

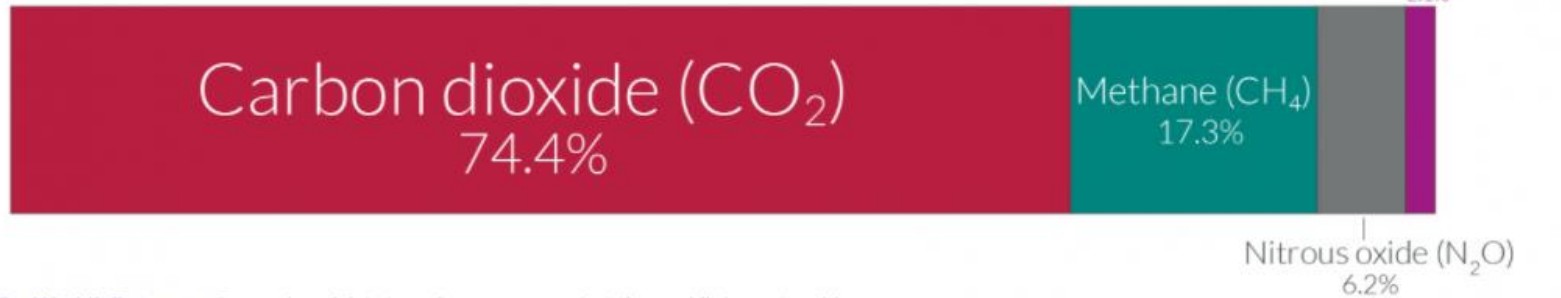
FOCUS ON METHANE EMISSIONS BY OIL INDUSTRY

Karolina Čegir, Senior Gas Expert, Energy Community Secretariat

Global greenhouse gas emissions by gas

Greenhouse gas emissions are converted to carbon dioxide-equivalents (CO₂eq) by multiplying each gas by its 100-year 'global warming potential' value: the amount of warming one tonne of the gas would create relative to one tonne of CO₂ over a 100-year timescale. This breakdown is shown for 2016.

Our World
in Data



OurWorldinData.org – Research and data to make progress against the world's largest problems.
Source: Climate Watch, the World Resources Institute (2020).

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In Contracting Parties:

