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UNECE Group of Experts on Coal Mine Methane

Review and Activities

World Mining Congress

Turning Coal Mine Methane into an Asset: Implementing Best Practices and Policies

20 June 2018, Astana, Kazakhstan

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- Discourse on energy and climate change is usually based on emotions rather than the truth.
- There is a need for open and honest discussion on energy that is based on facts.





- Fossil fuels today: 80% of primary energy and key to energy access.
- In 2050, even under a 2 degree scenario, fossil energy will represent 40% of the energy mix.
- We are headed for a 4 degree climate change scenario.
- SDG7: is not about “clean energy”, but about “**sustainable, reliable, modern, accessible, and affordable**” energy.
- There are 17 SDGs, not just SDG13.
- Without fossil fuels, SDGs will not be achieved.





- Certain options for improving the performance of the energy system are arbitrarily excluded.
- We don't have the luxury to reject any solution.
- Low emissions are better than high ones.
- Reduction of the carbon footprint of the coal industry does not need to happen by its closure.
- There are:
 - HELE technologies,
 - CCS,
 - **CMM.**



Coal Mine Methane

- Capture and use of CMM is among the most effective near-term options to minimize the carbon footprint of the mining sector.
- It mitigates climate change, but also:
 - enhances mine safety and productivity;
 - localizes energy production;
 - improves local/regional air quality;
 - serves as a catalyst for investment.

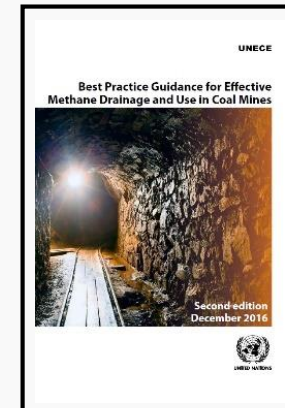
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Best Practice Guidance

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- *Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines*
 - First edition: 2010;
 - Second Edition: 2016.
- In 2011, ECOSOC invited UN Member States, International Organizations, and the Regional Commissions to take measures to ensure the application of BPG in countries worldwide.



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International Centres of Excellence on CMM

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- Operate under the auspices of UNECE and in partnership with local specialized entities;
- Members and their institutions and companies are repositories of knowledge;
- Promote best practices developed by the Group;
- Facilitate international communication and cooperation in the field of CMM;
- Identify new good practices.



ICE-CMM
卓越瓦斯



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Abandoned Mine Methane

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- Problem of emissions persists throughout the whole coal-mining life cycle.
- There is huge potential for GHG reduction in proper AMM management.
- AMM will be a focal point for the Group in 2018-2019.

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Project on Transition of the Energy Sector

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- Joint project of all Groups of Experts operating under the umbrella of the UNECE Committee on Sustainable Energy.
- A tool for assisting UNECE member States in delivering on effective transition to low-carbon energy and green economy.



Group of Experts on Coal Mine Methane

The Community

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Who are the members of the Group of Experts on Coal Mine Methane?

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The Community

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- The group of experts are professionals trained and practicing many disciplines—we are:
 - scientists,
 - engineers,
 - economists,
 - miners
 - lawyers,
 - government officers,
 - members of NGOs,
 - politicians,
 - equipment manufacturers,
 - ...
 - from the member states of the United Nations
- Many of us and our organizations are also members GMI

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The Community

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- The largest coal producing nations are members of GMI and/or UNECE GoE and three of the largest provide strong leadership and support.
- Collaboration between government and the private sector is a driving force of both organizations. Leading experts come from both the public and private sector. They are at the forefront of the “best practices movement”.
- Inclusiveness, dialogue, exchange, cooperation.

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Activities (2018-2019)

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Dissemination of Best Practices

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➤ Workshops:

- Colombia (Summer 2018);
- Georgia (Q4 2018 or 2019);
- Ukraine (2019);
- Turkey (2019).

➤ Seminars:

- Poland (February 2018);
- Canada - GMF (April 2018);
- Kazakhstan - World Mining Congress (June 2018);
- Ukraine - International Forum on Energy for Sustainable Development (November 2018);
- COP24, Poland (December 2018) (?)

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Best Practices in AMM

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- Problem of emissions persists regardless of mode of mining and throughout the whole coal-mining life cycle.
- Proper management of AMM could be a cost-effective means of reducing GHGs emissions.
- In many countries problem of mine closure is gradually more challenging.
- The Group works on the document identifying best practices for effective Abandoned Mine Methane capture and use.

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Transition of the Energy Sector

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- Modernization cannot be avoided or delayed.
- It is in states' best interest to undertake the process in the most efficient and cost-effective manner.
- A tool to facilitate an effective transition to low-carbon energy and green economy through helping states to plan approaches to modernizing their mining and energy sectors.
- Objective to explore a great potential that lies in transformation of large industrial complexes.
- **The initial stage:** a plan for modernization of fossil fuel based industrial sites by reorienting them towards modern technologies and more efficient use of available resources.
- **The subsequent stage:** a robust and flexible business model for efficient industrial site's transition, replicable in other industrial sites in like countries or regions.

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Cooperation with U.S. EPA and GMI

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XB Project on Dissemination of best practices in the abatement, recovery, and use of methane

- Continuation of the first phase of the project delivered throughout the 2016-2017 biennium;
- Mandate: ECOSOC decision 2011/222;
- Sponsor: U.S. Environmental Protection Agency;
- Grant: \$200,000;
- Duration: Jan 2018 – Dec 2019;
- Project implementation in cooperation with Global Methane Initiative.

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Contact

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Thank you!

Sustainable Energy Division

UNECE

20 June 2018, Astana, Kazakhstan