

STEEL METHANE PROGRAMME //
COAL METHANE DATABASE MINE DATA SHEETS

RUSSIAN FEDERATION

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.

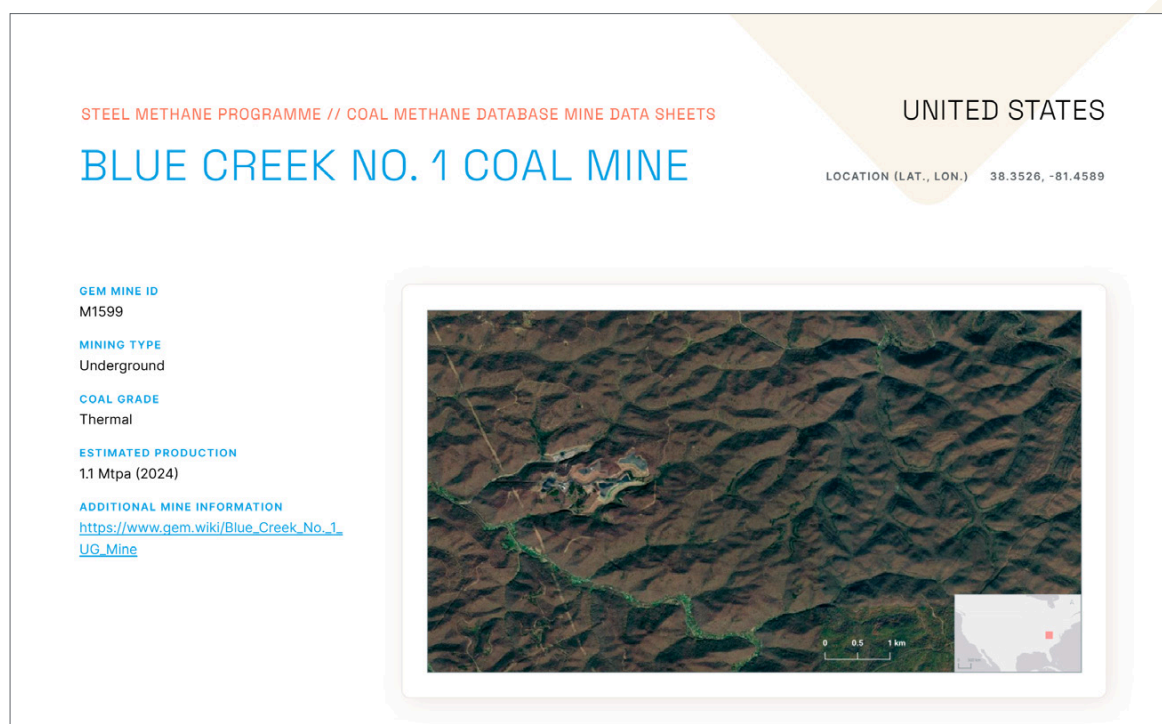
How to read mine data sheets

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.



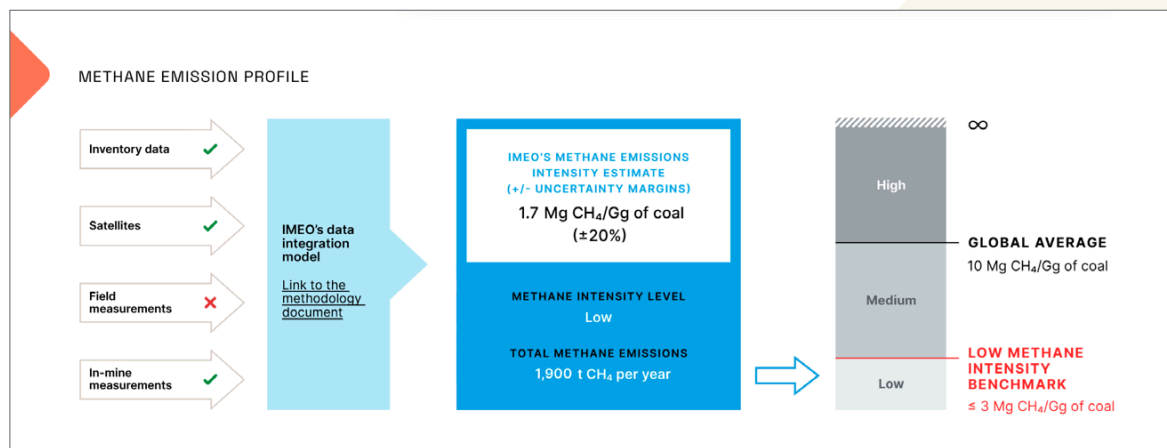
Methane emission profile

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.

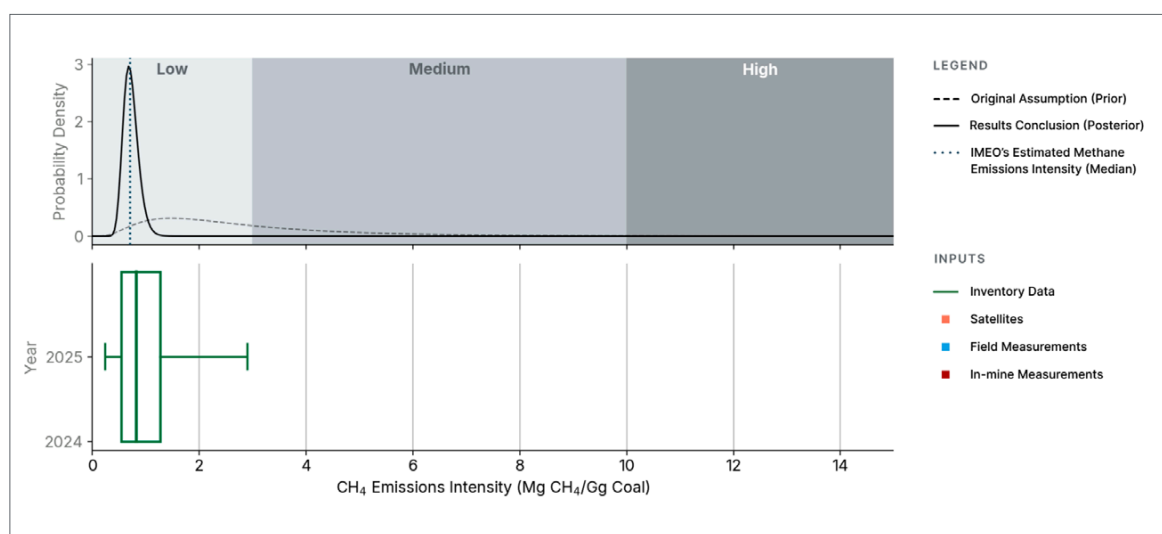


Data inputs and integration results

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.

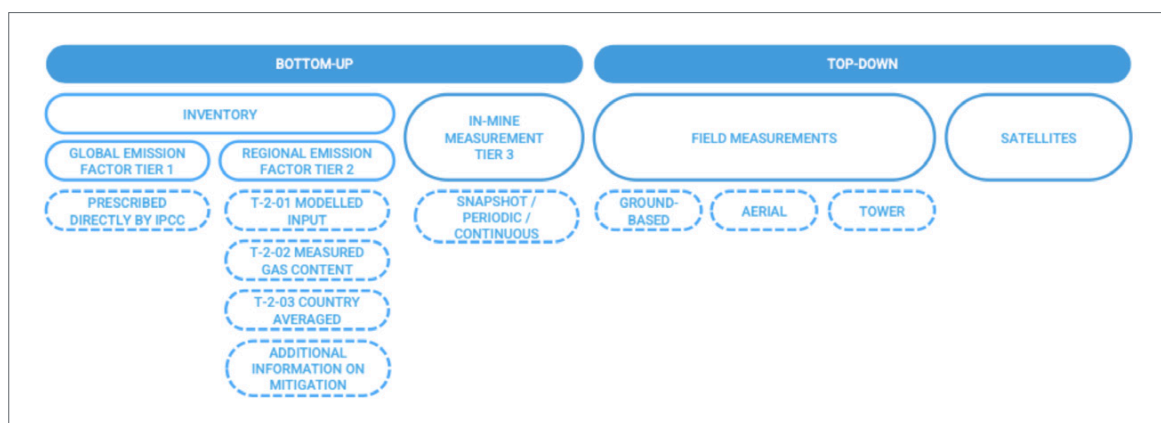
The relative influence of individual data inputs within the integration model is informed by their relative uncertainties, which have been attenuated by multiple factors including data recency, location of measurement in production chain (before or after potential mitigation), and data source trust.



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.

NERYUNGRINSKY COAL MINE

LOCATION (LAT., LON.) 56.7048, 124.5908

GEM MINE ID

M0822

MINING TYPE

Surface

COAL GRADE

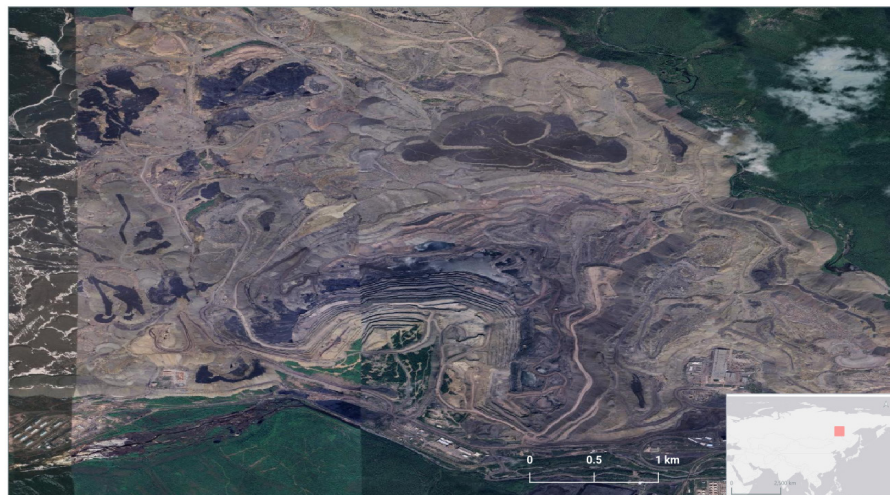
Thermal & Metallurgical

ESTIMATED PRODUCTION

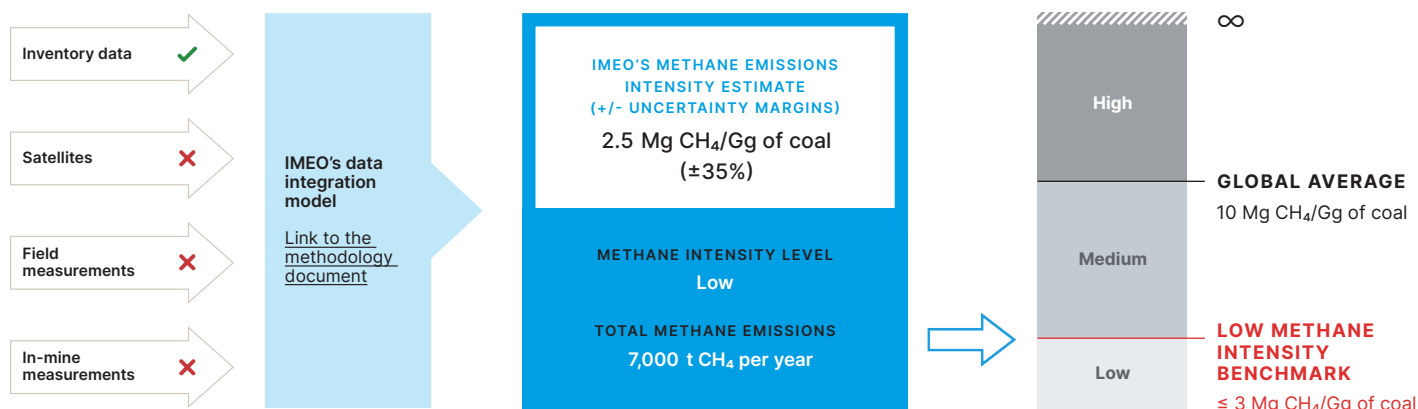
2.6 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Neryungrinsky_coal_mine



METHANE EMISSION PROFILE



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

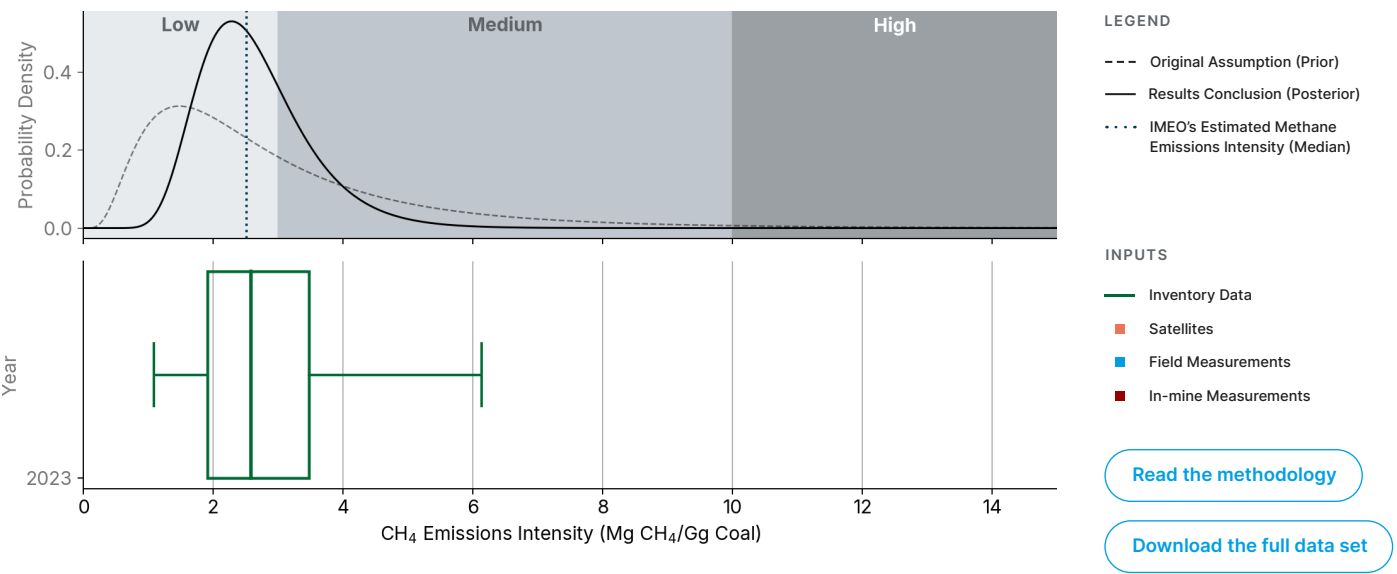
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR NERYUNGRINSKY 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	2023	4	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	3	75%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	1	106%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

INAGLINSKY SURFACE COAL MINE

LOCATION (LAT., LON.) 56.9436, 124.7506

GEM MINE ID

M0798

MINING TYPE

Surface

COAL GRADE

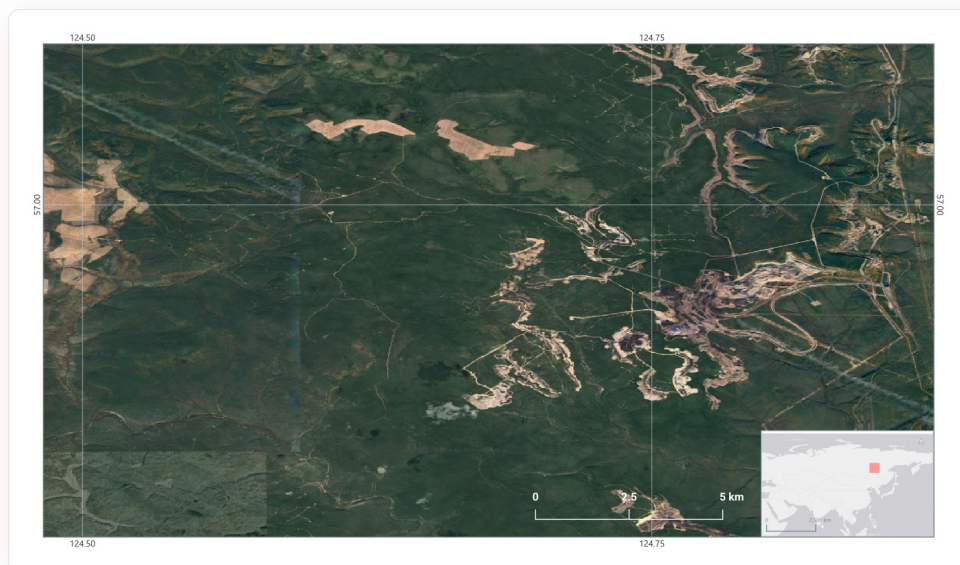
Metallurgical

ESTIMATED PRODUCTION

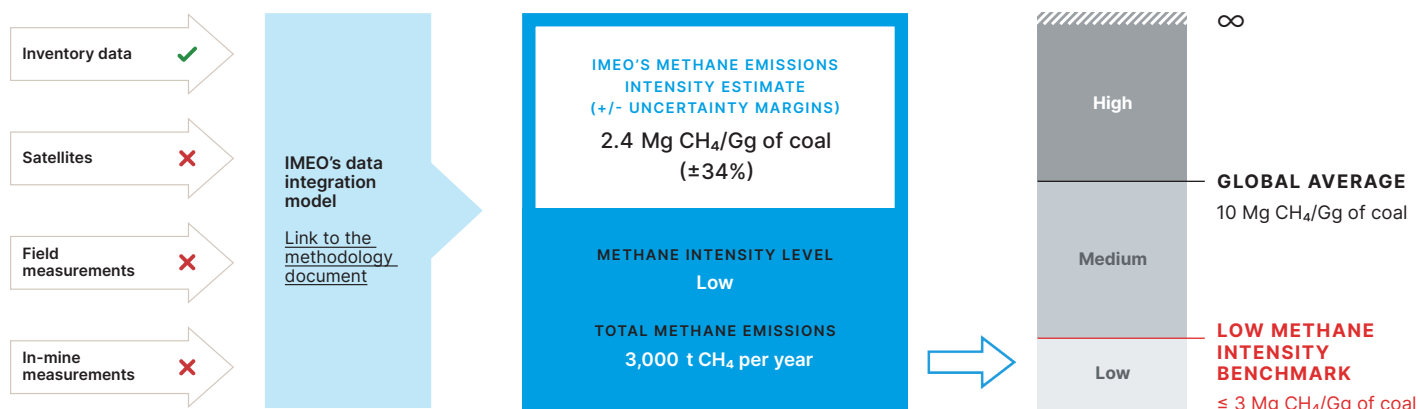
1.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Inaglinskiy_Surface_coal_mine



