

Price competitiveness of renewable gases

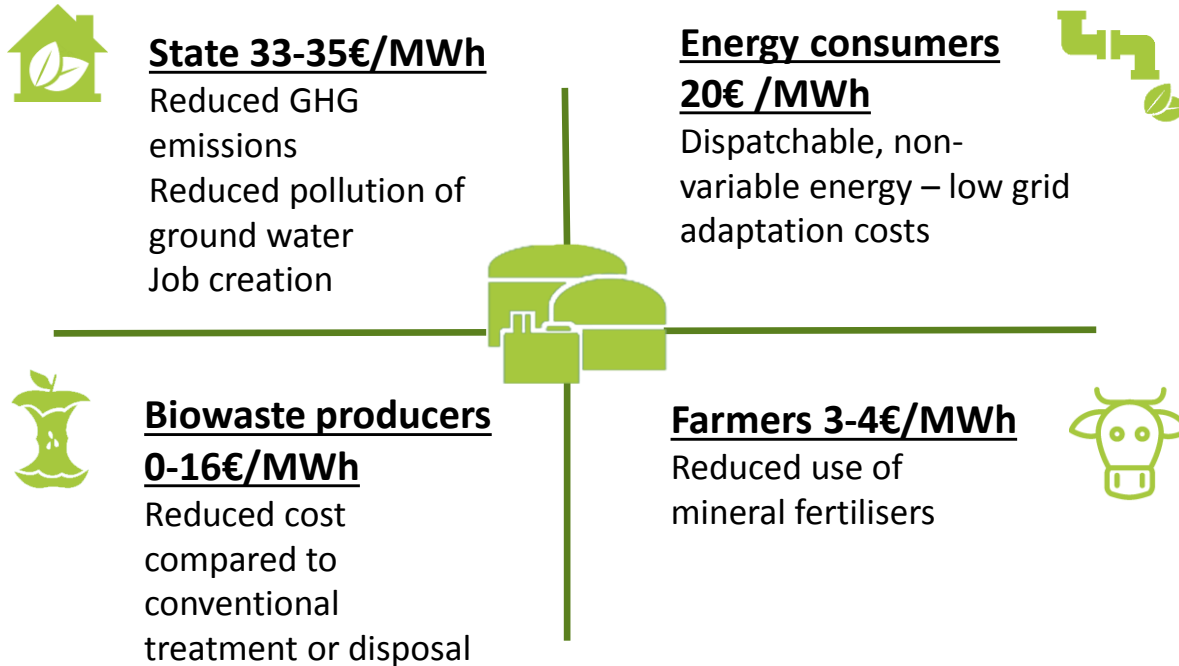
**32nd MEETING OF THE EUROPEAN GAS
REGULATORY FORUM**

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Positive Externalities

Everyone benefits!



But we must also value:

- Soil health
- Biodiversity
- Self sufficiency
- Storability
- Flexibility

Source: ENEA Consulting, *Revue des externalités positives de la filière biométhane*, 2019

Negative Carbon Factory

The 500m³/hr biomethane plant

Low carbon energy

- 6,000t CO₂ eq. saved



Pure CO₂ stream

- Ready to sequester
- 8,000t CO₂ p.a.

If Waste feedstocks

- Avoided emissions depending on alternate “disposal”
- Fertiliser displacement
- Digestate = Carbon

If Agri feedstocks

- Crop rotation improving food crop yields – reducing “cides”
- Fertiliser displacement
- Digestate = Carbon

Key messages and conclusions

- Biomethane is here today
- Gas infrastructure exists – use it !
- Renewable gases can and will reduce emissions in heating and transport
- Significant potential:
 - Gas for Climate: 272 bcm renewable and low carbon gases by 2050 – optimized gas scenario brings along total annual savings of € 217b!
 - Novel technologies such as gasification and power-to gas will scale by 2030
- Moreover:
 - Renewable gases are more than energy – they provide multiple societal benefits.
 - Positive Externalities must be taken into account when new policies are drafted
 - Biogas & digestate must be integrated in sustainable farming measures across the EU

Biogas 2.0



Thank you for listening