CO₂ 68-78%

CH₄ 13-20%

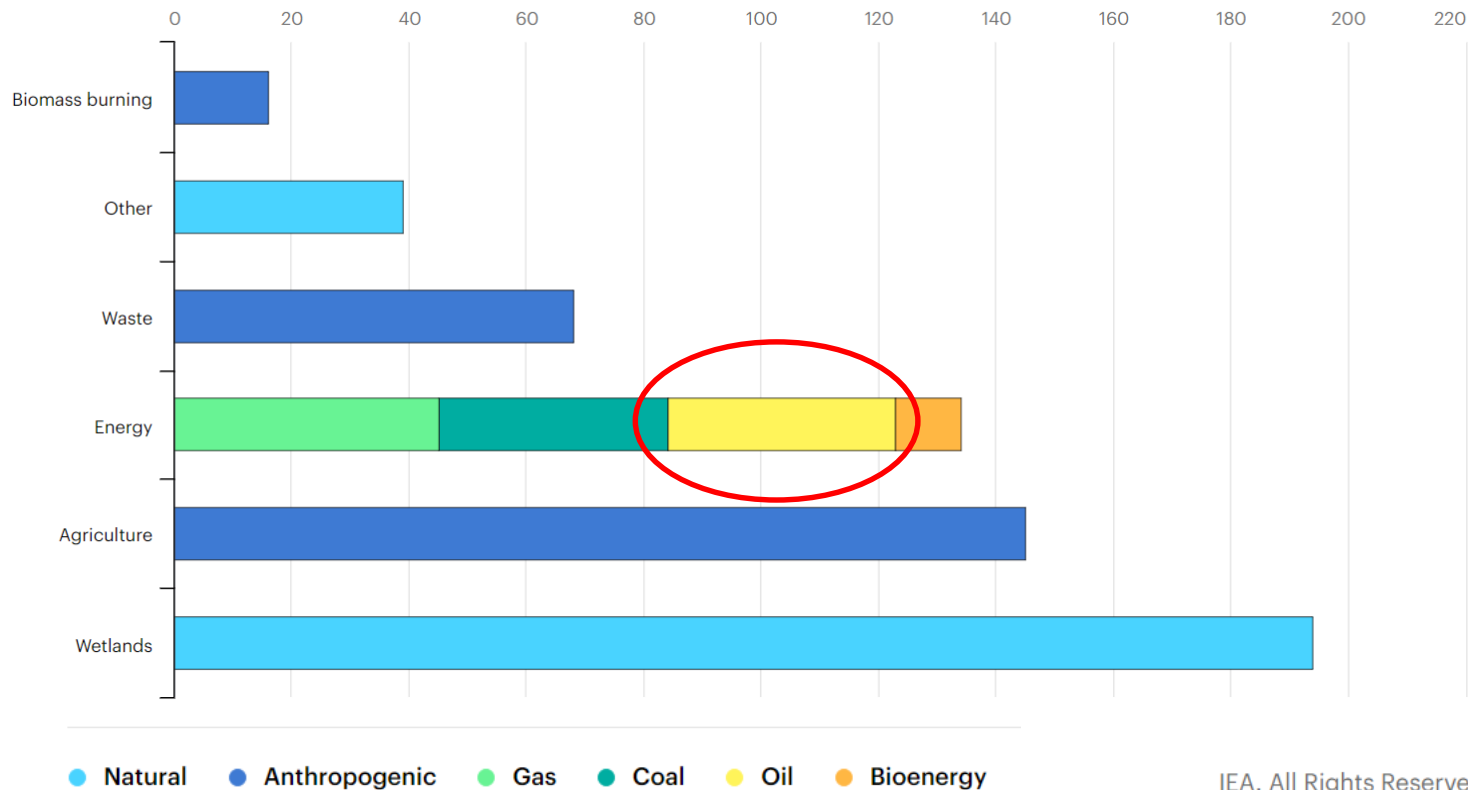
Methane:

Atmospheric life time 8-12 years

GWP100 28-36 / GWP20 84-87

Methane emissions – role of oil industry (1)

MT of methane



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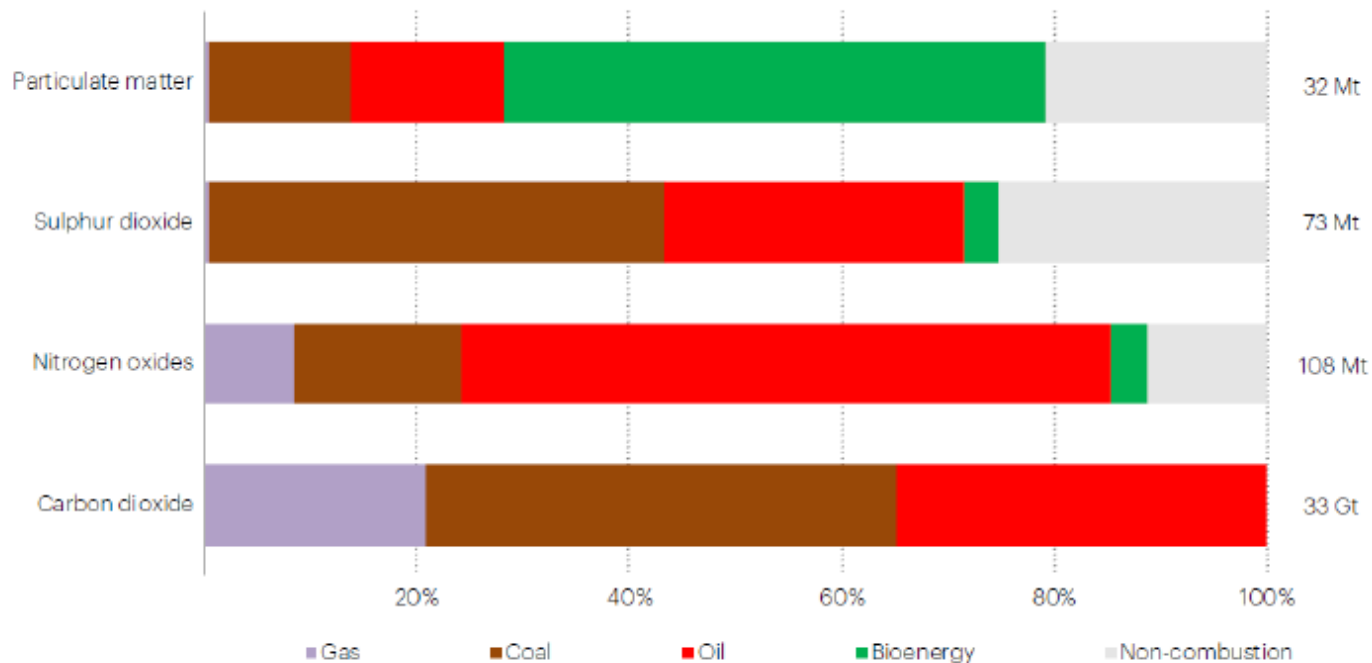
Methane emissions:
40% biogenic
60% anthropogenic