METHANE EMISSION PROFILE



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

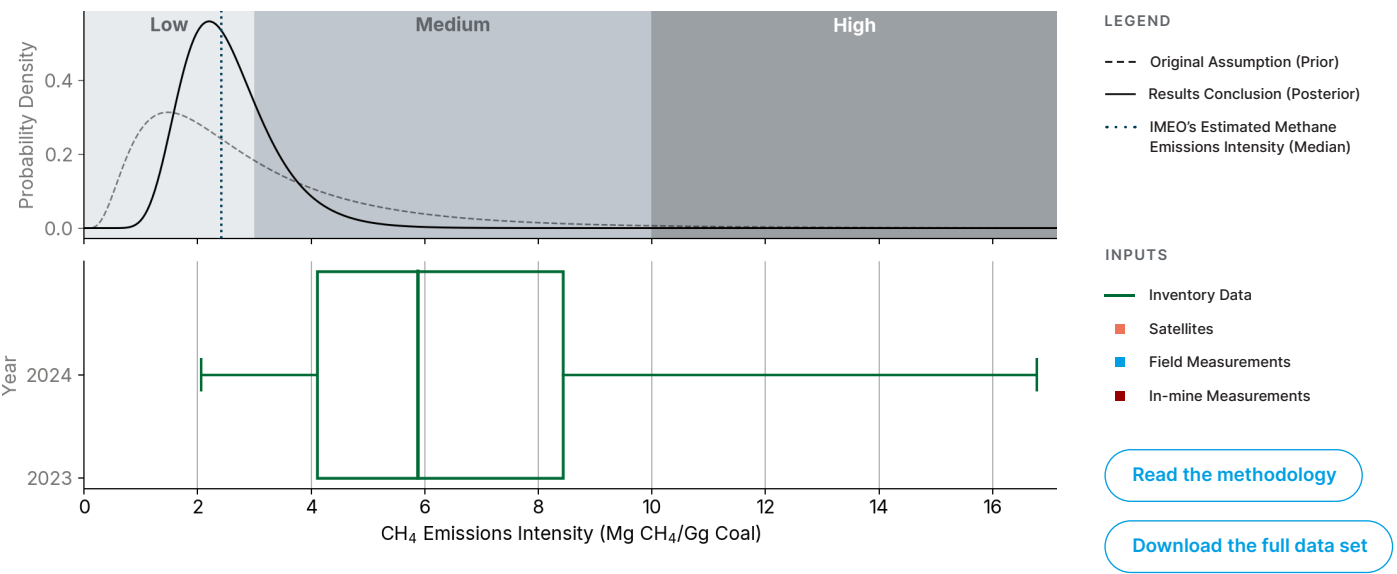
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 INAGLINSKY SURFACE 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	2023	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	2	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	119%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	227%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

BARZASSKOYE TOVARISCHESTVO COAL MINE

LOCATION (LAT., LON.) 55.7255, 86.0176

GEM MINE ID

M0773

MINING TYPE

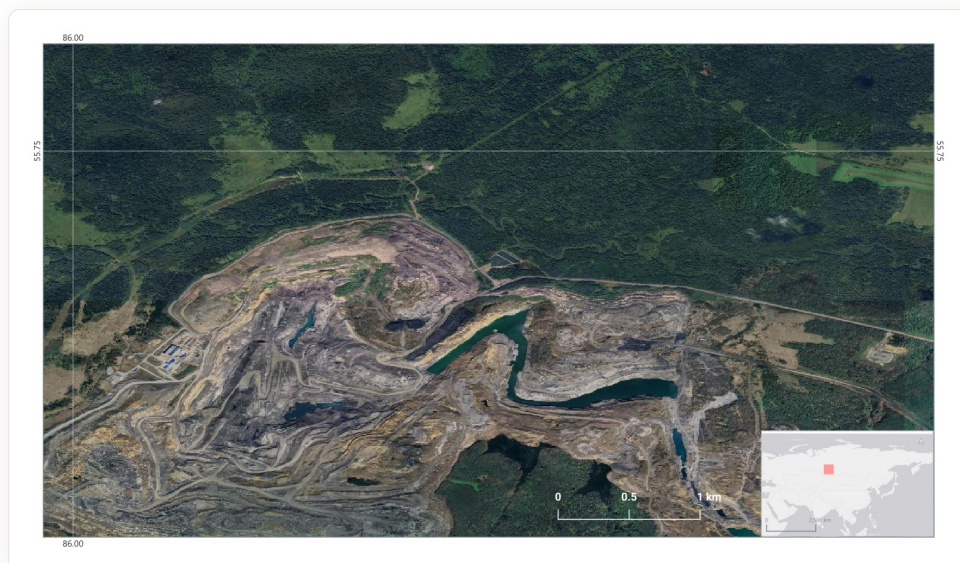
Surface

COAL GRADE

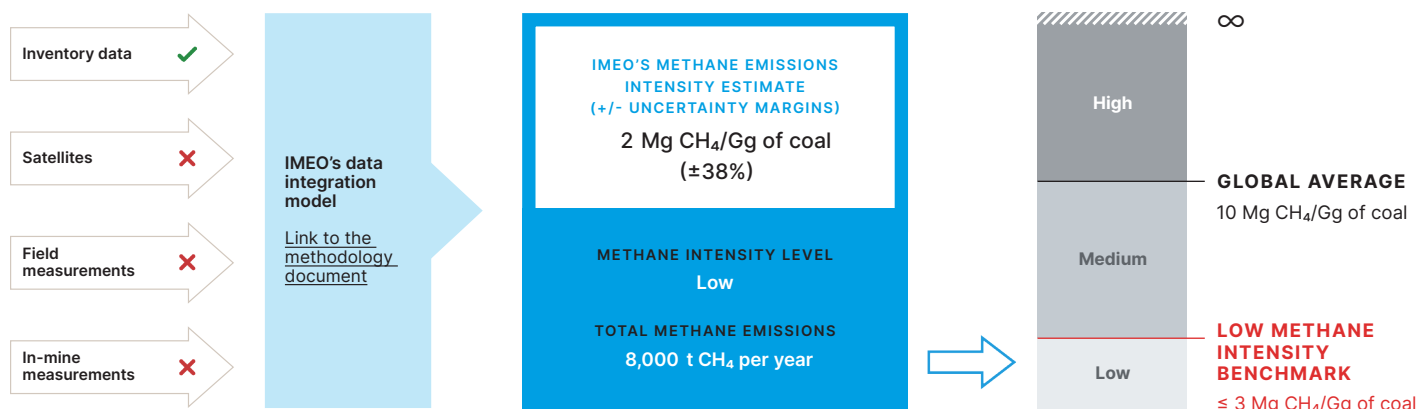
Thermal & Metallurgical

ESTIMATED PRODUCTION

4.3 Mtpa (2023)

ADDITIONAL MINE INFORMATION
https://www.gem.wiki/Barzasskoye_tovarischestvo_Coal_Mine


METHANE EMISSION PROFILE



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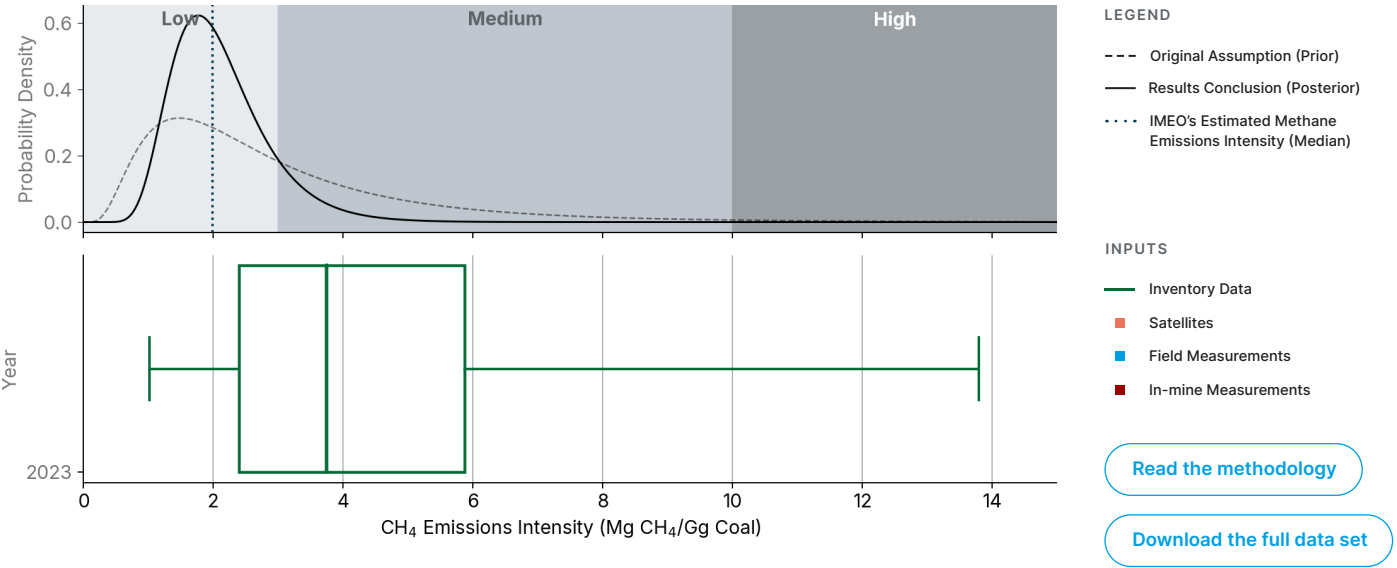
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 BARZASSKOYE TOVARISCHESTVO 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	2023	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	3	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	252%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link

MEZHDURECHENSKIY COAL MINE

LOCATION (LAT., LON.) 53.6564, 87.9279

GEM MINE ID

M1271

MINING TYPE

Surface

COAL GRADE

Thermal & Metallurgical

ESTIMATED PRODUCTION

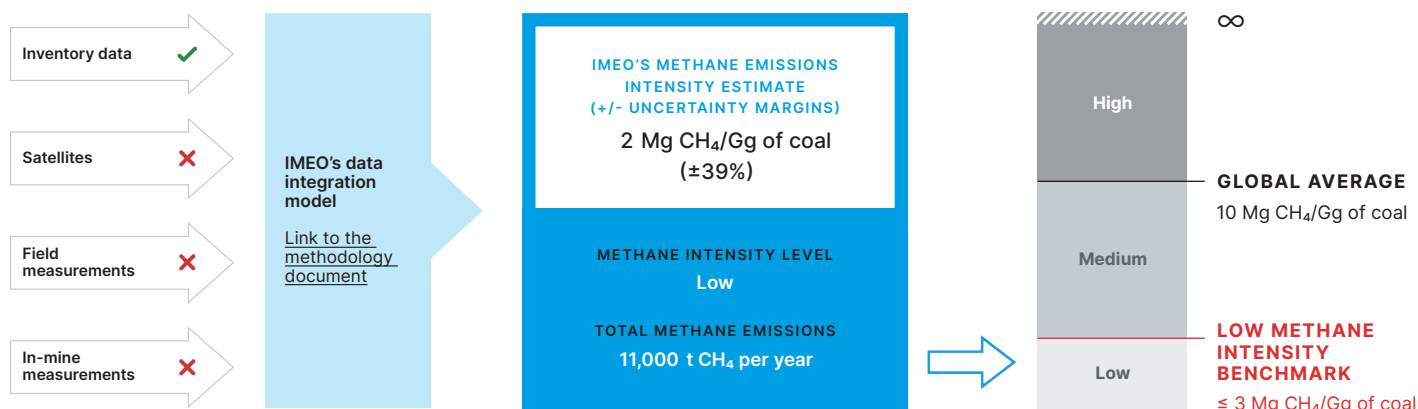
5.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Mezhdurechenskiy_coal_mine



METHANE EMISSION PROFILE



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

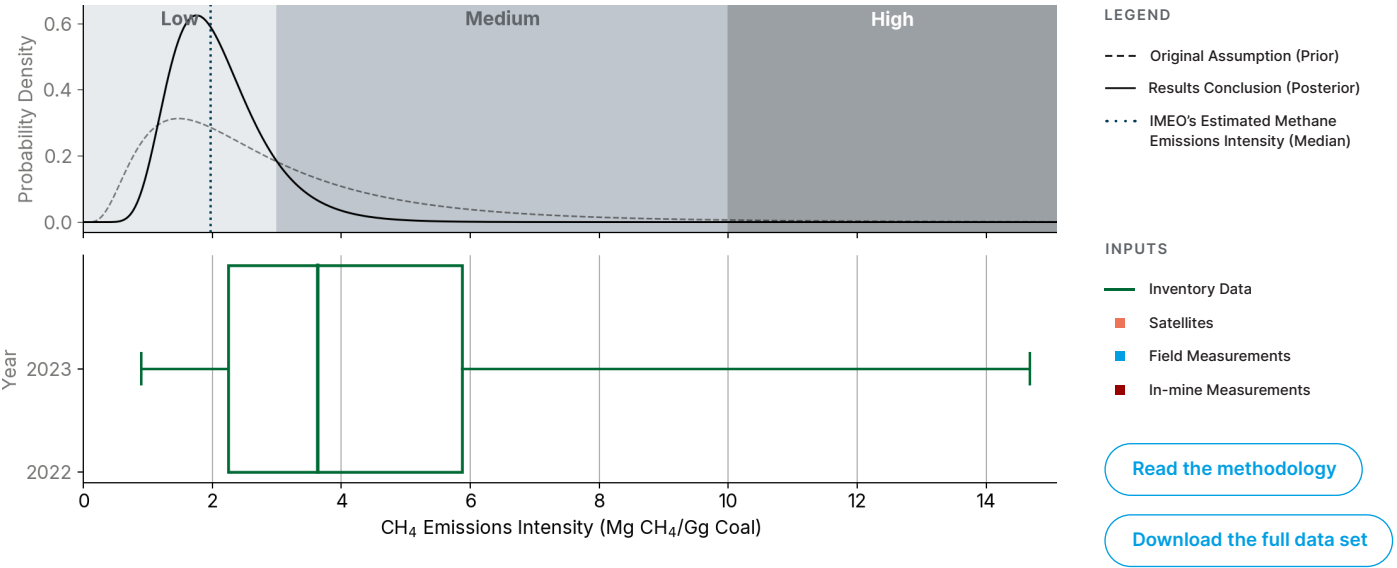
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 MEZHDURECHENSKIY 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	2023	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	3	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	283%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link

RAZREZ RASPADSKY COAL MINE

LOCATION (LAT., LON.)

53.8318, 88.1846

GEM MINE ID

M0838

MINING TYPE

Surface

COAL GRADE

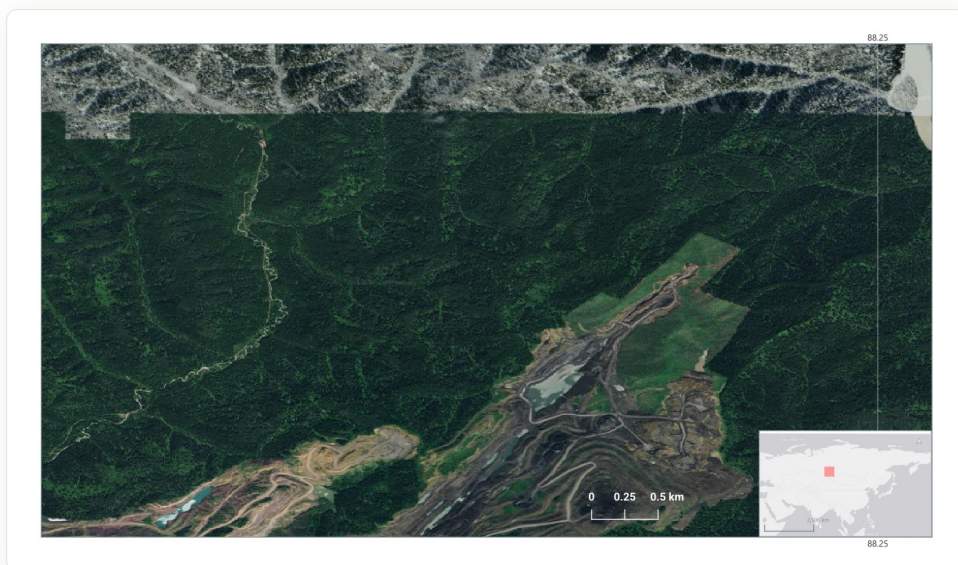
Metallurgical

ESTIMATED PRODUCTION

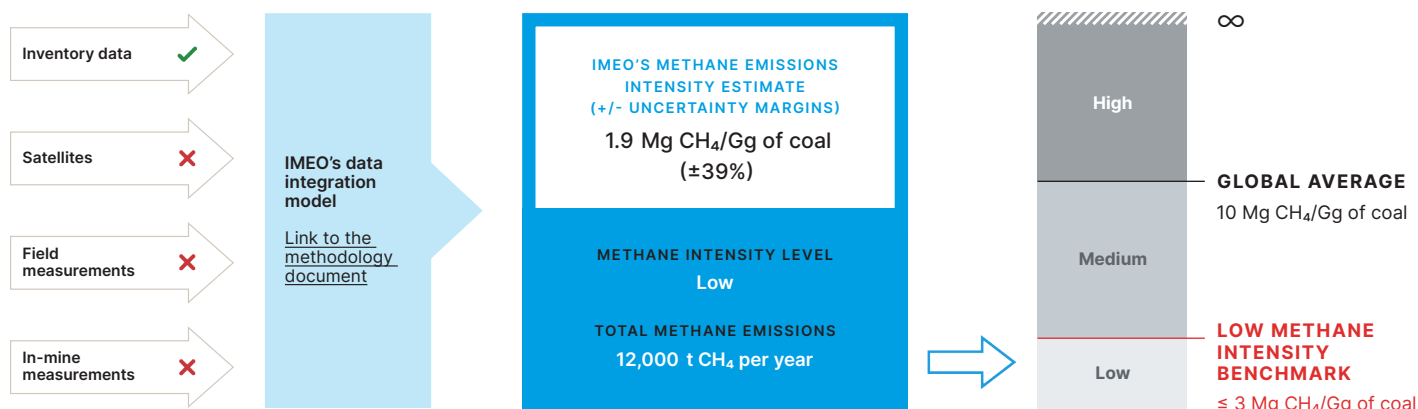
6.4 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Razrez_Raspadsky_coal_mine



