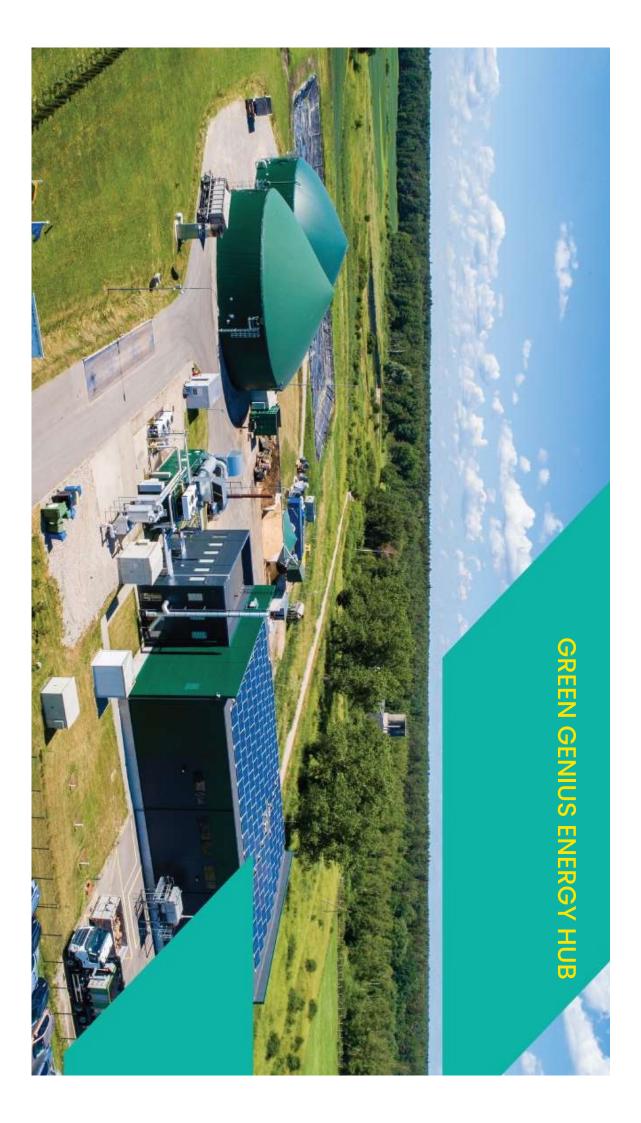




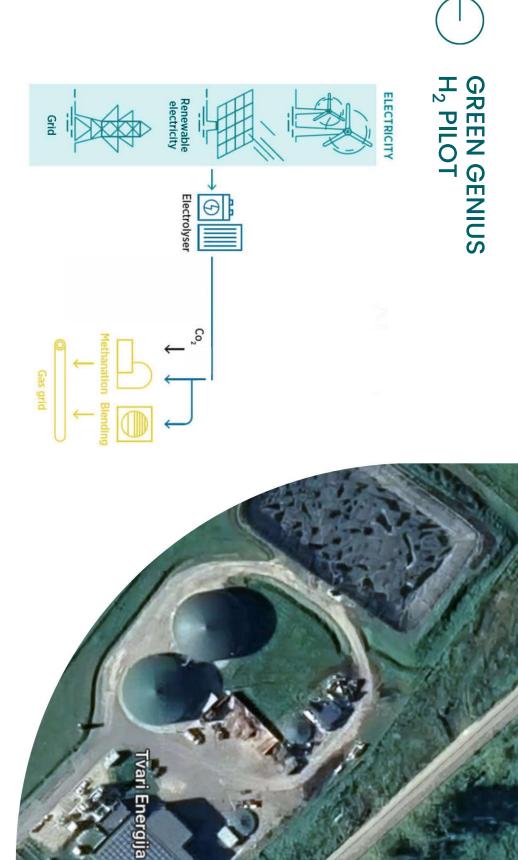
- LOCALY
 - Green hydrogen production and supply to:
 - Blending;
- Synthetic methane production (biogenic CO2)
- E-methanol production (biogenic CO2)





WHAT IS NEEDE FOR GREEN HYDROGEN ECONOMY ROLLOUT

- We have proven technology for H₂ production (Alkaline, PEM, AEM, Solid Oxide)?
- Do we have sufficient resources(wind, solar, connections, water)?
- Is there a market where products can be traded (offtakers, long term contract, price signals)?
- Is regulatory environment sufficient (certificates, standards, definitions)?





GREEN GENIUS H₂ PILOT PROJECT

- GG operates 10 MW_e of biogas plants;
- It is planned that in 2024 electricity production will be switched to biomethane production (25 MW capacity)
- While producing biomethane approx. 50 % of gas flow consist of CO_2
- CO₂ stream methanation with green hydrogen:

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

Green H₂ production via electrolyzer utilizing electricity from wind and solar hybrid power plant.

- Electrolyzer load optimization. Additional green electricity procurement from the grid (additionality condition)
- Planned revenue structure: molecules and certificates



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