Global oil & gas sector methane emissions: 79 Mt CH₄



Source: IEA, Methane tracker; www.iea.org/weo/methane/database

Share of gas in total energy-related emissions of selected air pollutants (2015) and CO₂ (2018)



Source: IEA Methane Tracker

June 2019 / **GIE& Marcogaz report** on methane emissions by EU gas system operators

October 2020 / **EU Strategy on methane emissions**

All three sectors covered: agriculture, waste, energy

Establishment of international methane emissions observatory (IMEO)

During 2021 / **Development of legislation**

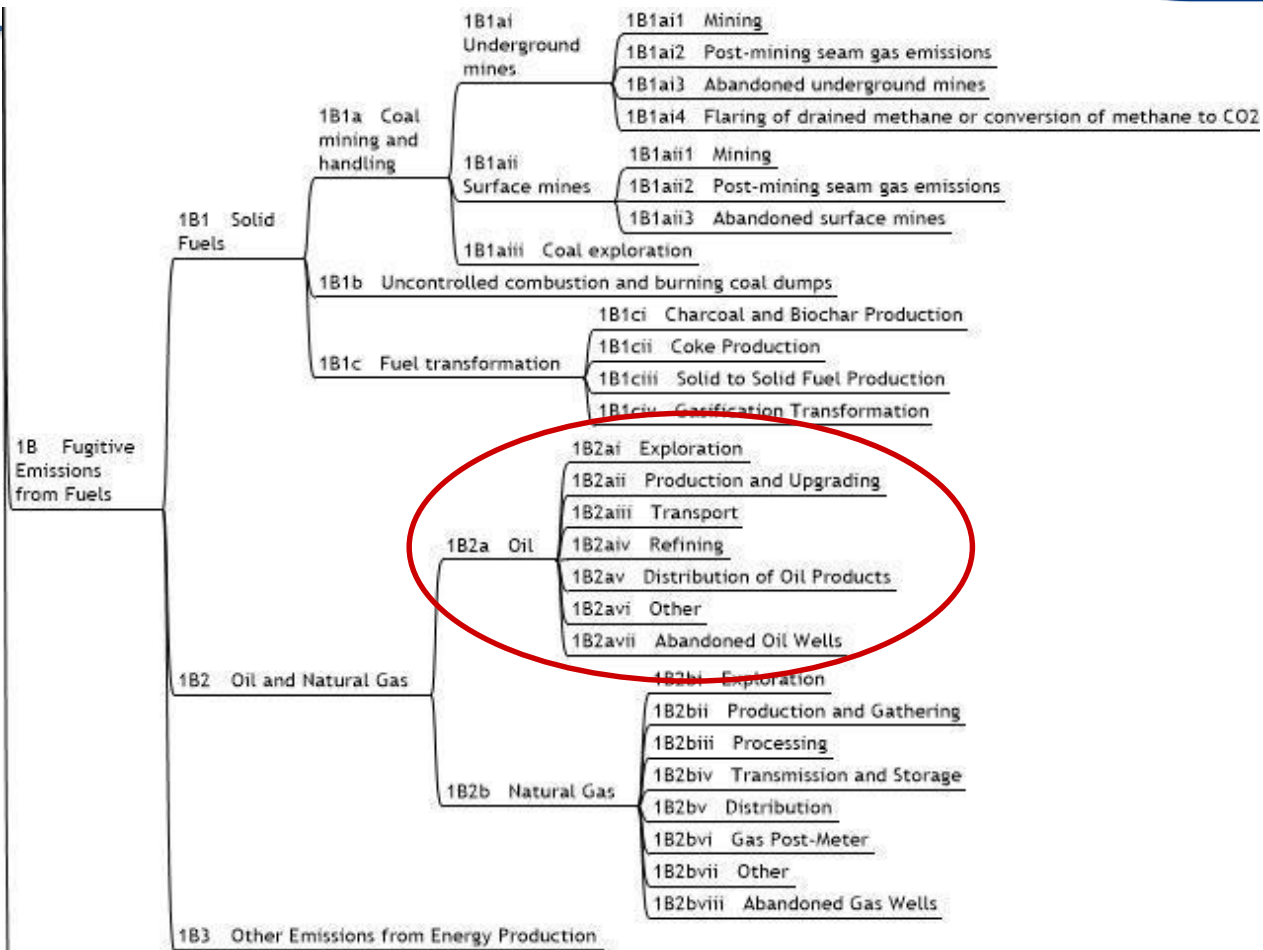
For **gas** industry – mandatory **LDAR** (leak detection and repair)

