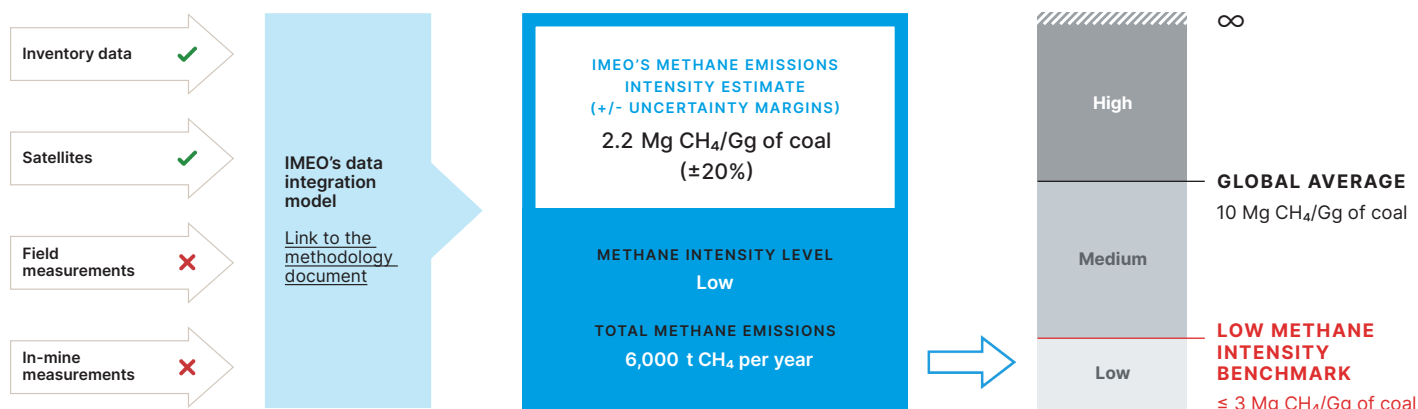
2.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

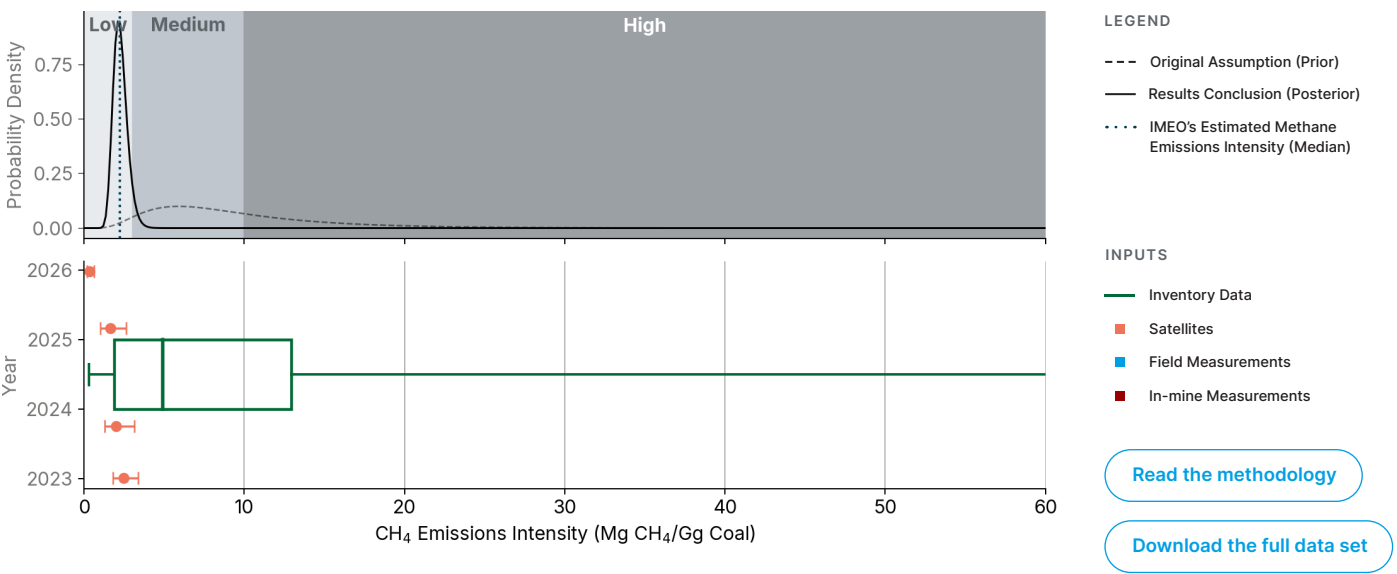
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ZHAOLOU COAL MINE



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	2023	2.6	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.8	49%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.4	68%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	149%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	159%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	0	759%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

GUOTUN COAL MINE

LOCATION (LAT., LON.) 35.5192, 115.9523

GEM MINE ID

M1926

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

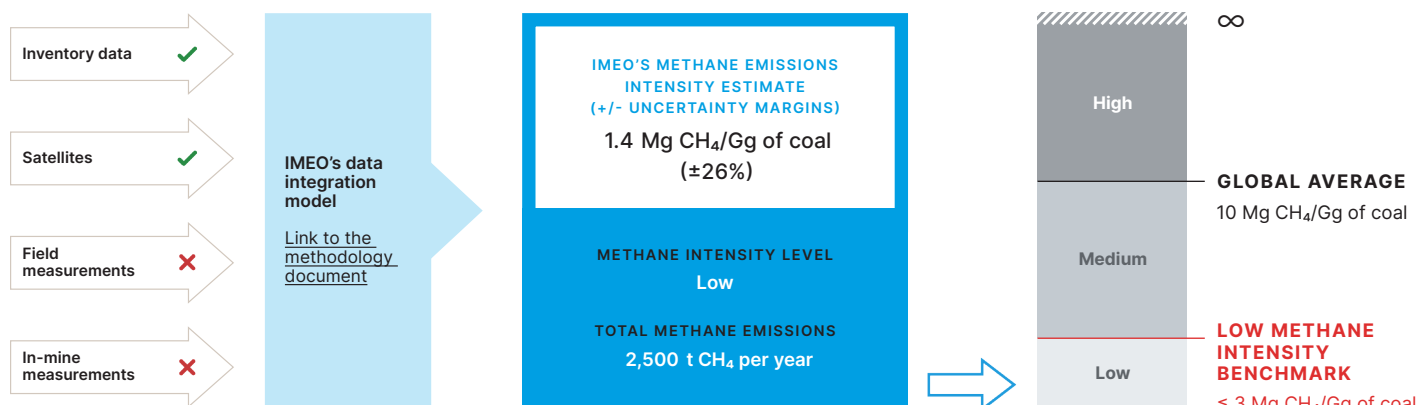
1.8 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

