

Methane management across the energy value chain

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UNECE

Who is UNECE?



- 56 countries in N.A, Europe, FSU, central Asia, Israel and Turkey;
- Produce 40% of the worlds energy, consume 45%;
- Home to important energy industries;
- Produce nearly 50% of the global economic output;
- Dominant in the worlds 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.

UNECE Sustainable Energy Division

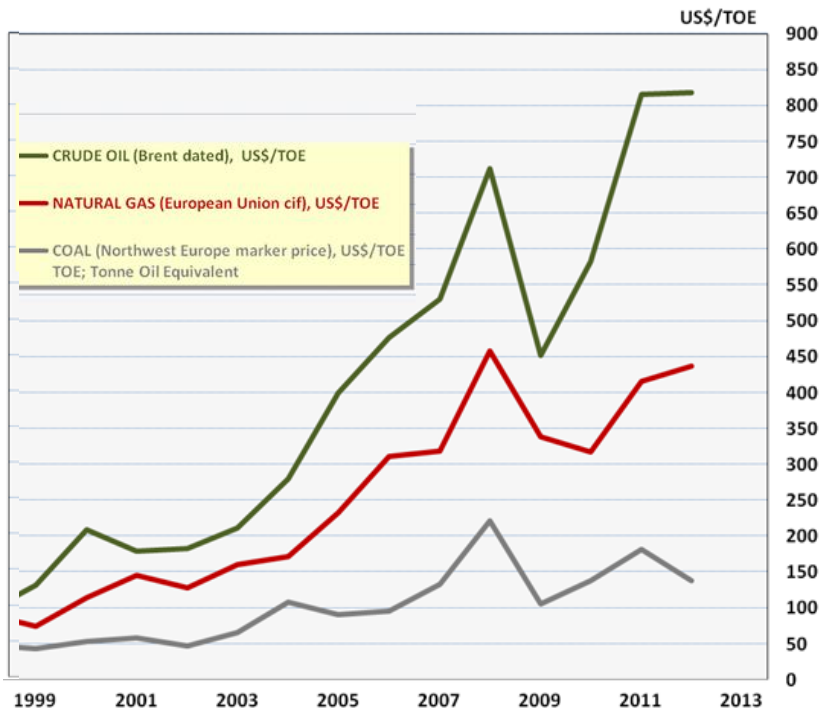
Committee on Sustainable Energy – Energy for Sustainable Development:

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:

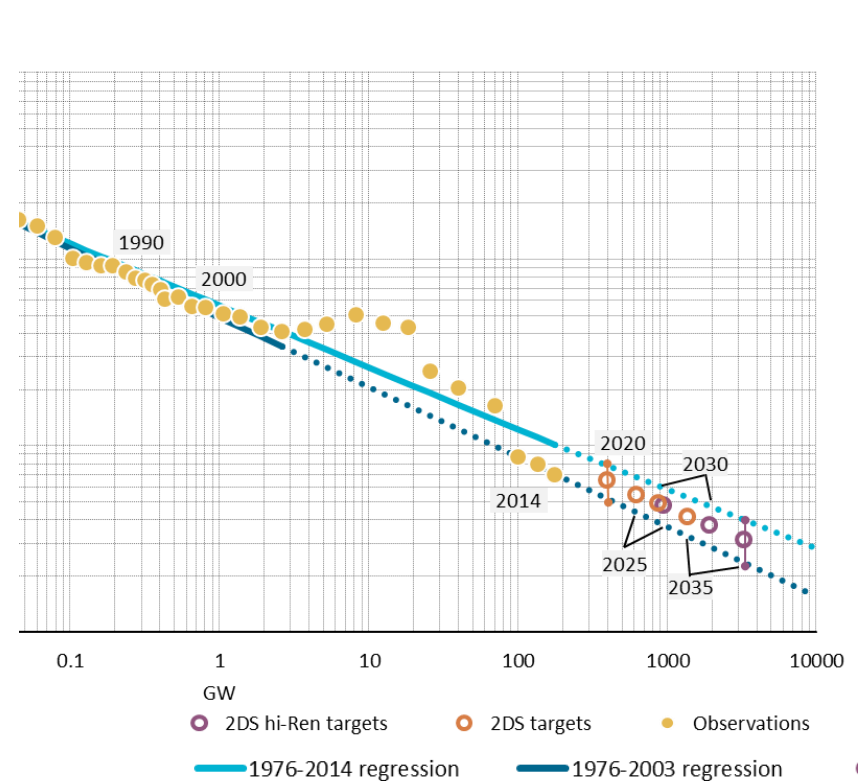
- Energy Efficiency
 - Renewables
 - UNFC and Resource Classification
 - Cleaner Electricity Production from Fossil Fuels
 - Natural Gas
 - Coal Mine Methane
- } Methane management initiatives

Energy Systems are changing



Source: Data – BP 2013, Diagram developed by Rune Likvern

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



Source: IEA

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%

455 EJ /yr

2050

Extending current trends

80%

740 EJ/yr

2050

IEA 2°C Scenario

45%

295 EJ/yr

Fossil fuels in primary energy demand

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**



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Sustainable Energy Week 2015

Pathways to Sustainable Energy

18-20 November 2015 - Geneva

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