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Kompogas® plant in Jönköping: A Prime Example of Swedish Sustainability in Action

A new Kompogas® plant, due for completion in 2020, is to be built in the Swedish city of Jönköping by Hitachi Zosen Inova. The company also financed, developed and designed the whole project and, additionally will own and operate the facility. The installation will make a substantial contribution to efforts to decarbonise the country by processing organic waste to produce biofuel for carbon-free transportation and fertiliser.

The start of the execution of a new Kompogas® dry fermentation plant by the Swiss clean-tech firm Hitachi Zosen Inova (HZI) in Jönköping on 1 March 2019, signals the commencement of a project that will make a major contribution to Sweden's sustainability strategy. The strategy includes plans to achieve carbon-neutral status by 2045. An important component of this ambition is a shift from fossil to green fuels to power public transportation. The city of Jönköping is playing a key role in these efforts by implementing various measures to recycle organic waste and produce alternative fuels such as compressed natural gas (CNG) and liquefied biogas (LBG).

Extracting more value from waste

One of these measures involves constructing and running a new anaerobic digestion (AD) plant. The installation, featuring two Kompogas® steel digesters, which will be built on a former landfill site, will ultimately process an annual 40,000 metric tons of green and kitchen waste and food leftovers, plus organic substrates from industrial and commercial establishments, to make biogas and high-grade compost and liquid fertiliser – the latter to be used by farms in the region.

At the same time, the 35 GWh of biogas produced every year, will be enhanced to high-grade biomethane in the gas upgrading installation, also supplied by the HZI group, and sold as bio-CNG to local transport companies and private vehicle fleet operators. Besides processing organic waste, the project will also recycle gas extracted from the former landfill to heat the two digesters. "Jönköping is a prime example of how highly developed our technology has become. By processing organic waste from the region to produce biofuel, compost and liquid fertilizer, and using the available landfill gas, this project sets the standard in terms of circular economy and efficiency," says Lukas Heer, Senior Project Development Manager at HZI.

Construction starts in spring

The project kicks off on 1 March. After a short preparatory phase, including detail engineering and procurement, in late spring work will begin on the construction site south of the city of Jönköping. The installation will be commissioned in the second half of 2020, going into commercial operation at the end of 2020.

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 Corporation Group. HZI acts as an engineering, procurement and construction (EPC) contractor and project developer 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, and can be flexibly adapted to user requirements. HZI's Service Group combines absolute commitment to research and development with extensive manufacturing and assembly capabilities and looks after your plant throughout its entire 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 as well as biogas upgrading and power-to-gas 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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