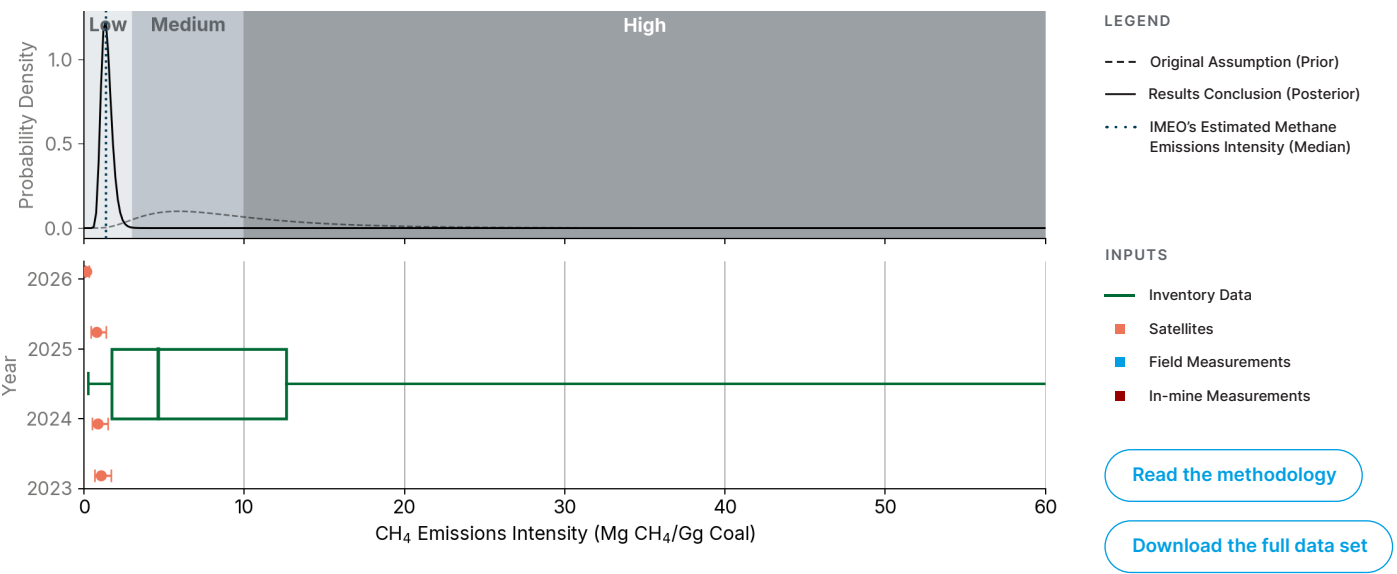
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 GUOTUN COAL MINE



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	2023	1.2	49%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	1	60%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.9	62%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2026	0.2	95%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	154%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	164%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	0	821%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

XIEGOU COAL MINE

LOCATION (LAT., LON.)

