



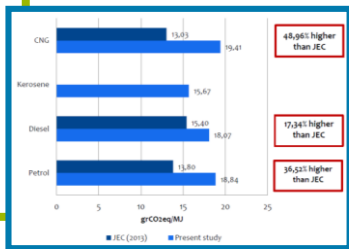
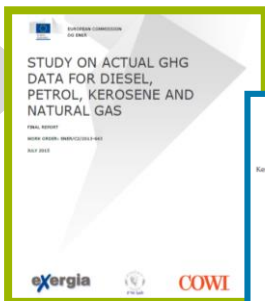
Methane emissions in extractive industry

Group of Experts on Gas

Francisco de la Flor
Chair

26th September, UNECE Sustainable Energy Week 2018

Some stakeholders challenging the future role of natural



Natural gas is a \$22bn distraction for EU shipping that won't decarbonise the sector – study

Natural gas in vehicles – on the road to nowhere



Natural gas is not a 'bridge fuel', as claimed, but an expensive dead-end on the pathway to decarbonising transport.



Fossil fuel industry's methane emissions far higher than thought

Emissions of the powerful greenhouse gas from coal, oil and gas are up to 60% greater than previously estimated, meaning current climate prediction models should be revised, research shows



Methane leaks

A dirty little secret

Natural gas's reputation as a cleaner fuel than coal and oil risks being sullied by methane emissions



Issues in methane management

**Reduce
uncertainty**

**Measure
emissions**

**Validate/verify
emissions**

**Common
reporting**

**Harmonised
methodology**

**Implement
Best Practices**

**Development
of technologies**



Several actors and initiatives



Guiding Principles

- ❑ To continually reduce methane emissions;
- ❑ advance strong performance across gas value chains;
- ❑ improve accuracy of methane emissions data;
- ❑ advocate sound policies and regulations on methane emissions;
- ❑ and increase transparency



Marcogaz 's Methane Emissions Report – Midstream 2017

LNG

- 4.700 ton CH₄
- 0,002 % compared to the EU28 sales
- 0,003% of anthropogenic CO_{2eq}

UGS

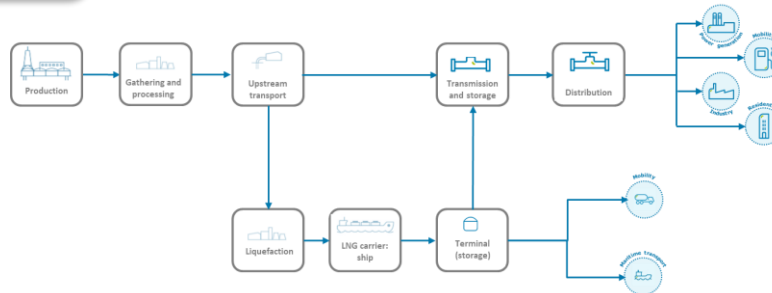
- 38.000 ton CH₄
- 0,01% compared to the EU28 sales
- 0,02% of anthropogenic CO_{2eq}

TSO

- 133.000 ton CH₄
- 0,05% compared to the EU28 sales
- 0,08% of anthropogenic CO_{2eq}

DSO

- 339.000* ton CH₄
- 0,12% compared to the EU28 sales
- 0,21% of anthropogenic CO_{2eq}



Remarks

- ✓ Results valid at global European level and not for an individual country
- ✓ (*) 553.000 with 95% confidence level
- ✓ Emissions from 2015 data

Group of Experts on Gas' initiatives



The image shows the cover of a report. At the top, there are logos for UNECE, Global Methane Initiative, and CARBON LIMITS. The title is 'Methane Management in Extractive Industries (Upstream Oil and Gas / Downstream Gas)'. Below the title, it says '-Joint UNECE/GMI Project'. The authors are listed as Torleif Haugland, Carbon Limits and Michal Drabik, UNECE. The location and date are 'Geneva, March 2018'. The background of the cover is a green landscape with a body of water and mountains.

**Methane Management in Extractive Industries
(Upstream Oil and Gas / Downstream Gas)**

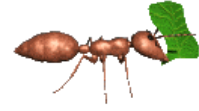
-Joint UNECE/GMI Project

Torleif Haugland, Carbon Limits
Michal Drabik, UNECE
Geneva, March 2018

Project Overview

- To assess methane emissions in Upstream Oil and Gas, and in Downstream Gas industries in the UNECE member States.
- To increase capacity of the UNECE Member States for MRV and reduce methane emissions in Upstream Oil and Gas, and in Downstream Gas industries.

In Summary



Thank You