For coal, **oil** and gas sectors – mandatory **MRV** (monitoring, reporting, verification)



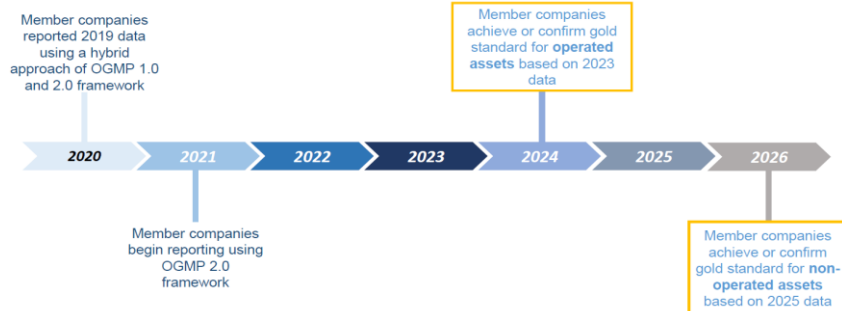
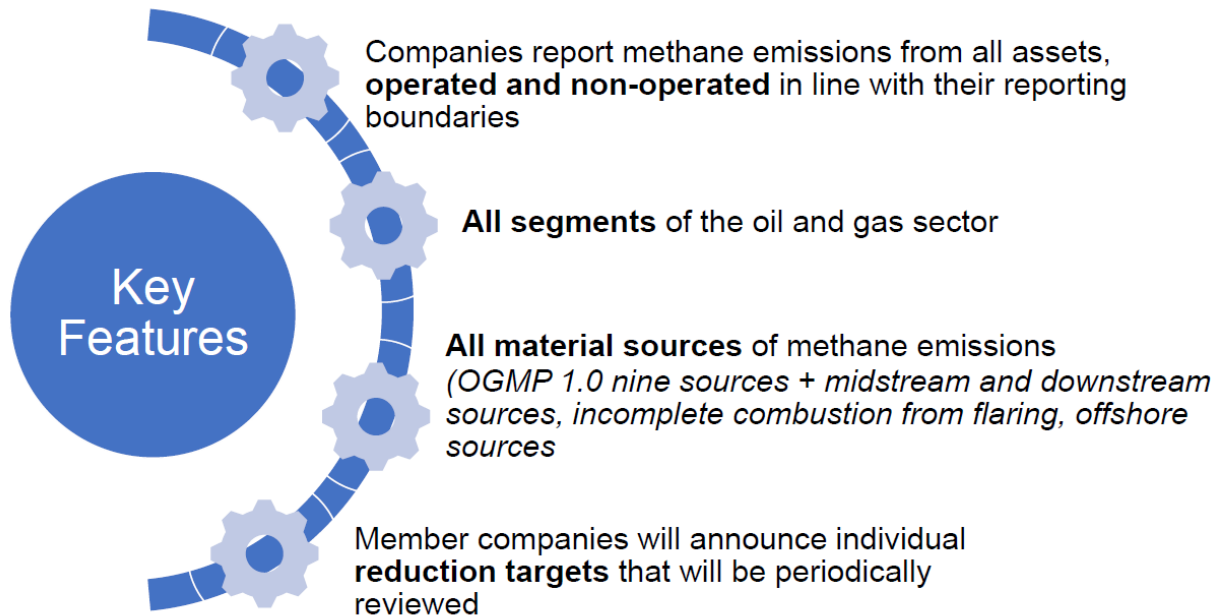
in line with OGMP 2.0