38.657, 111.1145

GEM MINE ID

M3823

MINING TYPE

Underground

COAL GRADE

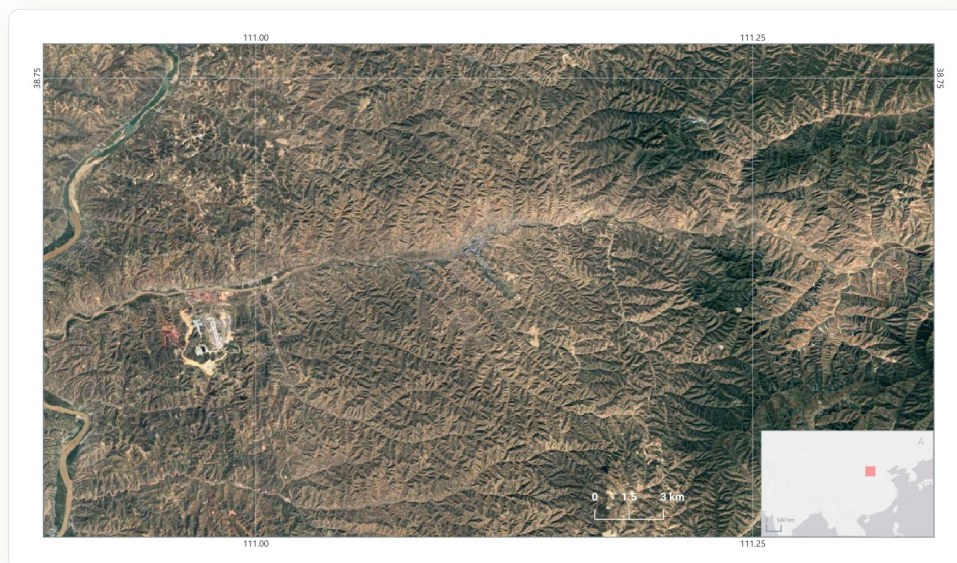
Metallurgical

ESTIMATED PRODUCTION

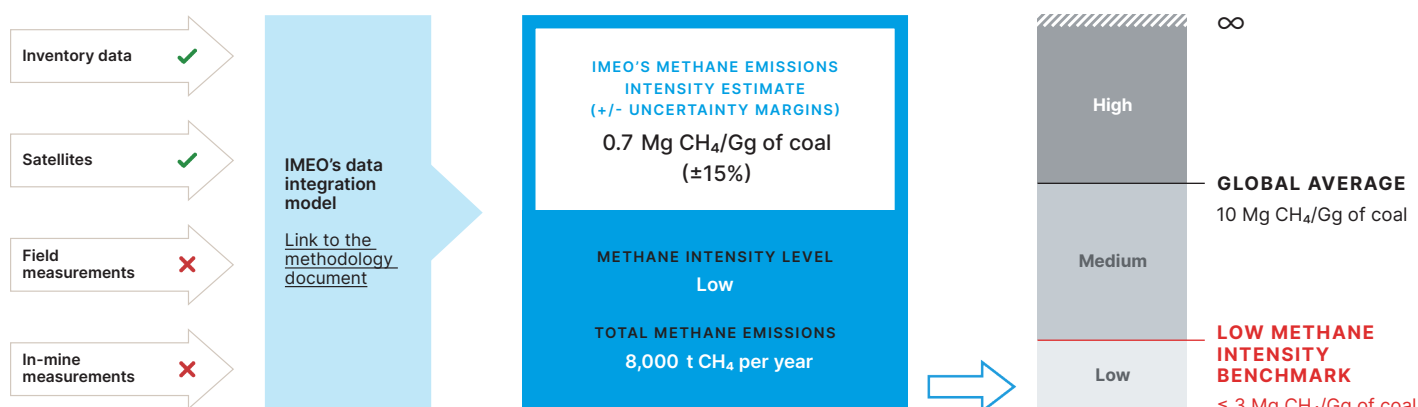
11.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

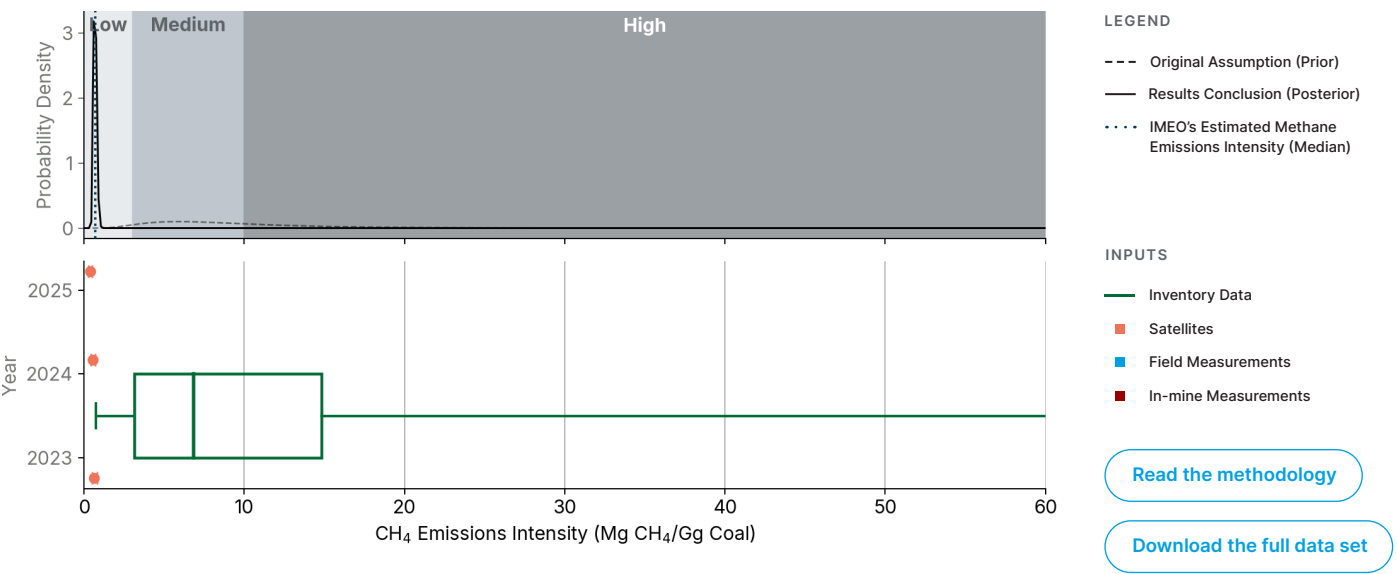
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XIEGOU COAL MINE



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	2023	0.7	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.6	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.4	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	20	141%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	151%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	0	451%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

SHUANGMA NO.1 COAL MINE

LOCATION (LAT., LON.) 37.7845, 106.8461

GEM MINE ID

M1200

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

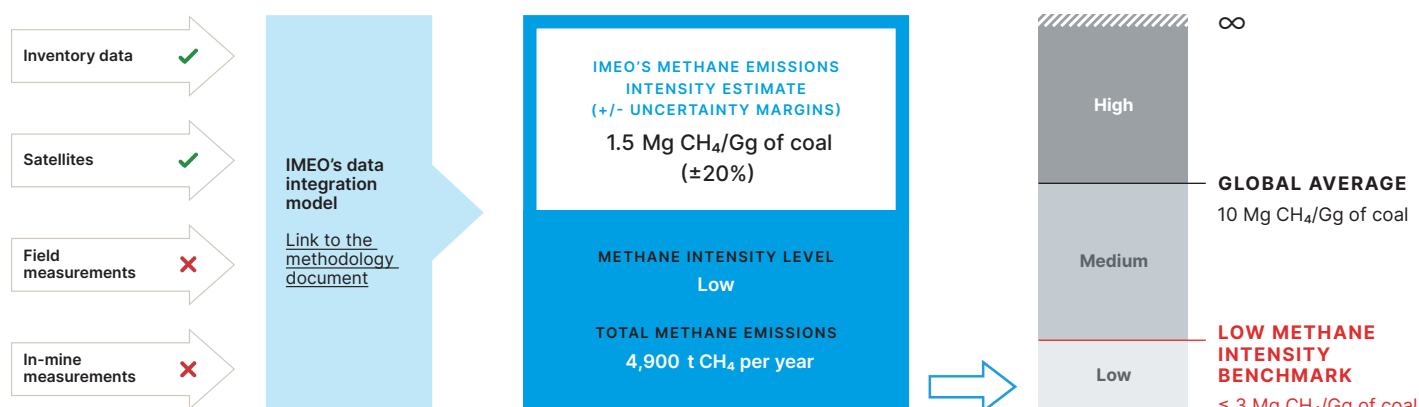
3.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

