GEODE – Autumn Seminar

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Why injecting biomethane?

Raw biogas is today used directly in electricity production, heat production etc.

By upgrading the gas, biomethane can displace fossil fuels in several energy sectors.
Secondly, we have an existing infrastructure in form gas grids across Europe, which are applicable with biomethane.

Other benefits:

Biogas and biomethane contribute to circular economy and reduce emissions in agriculture.
Biomethane contributes to the overall consumption of renewable energy in Europe – which is a goal in “Fit for 55”.

A way of electrifying the gas system by injecting synthetic methane.

Challenges related to biomethane

The implementation of renewable energies comes with challenges and need for adaption.

Injection of biomethane is often located in the decentral parts of the grid compared to injection of fossil natural gas.

This can lead to unbalances between production and consumption.
It also results in a less uniform gas quality and by that also varying gas qualities and challenges related to billing.

Recommendations for facilitating the biomethane injection

Biomethane is an important player in achieving the GHG reductions across Europe.
The focus should be on:

- ✓ An EU framework for renewable gases which includes a European target for renewable gases.
- ✓ Energy policy which actively supports biomethane and biogas production and recognises the environmental benefits of biomethane for the local circular economy.
- ✓ Focus on innovation, good planning and legal framework conditions that support synthetic methane.
- ✓ Developing enhanced Guarantees of Origin for biogas and biomethane enabling market development by creating value for consumers, and ultimately reducing the public incentives required.
- ✓ Incentivise the use of biomethane by excempting fossil taxes when the consumer has bought certificates
- ✓ Be aware of challenges related to injection and the need for good planning. This can prevent later needs for reverse flow plants, construction of pipes etc.