METHANE EMISSION PROFILE



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

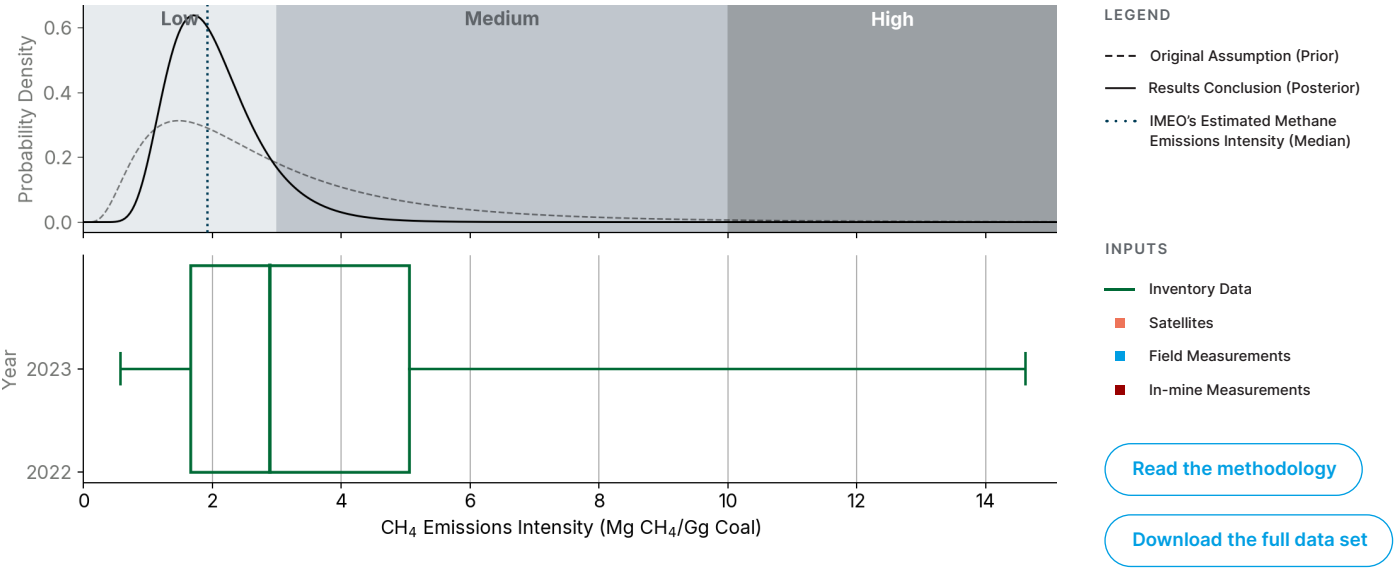
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 RAZREZ RASPADSKY 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	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	3	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	362%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link

ELGINSKIY COAL MINE

LOCATION (LAT., LON.) 56.1924, 130.6358

GEM MINE ID

M0794

MINING TYPE

Surface

COAL GRADE

Metallurgical

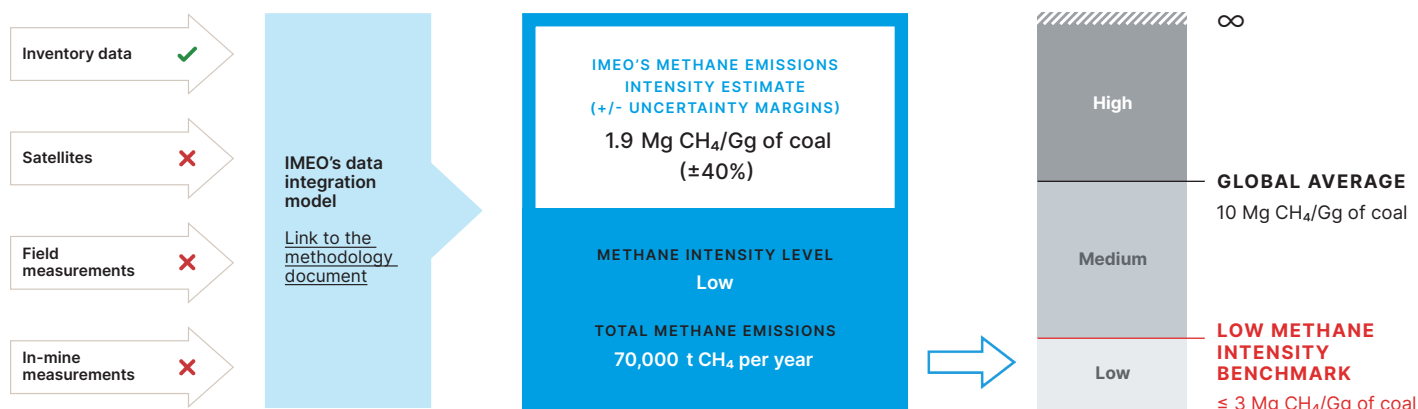
ESTIMATED PRODUCTION

37.3 Mtpa (2024)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Elginskiy_Coal_Mine

METHANE EMISSION PROFILE



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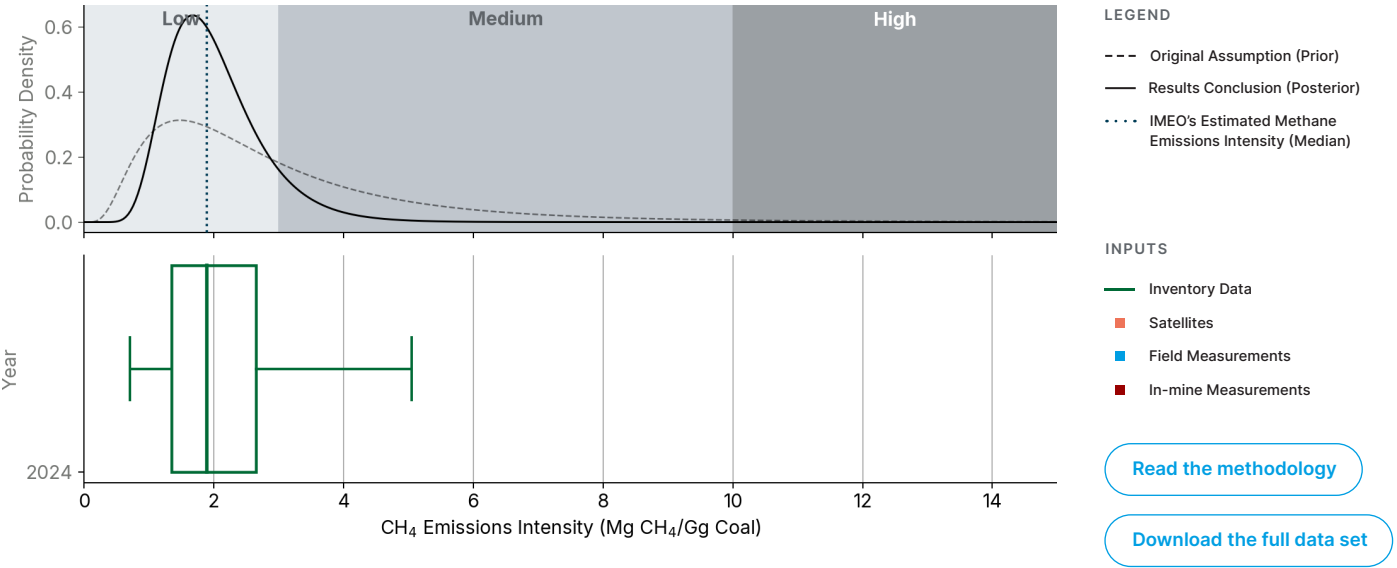
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 ELGINSKIY 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	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	3	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

BACHATSKY COAL MINE

LOCATION (LAT., LON.) 54.2994, 86.1458

GEM MINE ID

M0772

MINING TYPE

Surface

COAL GRADE

Thermal & Metallurgical

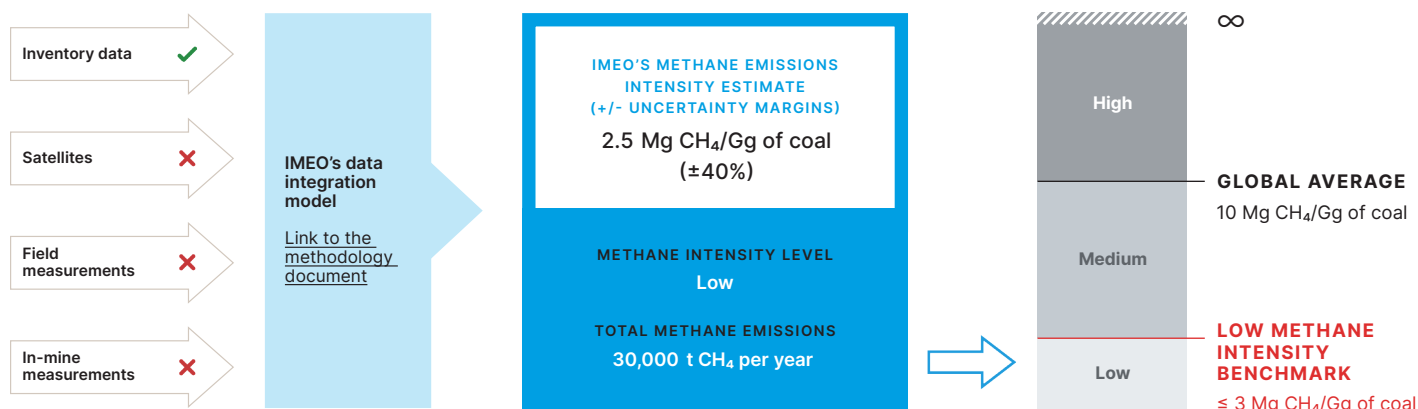
ESTIMATED PRODUCTION

13.4 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Bachatsky_coal_mine

METHANE EMISSION PROFILE



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

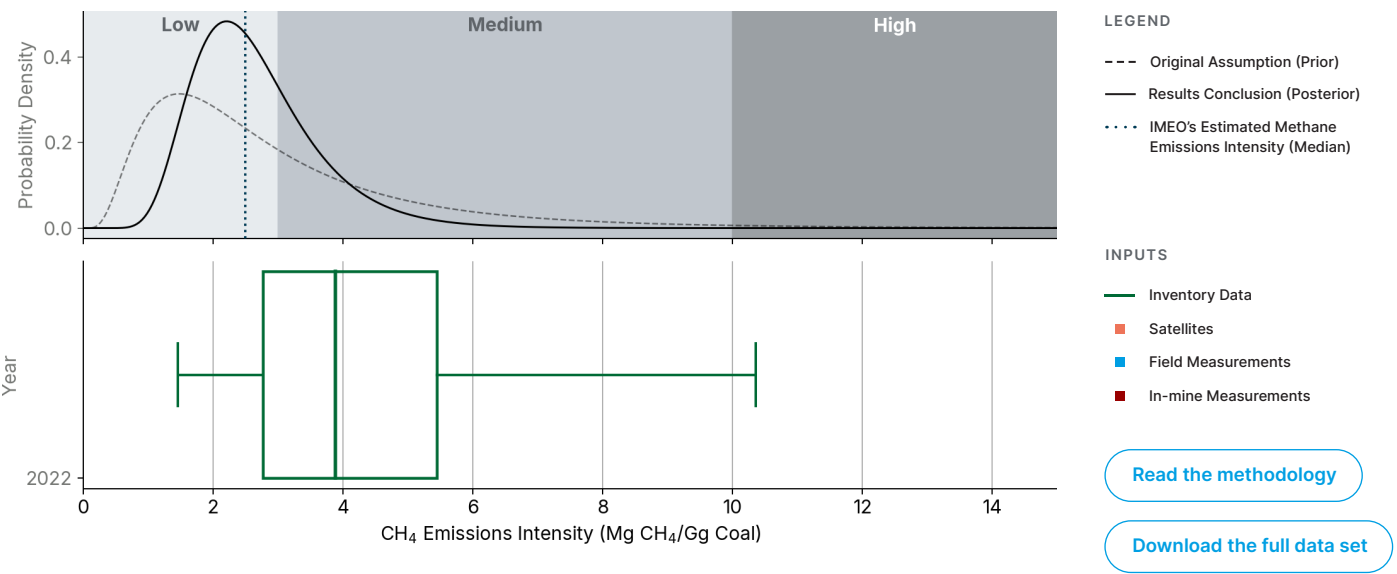
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 BACHATSKY 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	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	9	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

KRASNOBRODSKY COAL MINE

LOCATION (LAT., LON.) 54.1678, 86.4733

GEM MINE ID

M0812

MINING TYPE

Surface

COAL GRADE

Thermal & Metallurgical

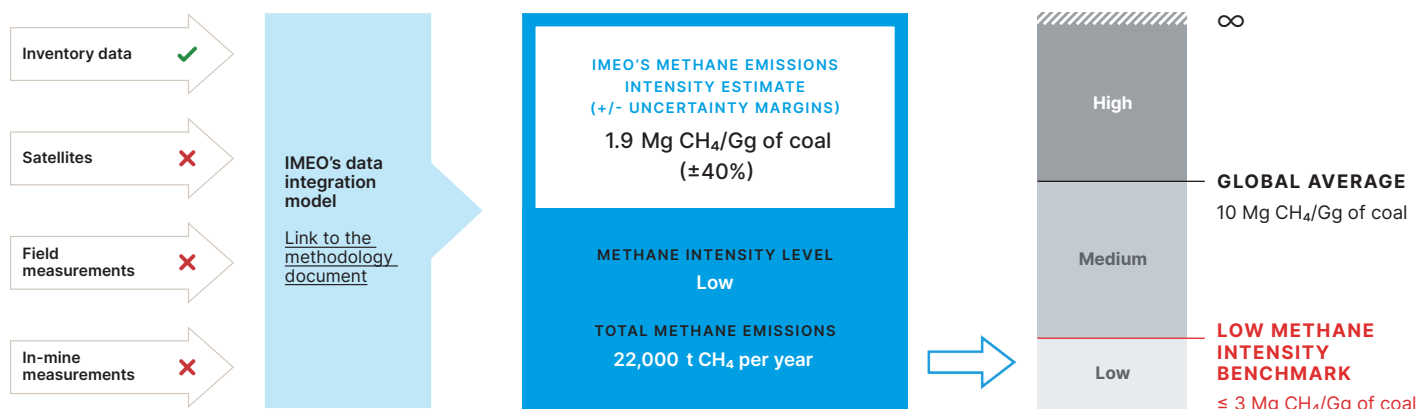
ESTIMATED PRODUCTION

11.8 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Krasnobrodsky_coal_mine


METHANE EMISSION PROFILE



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

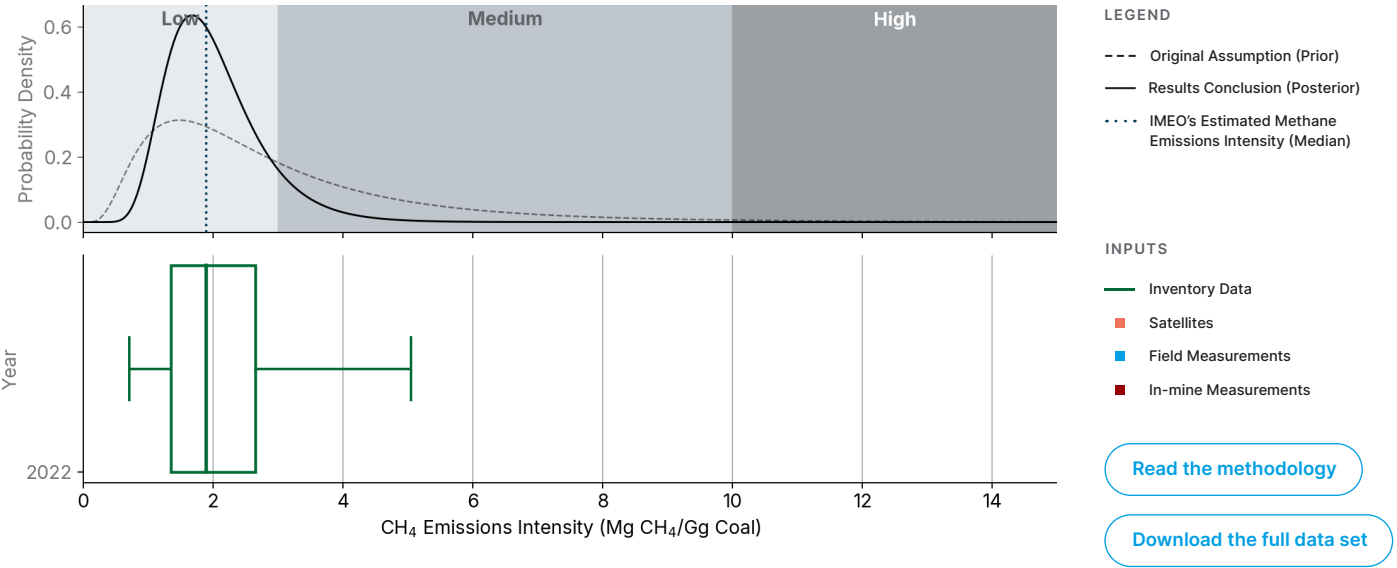
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 KRASNOBRODSKY 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	3	62%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	3	88%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	1	119%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

RASPADSKAYA COAL MINE

LOCATION (LAT., LON.) 53.7841, 88.0824

GEM MINE ID

M0836

MINING TYPE

Underground

COAL GRADE

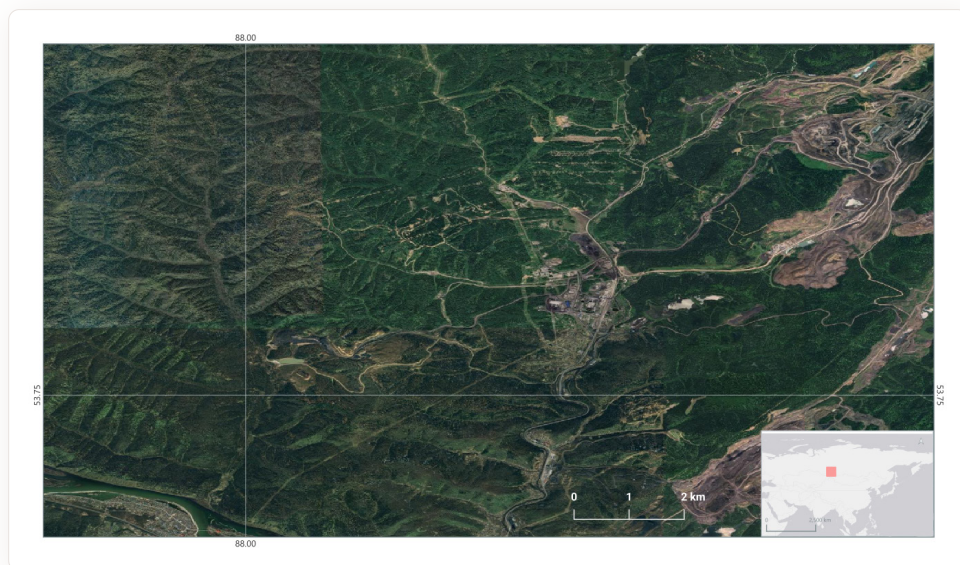
Metallurgical

ESTIMATED PRODUCTION

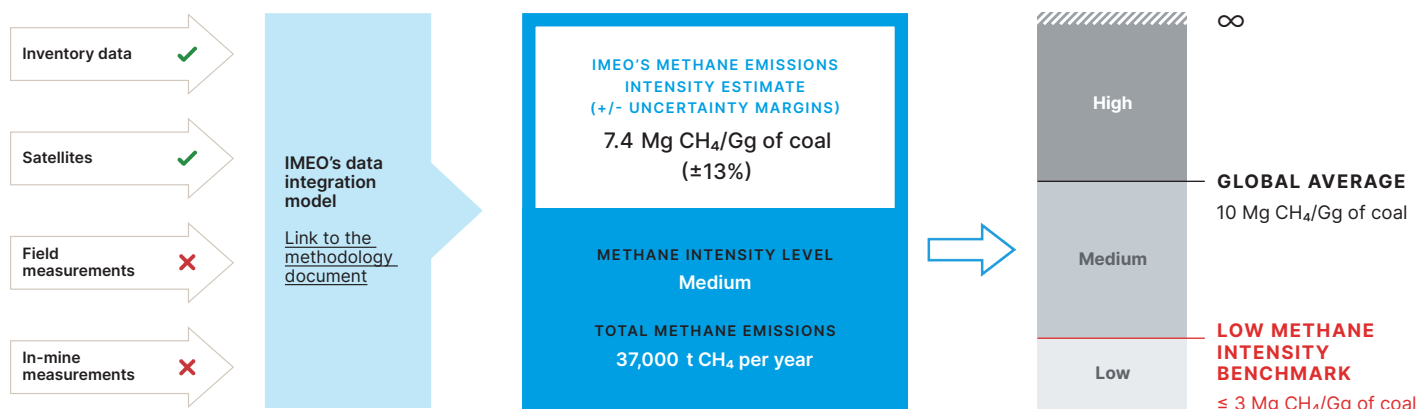
5 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Raspadskaya_coal_mine