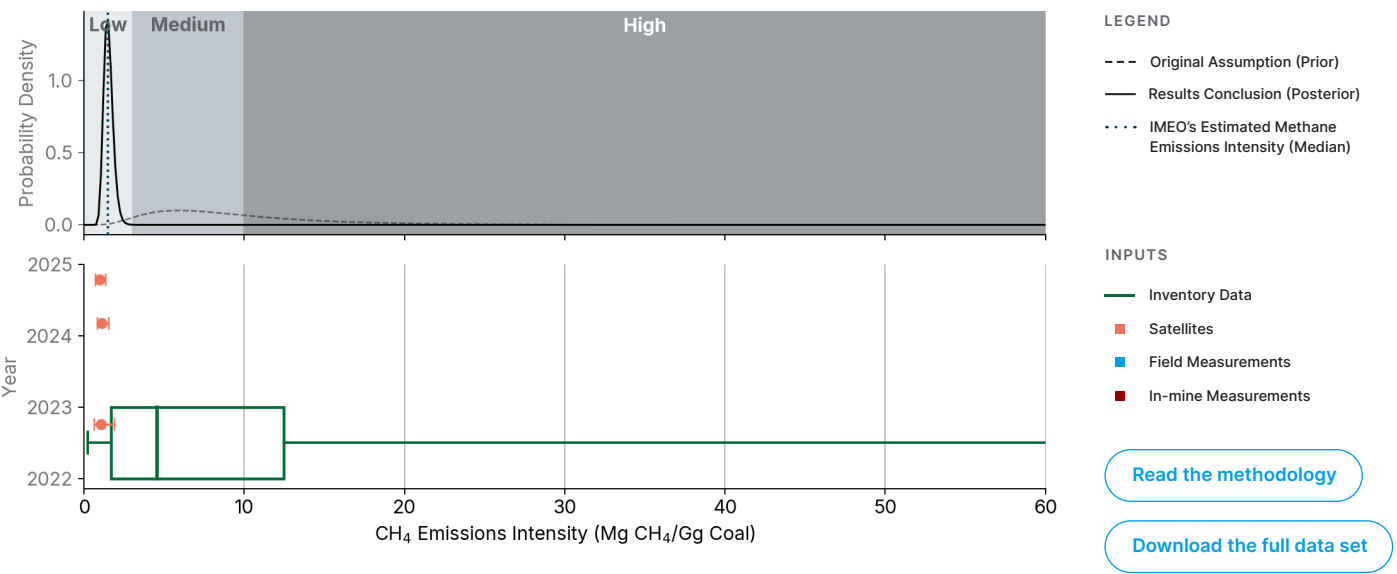
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 SHUANGMA NO.1 COAL MINE



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	2024	1.2	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	1.2	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	20	137%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	20	143%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	0	840%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

XUTUAN COAL MINE

LOCATION (LAT., LON.)

33.401, 116.7102

GEM MINE ID

M1238

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

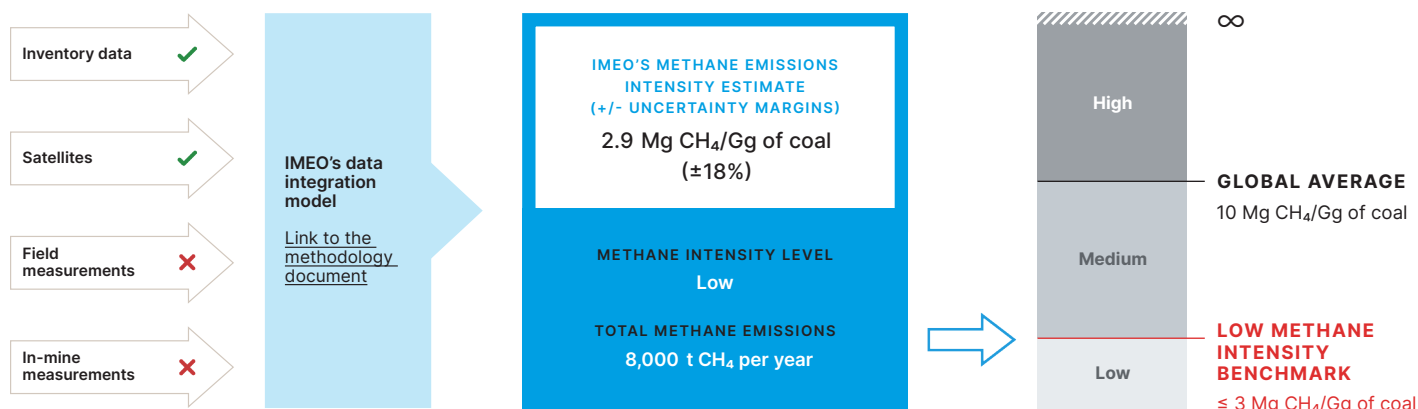
2.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

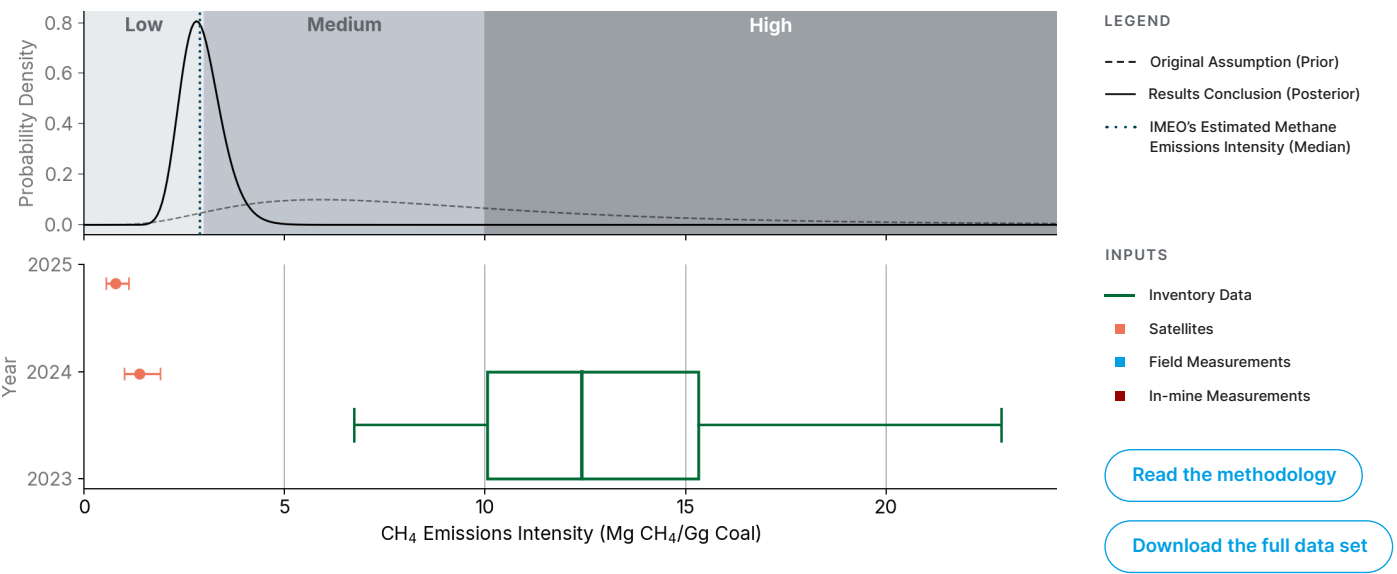
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 XUTUAN COAL MINE



