SYSADVANCE EXPANDS FOOTPRINT IN THE BALTIC WITH NEW PROJECTS

Project Data

• Location: Four in Latvia, three upcoming: two in Latvia & one in Estonia
• Start date: 2025

Uniqueness of the Project

• Methane Recovery >99.5% with 97% CH_4 Purity
• Low Energy Consumption 0.22 kWh/Nm3 of biogas
• Availability >97.5% (programmed maintenance included)
• Highly competitive CAPEX & OPEX (lowest life cycle cost of gas upgrading)
• Outdoor installation (Winter Package)
• PSA flexibility and adaptability to changing conditions

For More Information

SYSADVANCE, S.A. (Headquarters)
Rua Comendador Brandao, 461
4495-375 Povoa de Varzim, Portugal

Our website
Send us an email



Project Overview

Following the successful commissioning of four biomethane upgrading plants in Latvia during 2023-24, SYSADVANCE is deepening its regional presence with the deployment of three new **METHAGEN_AD** projects in the Baltic region at the end of 2025 - two in Latvia and one in Estonia. These new plants, developed under full EPC scope, will process a combined 3250 Nm^3/h of raw biogas, producing over 170 GW/year of biomethane for grid injection.

Executed in partnership with local entities, the seven projects directly impact the region's energy transition goals. By the end of 2025, SYSADVANCE will have an installed capacity for the production of 450 GWh of biomethane per year in the Baltic region, enough to supply over 40,000 homes, fuel 30,000 CNG vehicles, or offset more than 90,000 tons of CO_2 emissions/ year. SYSADVANCE Central Europe is discussing additional contracts for 2026 to further expand its presence and cement its regional presence and commitment, namely in Poland.

SYSADVANCE Technology

METHAGEN, SYSADVANCE's proprietary biogas upgrading platform continues to set benchmarks in the industry with its advanced Vacuum PSA (VPSA) technology, delivering high methane recovery, low energy consumption, and unmatched purity levels.

Particularly suited to complex biogas compositions, METHAGEN's flexible configuration enables it to meet stringent requirements—including strict O_2 limits for grid injection. The **METHAGEN_AD** series, with capacities ranging from 165 Nm^3/h to 3000 Nm^3/h per single module, operates with a 50% turndown ratio while maintaining electrical efficiency across varying load conditions.

Designed for landfill gas upgrading, the **METHAGEN_LF** series offers standardized models that combine high methane recovery with low operating costs—providing a reliable, cost-effective solution that supports the transition from cogeneration to biomethane production with projects ranging from 500 Nm3/h up to 5000 Nm3/h per single module and larger capacities being installed up to 11,500 m3/h.

Thanks to its low energy demand and minimized life cycle costs, METHAGEN remains a top choice for operators aiming to ensure long-term efficiency and compliance in an evolving renewable gas landscape increasingly strict.