METHANE EMISSION PROFILE



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

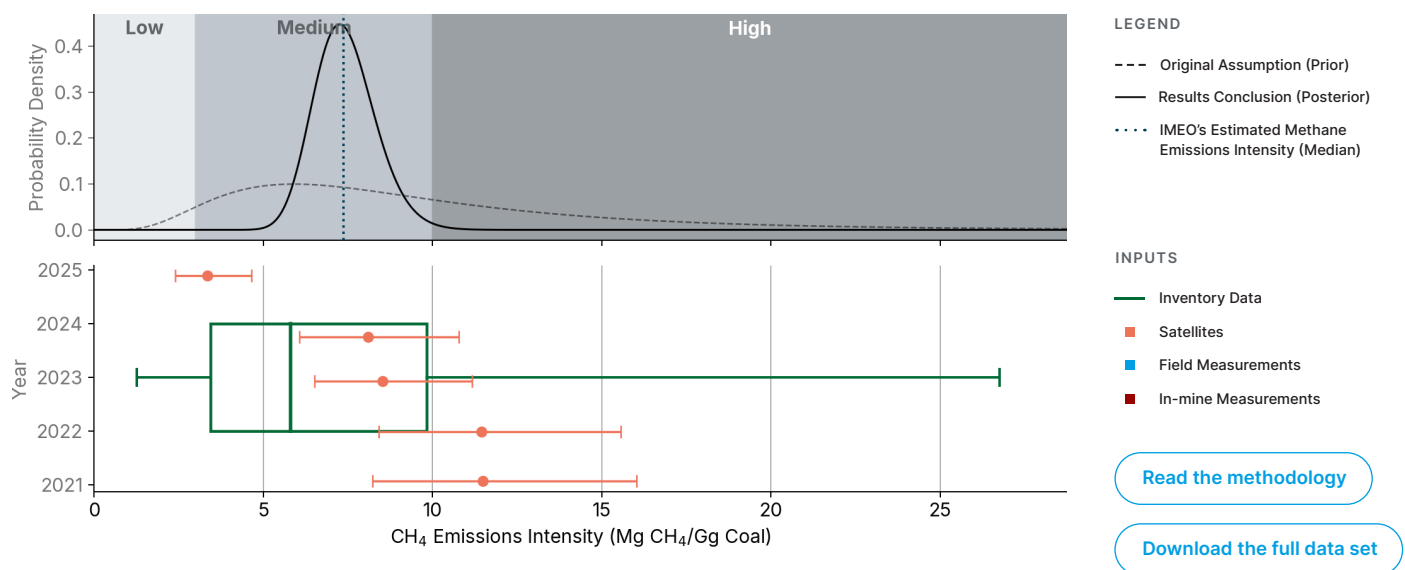
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 RASPADSKAYA 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	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	8	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	12	31%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	12	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	232%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	259%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	304%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	363%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	395%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	493%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

UVALNAYA COAL MINE

LOCATION (LAT., LON.) 54.0953, 87.5603

GEM MINE ID

M1520

MINING TYPE

Underground

COAL GRADE

Metallurgical

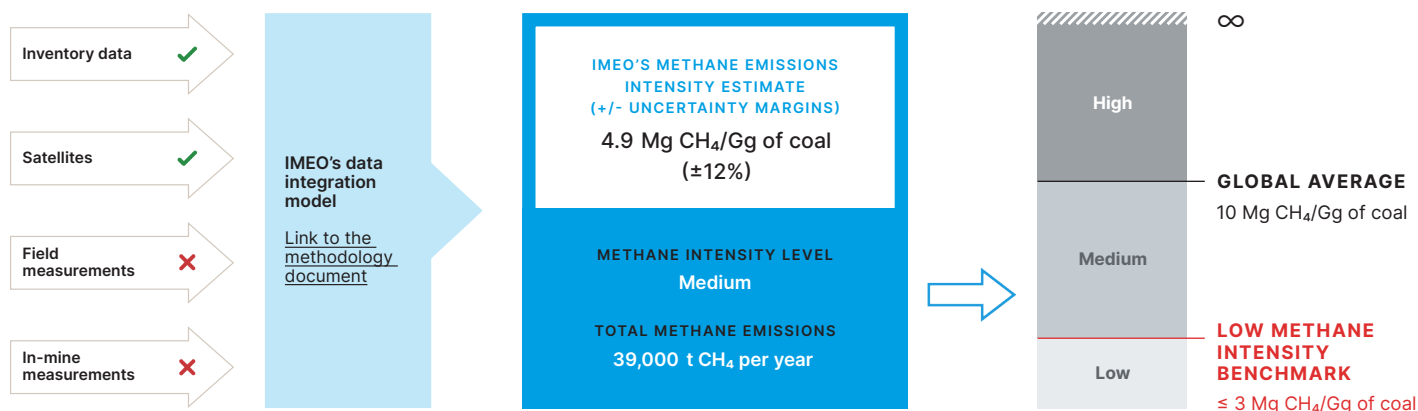
ESTIMATED PRODUCTION

8 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Uvalnaya_coal_mine

METHANE EMISSION PROFILE



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

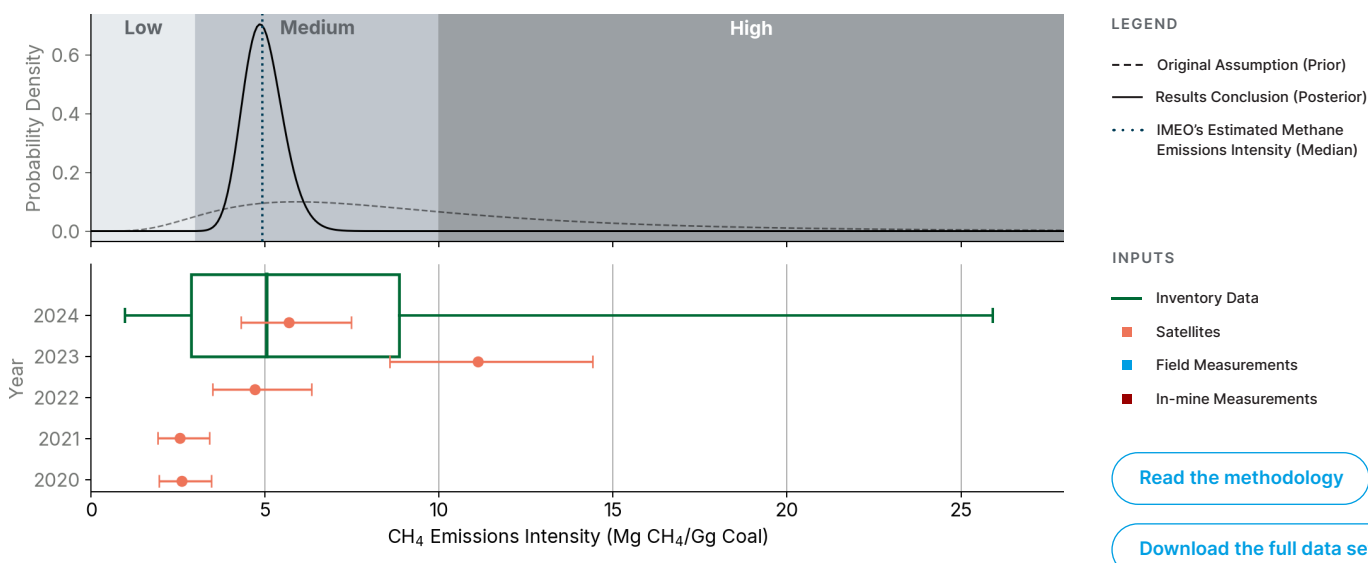
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 UVALNAYA 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	11	26%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	6	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	2.7	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	2.7	29%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	5	30%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	378%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	510%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

POLOSUKHINSKAYA COAL MINE

LOCATION (LAT., LON.) 53.9218, 87.3243

GEM MINE ID

M1518

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

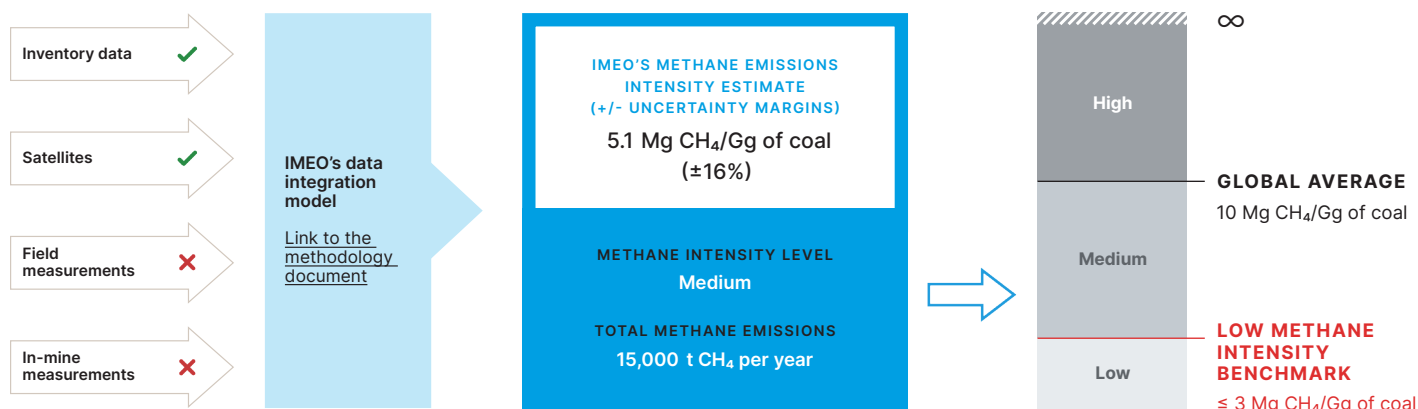
2.9 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Polosukhinskaya_coal_mine



METHANE EMISSION PROFILE



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

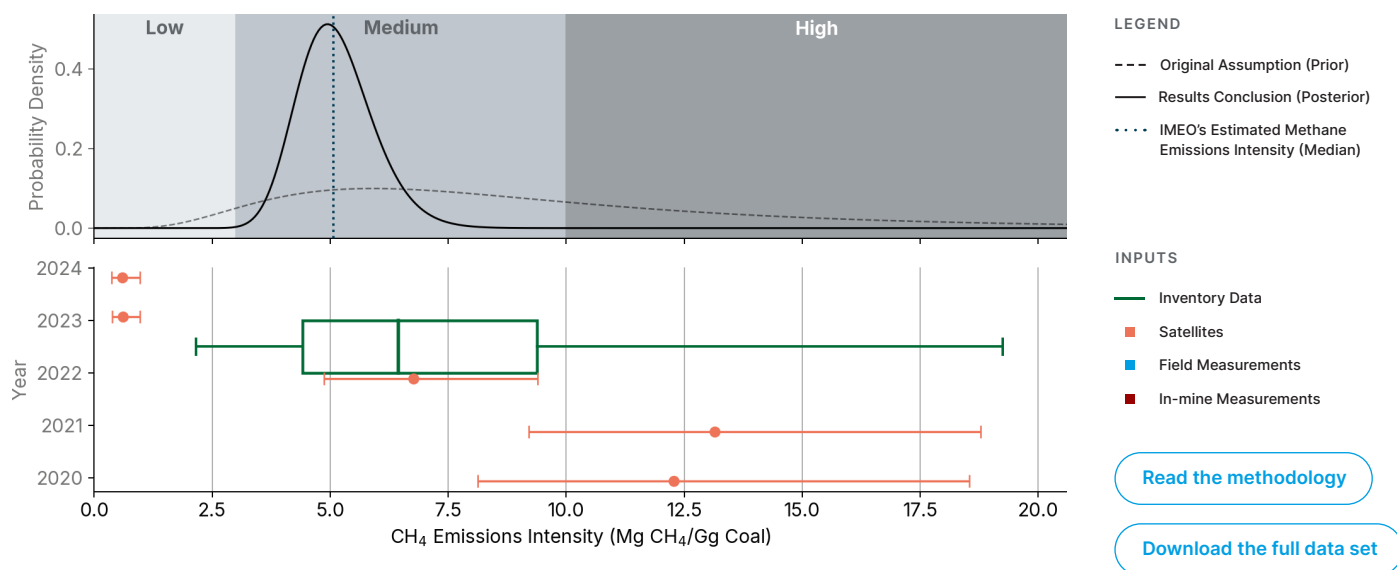
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR POLOSUKHINSKAYA 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	7	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	14	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	13	43%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2023	0.7	50%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.7	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

RASPADSKAYA KOKSOVAYA COAL MINE

LOCATION (LAT., LON.) 53.7291, 88.0846

GEM MINE ID

M0837

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

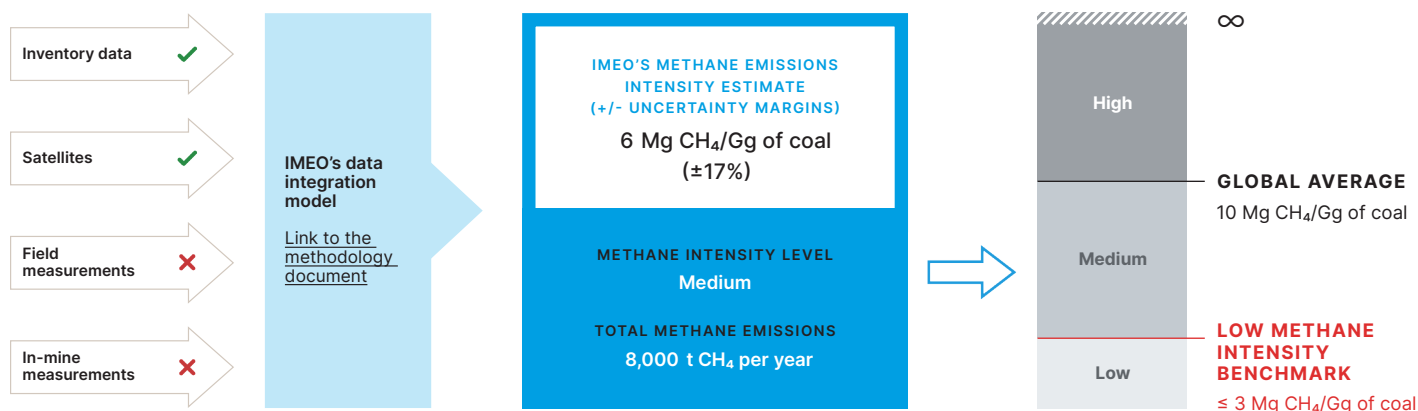
1.3 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Raspadskaya-Koksovaya_coal_mine



METHANE EMISSION PROFILE



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

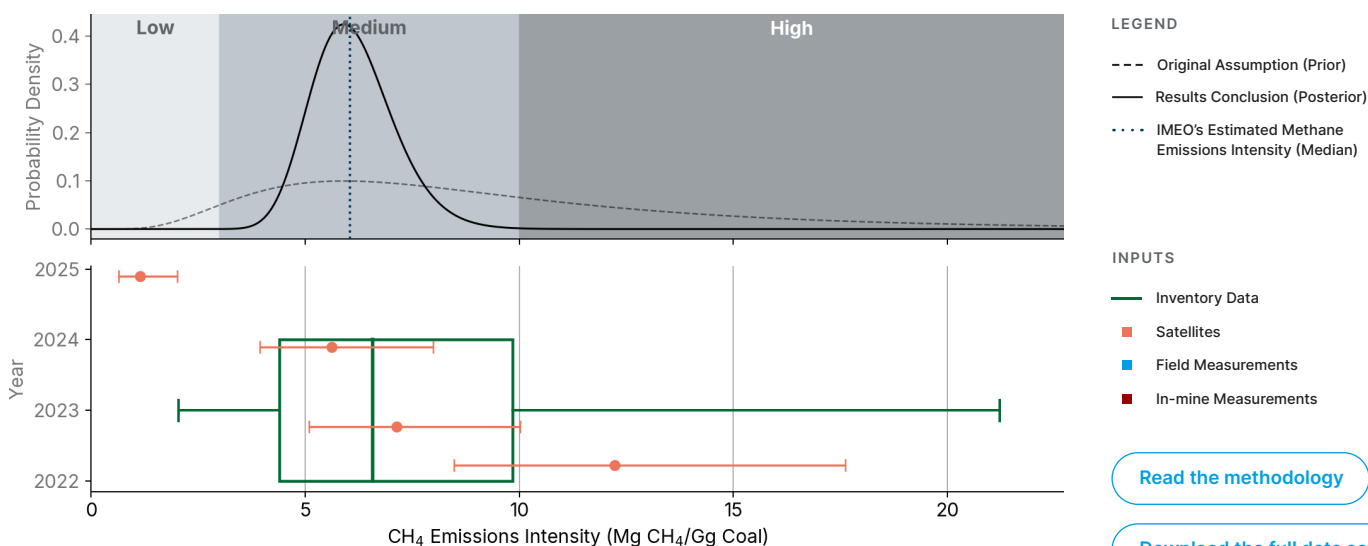
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 RASPADSKAYA KOKSOVAYA 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	8	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	6	36%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	13	38%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2025	1.3	61%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	147%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	195%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	232%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	256%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	304%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	395%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

V.I. LENIN UNDERGROUND COAL MINE

LOCATION (LAT., LON.)