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	2024	1.5	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	0.8	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	10	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019 ; Chinacace.org	Link ; Link
Inventory	2023	10	70%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link
Inventory	2023	10	89%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	20	105%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

CHAOCHUAN COAL MINE NO. 1 WELL

LOCATION (LAT., LON.) 34.0554, 112.8947

GEM MINE ID

M1834

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

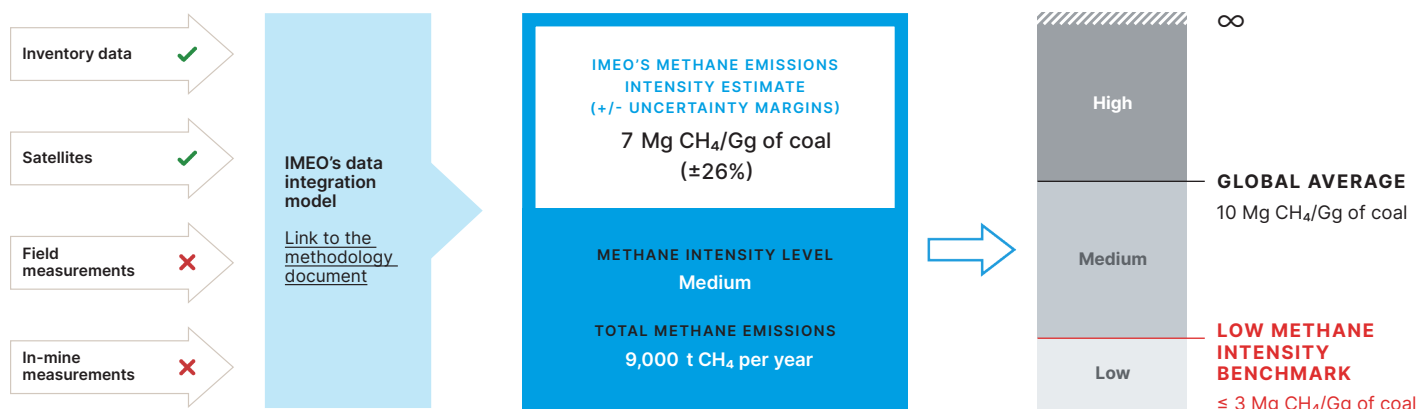
1.4 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

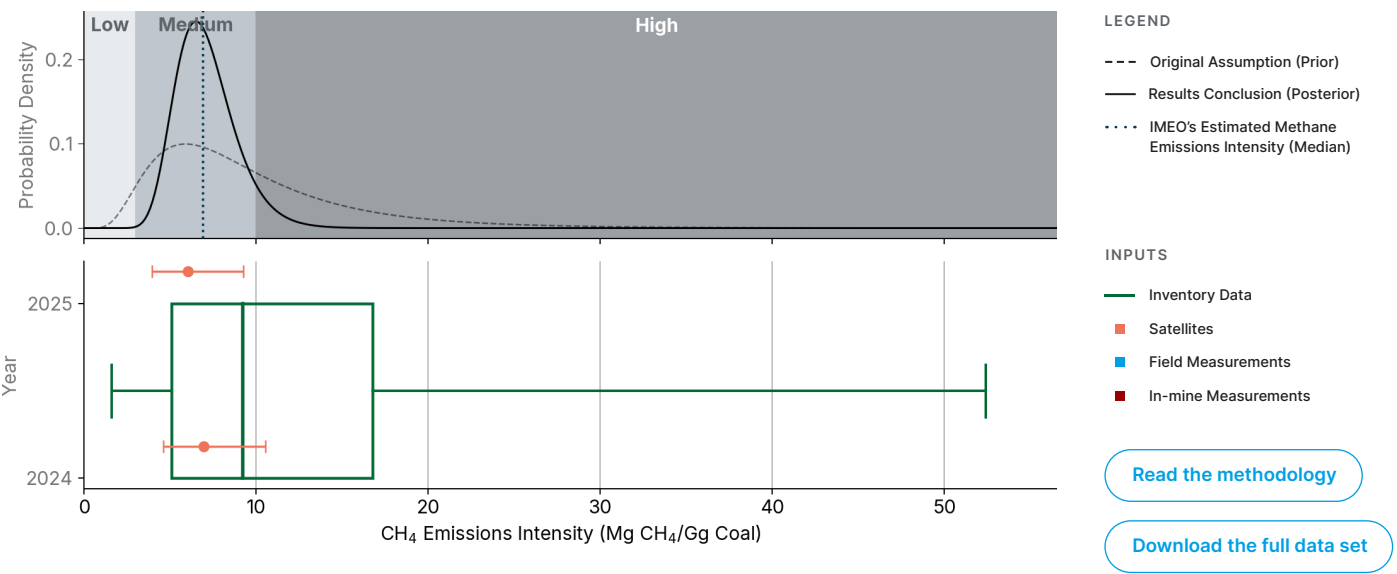
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 CHAOCHUAN COAL MINE NO. 1 WELL



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	2024	8	43%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	7	45%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	122%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	134%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	3	273%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

DONGRONG NO. 3 COAL MINE

LOCATION (LAT., LON.)

