

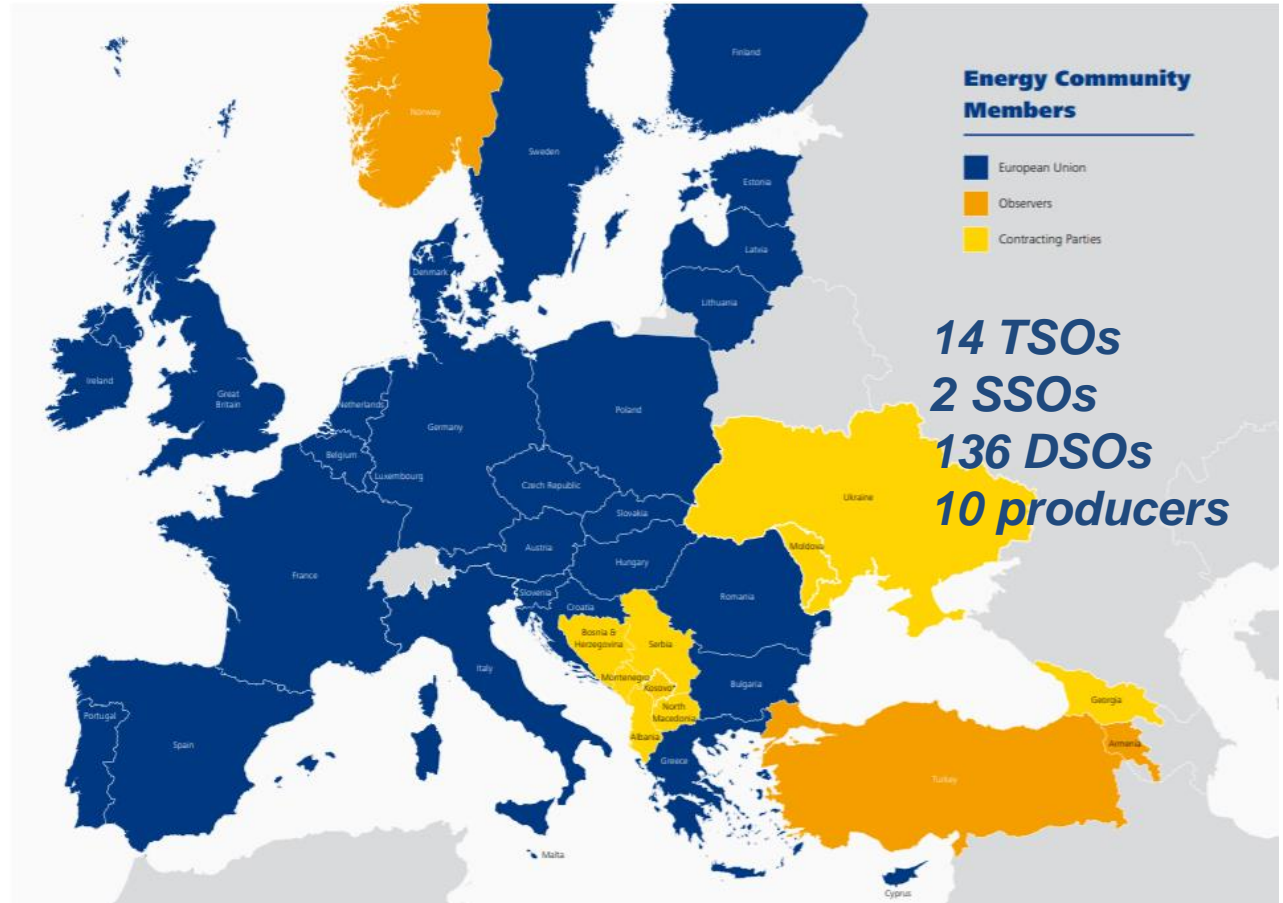
The background of the slide is a dark blue globe with glowing blue energy lines and arcs, suggesting a global network or energy flow.