53.7047, 88.0711

GEM MINE ID

M2344

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

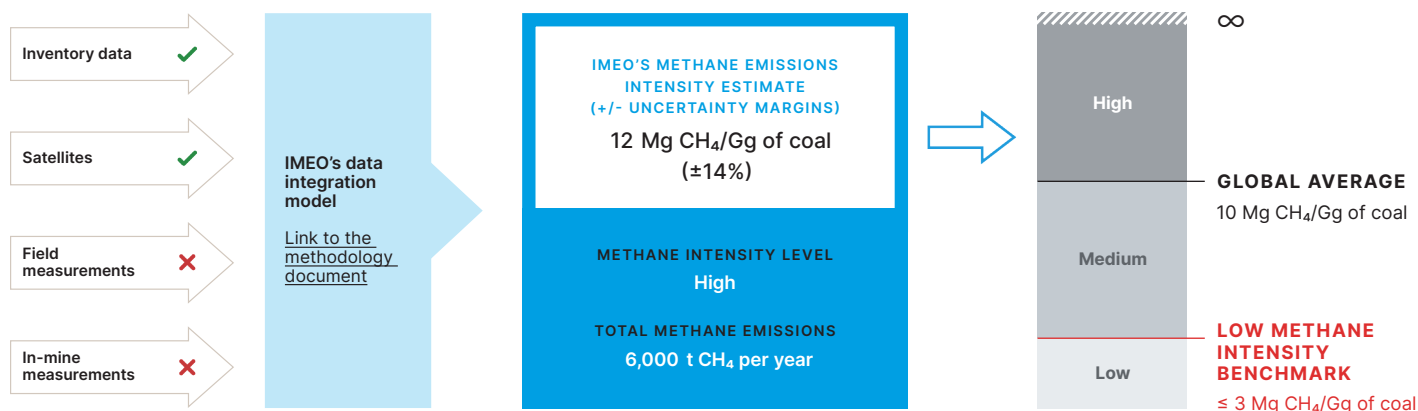
0.5 Mtpa (2022)

ADDITIONAL MINE INFORMATION

[https://www.gem.wiki/V.I._Lenin_\(Kemerovo\)_coal_mine](https://www.gem.wiki/V.I._Lenin_(Kemerovo)_coal_mine)



METHANE EMISSION PROFILE



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

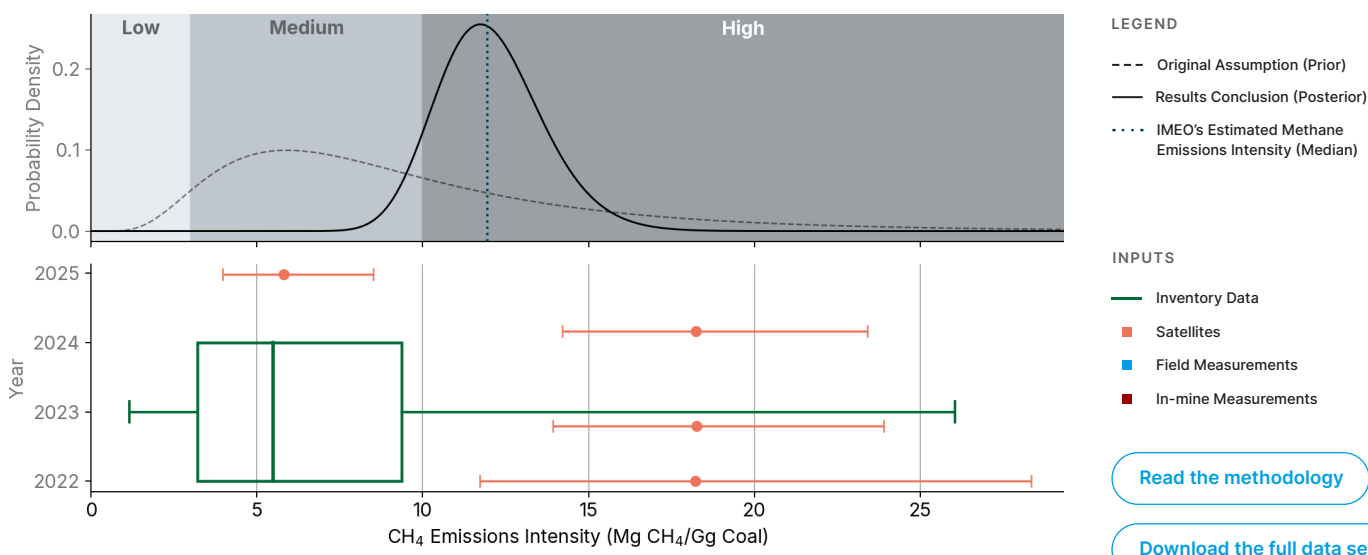
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 V.I. LENIN UNDERGROUND 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	25%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	19	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	6	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	12	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2022	20	46%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	7	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	150%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	171%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	192%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	219%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	280%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	311%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	415%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	2	522%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	545%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

KIROVA COAL MINE

LOCATION (LAT., LON.) 54.6523, 86.1526

GEM MINE ID

M0809

MINING TYPE

Underground

COAL GRADE

Thermal & Metallurgical

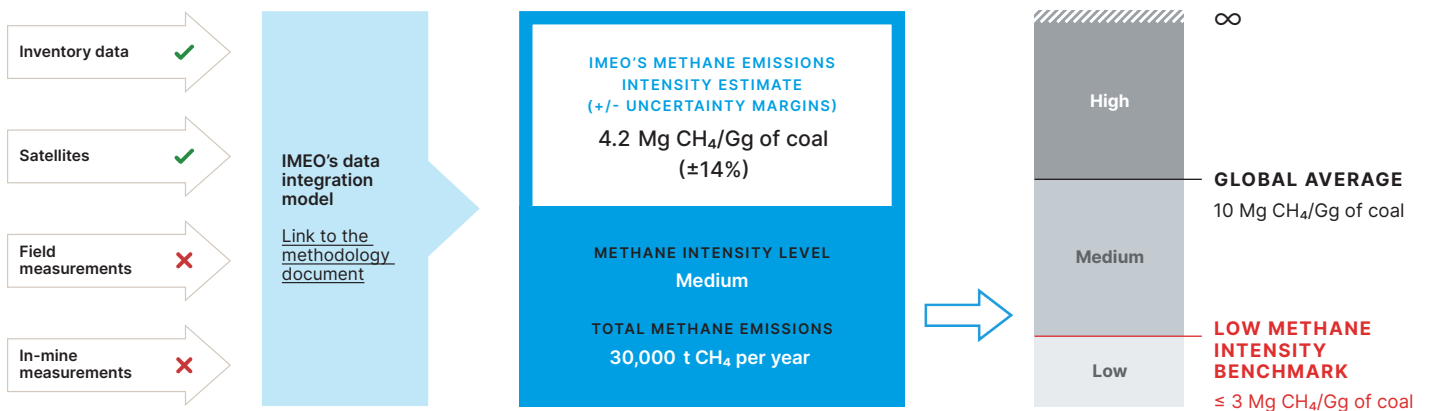
ESTIMATED PRODUCTION

7.1 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Kirova_Coal_Mine

METHANE EMISSION PROFILE



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

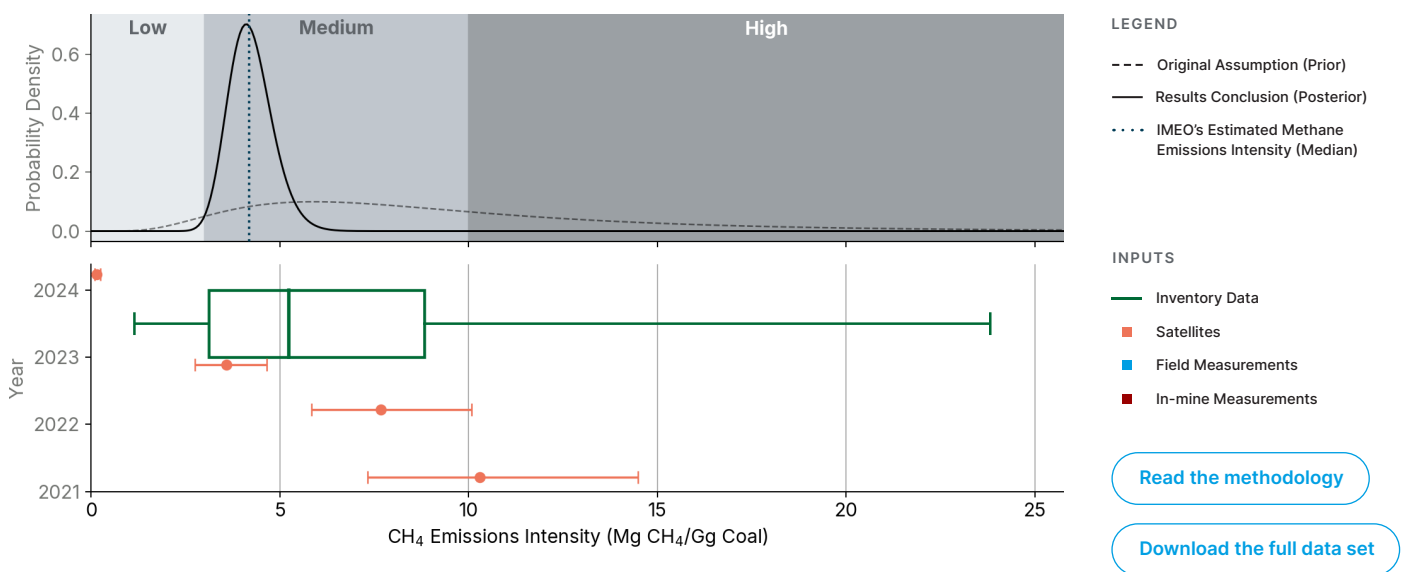
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR KIROVA 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	3.7	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	8	28%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	11	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	0.17	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	245%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	322%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	370%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	420%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	498%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

VORKUTINSKAYA COAL MINE

LOCATION (LAT., LON.) 67.5252, 64.0213

GEM MINE ID

M0868

MINING TYPE

Underground

COAL GRADE

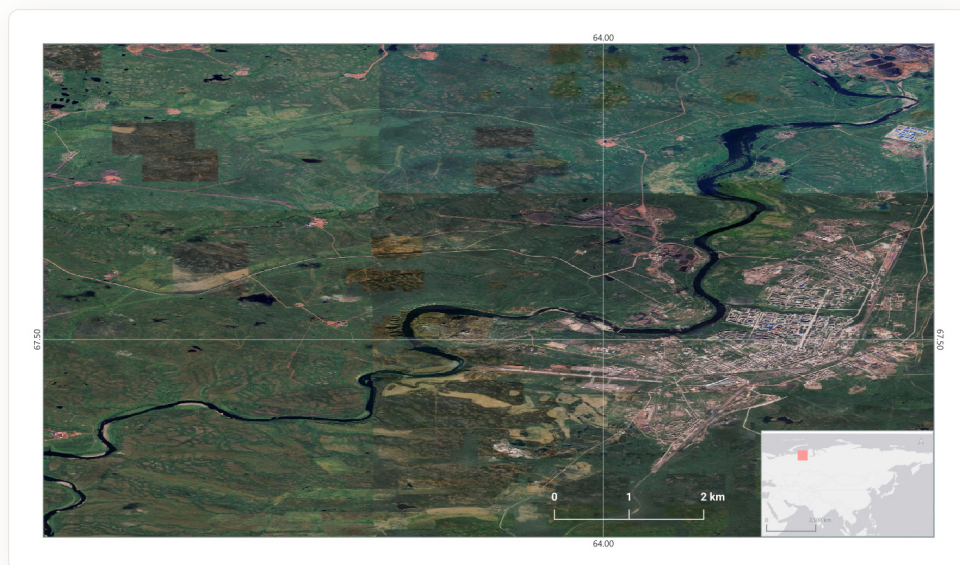
Metallurgical

ESTIMATED PRODUCTION

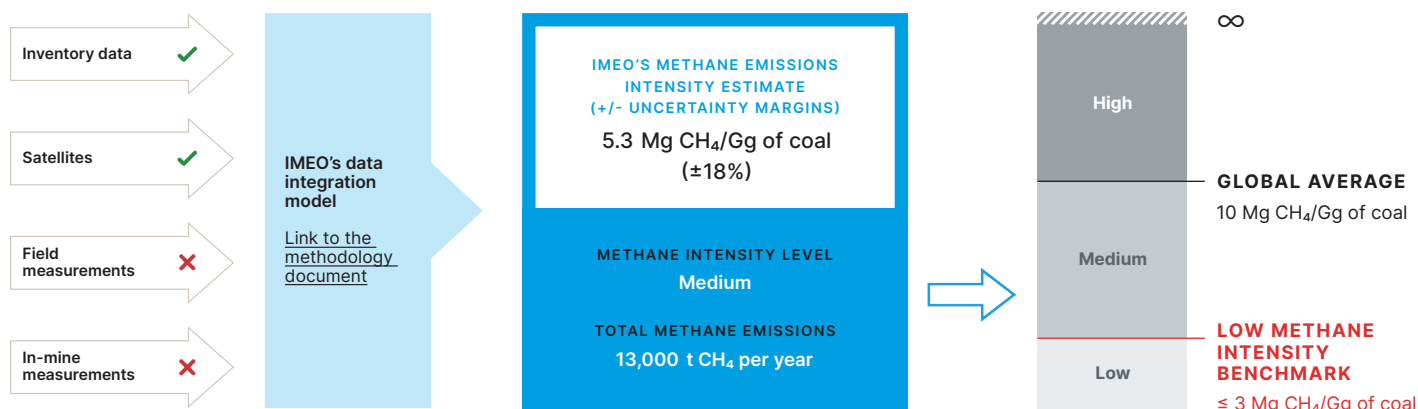
2.5 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Vorkutinskaya_coal_mine



METHANE EMISSION PROFILE



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

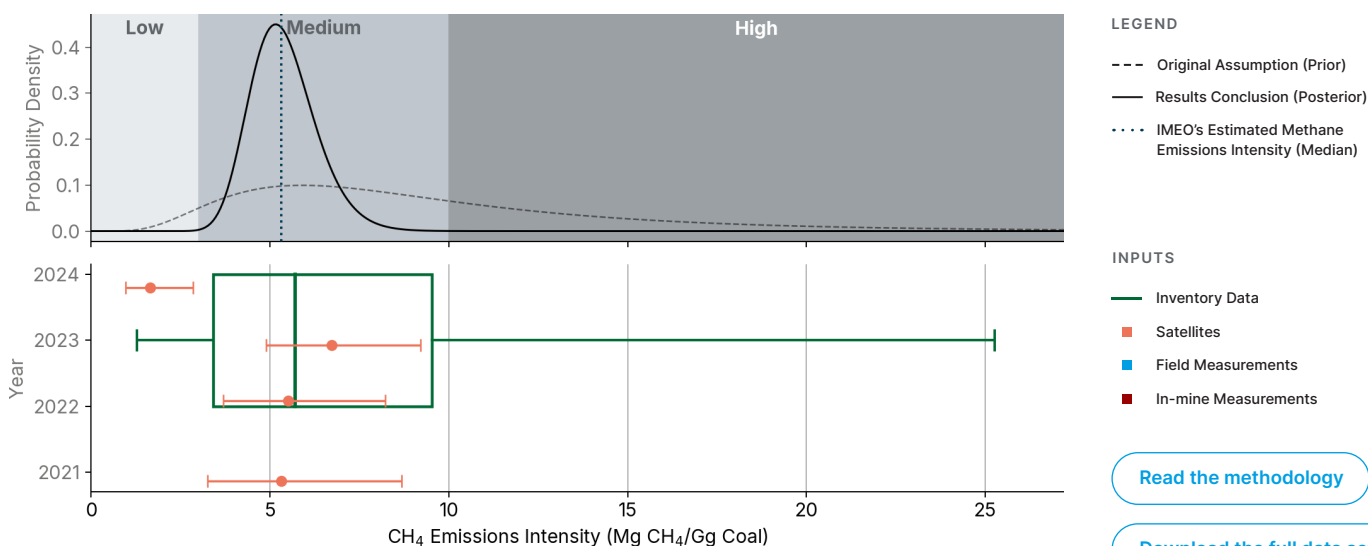
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR VORKUTINSKAYA 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	7	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	6	42%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2021	6	52%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	2	59%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	266%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	352%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	460%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

ALARDINSKAYA COAL MINE

LOCATION (LAT., LON.)

53.4141, 87.3152

GEM MINE ID

M0767

MINING TYPE

Underground

COAL GRADE

Metallurgical

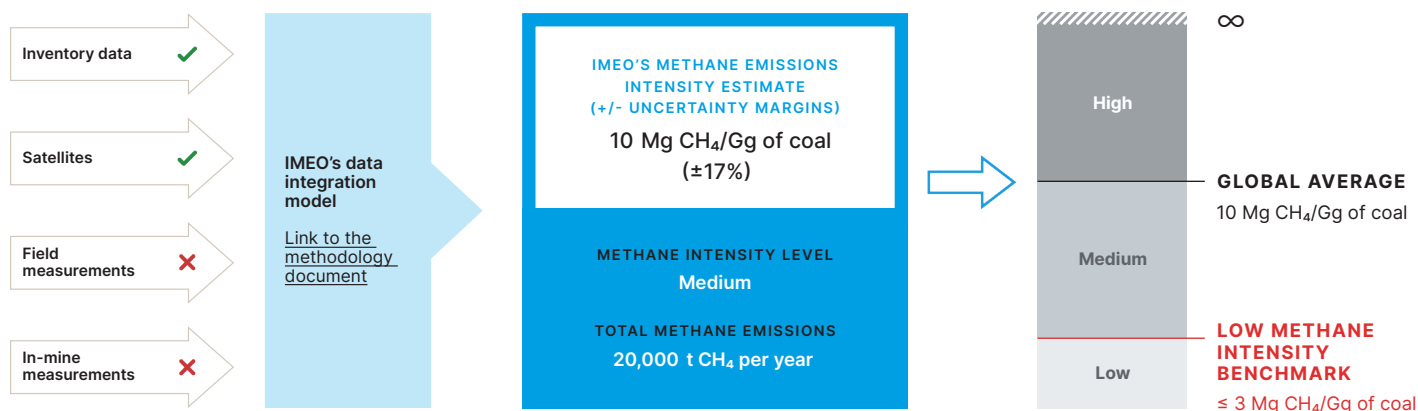
ESTIMATED PRODUCTION

2.1 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Alardinskaya_coal_mine


METHANE EMISSION PROFILE



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

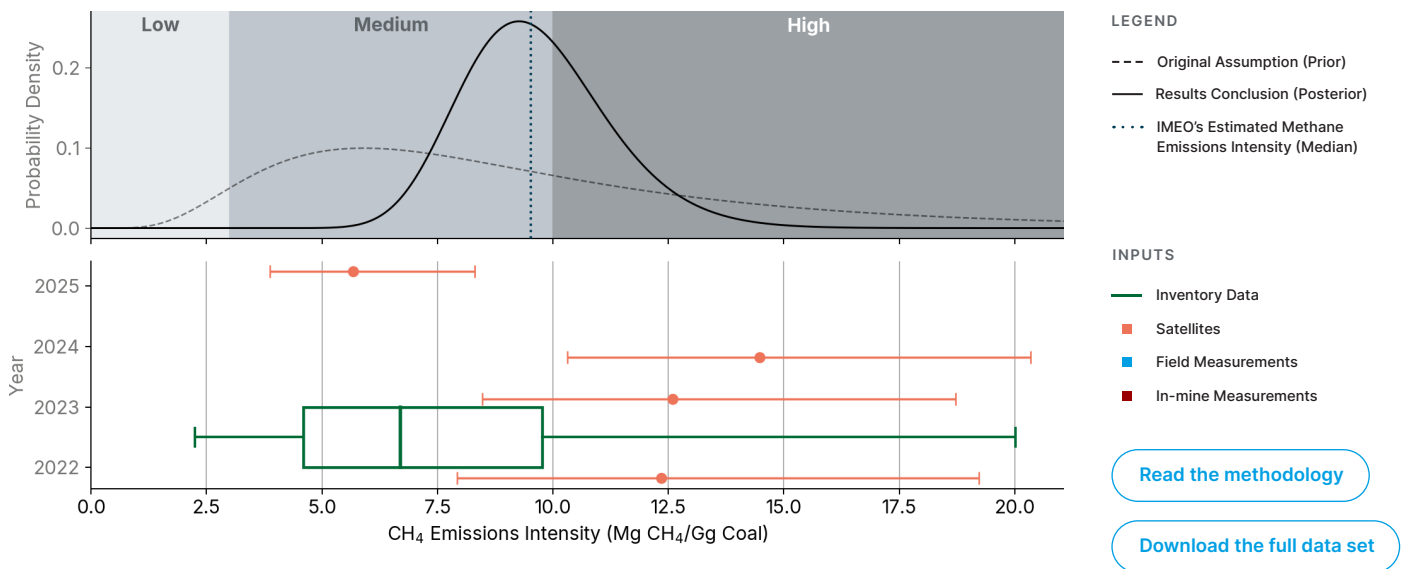
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR ALARDINSKAYA 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	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	6	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	14	41%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	14	47%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

YERUNAKOVSKAYA-8 COAL MINE

LOCATION (LAT., LON.)

