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HZI technology helps Ireland's capital to keep green

Swiss company Hitachi Zosen Inova closes major turnkey contract

After Oslo, Paris, and London, Hitachi Zosen Inova will also provide Dublin with a major Energy from Waste facility as they have been contracted by Covanta to deliver the turnkey excl. civil portion for a 600'000 t/a EfW plant.

Hitachi Zosen Inova has been contracted by Covanta to deliver the complete electro-mechanical portion in the value of over 200mEUR for the Energy from Waste facility in Poolbeg, Dublin. The facility, which will treat up to 600'000 t/a, consists of two treatment lines, each with a thermal capacity of 102.5 MW. With a gross power production of 68.8 MW, the facility will provide enough energy to power over 80'000 homes. In addition, all preparations are being taken to provide district heating as well with a capacity to heat upwards of 50'000 homes.

Clean, green, and sustainable in combination with top-efficiency

The Dublin facility will be another benchmark in the EfW market. Due to its advantageous location in the port of Dublin, water-cooled condensers will support the achievement of a net efficiency of greater than 30%. The facility is waste water free and the majority of process water supply will come from rain water and the neighboring waste water treatment plant. On top of that, design of the facility allows operation well below WID emissions standards. This is achieved by the HZI SNCR system Dynor®, a lime based HZI semi-dry system, and a wet scrubber. A further flue gas heat exchanger is also a booster to efficiency by re-heating condensate.

Public Private Partnership helps to achieve Regional Waste Management Plan

The Dublin project is a Public Private Partnership (PPP) between Dublin City Council (acting on behalf of the four Dublin Local Authorities) and Covanta to provide a thermal treatment plant to treat municipal waste that cannot be reused or recycled. It is part of the Dublin Regional Waste Management Plan, which offers the best environmental solution to reduce waste, maximise recycling, minimise landfill, and generate energy from residual waste.

HZI track record of turnkey delivery helps to achieve successful closing

The project received planning approval from An Bord Pleanála in November 2007; it was granted a waste license by the Environmental Protection Agency in December 2008, and received authorisations from the Commission for Energy Regulation in September 2009. Final outstanding approvals have been achieved in summer 2014. After consideration of various procurement options, Covanta took HZI with its proven turnkey delivery track record onboard.

Matthew Mulcahy, Covanta Senior Vice President and Head of Corporate Development stated, "This is our first experience working with Hitachi Zosen Inova and we have been extremely pleased with their level of commitment and exceptional industry expertise as we undertake this large construction project. Through this successful partnership, Covanta looks forward to providing the Dublin region with a long-term sustainable and environmentally superior waste management solution."

HZI CEO Franz-Josef Mengede was also delighted: "The Covanta team did challenge our technical team due to their vast operational experience but at the same time have been very open to HZI's know-how. This flexibility has led to best possible outcome. We do look forward to carry on this team approach into the execution phase together with Covanta."

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 contractor delivering complete turnkey plants and system solutions for

energy recovery from waste. HZI's 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 some 500 reference projects delivered since 1933. To find out more, please visit www.hz-inova.com

About Covanta

Covanta is a world leader in providing sustainable waste and energy solutions. The Company's 45 Energy-from-Waste facilities provide communities and businesses around the world with environmentally sound solid waste disposal by using waste to generate clean, renewable energy. Annually, Covanta's modern Energy-from-Waste facilities safely and securely convert approximately 20 million tons of waste into clean, renewable electricity to power one million homes and recycle over 440,000 tons of metal. Energy-from-Waste facilities reduce greenhouse gases, complement recycling and are a critical component to sustainable solid waste management. For more information, visit www.covanta.com.

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