

Country Updates

Roundtable Discussion input by Lithuania

Karolis Januševičius

NERC



Recent Gas Sector Updates in Lithuania

- Natural gas tariffs for household setting
- Connection grid fees for households
- LNG updates
- Biomethane connections
- Foreseen hydrogen development

Natural gas tariffs for household setting

Before:

- Tariffs for households are set on semi-annual basis;
- Distribution cost included into variable part of tariff.

After:

- Possibility of a quarterly recalculation of the natural gas tariff for household customers, if the purchase price of natural gas changes by more than 20%;
- The distribution cost can be differentiated into a fixed and a variable tariff part.

Connection grid fees for households

Before:

➤ New household customers are paying the tariffs approved by the NRA for connecting their systems to the natural gas system. The tariffs are calculated on the basis of historical actual connection cost.

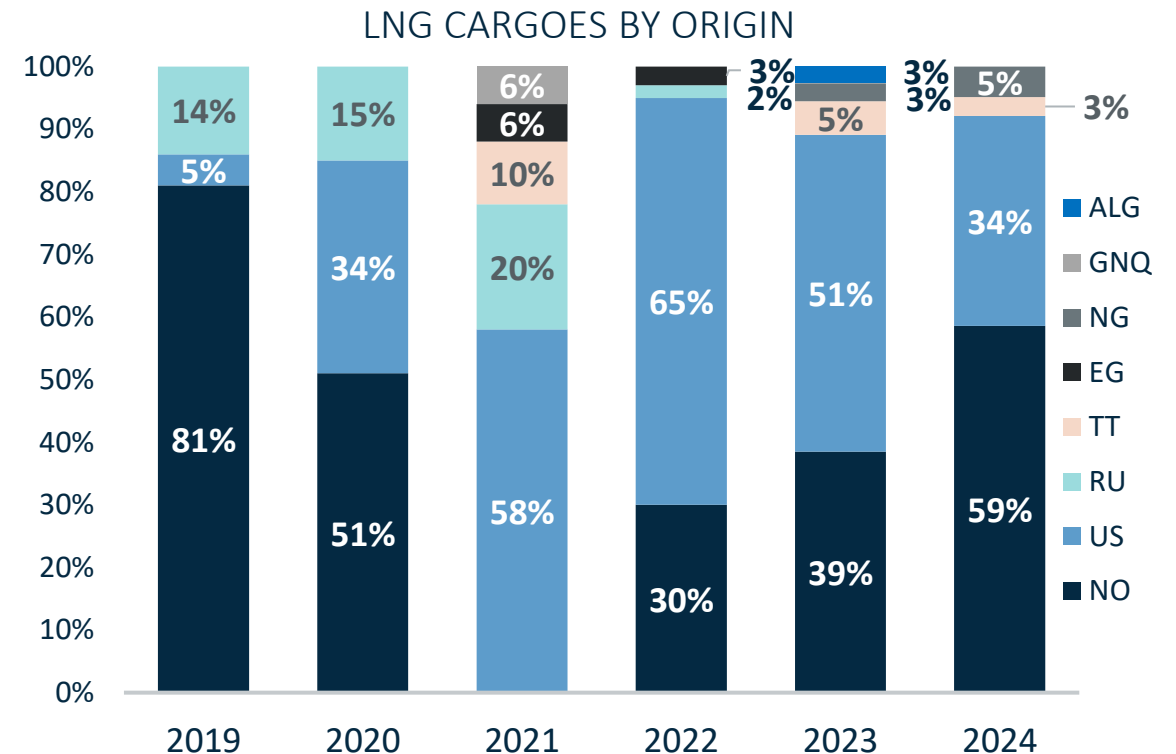
After:

➤ Draft Natural Gas Law: a household consumer who is more than 150 meters away from the natural gas distribution system must pay 100% of the operator's connection costs

