

Coal Subcommittee Co-Chair Report

3 June 2015
Bogotá, Colombia



Updated CMM Country Profiles

- Individual, comprehensive profiles that characterize coal and CMM sectors of 37 countries
 - 29 GMI partners
 - Additional 8 coal-producing nations
- Executive Summary provides summary tables that include statistics on coal reserves, coal production, methane emissions, and CMM project activity
- Profiles updated as of June 2015 and are LIVE at:

<http://epa.gov/cmop/international/cmm-country-profiles.html>

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Coal Mine Methane Country Profiles

This is the third edition of the Coal Mine Methane Country Profiles (formerly the Coal Mine Methane Global Overview), updated in December 2010. This document contains individual, comprehensive profiles that characterize the coal and coal mine methane sectors of 37 countries—29 Global Methane Initiative partners and an additional eight coal-producing nations. The Executive Summary provides summary tables that include statistics on coal reserves, coal production, methane emissions, and CMM project activity.

An International Coal Mine Methane Projects Database  accompanies this document. It contains detailed and comprehensive information on more than 200 CMM recovery and utilization projects around the world. Project information in the database is updated regularly.

This document will be updated annually. Suggestions for updates and revisions can be submitted to the Administrative Support Group and will be incorporated into the document as appropriate.

You will need Adobe Acrobat Reader, available as a free download, to view some of the files on this page. See the PDF page to learn more about PDF, and for a link to the free Acrobat Reader.

Complete document (PDF, 342 pp, 5.8 MB)

TOC, Executive Summary, and Introduction (PDF, 29 pp, 417 KB)

Chapter 1: Argentina (PDF, 7 pp, 144 KB)*

Chapter 2: Australia (PDF, 11 pp, 197 KB)*

Chapter 3: Botswana (PDF, 6 pp, 131 KB)

Chapter 4: Brazil (PDF, 9 pp, 175 KB)*

Chapter 5: Bulgaria (PDF, 6 pp, 127 KB)*

Chapter 6: Canada (PDF, 14 pp, 419 KB)*

Chapter 7: China (PDF, 12 pp, 236 KB)*

Chapter 8: Colombia (PDF, 9 pp, 240 KB)*

Chapter 9: Czech Republic (PDF, 9 pp, 320 KB)

Chapter 10: Ecuador (PDF, 4 pp, 147 KB)*

Chapter 11: Finland (PDF, 3 pp, 117 KB)*

Chapter 12: France (PDF, 5 pp, 129 KB)

Chapter 13: Georgia (PDF, 6 pp, 216 KB)*

Chapter 14: Germany (PDF, 8 pp, 268 KB)*

Chapter 15: Hungary (PDF, 7 pp, 217 KB)

Chapter 16: India (PDF, 12 pp, 207 KB)*

Chapter 17: Indonesia (PDF, 9 pp, 409 KB)*

Chapter 18: Italy (PDF, 7 pp, 166 KB)*

Chapter 19: Japan (PDF, 5 pp, 192 KB)*

Chapter 20: Kazakhstan (PDF, 8 pp, 237 KB)*

Chapter 21: Mexico (PDF, 11 pp, 226 KB)*

Chapter 22: Mongolia (PDF, 11 pp, 219 KB)*

Chapter 23: New Zealand (PDF, 7 pp, 173 KB)

Chapter 24: Nigeria (PDF, 7 pp, 177 KB)*

Chapter 25: Pakistan (PDF, 7 pp, 169 KB)*

Chapter 26: Philippines (PDF, 8 pp, 238 KB)*

Chapter 27: Poland (PDF, 9 pp, 231 KB)*

Chapter 28: Republic of Korea (PDF, 7 pp, 307 KB)*

Chapter 29: Romania (PDF, 8 pp, 224 KB)

Chapter 30: Russia (PDF, 11 pp, 275 KB)*

Chapter 31: South Africa (PDF, 12 pp, 236 KB)

Chapter 32: Spain (PDF, 6 pp, 152 KB)

