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Hitachi Zosen Inova to Build Scandinavia's First Kompogas® Plant

E.ON Biofor Sverige AB places order with Swiss firm for construction of a large dry anaerobic digestion plant.

E.ON Biofor Sverige has placed an order with Hitachi Zosen Inova (HZI) to construct the first Kompogas® plant in Sweden. It will generate enough biogas every year to replace nearly 7 million liters of fossil fuels. HZI's technology is thus making an important contribution to Sweden's strategy of decarbonizing its economy.

Over approximately the next eighteen months, the first Kompogas® plant in Scandinavia will be built in Högbytorp, to the north-west of the Swedish capital of Stockholm. The project initiator and client is E.ON Sverige, one of the largest players in the Swedish gas market. E.ON has awarded the engineering, procurement, and construction contract for the facility to the Swiss clean-tech company Hitachi Zosen Inova (HZI). "We were first and foremost impressed by HZI's long-standing experience in plant construction and the reliability of the tried-and-tested Kompogas® technology," said Hakan Eriksson, Project Director at E.ON Sverige, explaining the reasons behind the company's decision.

This project marks a particular milestone for HZI: "We are delighted to be taking on a key role in this project by constructing the plant, while also actively contributing to supporting Sweden achieve its decarbonization targets at the same time," emphasized HZI CEO Franz-Josef Mengede. Sweden launched an initiative in 2015 aimed at markedly reducing CO₂ emissions and making it the first industrialized nation in the world to become a fossil fuel-free economy.

Adding Value for the Gas Market and Agriculture

The highly automated Kompogas® plant will form part of a cluster of energy-from-waste facilities at the Renewable Energy Park in Högbytorp, around 40km north-west of Stockholm. Three state-of-the-art Type PF-2100 steel digesters will process around 83,000 tonnes of green and food waste as well as biowaste every year. The waste will be collected separately and delivered from across the Upplands-Bro region. A sophisticated airlock system will prevent odor emissions escaping from the delivery hall into the surrounding.

The digestion process takes around 14 days, and produces biogas that will be upgraded to 6,800,000m³ of biomethane and fed into the gas grid – the equivalent of around 7 million liters of fossil fuels. The resulting digestate will then be dewatered, with the liquid fraction being used as liquid fertilizer by local farmers and the solid material being processed further on site to high-grade compost.

The project schedule envisages engineering work immediately after the contract is signed on 27 February, 2017 with a start of on-site construction work in September 2017. The first feed into the digester is planned for summer 2018.

Factsheet

Owner and operator	E.ON Biofor Sverige AB
Scope of supply by HZI	Green field, turnkey Dry AD plant with: Waste Reception, Pre-Treatment, Digesters, Dewatering, Liquid Digestate Storage, Bio-gas Storage and Composting.
Waste type	Sorted Food Waste, Food Waste Slurry, Garden Waste, Horse Manure, Glycerine, Oil and Fat
Number of digesters	3
Digester type	PF-2100
Plant capacity	83,000 t/a
Biogas production	12.1 Mio Nm ³ /a
Biomethane production	6.8 Mio Nm ³ /a (Biogas Upgrading is not in HZI scope)
Specific biogas production	150 Nm ³ /t digester input
Specific biomethane production	84 Nm ³ /t digester input
Compost production	6,530 t/a
Liquid Fertilizer production	49,640 t/a

About Hitachi Zosen Inova

Zurich-based Hitachi Zosen Inova (HZI) is a global leader in energy from waste (EfW), operating as part of the Hitachi Zosen Group. Formed from the former Von Roll Inova, HZI acts as an engineering, procurement and construction (EPC) contractor delivering complete turnkey plants and system solutions for thermal and biological EfW recovery. Its solutions are based on efficient and environmentally sound technology, are thoroughly tested, can be flexibly adapted to user requirements, and cover the entire plant life cycle. The company's customers range from experienced waste management companies to up-and-coming partners in new markets worldwide. HZI's innovative and reliable waste and flue gas treatment solutions have been part of over 600 reference projects delivered since 1933. To find out more about HZI, please visit www.hz-inova.com

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