All but one CPs signatories to the Paris Agreement, With obligation to report

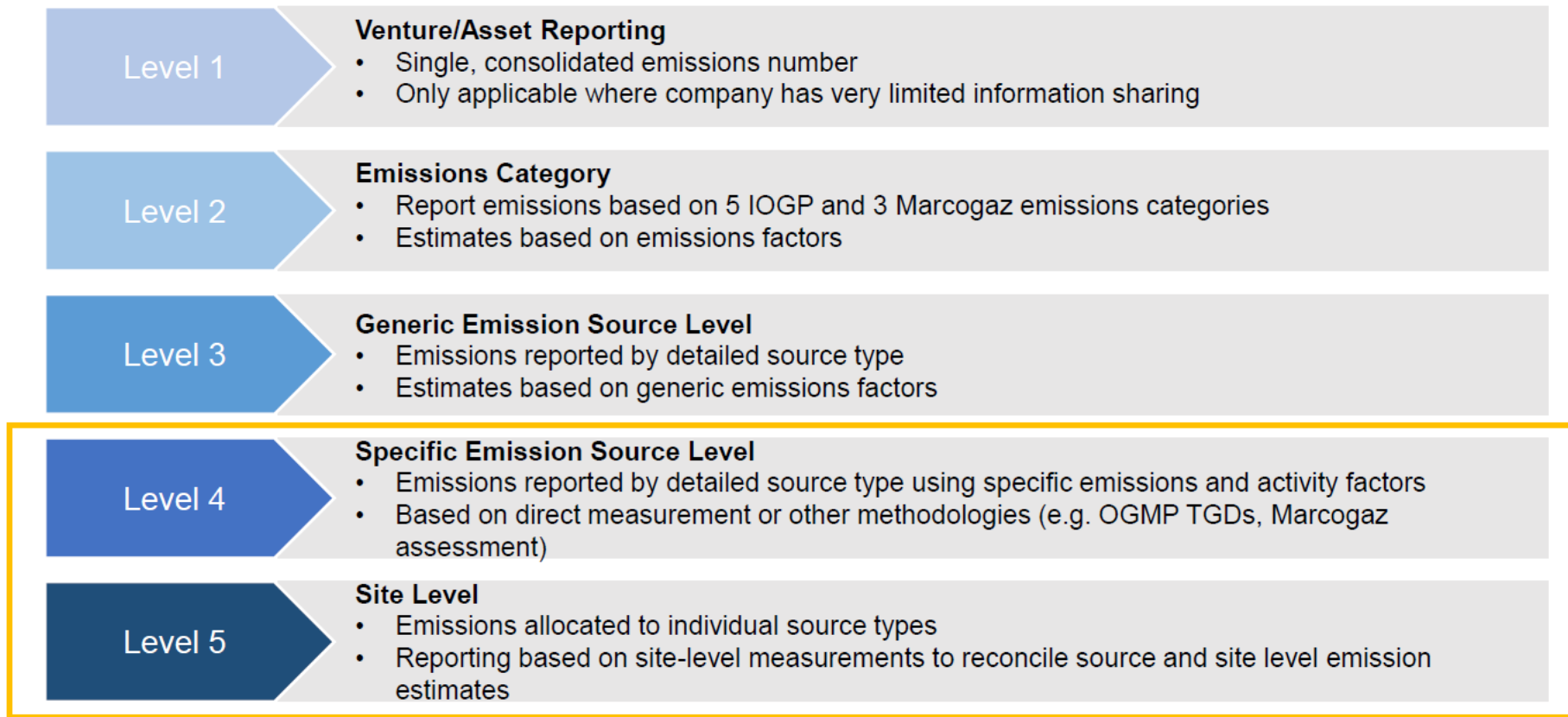


- the Oil and Gas Methane Partnership (OGMP) methodology was created by the Climate and Clean Air Coalition under UNEP in 2014 as a voluntary initiative to help companies reduce methane emissions in the oil and gas sector
- Version 2.0 signed in 2020 with more elements of measurement, reduction targets, deadlines for activities

