Methane management across the energy value chain

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IPIECA-OGCI
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Who is UNECE?

- 56 countries in N.A, Europe, FSU, central Asia, Israel and Turkey;
- Produce 40% of the world’s energy, consume 45%;
- Home to important energy industries;
- Produce nearly 50% of the global economic output;
- Dominant in the world’s financial infrastructure;
- Fossil fuels are 60% of primary fuel in the UNECE region;
- UNECE region accounts for half of global emissions;
- The region is diverse. Comprised of high and low income countries, countries that are energy rich and energy poor and countries that are in economic transition.
Committee on Sustainable Energy – Energy for Sustainable Development:

1. Assist countries in implementing the Hammamet declaration
2. Develop normative instruments (best practices / standards / regulations) that will enable needed investments.
3. Provide countries with a platform to compare notes: what works / what doesn’t work

Expert Groups:
- Energy Efficiency
- Renewables
- UNFC and Resource Classification
- Cleaner Electricity Production from Fossil Fuels
- Natural Gas
- Coal Mine Methane

Methane management initiatives
Energy Systems are changing

European Crude Oil, Natural Gas and Coal prices have increased and become increasingly volatile.

Photovoltaics price decreases – becoming competitive sources for power in some applications and regions.
Fossil fuels are relevant in all future scenarios

- **2012 Current energy picture**: 80% of 455 EJ/yr
- **2050 Extending current trends**: 80% of 740 EJ/yr
- **2050 IEA 2°C Scenario**: 45% of 295 EJ/yr

Source: IEA Energy Technology Perspectives 2015.
Our work on Natural Gas

**Upstream**

**Midstream**

- Power
- Industrial
- Transport
- Commercial
- Residential
Group of Experts on Gas – Methane Leakages

• Prepare systematic assessment of gas leakage rates across the value chain, i.e., in gas production, transport, distribution
  - Review of approaches to measuring, monitoring, and reporting leakage rates
  - Review the range of gas technology, pipelines, and infrastructure construction and maintenance techniques deployed across the ECE region - special focus on the best and worst performers
  - Review the different options and techniques that exist and costs associated with reducing leakages throughout the gas chain

• Prepare “Best Practice Guidance” in reducing gas leakage rates throughout the gas chain, with considerations for local conditions of industry, regulators, and policy-setters
Group of Experts on Coal Mine Methane (CMM)

- Disseminate the Best Practice Guidance for Effective Methane Drainage and Recovery in Coal Mines
  - First Published in 2010 in partnership with GMI – update efforts ongoing
  - Primary intent:
    - improve mine safety at underground coal mines and
    - encourage the use of coal mine methane, as a way of reducing greenhouse gas emissions
  - Translations: Russian, Chinese, Bosnian/Croatian/Serbian, Mongolian and Spanish, considering Korean, Romanian, Turkish, and Vietnamese

- Launch and support the work of the International Centre of Excellence on Coal Mine Methane
  - Training and increased depth of research
  - Increased engagement with the wider coal mining community, including the civil society, mining associations, and decision-makers

- Collect and disseminate case studies on the application of best practice guidance in specific coal mines in different regions of the world

- Expand the Group of Experts’ scope of work to cover integrated methane management in the context of sustainable development
Thank you!

CMM meeting and CMM/GMI workshop
27-28 October 2015

Cleaner Production of Electricity from Fossil Fuels meeting and workshop
29-30 October 2015

Group of Experts on Gas meeting
10- 11 February, 2015

http://www.unece.org/energy/se/com.html