3 NEW BIOMETHANE (RNG) PLANTS IN LATVIA

Project Data

- Location: Two plants in Zemgale region and one new plant in Latgale region, Latvia;
- Start of operation: Q3-2024.

Uniqueness of the Project

- Methane Recovery >99.5% with 97% CH_4 Purity;
- Low Energy Consumption 0.23 kWh/Nm^3 of biogas;
- Availability >97.5% (programmed maintenance included);
- Highly competitive CAPEX & OPEX;
- Outdoor installation (Winter Package).

For More Information

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Baltics Project Overview

After successfully installing the first upgrading plant injecting biomethane into the Latvian pipeline, with an output of 150GW/year, SYSADVANCE works with the largest private equity fund manager in the Baltics, and is installing three new biogas upgrading projects in Q2-2024.
These projects were entirely developed by SYSADVANCE, from the reception of biogas to be upgraded to the final application desired by the client: injection to the natural gas Latvian grid @17barg and mobility application CNG for vehicles @250barg.
They will treat a combined amount of 2750 Nm^3/h of biogas which will be converted into more than 135 GW/year, equivalent to 3% of the residential consumption of the Latvian capital Riga.
As of Q2-2024, another project has been contracted in the region to upgrade 1000 Nm^3/h into biomethane for grid injection and additional projects are scheduled for the coming year, reinforcing the company's regional presence, which is now served by a local subsidiary recently incorporated - SYSADVANCE Northern Europe

Sysadvance Technology

METHAGEN, SYSADVANCE's range of upgrading solutions, purify biogas from different organic sources as well as landfill gas with a proprietary technology. The use of VPSA technology (Vacuum Pressure Swing Adsorption) enables to combine high recovery rates with an efficient operation, deploying the highest purity and respective heating value.
The ability to reduce contaminants makes PSA technology a great alternative when higher levels of H2S on the inlet biogas require air/oxygen injection into the digesters, and pipeline requirements regarding O2 maximum content are becoming increasingly strict.

The METHAGEN AD series has models ranging in size from 165 Nm^3/h to 3000 Nm^3/h; all with a turn-down of 50% without any loss of electrical efficiency.
METHAGEN systems are designed and built to reach the highest performance requirements in the biogas upgrading industry. Its new Vacuum-Pressure Swing Adsorption (VPSA) scheme and low energy demand, allow the Sysadvance systems to offer the lowest life cycle cost across the market of gas upgrading technologies.

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