European Energy Forum

DINNER-DEBATE



EP STRASBOURG - 11 February 2025

Biomethane in the EU: advancing the Energy Union through existing gas infrastructure

In cooperation with the EEF Associate Members





Chatham House Rule

Biomethane in the EU: Advancing the Energy Union through existing gas infrastructure

Strasbourg, 11 February 2025

Cas Infrastructure Europe

About GIE

A well connected infrastructure

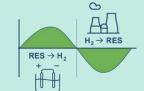
Europe's operators of:

- Transmission pipelines
- Underground storages
- Terminals

Different gases:

- Natural Gas
- Biomethane
- Hydrogen
- CO2
- Synthetic gases

Through sector coupling gas and electricity infrastructure can...



...work together for a reliable and affordable energy supply





Biomethane A "Today's Solution"

Biomethane: A "Today's Solution"

Why biomethane?			
1 Green & renewable	2 Local production in Europe	³ Fit for today 's gas infrastructure: can be injected into the existing gas grid, either at the transmission or distribution level	Can help industries & citizens to decarbonise fast and cost-effectively while avoiding stranded assets

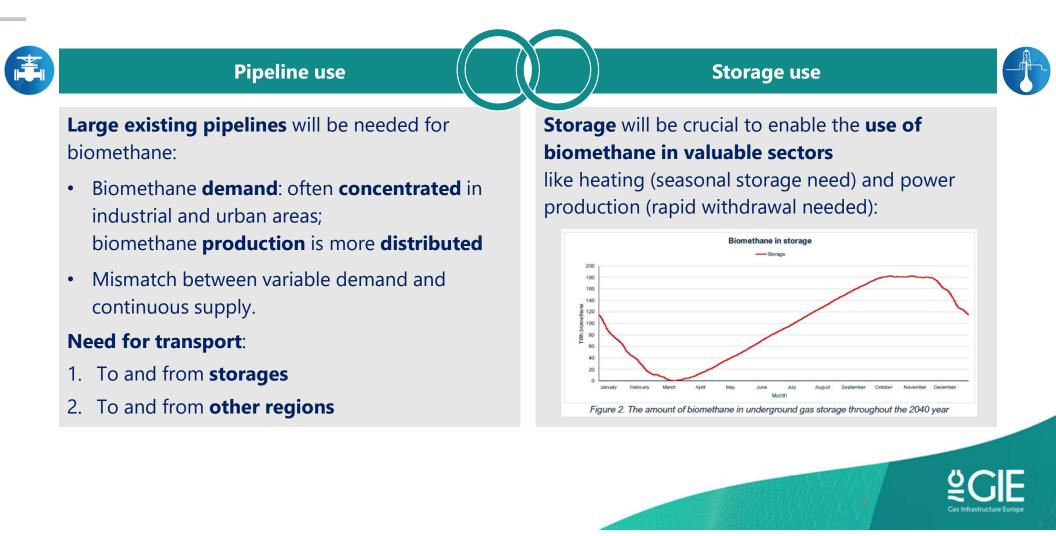
"Building on biomethane and existing natural gas' synergies infrastructures is the way forward to enable this renewable fuel ramp-up as of today."