46.9125, 131.436

GEM MINE ID

M1886

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

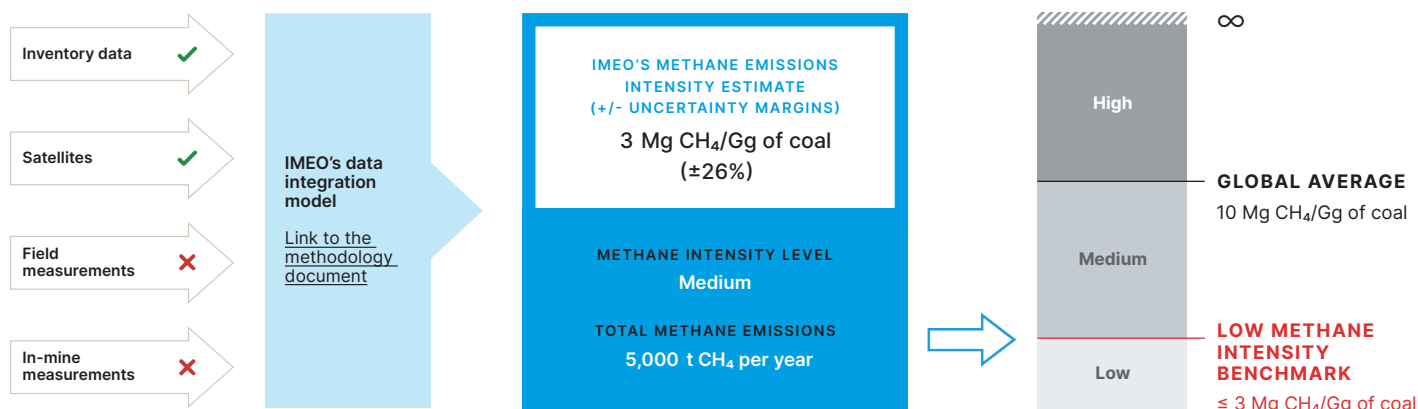
1.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

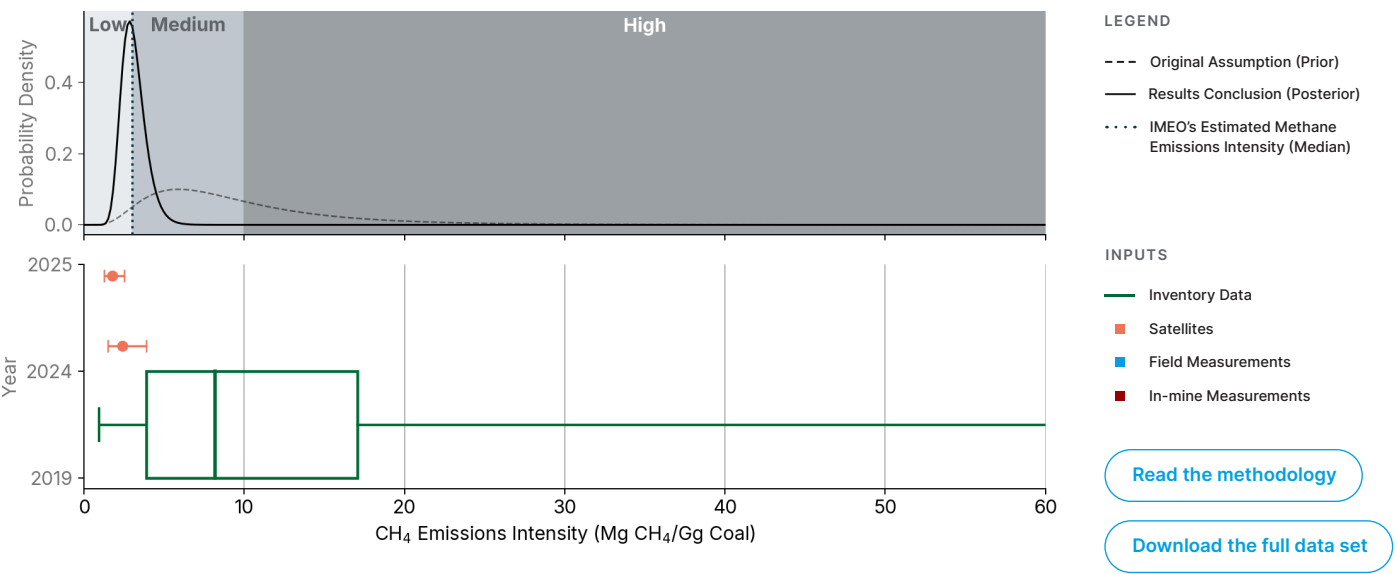
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 DONGRONG NO. 3 COAL MINE



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	1.9	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	3	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2019	20	132%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2019	20	138%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2019	0	416%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