Methane emissions by gas industry in the EnC Contracting Parties

Karolina Čegir, Senior Gas Expert

- 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



➤ Triggers

DSOs' focus on gas losses

GIE & Marcogaz report on methane emissions by the EU gas system operators

➤ Purpose

To include EnC CPs gas industry in the EU gas industry trends and actions

➤ Objective

An assessment of methane emissions by the gas system operators in the Contracting Parties, as a ground level for further activities

By-side results:

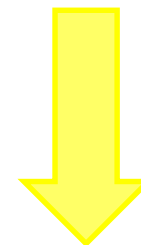
- ***ECS joined MGP***
- ***3 companies signed OGMP 2.0***

- Start: January 2020 / Dissemination of Marcogaz' template tables
- February – June: Communication on purposes, aims, methodology
- Additional issue: translation of questionnaires and methodology
- Additional issue: confidentiality
- September – December: filled questionnaires, cross checking data
- January – March 2021: writing report
- April 2021: publishing report
- May 2021.....start of follow up

	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

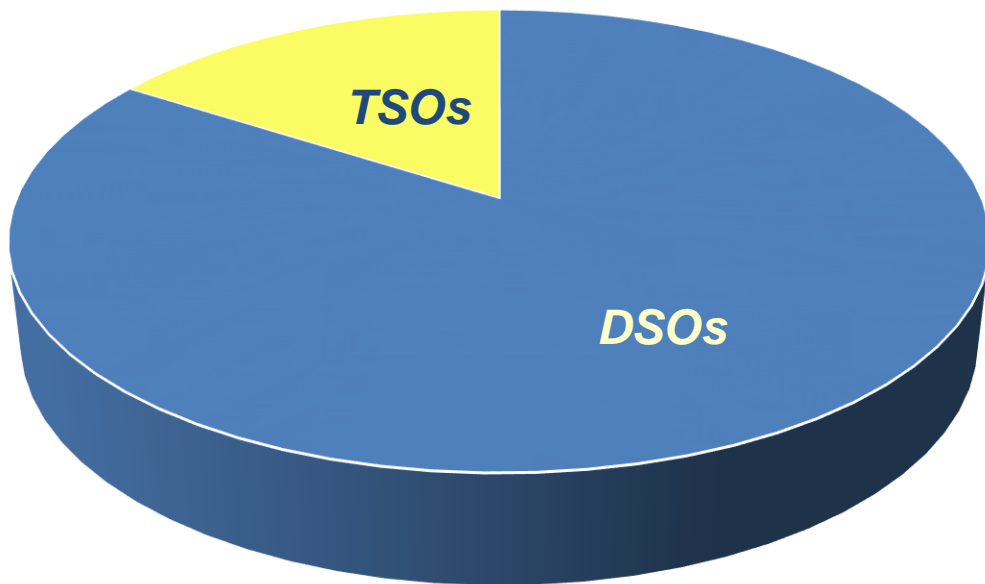


6 TSOs
33 DSOs
1 SSO



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

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



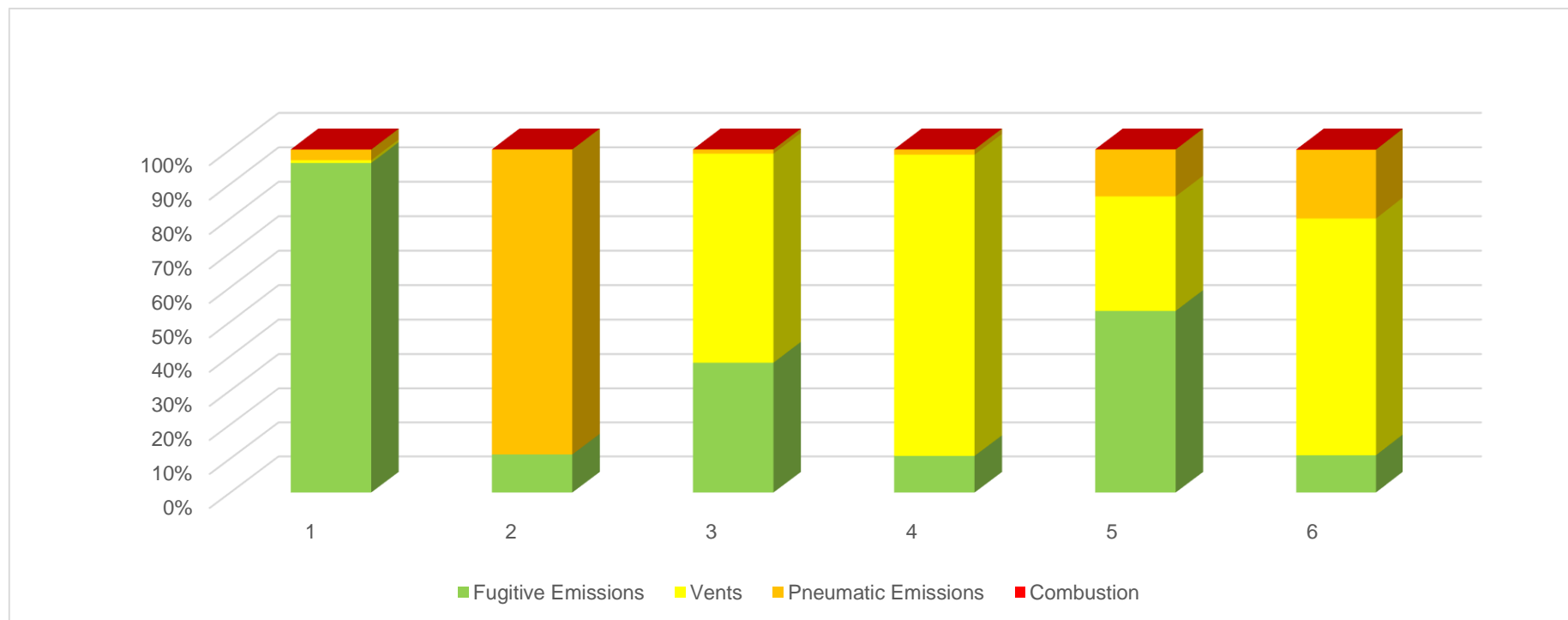
≈ 200 kt CH_4 in 2019

Leakage coefficients:

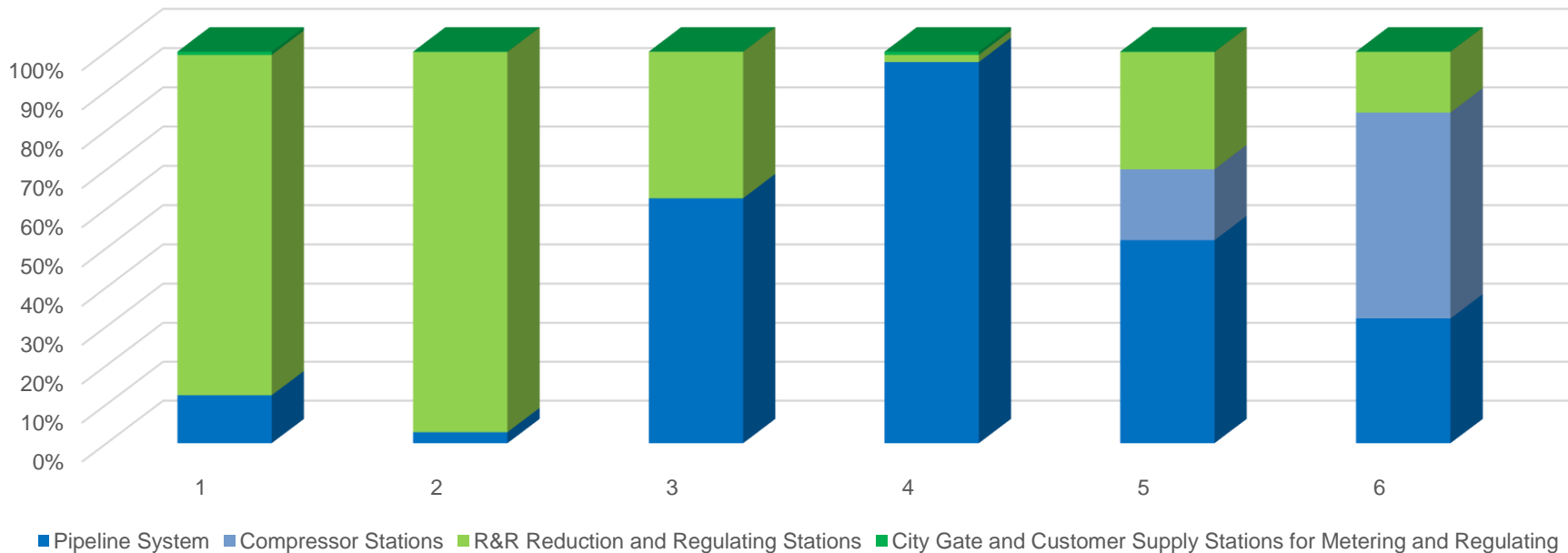
Transmission (0,0001) **0,0003 – 0,0006** (0,0039)

Distribution (0, 0030) **0,01 – 0,02** (0,0705)

- **Comparison possible with UNFCCC NIR**
But only for Ukraine (Annex I country)
- **Comparison with the EU methane emissions**
Similar structure of gas sectors
- **Comparison on the global level**
0,2 Mt / 72 Mt (0,3%)

