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Kompogas[®] for the Future

Stuttgart optimises regional resource management and climate protection with dry anaerobic digestion plant.

Hitachi Zosen Inova AG, in a consortium with the Eggersmann Group, is to build a dry anaerobic digestion plant to treat 35,000 t/a of organic waste in in Baden-Württemberg, Germany. The two waste management specialists were recently awarded the contract by Abfallwirtschaft Stuttgart, the state capital's own waste management utility. Construction on the plant in the Zuffenhausen district will commence in October 2021.

Stuttgart, Germany. The awarding of the contract kicks off a project centred on a core feature of Hitachi Zosen Inova's (HZI) proven Kompogas[®] technology: harnessing the potential of biogenic waste for the greatest possible material and energy yield. Construction on site is scheduled to begin in autumn this year and trial operation in 2023, with the plant due to be running at full capacity at the beginning of the summer that year.

Resource Management at its Best

A PF2100 steel digester will be used to convert up to 35,000 tonnes of source-separated organic waste from the Stuttgart urban area into biogas. Part of this will be used to generate electricity at a combined heat and power unit on the same site, with the waste heat used to heat the digester and for composting to cover the plant's heat requirements as efficiently as possible. The electricity generated will be fed into the general utility grid.

The lion's share of the biogas, however, will be used at the manufacturing plant of a well-known automaker, transported through an underground line to a combined heat and power unit at the plant's energy generation unit to produce electricity and heat for direct use on site.

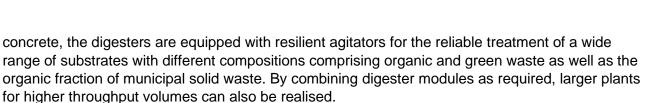
Besides renewable energy the biogas plant will also produce high-grade fertiliser from the digestate, which will be dewatered to yield both a liquid and a solid fraction. After being sanitised in the Kompogas[®] digester, the liquid digestate will be available to farmers as high-grade organic fertiliser. At the plant the solid fraction will be made into ready-to-use compost, an organic source of nutrients that can be used, for example, to provide humus cover for farmland.

This sustainable approach, with resources used optimally and the various products marketed, will play a significant role in the overall economic efficiency of the plant, which in turn will impact the costs of treating the organic waste. The dry anaerobic digestion plant also makes an important contribution to regional climate protection and decarbonisation efforts.

Consistently Persuasive Technology

As for a similar project in Rhineland-Palatinate, the bidding consortium prevailed in the multiple stages of a Europe-wide tender. Eggersmann is in charge of building construction, composting, compost processing and exhaust air treatment. HZI is supplying the waste recovery technology, the dry fermentation technology for producing the biogas, and the digestate separation technology.

The Kompogas plant in Zuffenhausen is one of more than 100 installations worldwide using this technology to generate energy from renewable organic resources. Available in both steel and



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Image:

Digester Inside View.jpg; caption: A look into the centrepiece: The digester is the core module of the biogas plant being built in Zuffenhausen

About Hitachi Zosen Inova

Zurich-based Hitachi Zosen Inova (HZI) is a global leader in energy from waste (EfW) and renewable gas, 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 customer requirements. HZI's Service Group combines its own research and development with comprehensive manufacturing and erection capabilities to provide support throughout the entire plant life cycle.

HZI works for customers ranging from experienced waste management companies to up-and-coming partners in new markets worldwide. Its innovative and reliable waste, flue gas treatment, gas upgrading and power-to-gas solutions have been part of more than 700 EfW and biogas reference projects delivered since 1933.

To find out more about HZI, please visit www.hz-inova.com.

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