



IEA work on methane emissions and biomethane

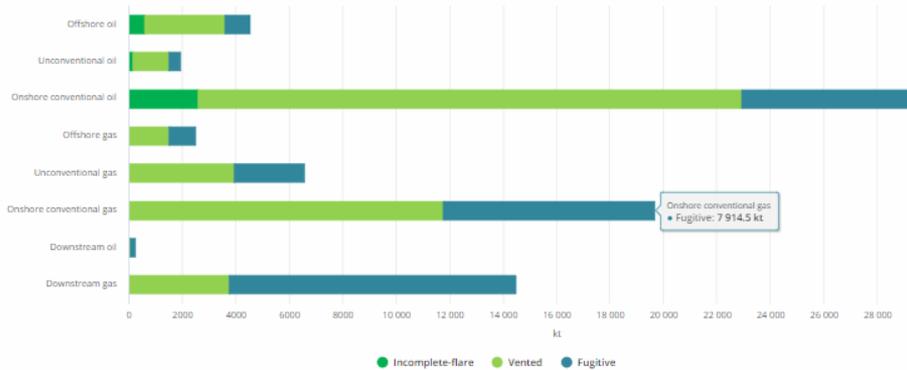
Christophe McGlade, Energy analyst, World Energy Outlook

Paris, 18 November 2019

IEA Methane Tracker

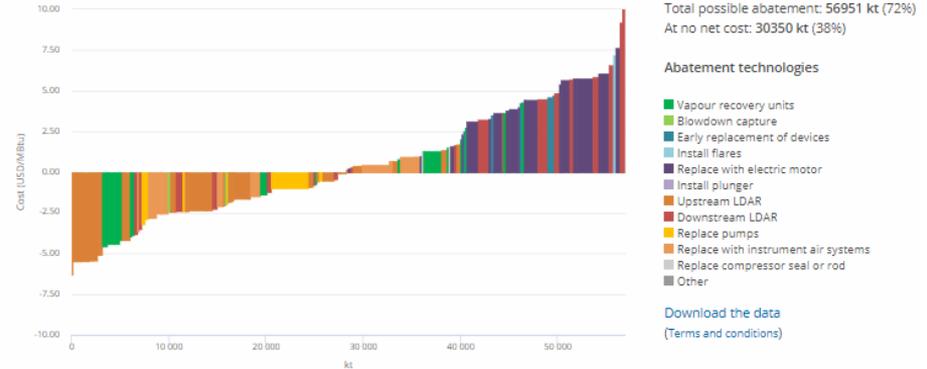
Global oil and gas methane emissions and abatement potential

Estimated total emissions in 2017: 79174 kt (100.0% of global emissions)



[Download the data](#) (Terms and conditions)