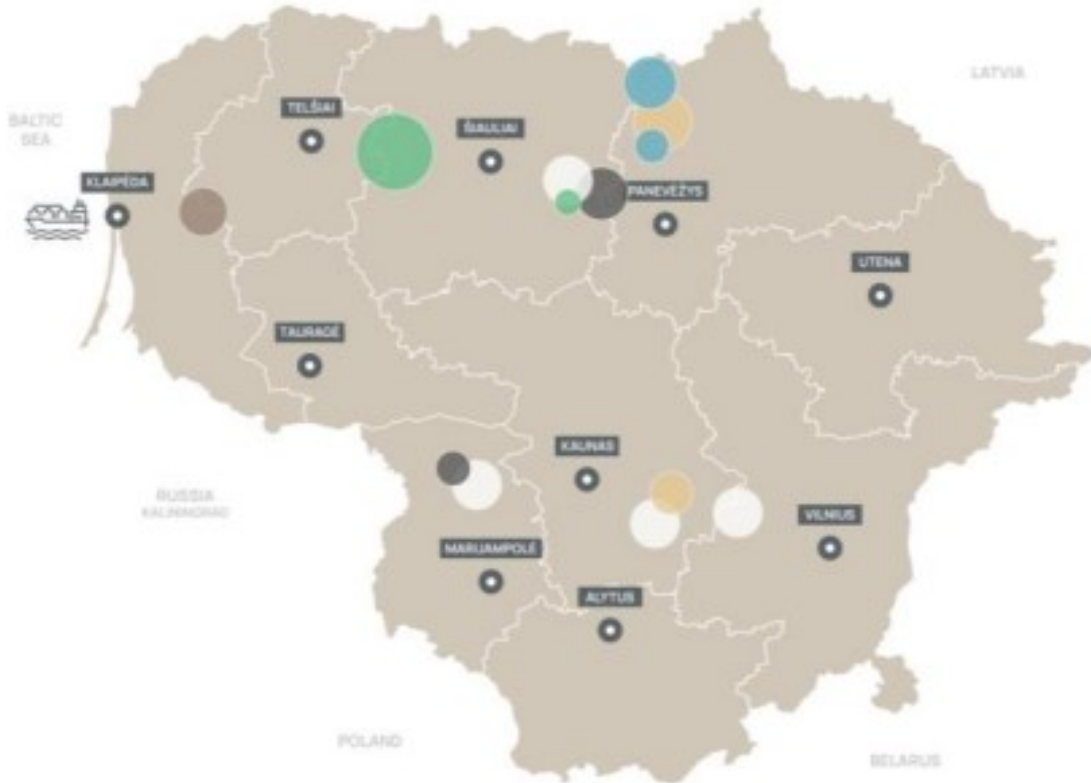
LNG updates

- By 2033, the Klaipėda LNG terminal is fully booked with a nominal regasification capacity of 33 TWh;
- Klaipėda LNG terminal electrification project is planned to be implemented within 3 years counting from 2025. Aim of the Project: to reduce CO2 emissions in Klaipėda sea port and increase efficiency of Klaipėda LNG terminal by decreasing costs of maintenance and electricity generation.

LNG terminal	2018	2019	2020	2021	2022	2023	2024
Adriatic, IT	79%	99%	86%	92%	88%	88%	89%
Barcelona, ES	26%	30%	22%	15%	23%	18%	10%
Bilbao, ES	39%	74%	71%	56%	76%	78%	66%
Brunsbüttel, DE	-	-	-	-	-	49%	68%
Cartagena, ES	4%	13%	24%	21%	37%	27%	20%
Dunkirk, FR	8%	39%	24%	27%	75%	60%	58%
Eemshaven, NL	-	-	-	-	42%	77%	40%
FosCavaou, FR	45%	50%	43%	53%	92%	67%	52%
FosTonkin, FR	44%	58%	49%	43%	51%	50%	48%
Gate, NL	18%	50%	46%	49%	92%	88%	77%
Grain, UK	12%	27%	24%	25%	n/a	n/a	n/a
Huelva, ES	31%	38%	34%	30%	39%	32%	24%
Inkoo, FI	-	-	-	-	-	35%	46%
Klaipėda, LT	20%	44%	49%	36%	72%	76%	46%
Krk, CR	-	-	-	60%	87%	90%	85%
Montoir-de-Bretagne, FR	33%	67%	68%	46%	86%	64%	20%
Mugardos, ES	28%	34%	51%	55%	55%	67%	43%
Ostsee/Lubmin, DE	-	-	-	-	-	20%	55%
Panigaglia, IT	21%	59%	61%	26%	54%	68%	10%
Piombino, IT	-	-	-	-	-	22%	36%
Revithoussa, GR	15%	34%	33%	25%	39%	50%	65%
Sagunto, ES	1%	22%	18%	22%	46%	38%	22%
Sines, PT	59%	85%	81%	84%	82%	70%	19%
South Hook, UK	11%	43%	n/a	n/a	n/a	n/a	n/a
Swinoujscie, PL	50%	61%	67%	68%	80%	83%	80%
Toscana, IT	20%	64%	57%	25%	65%	68%	16%
Wilhelmshaven, DE	-	-	-	-	35%	78%	67%
Zeebrugge, BE	17%	45%	29%	22%	61%	60%	37%
Average	25%	47%	45%	39%	62%	59%	46%