YANGCHENG COAL MINE

LOCATION (LAT., LON.) 35.7697, 116.3201

GEM MINE ID

M2251

MINING TYPE

Underground

COAL GRADE

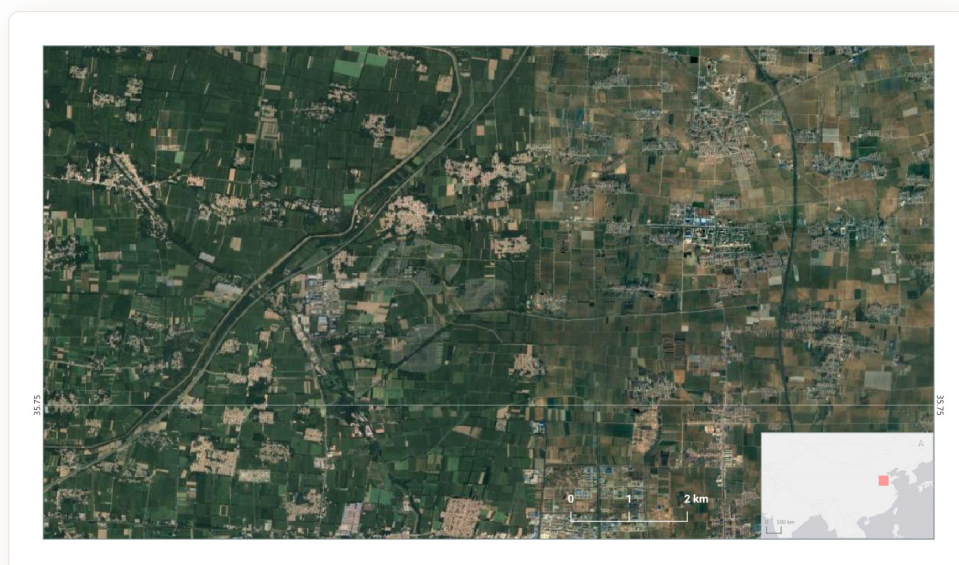
Thermal & Metallurgical

ESTIMATED PRODUCTION

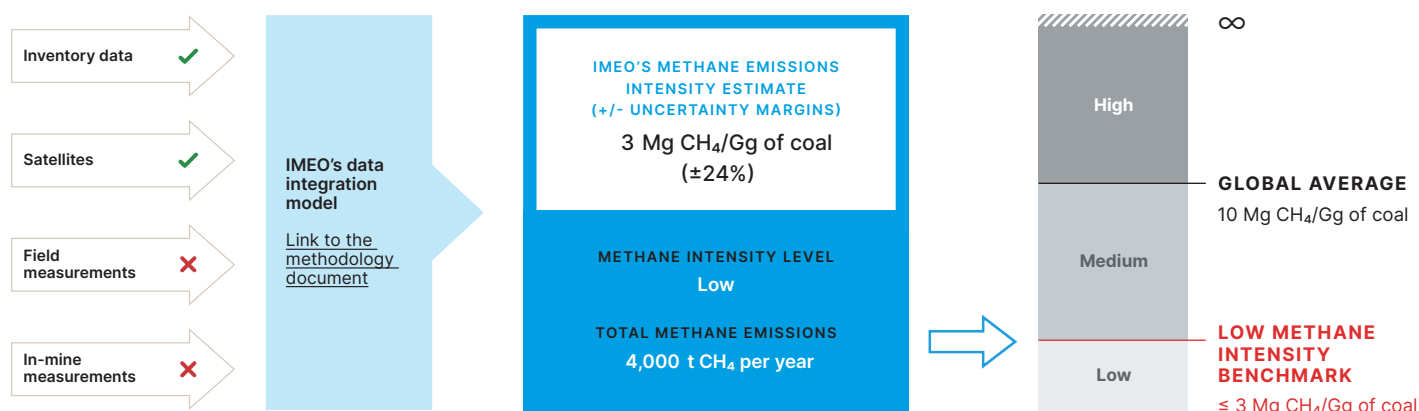
1.4 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

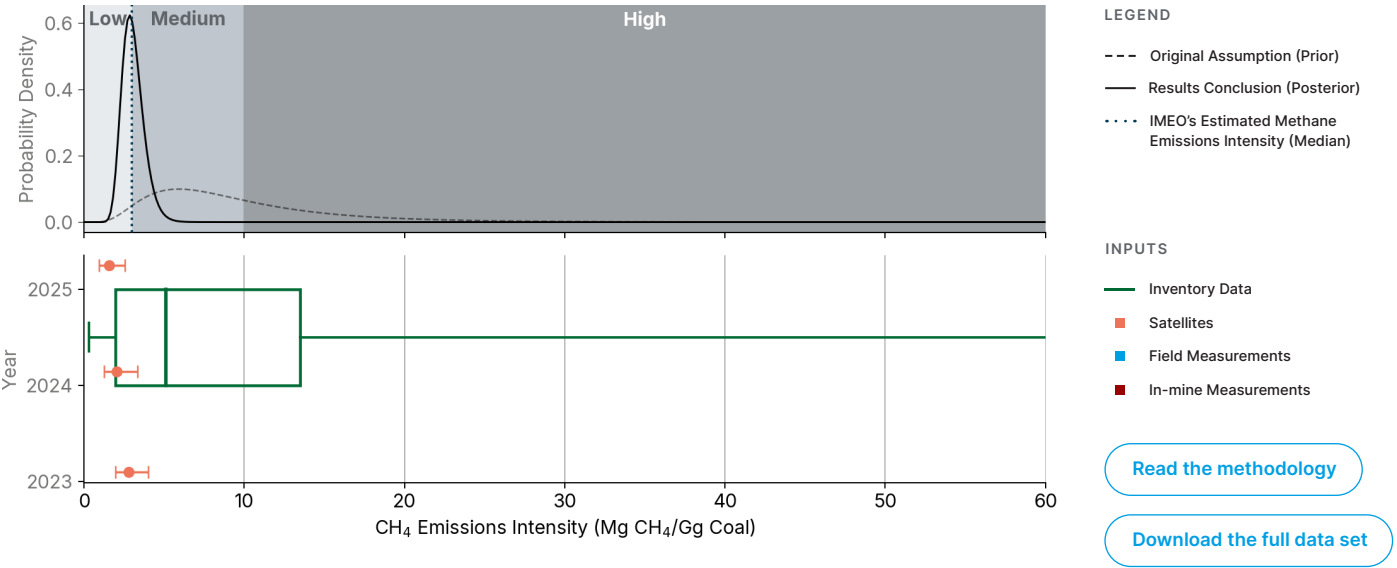
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 YANGCHENG COAL MINE



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	2023	3	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	1.8	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	143%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	159%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	0	755%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link