Estimated abatement potential

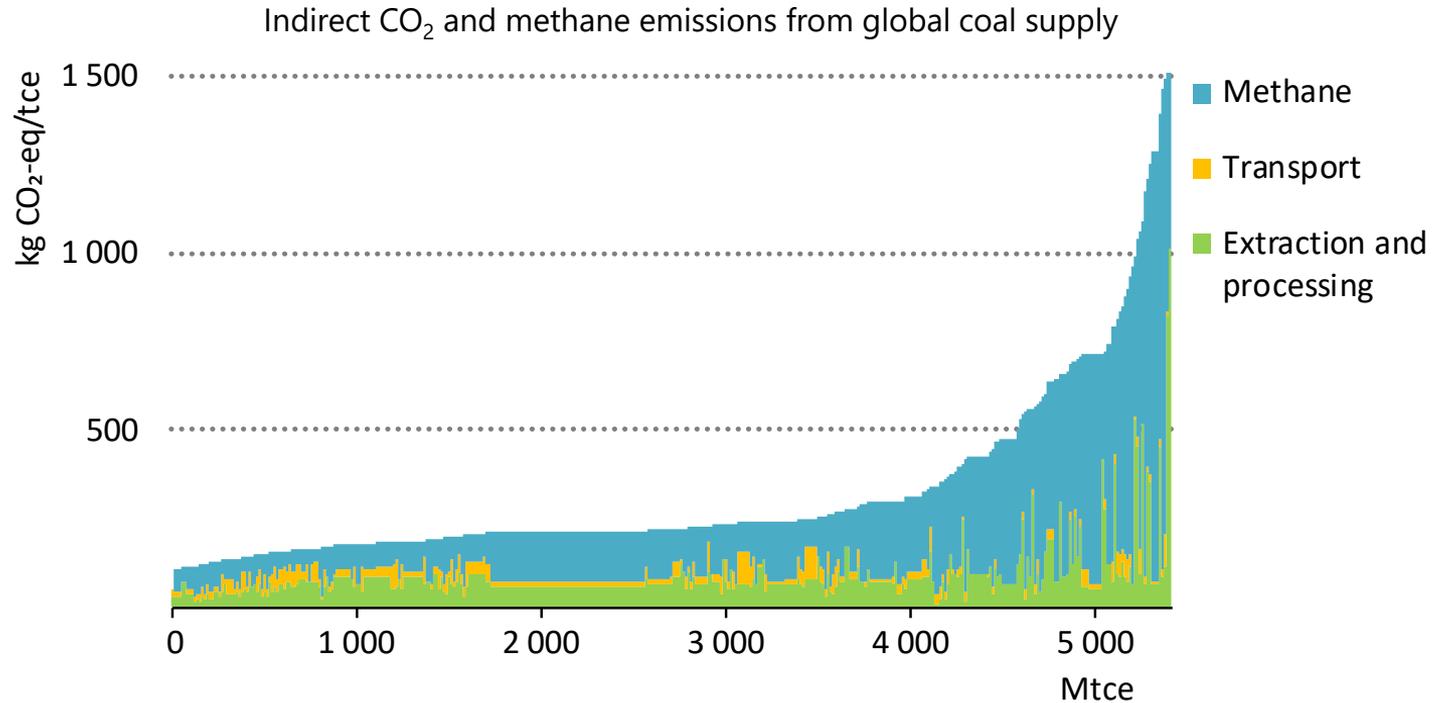


The methane tracker can be found at <https://www.iea.org/woe/methane/database>

Ongoing and planned IEA work on methane regulations

- Develop policy and regulatory database
 - Provide a detailed review and appraisal of countries approaches to methane regulation
- Investigate case studies of regulatory context and drivers of methane emission mitigation
 - Candidate countries include: Mexico, Canada (federal & provincial), Norway, Nigeria...
- Roadmap for country or jurisdiction seeking to implement methane regulations
 - Identify key decision points and actions when developing new regulations and policies
- Host *Global Methane Regulators Network* on 15 January 2020 in Paris
 - Bring together interested parties to strengthen global collaboration on sound methane regulation
- Continue to add new features to the Methane Tracker
 - Include other data sources that can be compared with our estimates
- Explore policies and regulations that could support the adoption of low-emissions gases
 - E.g. gas with minimal methane emission or blended with biomethane and low-carbon hydrogen

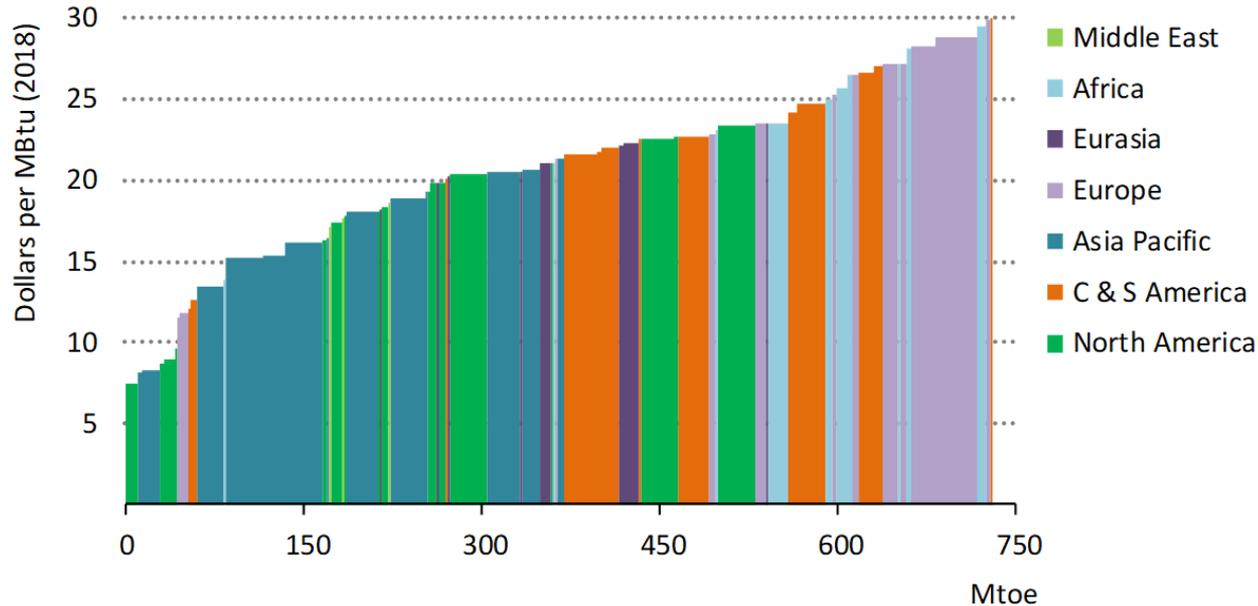
Coal mine methane emissions dominate the indirect emissions of coal