54.1221, 87.3552

GEM MINE ID

M0877

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

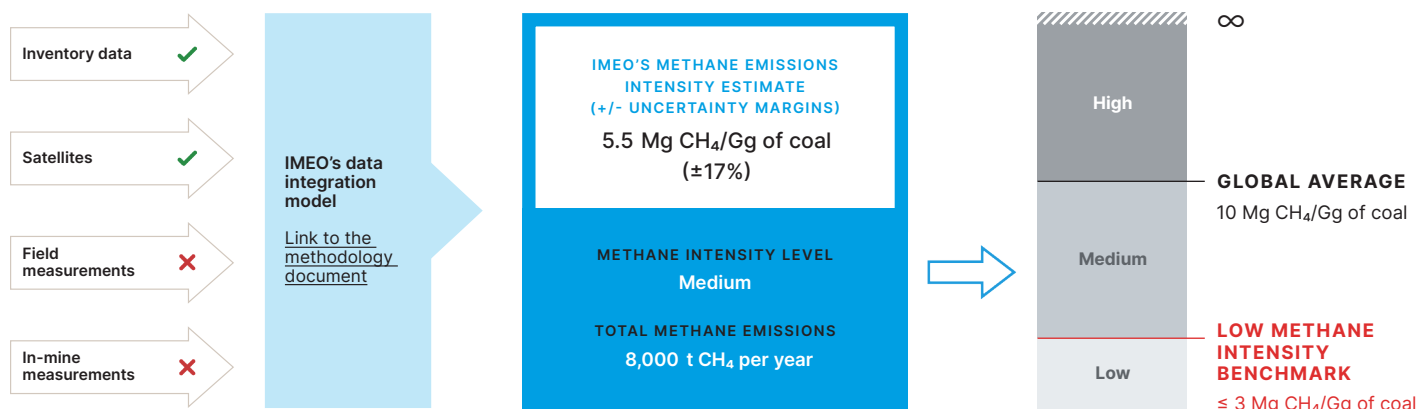
1.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Yerunakovskaya_coal_mine



METHANE EMISSION PROFILE



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

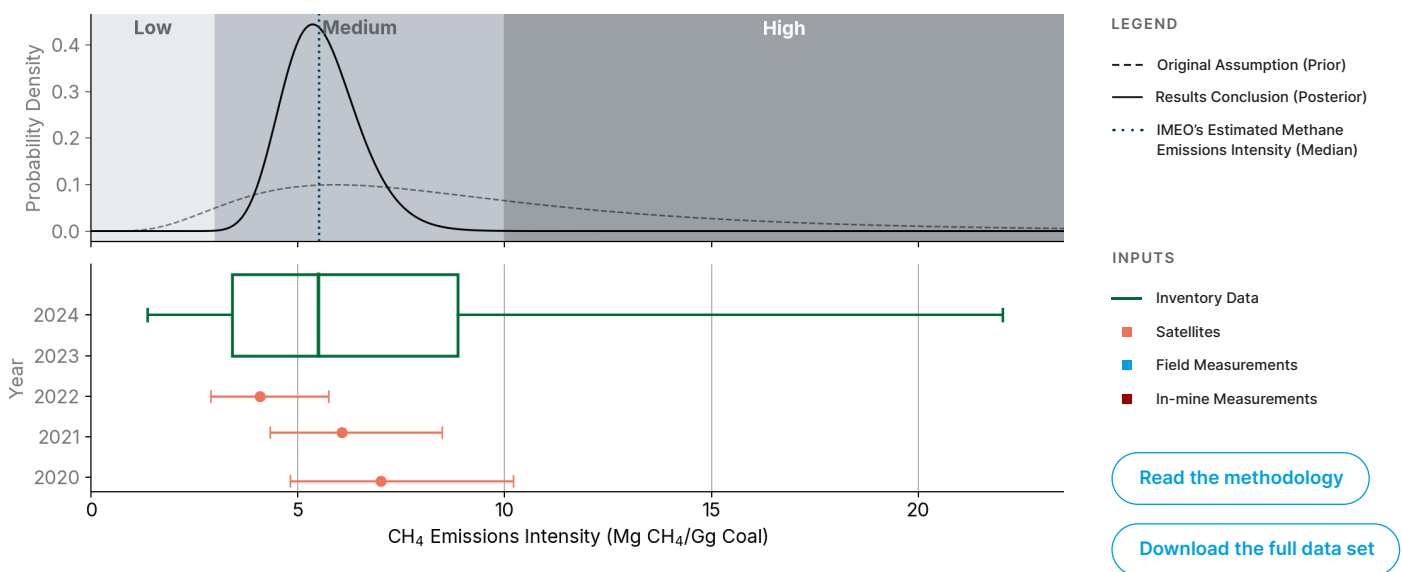
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 YERUNAKOVSKAYA-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	2021	6	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2022	4	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2020	8	39%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	173%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	222%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	283%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	378%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	510%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

MEZHEGEYUGOL COAL MINE

LOCATION (LAT., LON.)

51.392, 94.1109

GEM MINE ID

M0820

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

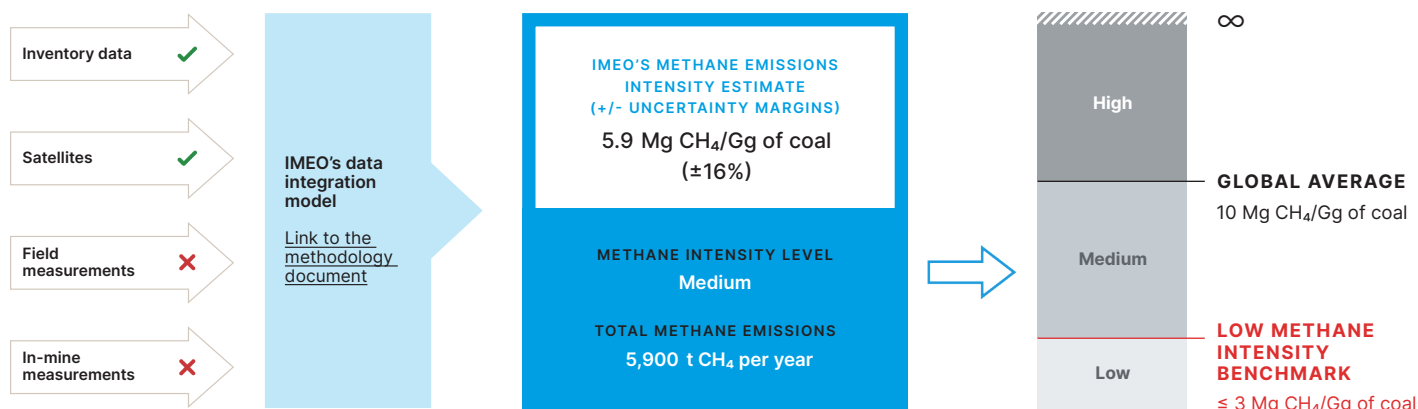
1 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Mezhegeyugol_coal_mine



METHANE EMISSION PROFILE



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

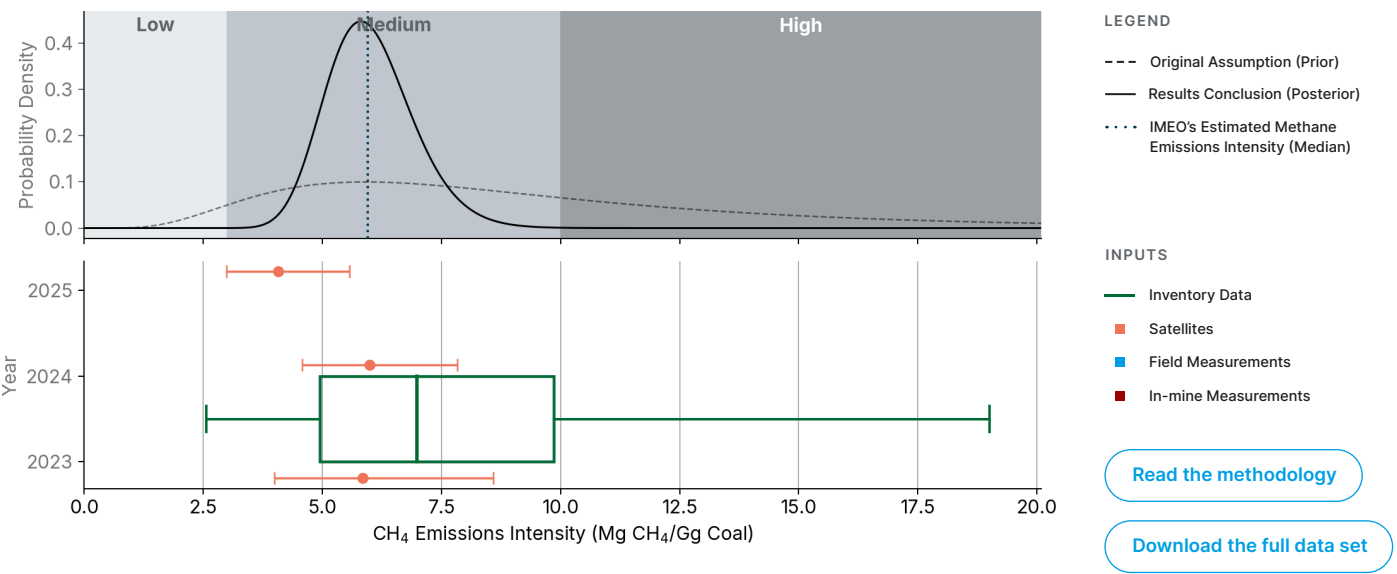
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 MEZHEGEYUGOL 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	27%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	32%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2023	6	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	12	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	7	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	5	150%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	192%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

KOMSOMOLSKAYA COAL MINE

LOCATION (LAT., LON.) 67.5498, 63.8067

GEM MINE ID

M2339

MINING TYPE

Underground

COAL GRADE

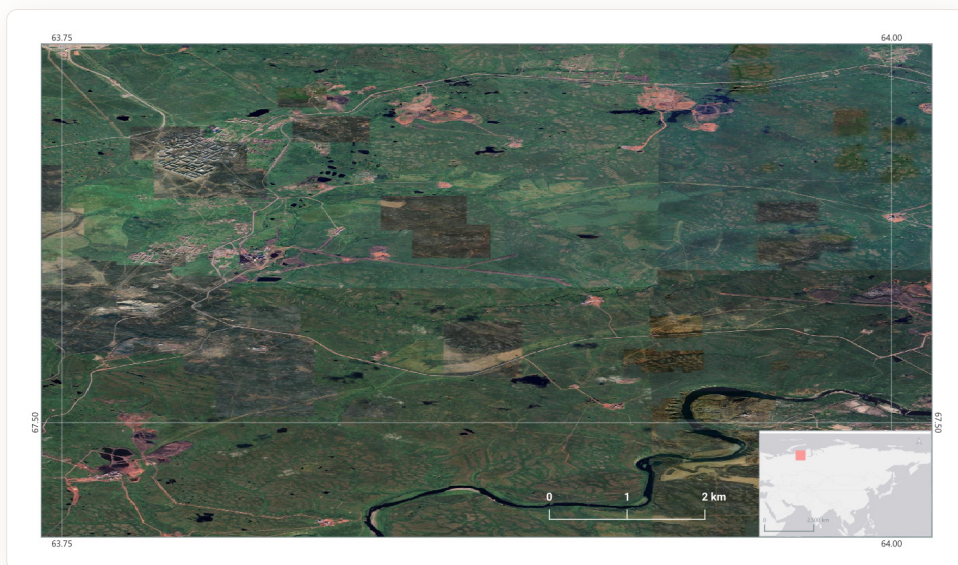
Metallurgical

ESTIMATED PRODUCTION

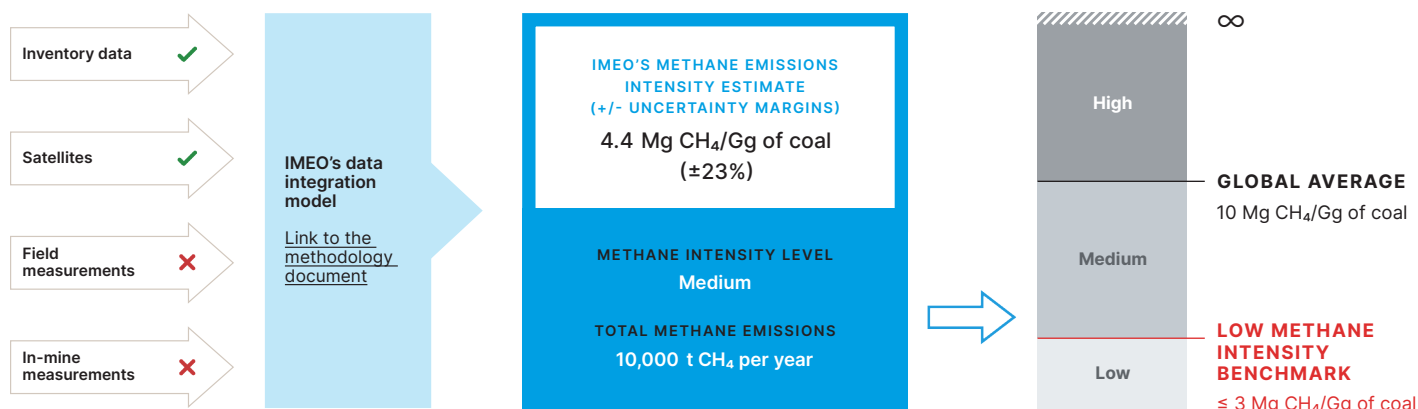
2.2 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Komsomolskaya_coal_mine



METHANE EMISSION PROFILE



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

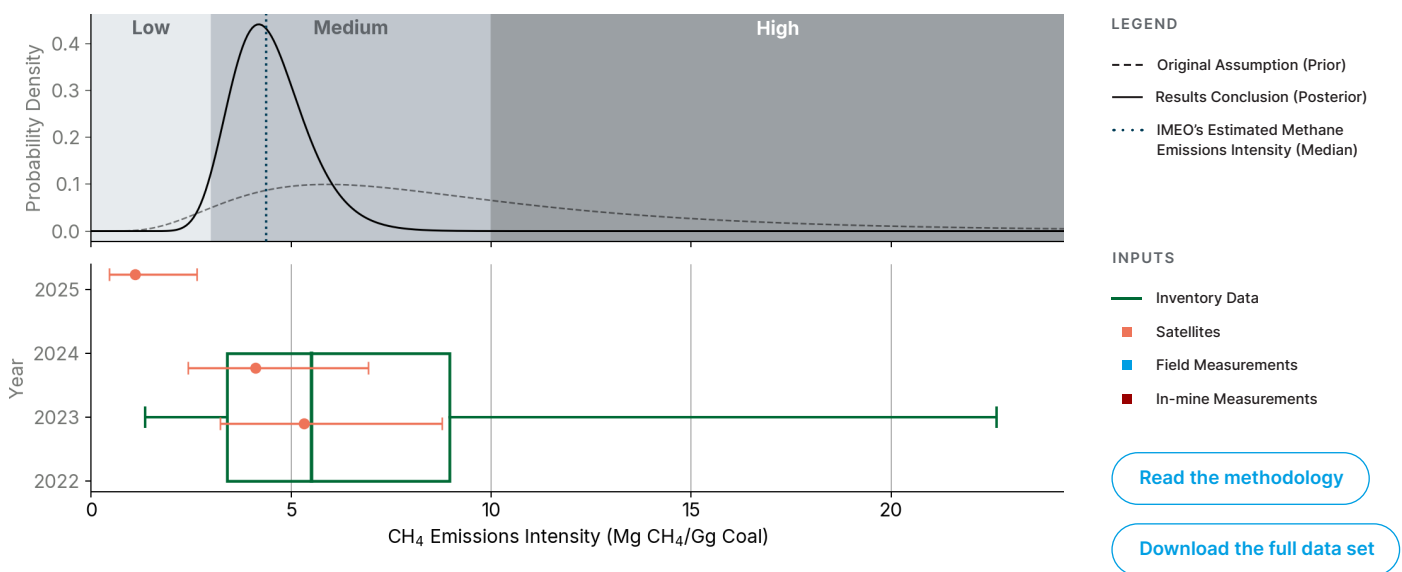
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 KOMSOMOLSKAYA 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	Link
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2023	6	53%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	5	56%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	2	108%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	225%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	266%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	267%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	296%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	352%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	0	353%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	383%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	460%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