Chapter 33: Turkey (PDF, 6 pp, 221 KB)*

Chapter 34: Ukraine (PDF, 11 pp, 253 KB)*

Chapter 35: United Kingdom (PDF, 14 pp, 362 KB)*

Chapter 36: United States (PDF, 15 pp, 425 KB)*

Chapter 37: Vietnam (PDF, 6 pp, 151 KB)*

* Global Methane Initiative member country



CMM Technology Database

- Originally compiled in 2008 by Australia's Department of Industry, Tourism and Resources, on behalf of GMI
- Updated and revised in November, 2011 by USEPA
- Provides basic descriptions of several key technologies applicable to CMM recovery and utilization
 - Current status
 - Commercial availability
 - Company information
- Intended to be a living document, updated periodically (last update in October 2014)
- **Please send updates/revisions to Ruiz.Felicia@epa.gov**

https://www.globalmethane.org/documents/partners_cmm_tech_database.pdf

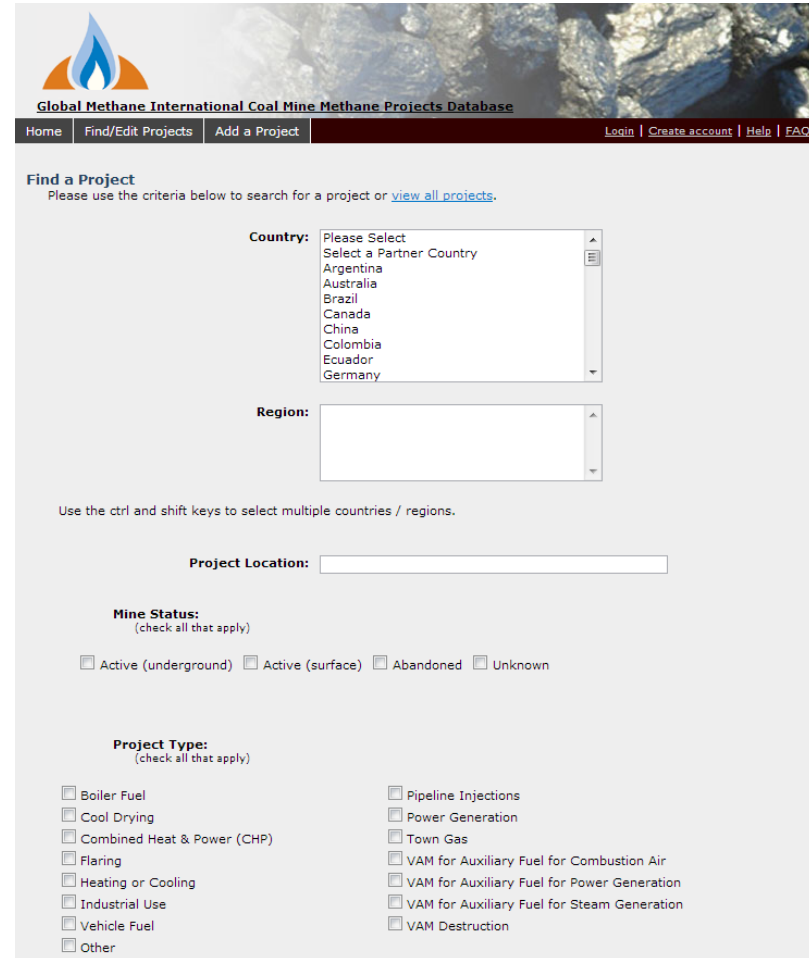
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International CMM Project Database

- Developed by USEPA in 2005 and updated regularly
- Updates and QA/QC in 2014
- Intend to gradually transform data and functionality to the new GMI site map
- Information on over 200 CMM recovery and utilization projects
- Coal Subcommittee encourages anyone with project knowledge to submit a project or additional information on already listed projects

<https://www.globalmethane.org/coal-mines/cmm>



The screenshot shows the search interface for the Global Methane International Coal Mine Methane Projects Database. At the top, there is a logo with a flame and the text "Global Methane International Coal Mine Methane Projects Database". Below the logo is a navigation bar with links for "Home", "Find/Edit Projects", "Add a Project", "Login", "Create account", "Help", and "FAQ". The main content area is titled "Find a Project" and includes the instruction "Please use the criteria below to search for a project or [view all projects](#)." There are two dropdown menus: "Country:" with a list of countries including Argentina, Australia, Brazil, Canada, China, Colombia, Ecuador, and Germany; and "Region:". Below these is a text input field for "Project Location:". There are two sections for checkboxes: "Mine Status:" (Active (underground), Active (surface), Abandoned, Unknown) and "Project Type:" (Boiler Fuel, Cool Drying, Combined Heat & Power (CHP), Flaring, Heating or Cooling, Industrial Use, Vehicle Fuel, Other, Pipeline Injections, Power Generation, Town Gas, VAM for Auxiliary Fuel for Combustion Air, VAM for Auxiliary Fuel for Power Generation, VAM for Auxiliary Fuel for Steam Generation, VAM Destruction).



