

**Day / Track: 15 Nov / Track I: Energy transition and decarbonization
14.00-17.30**

Workshop: Best Practices in Coal Mine Methane Capture and Utilization. Application in Ukraine

Organizers: United Nations Economic Commission for Europe, Ukraine

Target group: Coal Community, Mine Operators, Mine Employees, Policy-Makers, Regulators

Two sessions are designed to discuss the future of the Ukrainian mining sector and the challenges that it currently faces. They will serve as a fact-finding mission assessing methane related problems in Ukrainian coal mines (resulting from imperfect regulation, ineffective application of the existing rules and procedures, lack of awareness, and/or insufficient technological capacity), as well as the potential for development of the Coal Mine Methane (CMM) projects in the country.

The first session will start with a discussion on the application of best practices in CMM capture and use in Ukraine. A special focus will be given to the difference in the working culture between the principle-oriented approach and a strict manual approach. This part will have a form of an open discussion with mine operators, mine engineers, and the personnel working underground about the understanding that they have of the rules and regulations applicable to their work (so that the best practices developed and promoted by the UNECE Group of Experts on Coal Mine Methane can be introduced and explained in a clear manner allowing for their widespread application in the country).

The second part of this session will be dedicated to the current state of the Ukrainian mining sector. It will feature a presentation prepared by the Ukrainian stakeholders providing the Group with the data on methane release, capture, and use in Ukraine, as well as with an overview of the ongoing and planned CMM projects in the country. The foreign experience of developing CMM project and working in the field of coal mining in Ukraine will also be discussed.

The second session will start with the presentation of the institutional and regulatory landscape related to CMM in Ukraine. Two presentations on policies and on economic strategies for successful CMM projects' development will be delivered by international experts. The plans for the future of the Ukrainian coal sector, including the establishment of the International Centre of Excellence on CMM, will also be discussed. The session will close with an open dialogue between the Group and the Ukrainian stakeholders (decision-makers and regulators) seeking to identify the needs of the latter, the challenges that they face, their plans for the future, and their expectations from UNECE in general, and from the workshop that the Group is to organize next year in particular.

Time	Content	Speaker
14.00-14.05	Welcome / Introduction	Mr. Raymond Pilcher , Chair, UNECE Group of Experts on Coal Mine Methane
14.05-15.30	Session I	Speakers:
	Part I: Best Practices in Coal Mine Methane Capture and Utilization	
14.05-14.25	<ul style="list-style-type: none"> • Principle-oriented vs. strict manual approach 	Mr. Raymond Pilcher , Chair, UNECE Group of Experts on Coal Mine Methane Mr. Neil Butler , Technical Director, HEL-East Ltd
14.20-14.35	Discussion	All participants
	Part II: Current state of the Ukrainian Mining Sector	
14.35-14.50	<ul style="list-style-type: none"> • An overview of the coal mines operated in uncontested Ukraine territory <ul style="list-style-type: none"> ○ The amount of methane being released during mining, including that drained and contained in ventilation air. 	Presentation by an Ukrainian Stakeholder

14.50-15.10	<ul style="list-style-type: none"> ○ Projects that use or destroy methane recovered from coal mining (only those subject to the Ukrainian government's mine safety regulatory authority) • Foreign Experience of Developing CMM Projects in Ukraine 	<p>Mr. Andrey Garanin, Director of UMG for Kazakhstan and CA (TBC)</p> <p>Ms. Meredydd Evans, Senior Staff Scientist, Joint Global Change Research Institute, Pacific Northwest National Laboratory</p> <p>Mr. Zbigniew Lubosik, Deputy Director for Geoengineering and Industrial Safety, Polish Central Mining Institute (TBC)</p>
15.10-15.30	Discussion	All participants
15.30-16.00	Break	
	Session II	
16.00-16.10	<ul style="list-style-type: none"> • An overview of mine regulations pertaining to the mine safety and explosion prevention <ul style="list-style-type: none"> ○ Overview of the local institutional landscape of the relevant regulatory bodies ○ Applicable normative documents. 	Presentation by an Ukrainian Stakeholder
16.10-16.20	<ul style="list-style-type: none"> • Policies in place that promote CMM and VAM use <ul style="list-style-type: none"> ○ Legislation or regulation that thwarts use or destruction of captured gas ○ Plans for future legislation or regulation. 	Presentation by an Ukrainian Stakeholder
16.20-16.30	<ul style="list-style-type: none"> • “Getting it Right: Policies that Provide a Solid Foundation for the Development of CMM/AMM and VAM Projects” 	Ms. Meredydd Evans , Senior Staff Scientist, Joint Global Change Research Institute, Pacific Northwest National Laboratory
16:30-16:40	<ul style="list-style-type: none"> • “The Economics of Successful Project Development” 	Mr. Clark Talkington , Vice President, Advanced Resources International (ARI)
16:40-16:55	<ul style="list-style-type: none"> • Strategy for the future of the mining sector <ul style="list-style-type: none"> ○ Plans for additional coal mine construction, planned production volumes, timing, expected gassiness of the planned mines. ○ Proposed Ukrainian Centre of Excellence. <ul style="list-style-type: none"> ▪ Funding ▪ Structure ▪ Hosting entities ▪ Mode of operation ▪ Priority topics, and their alignment with the outcomes that the Centre seeks to achieve 	Presentation by an Ukrainian Stakeholder
16:55-17:05	<ul style="list-style-type: none"> • Global CMM and AMM Emissions: Implications of Mining Depth and Future Coal Production 	Mr. Nazar Kholod , Scientist, Joint Global Change Research Institute, Pacific Northwest National Laboratory
17:05-17:25	Discussion	All participants
17.25-17.30	Wrap-Up / Conclusion	Mr. Ray Pilcher , Chair, UNECE Group of Experts on Coal Mine Methane