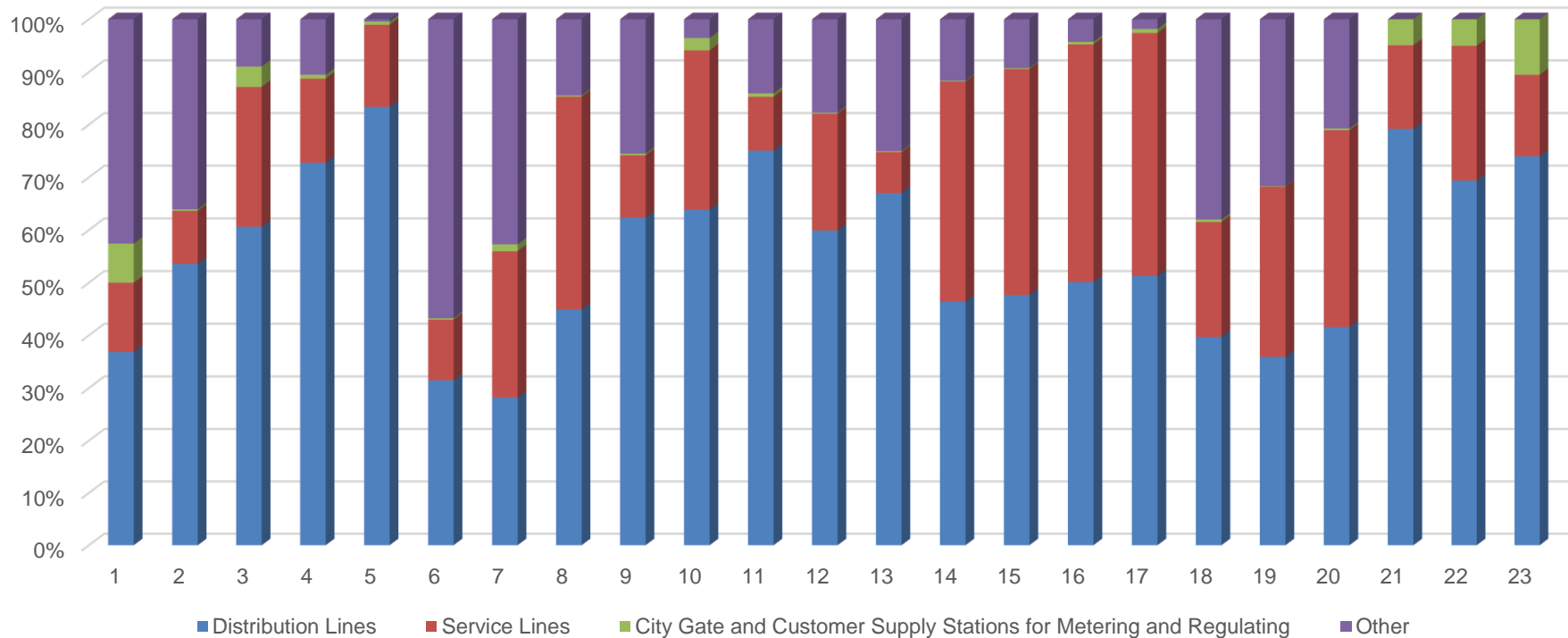


Methane emissions per type of emission



Methane emissions per type of asset

Distribution network in focus



- System composition plays a crucial role (plain comparisons are not possible)
- Companies have very different levels of measurement & recording of methane emissions
- Influence of chosen emission factors and calculation alternatives (DSO service lines)
- Understanding of fugitive emissions
- Emissions vs consumed gas / Allocation of fuel gas
- Correlations between reporting on methane emissions and total network losses

➤ Follow up of the report

- to check used reporting structures
- to include missing system operators
- to use new reporting template

➤ Using the report for opening discussions:

- on losses methodologies
- on reporting frameworks
- to set up the targets of emissions' decrease

➤ Spreading the scope

- to include oil and coal industry

➤ Monthly Methane Mondays

- Increasing awareness, spreading the knowledge

➤ Cooperation with relevant initiatives and institutions

- GIE, Marcogaz, MGP, OGMP.....

➤ Following legislative developments in the EU

- EU Methane strategy to be followed by regulations on reporting and LDAR



**THANK YOU
FOR YOUR ATTENTION**

karolina.cegir@energy-community.org

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