ZAPOLYARNAYA COAL MINE

LOCATION (LAT., LON.) 67.4847, 63.7662

GEM MINE ID

M2338

MINING TYPE

Underground

COAL GRADE

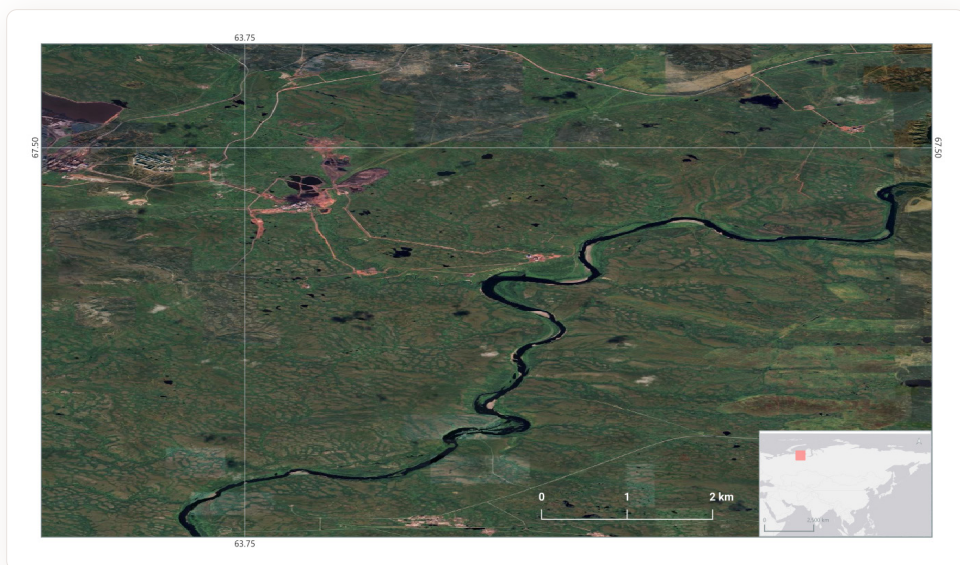
Metallurgical

ESTIMATED PRODUCTION

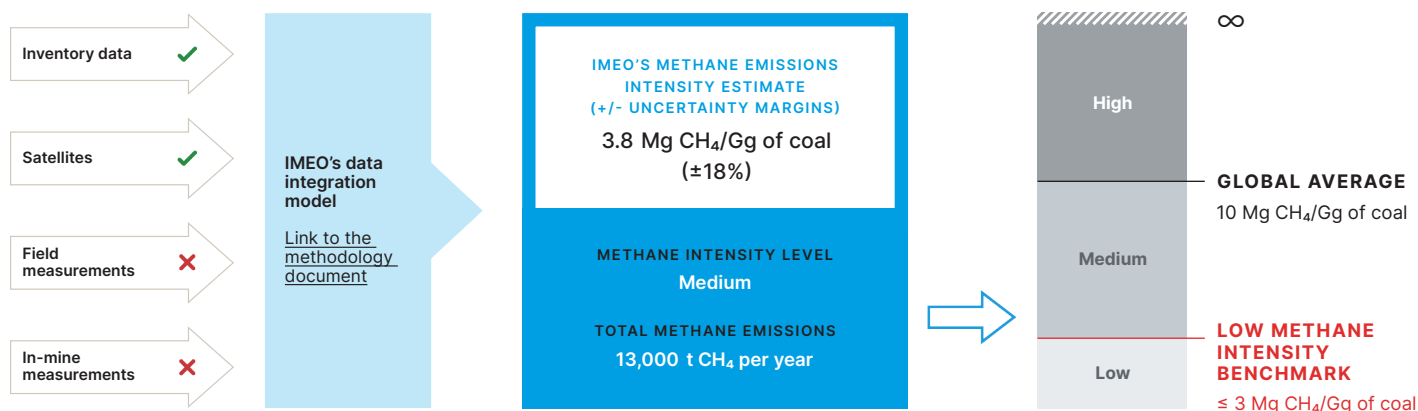
3.3 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Zapolyarnaya_coal_mine



METHANE EMISSION PROFILE



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

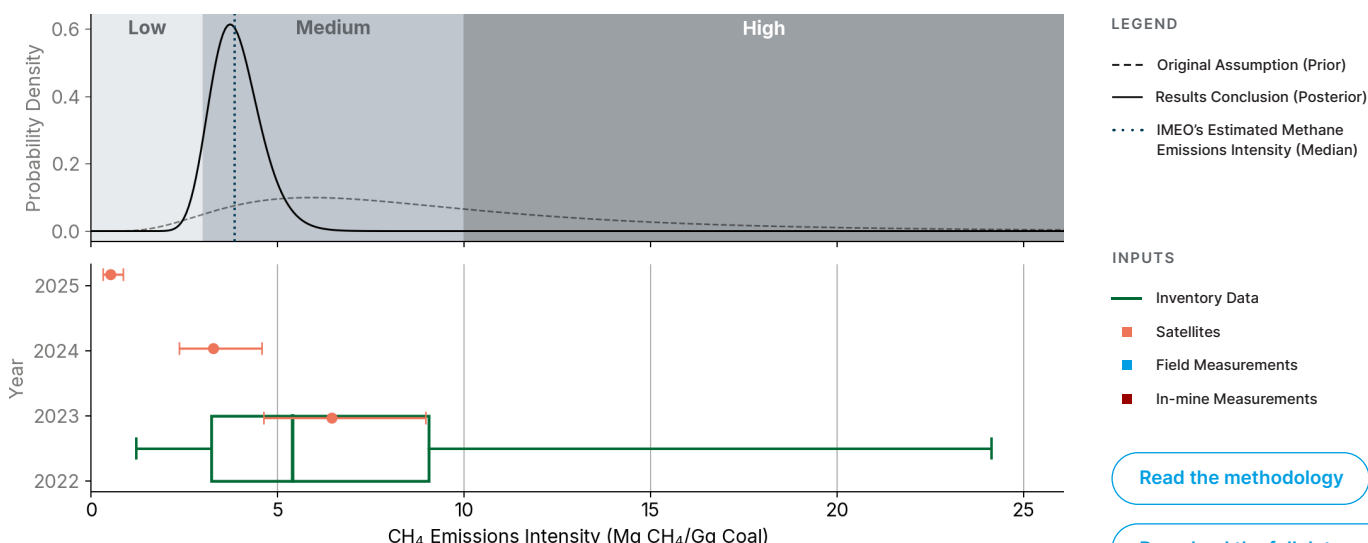
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR ZAPOLYARNAYA 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	7	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2024	3	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2025	0.6	55%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	225%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	296%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	383%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	384%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	0	517%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

INAGLINSKY COAL MINE 1

LOCATION (LAT., LON.) 56.9436, 124.7506

GEM MINE ID

M1265

MINING TYPE

Underground

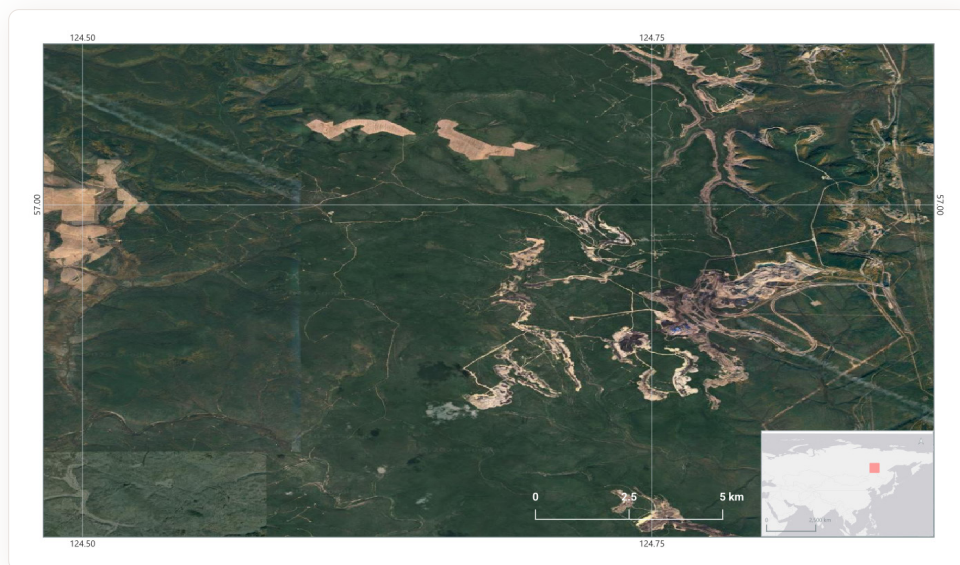
COAL GRADE

Metallurgical

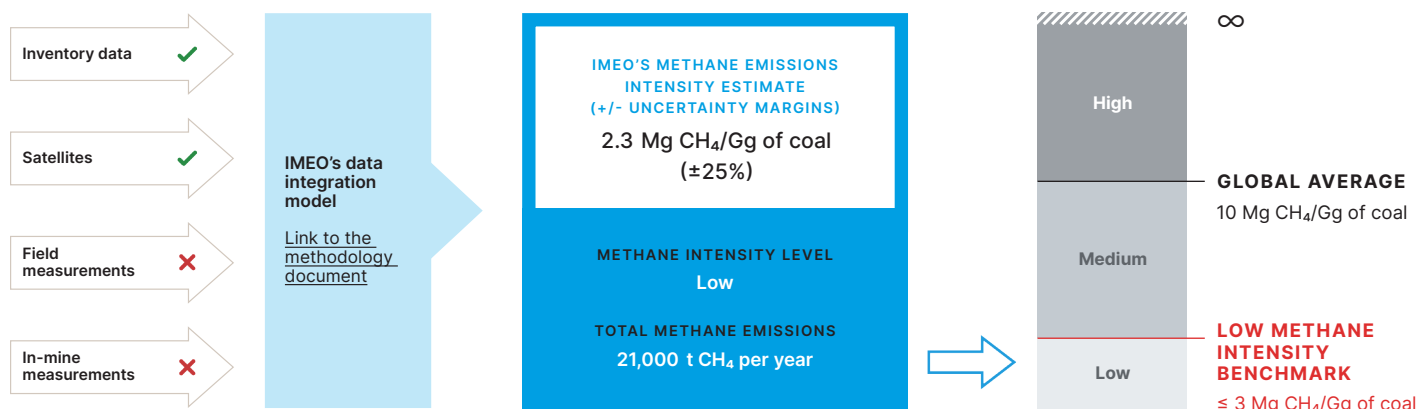
ESTIMATED PRODUCTION

8.8 Mtpa (2024)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/inaglinsky-1_coal_mine


METHANE EMISSION PROFILE



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

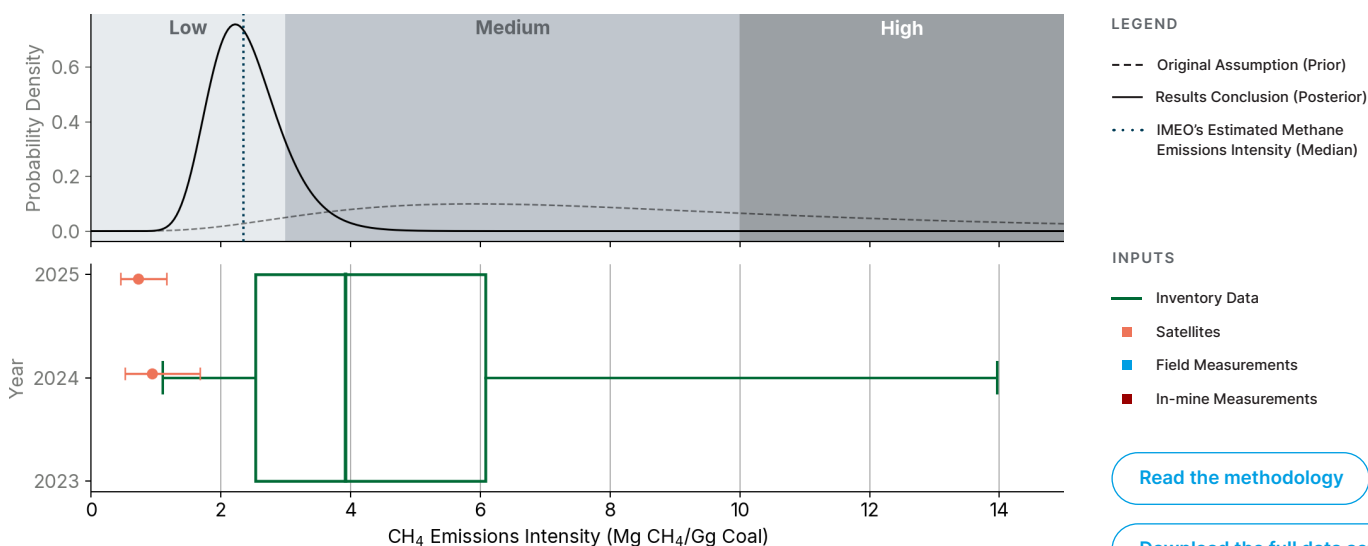
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 INAGLINSKY COAL MINE 1



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	0.8	49%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2024	1.1	64%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	2	209%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	1	273%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	1	352%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

USKOVSKAYA COAL MINE

LOCATION (LAT., LON.) 54.1239, 87.2958

GEM MINE ID

M0864

MINING TYPE

Underground

COAL GRADE

Metallurgical

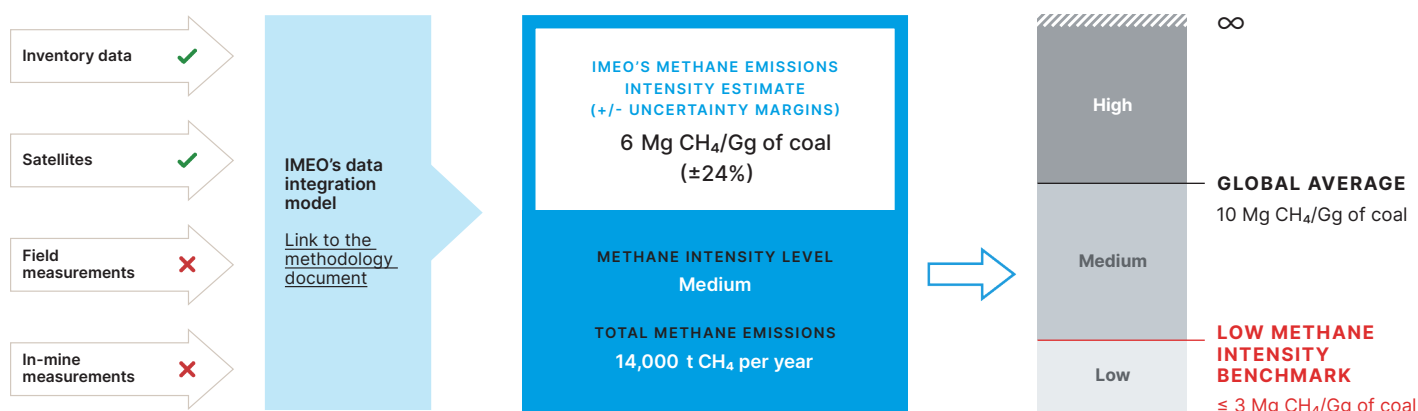
ESTIMATED PRODUCTION

2.5 Mtpa (2024)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Uskovskaya_coal_mine

METHANE EMISSION PROFILE



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

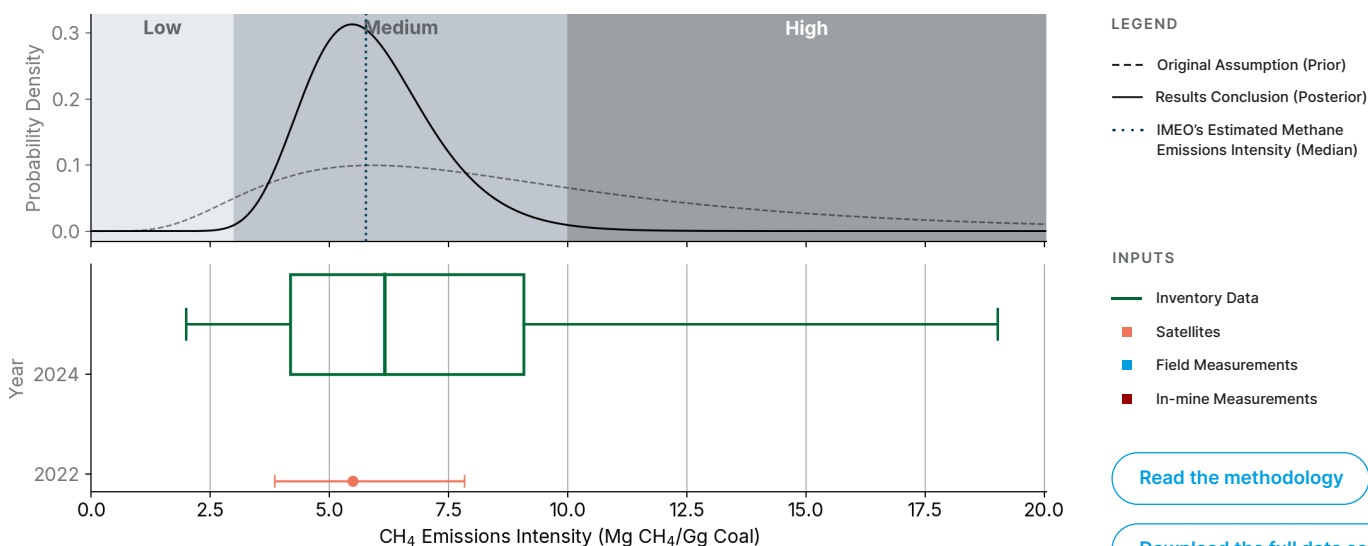
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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[More information](#)

METHANE EMISSIONS DATA INPUTS

RESULTS OF IMEO'S DATA INTEGRATION MODEL FOR USKOVSKAYA 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	6	37%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2024	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	173%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2024	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2024	10	222%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2024	10	283%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

KOSTROMOVSKAYA COAL MINE

LOCATION (LAT., LON.)

54.599, 86.0586

GEM MINE ID

M1343

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

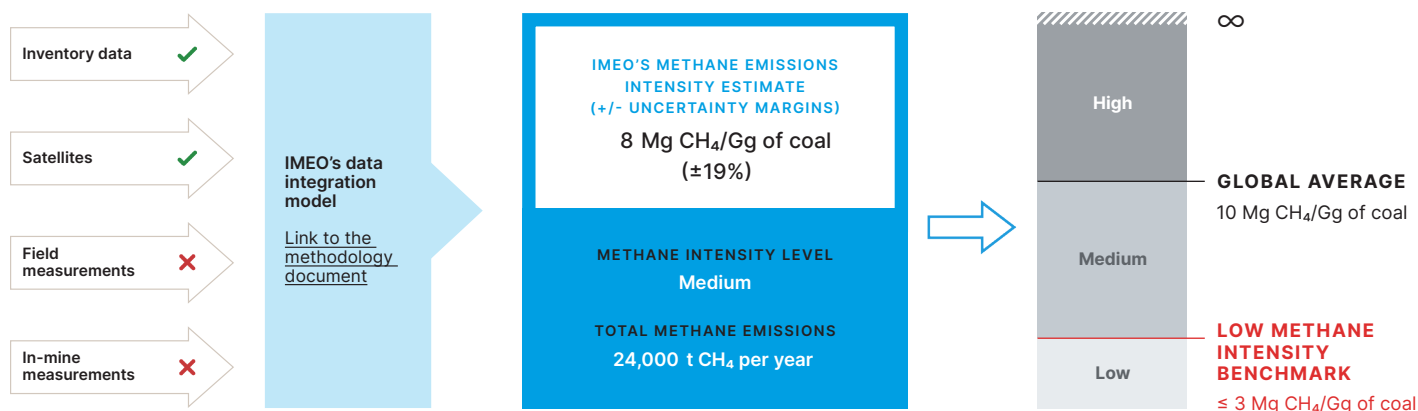
3 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Kostromovskaya_coal_mine



METHANE EMISSION PROFILE



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

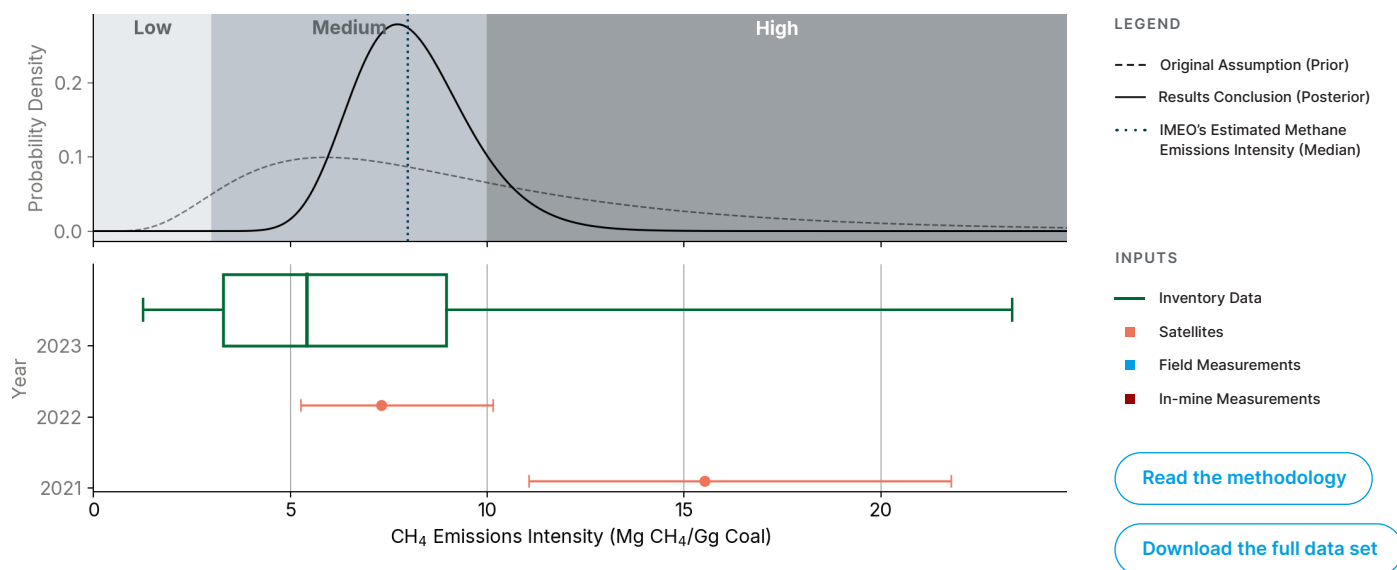
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 KOSTROMOVSKAYA 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	8	34%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2021	16	35%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	245%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	283%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	322%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	376%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	420%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	492%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link

VORGASHORSKAYA COAL MINE

LOCATION (LAT., LON.)

