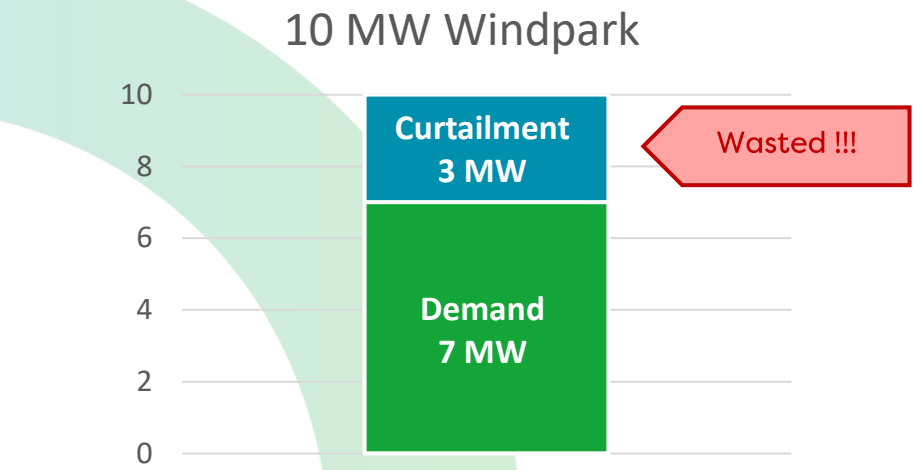
MICROPYROS

The BioEnerTec® Company

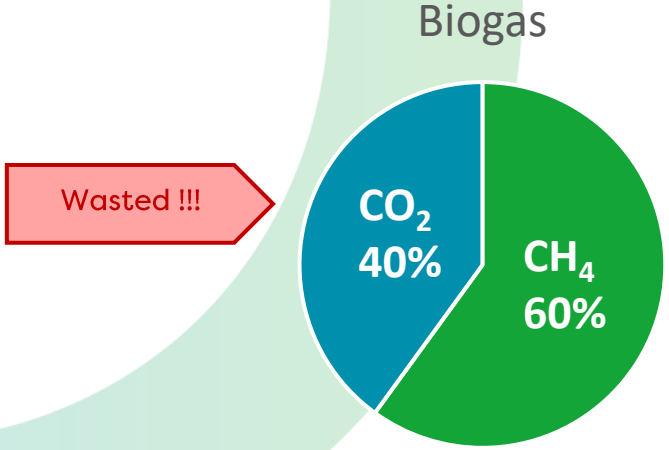
Green Gas

The Problems

Curtailment



Waste Management



Our Solution – Biological Methanation

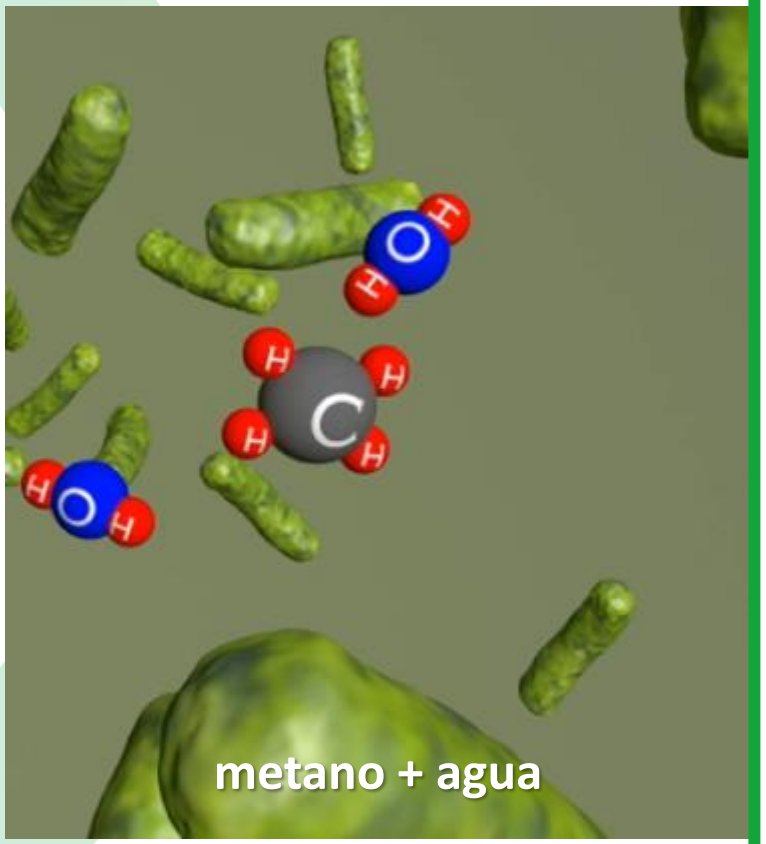
$$CO_2 + 4H_2 \rightarrow CH_4 + 2H_2O$$

Video
Power-to-Gas with MicroPyros

Our Solution – The Core Process

$$CO_2 + 4H_2 \rightarrow CH_4 + 2H_2O$$

Archaea

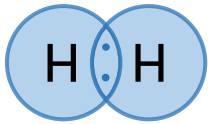


Offer & Unique Selling Point

Complete turn-key plants

Individual components

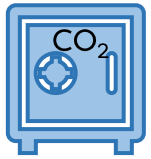
The Alternatives



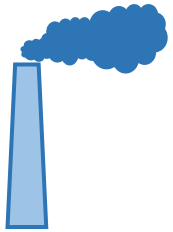
Pure hydrogen production - difficult to store and distribute.

Catalytic methanation - only large scale (20 MW+) and clean inputs.

CO_2 upgrading to food industry standards - large supply, low demand.



Carbon capture and storage - value of CO_2 is lost.



CO_2 venting into atmosphere - value of CO_2 is lost.

Biological Methanation Advantages

- Biomethane produced is **easily stored and transported**.
- Biological methanation plants are intended for **decentralized methane production**.
- The process consumes and **adds value to CO_2**.

Latest News - BioFARM

BIO FARM
R&D CENTER

Plant completion: July 2023

Purposes

- study biology
- input materials
- geometry tests
- efficiency
- know-how

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Next step – SynBioS

GRUPPO HERA

Plant completion: Q3 2024

- Bologna, Italy
- WWTP
- 1MW (200 Nm^3/h H_2)
- 50 Nm^3/h CO_2
- Currently in engineering

MICROPYROS

Our Search in Uruguay

- **Partner and investors** to help with introduction into South American markets
- **Renewable energy sector**
- **CO_2 emitters**
- **Gas consumers**

Reduce curtailment. Valorize CO_2. Produce renewable natural gas. Using established technology and infrastructure!

Herbert Huber
Operations Manager

More facts needed?
Dive deeper on

www.micropyros.com

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