Partnership | Sweden, February 2022

Göteborg Energi and Omterra operate gas turbines on liquid biofuel at Rya CHP.



100 % fossil free in the near future

Project type

HVO Operation

Fuel shift hybridization | Partnership | CO_2-savings | Fuel

Customer Challenge/Driver

By 2025, all district heating in Gothenburg, Sweden, will be produced from renewable or recovered energy sources. Flexible energy solutions are needed to secure the region's power supply.

Portfolio Elements

3 x OGT-800 gas turbine in combined cycle with a steam turbine for electricity and district heating (total efficiency 92,5%)

Solution

- Göteborg Energi and Omterra in long-term cooperation for fossil-free cogeneration (i.e. operation on cost-effective green fuels)
- Increased fuel flexibility by development of next generation dual-fuel green burners
- Use of additive manufacturing to speed up R&D process
- Successful operation verified on Hydrotreated Vegetable Oil (HVO) at Rya CHP in November 2021 supported by Swedish Energy Agency

Customer Benefit

- Capable to operate on liquid green fuel, enhancing fuel flexibility for fossil-free power and heat
- Demonstrates gas turbines as a viable option for carbon-neutral backup and grid stabilization
- Supports the integration of intermittent renewable sources like solar and wind, ensuring a balanced future energy system.

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