QUANDIAN COAL MINE

LOCATION (LAT., LON.) 34.0753, 113.6349

GEM MINE ID

M2092

MINING TYPE

Underground

COAL GRADE

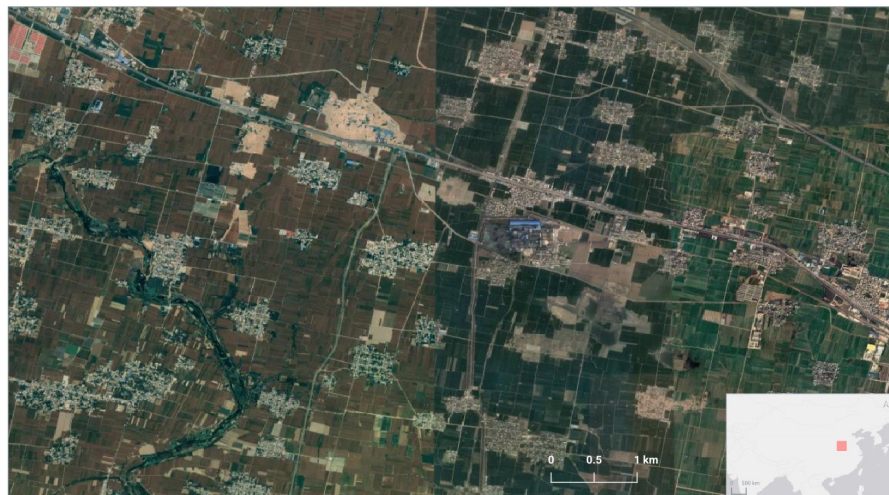
Metallurgical

ESTIMATED PRODUCTION

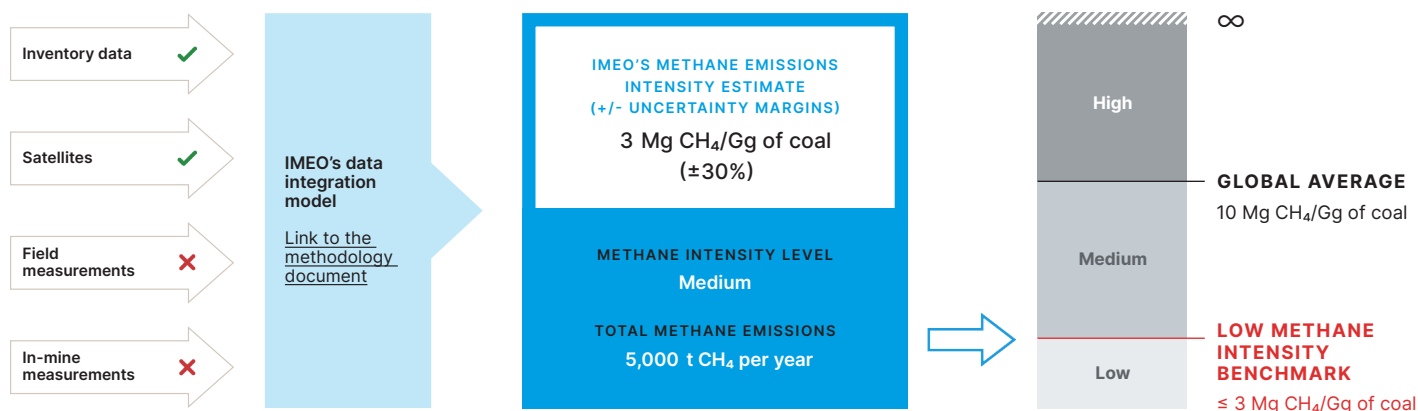
1.6 Mtpa (2024)

ADDITIONAL MINE INFORMATION

<https://globalenergymonitor.org/projects/global-coal-mine-tracker/>



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.

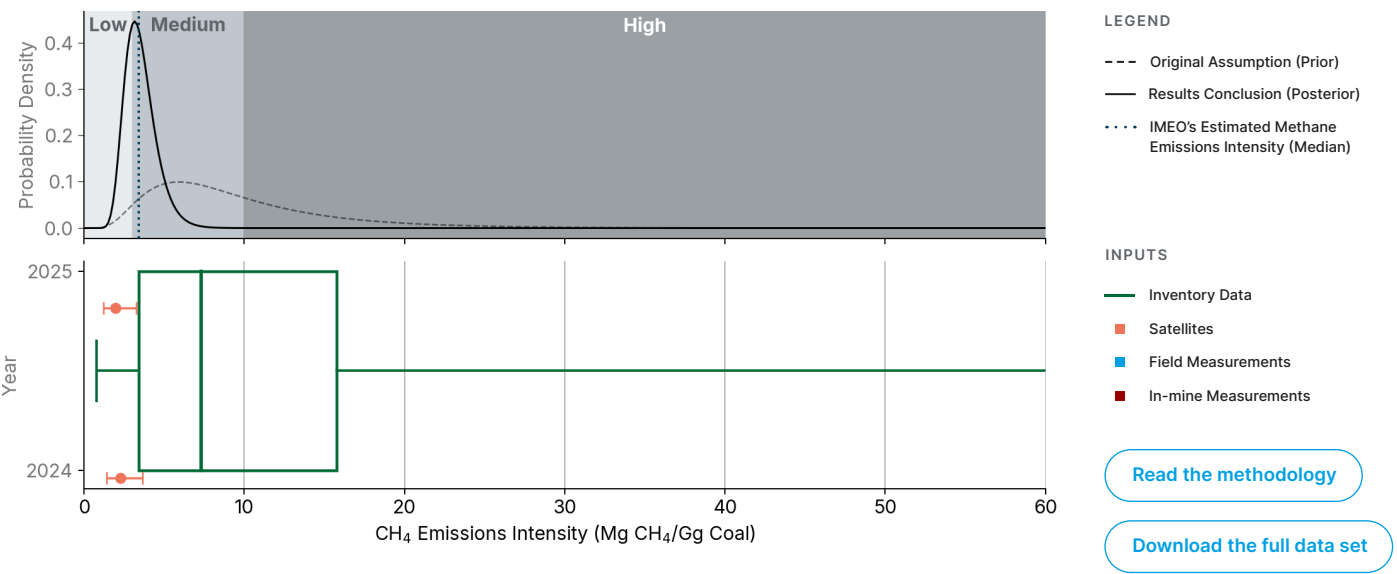
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 QUANDIAN COAL MINE



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	2024	3	51%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	2	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	20	150%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	20	157%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	0	437%	Mg CH ₄ /Gg Coal	Tier-2-03	Wang et al., 2019	Link