

SUCCESS STORY

CASE STUDY

GASUNIE AND SERVOMEX UNITE TO SOLVE GAS IMPORT CHALLENGE

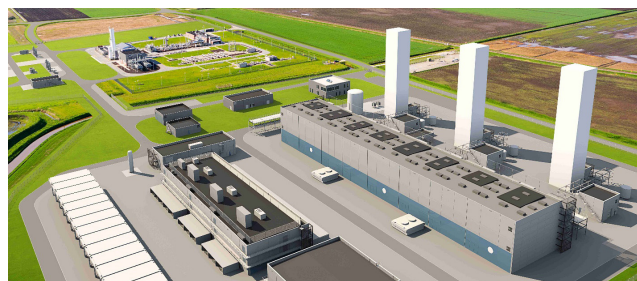


Servomex will supply Netherlands gas operator Gasunie with a turnkey gas solution for its new nitrogen facility which will be used to treat high-calorific natural gas imported from abroad.

ABOUT GASUNIE

Gasunie is an energy network operator based in the Netherlands and northern Germany. Wholly owned by the Dutch state, it manages and maintains the infrastructure for large-scale transport and storage of natural gas.

The natural gas pipeline network supplies eight million households in the Netherlands.



THE CHALLENGE

Much of the Netherlands' natural gas supply comes from the Groningen Gas Field, in the north of the country. Important steps have been taken in recent years to accelerate the reduction of gas extraction from this field. Nitrogen plays a major role in this.

Gasunie Transport Services, explained: "While the Groningen field will be on standby until 2026, gas extraction from this field can, partly thanks to our measures, be wound down to zero in 2022.

The most important and eye-catching measure is the construction of a new nitrogen installation near the village of Zuidbroek in Groningen province. This nitrogen installation takes nitrogen from the air and blends it with imported high-calorific gas. As soon as we have this installation up and running, we will no longer need to extract gas from the Groningen field, which marks a crucial step in solving a major problem in our society."



THE SERVOMEX SOLUTION

Gasunie and Servomex have worked in partnership for more than 15 years, and the energy network operator is particularly satisfied with the product quality and service support from Servomex.

After a thorough selection process, a contract has been awarded to Servomex to supply 23 SERVOPRO MultiExact 4100 analyzers for the new nitrogen factory.

The multi-gas component capability of this analyzer – the MultiExact 4100 can measure up to four gas streams simultaneously – ensured that the 37 required measuring points in the factory could be covered with fewer analyzers.

This provides a much more cost-effective solution than using individual analyzers for each point.

Analyzers will be configured to measure a combination of low oxygen, high oxygen, and carbon dioxide, using Paramagnetic and Infrared sensing technologies.

For the most critical measurement points, analyzers with a single sensor will be installed.

Each measuring point in the factory will have a gas line taking sample gas to the analyzer; these require pressure regulation to ensure the sample arrives in the correct condition in the flow meter.

Servomex will supply a complete turnkey solution for the facility. The gas analysis system includes 19 inch rack cabinets with pressure reduction and valves. Everything is operated through the Profibus protocol, using a one-line digital signal, simplifying the system and ensuring greater accuracy.

The gas analysis systems are scheduled for delivery by the end of 2020, with the Zuidbroek factory planned to begin operation in April 2022.

Servomex will also provide on-site commissioning for the entire system, and a service support plan.



Gasunie has an existing nitrogen facility in the country using Servomex analyzers, and has been delighted with the performance of our systems, and the service support we provide to them, over the past 15 years.

This new contract will allow us to provide unified service support for both sites, ensuring consistent and reliable operation. We're very pleased to continue our partnership with Gasunie to deliver a turnkey gas analysis solution for this major project.

Jan Hordijk, Regional Sales Manager, Servomex