67.5953, 63.616

GEM MINE ID

M0867

MINING TYPE

Underground

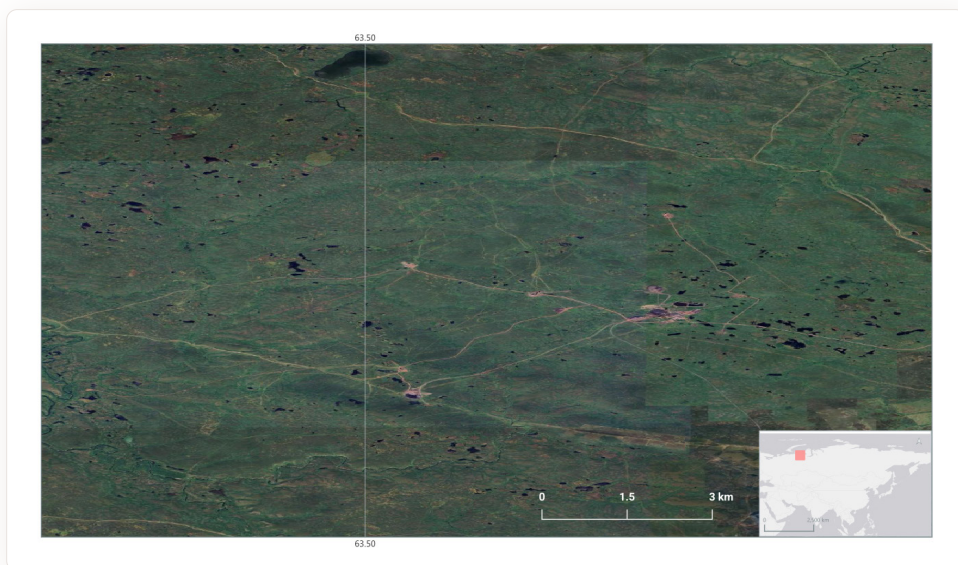
COAL GRADE

Metallurgical

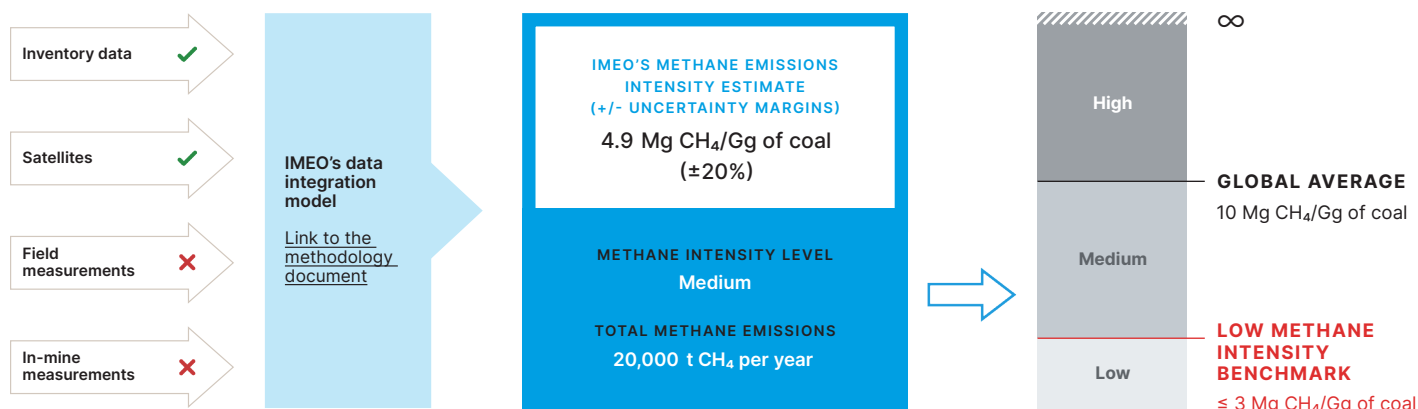
ESTIMATED PRODUCTION

4 Mtpa (2022)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Vorgashorskaya_mine

METHANE EMISSION PROFILE



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

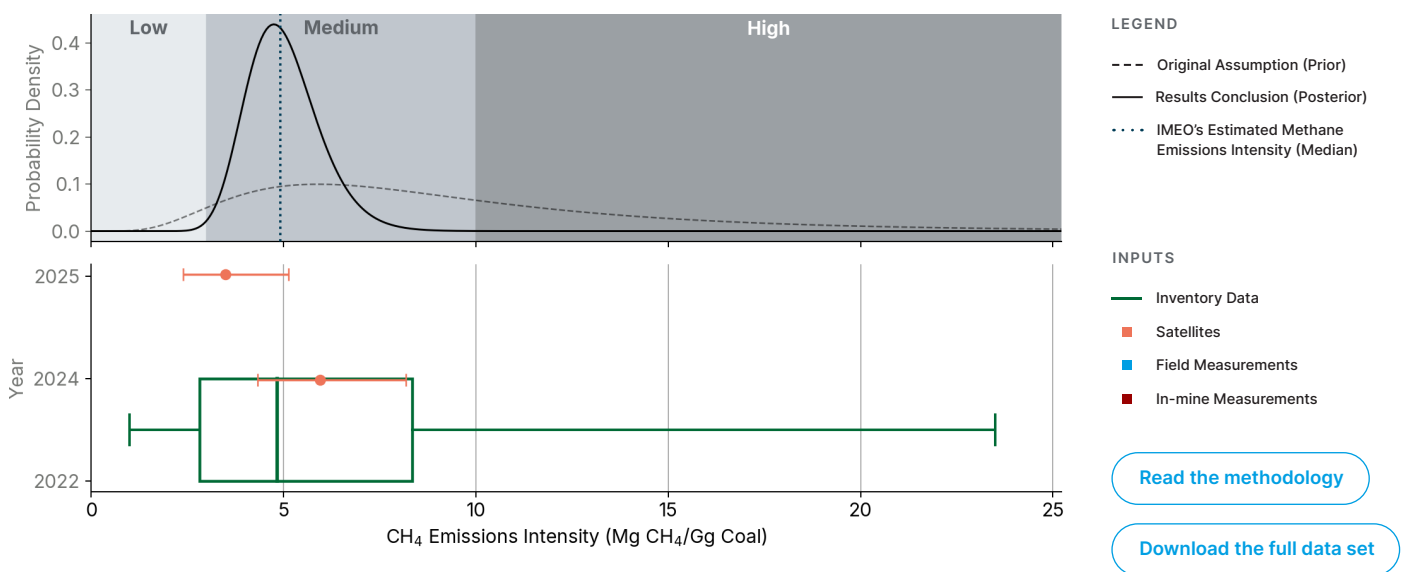
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 VORGASHORSKAYA 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	33%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Satellite	2025	4	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2022	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	4	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	3	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	267%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	353%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2022	10	384%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2022	10	462%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2022	10	517%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

TIKHOVA COAL MINE

LOCATION (LAT., LON.)

54.5318, 86.1675

GEM MINE ID

M0856

MINING TYPE

Underground

COAL GRADE

Metallurgical

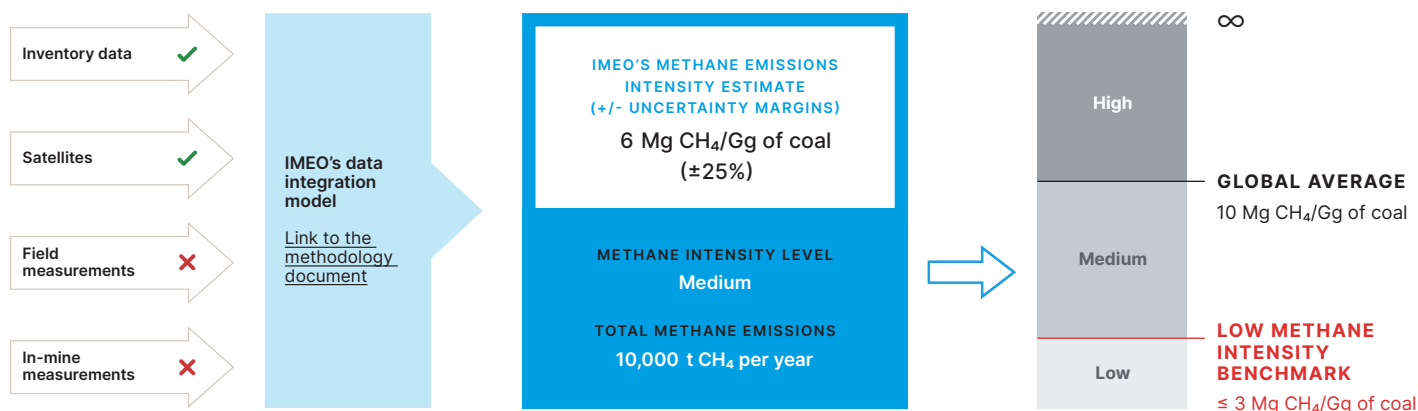
ESTIMATED PRODUCTION

1.7 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Tikhova_coal_mine

METHANE EMISSION PROFILE



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

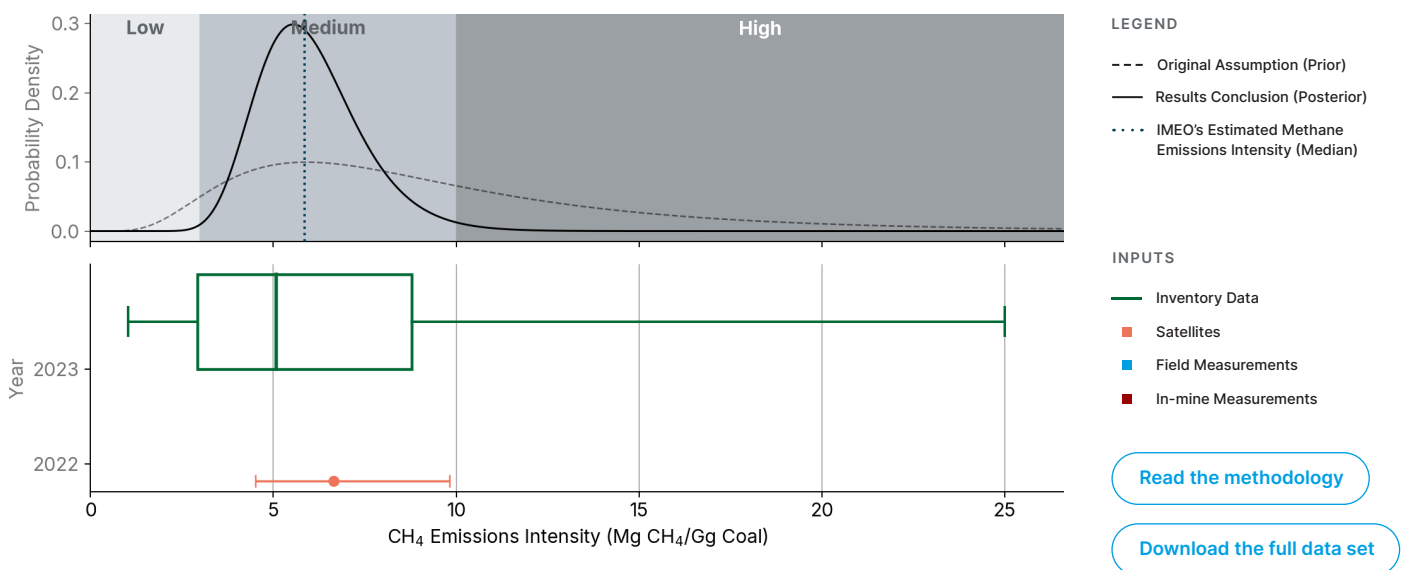
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 TIKHOVA 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	7	40%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	9	50%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	6	133%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	167%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	208%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	283%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	370%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	376%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	492%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	10	498%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link

PERVOMAYSKAYA COAL MINE

LOCATION (LAT., LON.)

55.7211, 86.172

GEM MINE ID

M0833

MINING TYPE

Underground

COAL GRADE

Metallurgical

ESTIMATED PRODUCTION

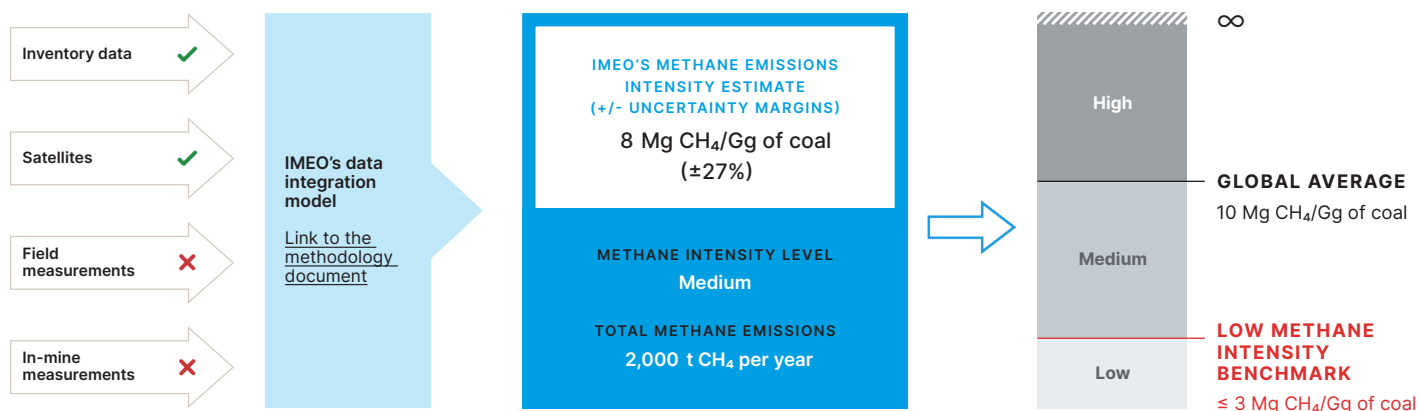
0.2 Mtpa (2023)

ADDITIONAL MINE INFORMATION

https://www.gem.wiki/Pervomayskaya_coal_mine



METHANE EMISSION PROFILE



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

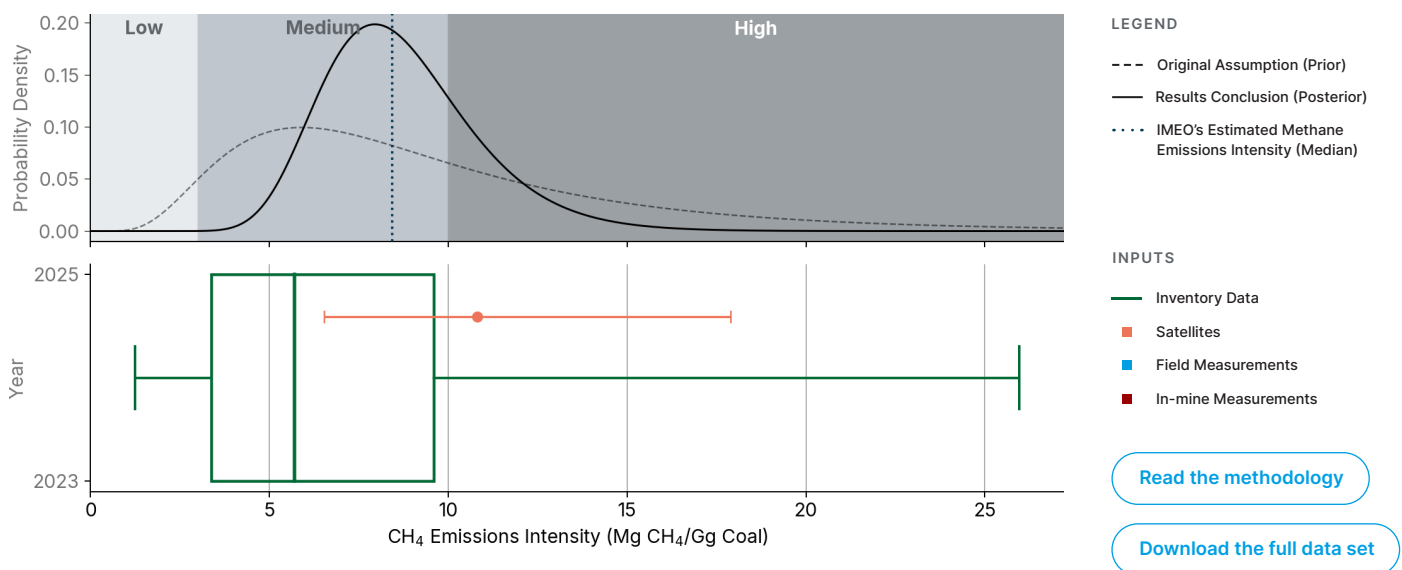
SMP increases methane transparency through its Coal Methane Database, hosted on IMEO's Eye on Methane data platform.

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 PERVOMAYSKAYA 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	2023	12	40%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Satellite	2025	12	54%	Mg CH ₄ /Gg Coal	Satellite	Sub mine level quantification	
Inventory	2023	7	117%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link
Inventory	2023	10	150%	Mg CH ₄ /Gg Coal	Tier-2-01	GEM Tracker 2025	Link
Inventory	2023	10	192%	Mg CH ₄ /Gg Coal	Tier-1	IPCC 2006 guidelines	Link
Inventory	2023	2	469%	Mg CH ₄ /Gg Coal	Tier-2-03	Russia NIR Report	Link