The “gold standard” of methane emissions reporting



Source: MM1, Giulia Ferrini, UNEP



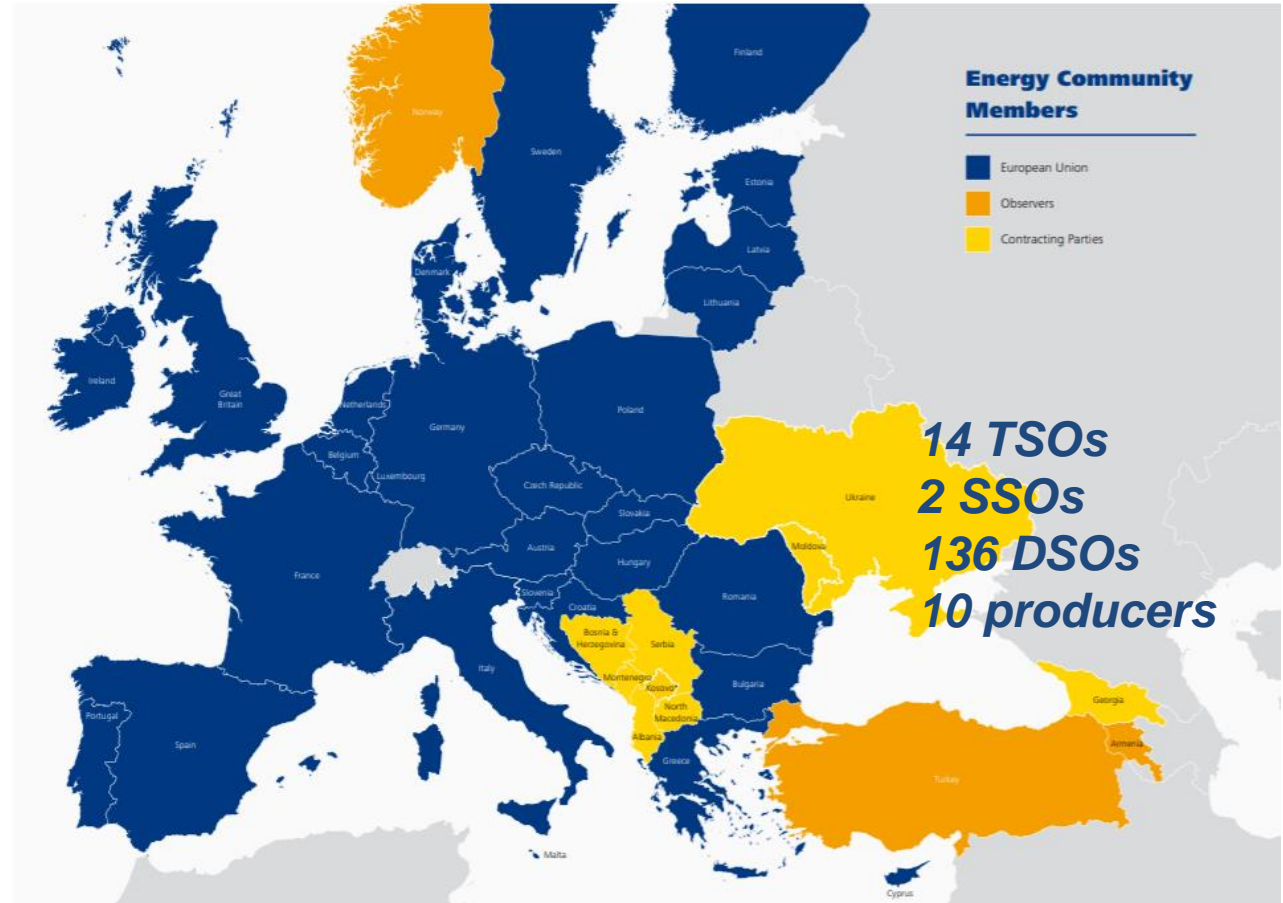
Source: MM1, Giulia Ferrini, UNEP

Energy Community Contracting Parties / gas sector

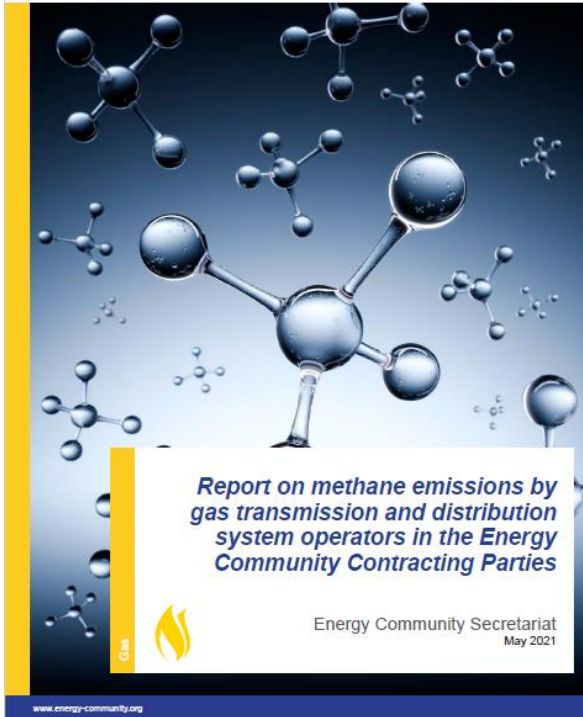
- Total natural gas consumption ~ 38 Bcm/y
- Total natural gas production ~ 20 Bcm/y
- UGS capacity ~ 31,5 Bcm
- No LNG terminals

- Transmission network
~ 45.000 km

- Distribution network
~ 370.000 km



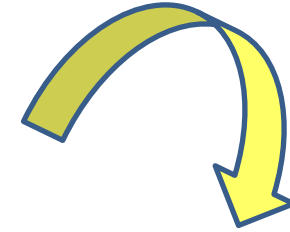
Report on methane emissions by gas system operators (2019)



Gas sector	no of TSOs	no of DSOs	no of SSOs
Albania	2	1	0
Bosnia and Herzegovina	3	4	0
Georgia	1	30	0
Moldova	3	24	0
North Macedonia	1	3	0
Serbia	3	32	1
Ukraine	1	42	1
Total	14	136	2

38.000 km of transmission network
= **92%** of total in EnC CPs

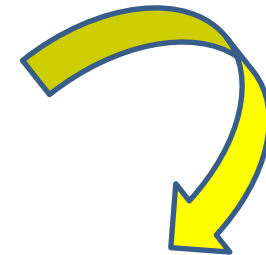
262.000 km of distribution network
= **71%** of total in EnC CPs



Collection of 2020 data

More gas system operators
Responded

Oil industry approached




- Monthly Methane Mondays ongoing....to be continued
- Raising knowledge – bilaterally, via webinars
- Continuation of cooperation with GIE, Marcogaz, MGP, IOGP, OGCI....
- Opening horizontal discussions – regulators, ministries responsible for energy, environment
- **Inclusion of oil industry**
- Inclusion of coal industry.....
-



**THANK YOU
FOR YOUR ATTENTION**

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