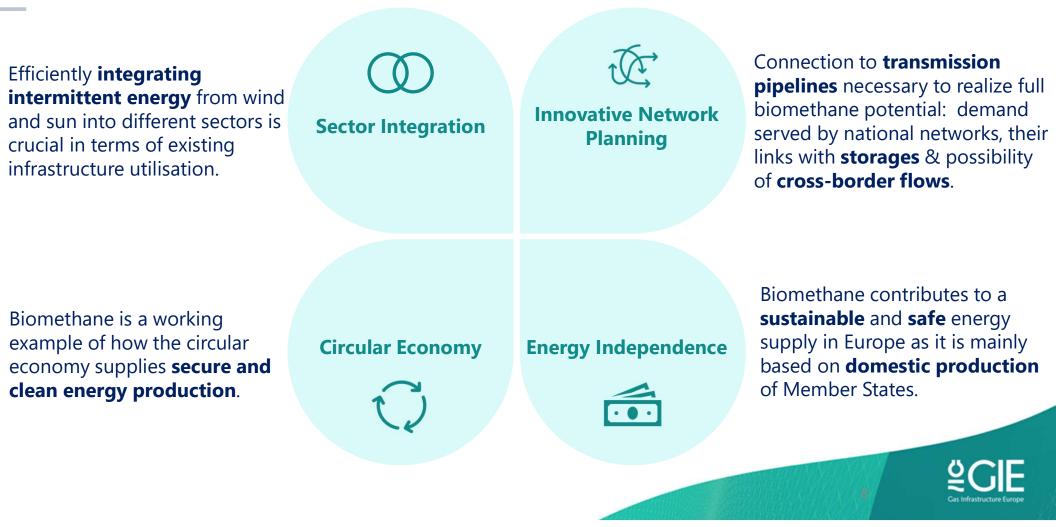


- GIE Study -Using Gas Infrastructure for Biomethane

Future use of pipelines and gas storages for biomethane



Facilitating a cost-effective & efficient kickstart





GIE Recommendations





Thank you for your attention.

Stay tuned to decarbonisation & security of supply news by following GIE on social media



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Biomethane in the EU: Advancing the Energy Union through existing gas infrastructure

Network Operators: Key Players in Advancing Renewable Gases - Focus on the French Framework

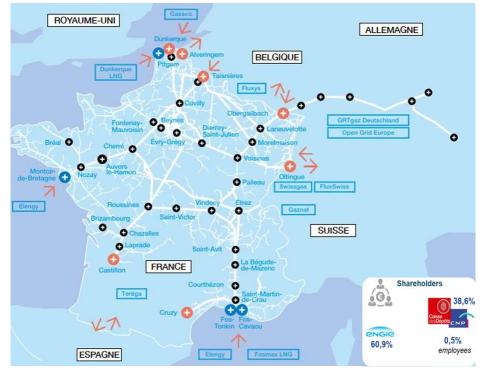
Strasbourg, 11 February 2025



10/02/2025

NaTran – gas transport operator in France and Germany. Committed to a carbon-neutral future

A network at the heart of Europe



nalran

Gas transmission in France



32,641 km of pipelines

625 TWh transported

Interconnections

5 TSOs 5 LNG terminals 2 storage operators

3 225 employees

People

80 biomethane producers726 industrial consumers1G distribution network operators



nalran

2

The French National Low-Carbon Strategy is currently being revised with an ambitious 44 TWh production target in 2030

A great challenge to overcome

New ways to do (local) network planning New equipment to be built (gas stations and reverse flow compressors)

X 5 biomethane production (vs 2023)

New stakeholders (farmers, waste industry...)

New way to run the network (pressures and flows)



