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Kompogas[®] Building on Success in Perugia

Hitachi Zosen Inova to build Italy's fifth Kompogas[®] dry anaerobic digestion plant with partner Cesaro Mac Import

Hitachi Zosen Inova is to build a new Kompogas[®] plant in collaboration with its Italian partner Cesaro Mac Import, this already being the fifth such facility in Italy. The plant will process some 40,000 t/a bio waste and 13,500 t/a green waste, producing enough high-quality biomethane to provide energy for up to 2,400 households or more than 500 natural gas-driven vehicles.

Italy's fifth Kompogas[®] plant is to be built in Foligno, a town in the province of Perugia, with completion scheduled for the end of 2018. Along with the composting technology by Cesaro Mac Import (CMI), the dry anaerobic digestion (AD) technology provided by Hitachi Zosen Inova (HZI) will form the core of an overall concept aimed at processing and profitably recycling local organic waste. The regional bio waste (SSO or 'FORSU') and green waste will be processed using dry anaerobic digestion and composting to deliver the best possible yields. While the biogas produced will be upgraded to valuable biomethane, the digestate will provide high-grade compost for use in agriculture.

Fifth Joint Project

Foligno is HZI's fifth project with its Italian partner Cesaro Mac Import. CMI, the market leader in dry anaerobic digestion in Italy, was awarded the order to execute this project by ASJA Ambiente Italia SpA in July 2017. HZI and CMI signed their contract in September 2017, underpinning the successful collaboration between the two firms. "We are proud that both CMI and ASJA have once again placed their trust in us with this project. We are convinced that Foligno will mark a further successfully executed project for us in Italy, thus enabling us to maintain and bolster our market position," said Bernard Fenner, Vice President System Unit AD at HZI.

Proven Kompogas[®] Technology

HZI will deliver the AD section of the plant, namely two PF1300 steel digesters with the corresponding technology, including the control system. These will in future process around 40,000 t/a of SSO and 13,500 t/a of green waste. The digestion process will produce more than 14,000 Nm³ of biogas every day, which will subsequently be upgraded into biomethane and fed into the local gas grid or sold as an environmentally friendly fuel in the form of compressed natural gas (CNG). The energy generated will be sufficient to supply up to 2,400 households or to fuel more than 500 natural gas-driven vehicles, thus saving more than 2,000 tonnes of fossil fuel per day.

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. 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. Our 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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About Cesaro Mac Import srl

Cesaro Mac. Import is a family company based in the northeast of Italy, close to Venice. The core business of Cesaro Mac. Import is the environment. The customers of Cesaro Mac. Import are waste management companies, composting and/or AD facilities and companies involved in the recycling business. Cesaro Mac. Import provides a wide range of tailored solutions to its customers, from single machinery to complete turnkey plants. Thanks to its well established team Cesaro Mac. Import assists its customers in each phase, from designing to post-sales. Through its highly qualified technical team Cesaro Mac Import can provide its customers: 24/7 telephone assistance, maintenance in its workshop or at the customer site, using its 11 service vans and service partners in Italy and abroad. Cesaro Mac Import has been playing a key role in the waste field in Italy since 1985. Thanks to the cooperation with HZI, Cesaro Mac Import can now offer a very high quality product to its customers for transforming waste to energy.

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