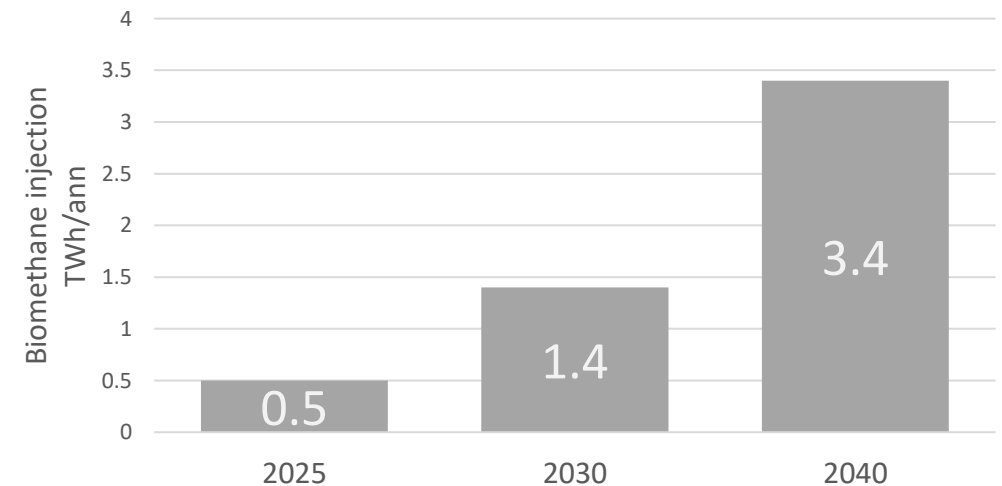


Biomethane connections in Lithuania



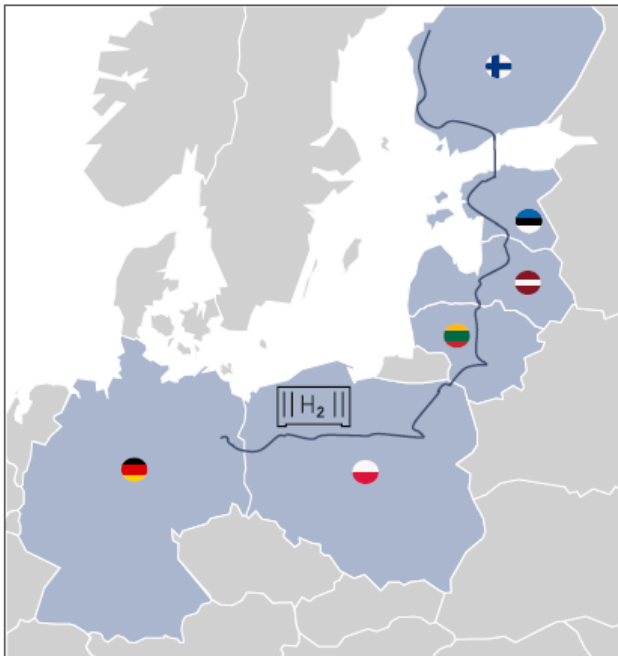
➤ Tariffs the same as for natural gas and all actual costs associated with the connection of biogas production facilities to gas system are covered by biogas producers

- 2 biomethane injection points operate in LT gas transmission system.
- +1 point will start to be operational till end of 2024;
- There are no biomethane injection points in *distribution system* yet;
- It is expected:



Foreseen hydrogen development

PREPARATORY WORK FOR „HYDROGEN CORRIDOR“



Completed
Pre-feasibility study

1st stage completion 2030 (TBC)

1200mm
diameter

346 km in
Lithuania

From **21**TWh in 2030

Up to **128** in 2050

2 UPCOMING OFF-GRID PROJECTS FOR TRANSPORT:

- 2026/2027 in Klaipėda (2MW electrolyzer /fueling station)
- 2027 in Vilnius (Biomass CHP-> 3MW electrolyzer +fueling station)



2 MW



**THANK YOU
FOR YOUR ATTENTION!**

karolis.janusevicius@vert.lt