There is wide distribution in the emissions associated with different coal mines; coal mine methane is the main determinant of where coal sits in the indirect emissions spectrum

The global biomethane potential

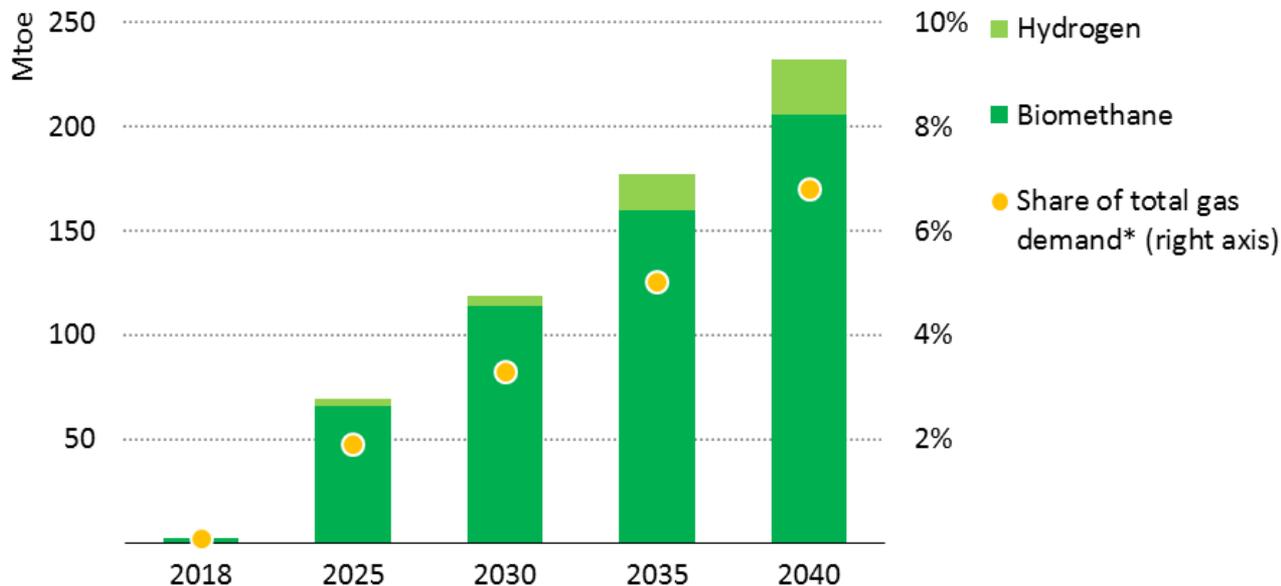
Global potential of biomethane, 2018



Today, we estimate that nearly 750 Mtoe of biomethane could be produced globally: equal to over 20% of annual natural gas demand globally. This potential has a wide geographic spread.

Low-carbon gases in the Sustainable Development Scenario

Low-carbon hydrogen and biomethane injected into gas grids in the Sustainable Development Scenario



Over 230 Mtoe of low-carbon gases are delivered by the gas grid by 2040, equal to around 7% of total gas demand. Some countries consume much higher shares of low-carbon gases

iea