Coal Subcommittee Action Plan

- Intended to be a living document, updated on an ongoing basis to reflect new projects/activities undertaken
- Outlines activities that will help to develop and disseminate general information about opportunities for CMM project development and address key barriers, including lack of:
 - information, technology and technical knowledge, demonstration for project feasibility, and financing or financing capacity
- Promotes cooperation among Partners and Project Network
- Identifies ways for Subcommittee to understand needs and priorities of individual Partner countries
- **Updated draft disseminated for your review; will be emailed to all delegates after Bogotá meeting**
- **To be finalized by October Subcommittee meeting in Geneva**

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Coal Subcommittee Action Plan (cont.)

- **Coal Subcommittee's Action Plan identifies 3 main activities that Subcommittee undertakes to increase CH₄ recovery and use:**
 - Developing overview materials,
 - Identifying and addressing key barriers to project development, and
 - Identifying country-specific needs and opportunities.
- **Specific Subcommittee activities and examples updated in June 2015**
- **Updated Table 1 summarizes ongoing/planned activities**
- **Please review Subcommittee activities, examples and Subcommittee events**
- **Send suggested revisions and updates to Ruiz.Felicia@epa.gov**

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Coal Subcommittee Draft Statement of Purpose

- **New for Coal Subcommittee**
 - Drafted June 2015
- **Outlines the Subcommittee's Mission, Focus, and Roles of Delegates and Project Network members**
- **Draft disseminated for Subcommittee and Project Network review, to be finalized by October Subcommittee in Geneva**

Coal Subcommittee

Draft Statement of Purpose

- **Mission:**

The GMI Coal Subcommittee is dedicated to reducing the impacts of climate change by providing international leadership to mitigate global methane emissions through the abatement, recovery, and use of methane from coal mines. The Subcommittee promotes collaboration between delegates from Partner Countries and Project Network members to build capacity, develop strategies and markets, and remove barriers to methane mitigation project development in order to improve worker safety, enhance mine productivity, increase revenues, and reduce greenhouse gas emissions.

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Coal Subcommittee Draft Statement of Purpose

- **Focus:**

The Coal Subcommittee primarily focuses on promoting the recovery and utilization of coal mine methane (CMM) and abandoned mine methane (AMM). As a secondary focus, the Subcommittee promotes CMM and AMM projects that involve mitigation-only of drained gas through flaring. From an environmental perspective, it is better to flare excess or stranded CMM rather than to vent it to the atmosphere, as it reduces the overall greenhouse gas emissions.

Coal Subcommittee Draft Statement of Purpose

■ Roles:

Delegates work to achieve these goals by:

- Serving as the country point of contact for information on GMI;
- Preparing and updating country coal sector Methane Action Plans;
- Sharing country policies, incentives, standards, plans, and success stories through participation at GMI events and contributions to GMI resources (including the GMI International CMM Projects Database and the CMM Technology Database, etc.);
- Conducting research, providing technical assistance, hosting workshops or meetings, technology transfer activities, and trainings;
- Developing fact sheets, tools, guides, training plans, country databases, and methane inventories or reduction estimates;
- Attending Subcommittee and other GMI meetings; and/or
- Funding the activities above in other Partner countries.

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Coal Subcommittee Draft Statement of Purpose

■ Roles:

Project Network members assist in these efforts by:

- Providing funding opportunities,
- Participating at events,
- Sharing industry expertise and research,
- Representing similar organizations,
- Implementing methane reduction projects, and
- Publicizing success stories.

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2016 Global Methane Forum

- International “Global Methane Forum” planned for March 28-30, 2016 in Washington, DC, hosted by EPA
- Forum will convene a high-level policy and technical dialogue on methane mitigation opportunities
- Will highlight over ten years of accomplishments in methane mitigation efforts through GMI and CCAC
- Platform for launching new “post-2015” GMI, in close coordination with CCAC, UNECE, and World Bank



2016 GMF: Planning for Coal Technical and Policy Sessions

- Equivalent of a full day of technical and policy presentations
 - Likely two, half-day sessions for Coal Sector
 - Have discretion over what these sessions will entail
 - Not an Expo (i.e. no project opportunity posters)
- Meeting of the Coal Subcommittee
- Informal meeting of the UNECE Group of Experts on CMM
- Subcommittee will convene working group to plan sessions
 - Interested in joining: Ruiz.Felicia@epa.gov
- **Ideas for new themes, topics, approaches?**
- **Focus on high-level/big picture themes and/or technical/project-specific presentations?**
- **Vancouver: What worked/what didn't work?**
- **What do we want to achieve as a Subcommittee?**