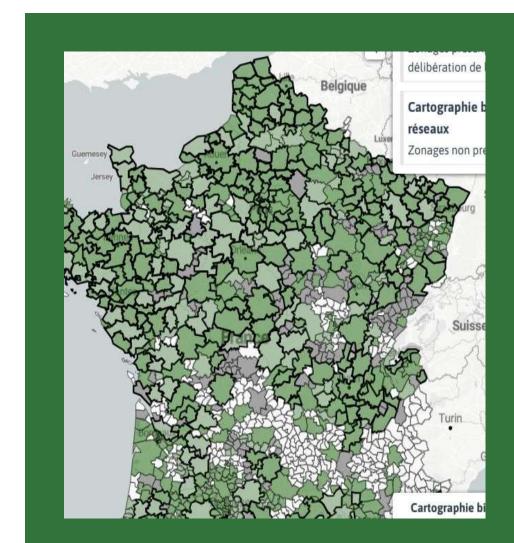
A change of scale and a change of pace



Right to inject A set of good practices enabling network adaptation

A stable framework since 2019 has enabled an optimal network adaptation

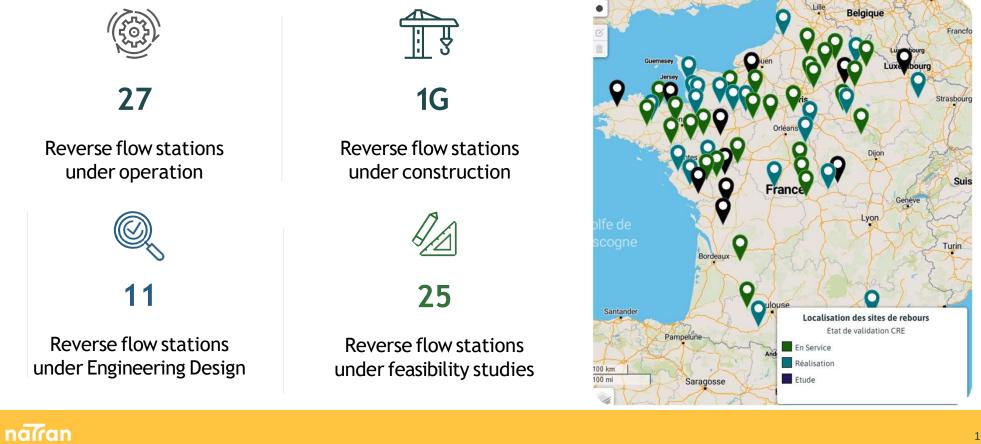
- Coordination between TSO & DSO
- Optimal network design determined at the local level
- Economic test to incorporate reinforcement costs into the RAB (Regulatory Asset Base)
- Supervision by the regulator



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NaTran, a leading European operator in renewable gas transmission

Reverse flow stations : the key asset for the development of biomethane in France



NaTran, a leading European operator in renewable gas transmission

27 reverse flow stations currently in operation













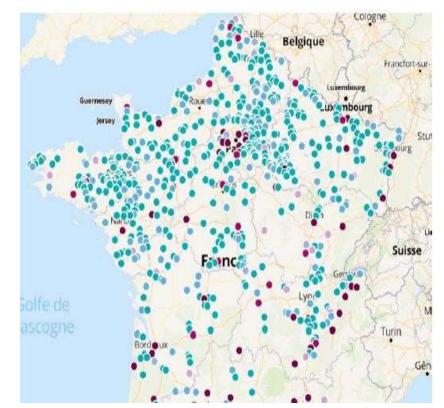
Chatillon-sur-Seine



Right to inject framework has enabled a steady growth of biomethane production

A 14 TWh/y capacity by end of 2024

- 4% of overall gas consumption
- 730+ sites injecting in networks. 20% of capacities injecting on the TSO grid
- Significant growth potential
- Emergence of innovative gasification projects





Thank you for your attention.



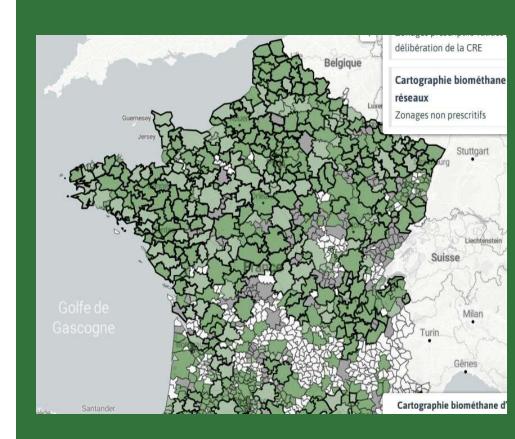
Siège social

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DSO / TSO coordination at local scale to define optimal network adaptation schemes

Focus on network adaptation schemes

- Masterplanning exercise carried out in each zone of the map
- Identification of reinforcement needs such as reverse flow or meshing.
- 400+ schemes approved by the regulator
- Visibility given to market players on the ability of the networks to accept injection facilities
 - Transparency: Upadted map published on our open data platform



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