

Media release, 31 March 2020

Province of Milan to Receive a Kompogas® Plant

Once again Hitachi Zosen Inova will be joining forces with its partner Cesaro Mac Import, which leads the Italian dry anaerobic digestion market, to build a Kompogas® plant in Italy. The plant in Legnano will recycle 40,000 t/a of organic waste and 12,400 t/a of green waste to produce high-grade biomethane which will be fed into the natural gas grid and serve as energy and fuel.

A new organic waste recycling plant is being constructed in Legnano, around 30 km to the northwest of Milan. The installation is built around the Kompogas® technology of Hitachi Zosen Inova (HZI) and the composting system of Cesaro Mac Import (CMI). Input material, consisting of the organic fraction of municipal solid waste (OFMSW) and green waste, will be fermented under anaerobic conditions (i.e. excluding oxygen) and then composted. This process produces biogas, and maximises the yield on the input material. Besides generating valuable biomethane, the digestate will go to make high-grade compost for agriculture. Construction is expected to start in 2020 and commissioning will follow in early 2021.

“We’re proud to be delivering another project with HZI in Italy. Working with Hitachi Zosen Inova always gets the job done successfully,” says Luigi Cesaro, director at Cesaro Mac Import. The plant in Legnano is already the sixth project that HZI will have delivered in partnership with CMI in Italy, and the second installation for the client ASJA Ambiente (ASJA), a leader in generating electricity from landfill gas, wind, photovoltaics and biomass. HZI completed the first plant for ASJA at the end of 2018 in cooperation with CMI in Foligno in the Province of Perugia.

Kompogas® Technology Supplies Households and Natural Gas Vehicles with Biomethane

HZI will deliver the plant’s dry fermentation module in the form of two PF1300 steel digesters with the corresponding technology, including the control system. This module will be used to recycle 40,000 t/a of OFMSW and 12,400 t/a of green waste. This means that up to 15,000 Nm³ of biogas will be produced every day. This biogas will be upgraded to high-quality biomethane. According to ASJA, high-purity biomethane will be fed into the local gas grid to be used for any application of natural gas (household and industry), including the environmentally-friendly fuel compressed natural gas (CNG). This will operate local and regional households and natural gas vehicles thus contribute directly to the decarbonisation of the region.

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 700 reference projects delivered since 1933. To find out more about HZI, please visit www.hz-inova.com.

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