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Scotland's Capital Chooses Hitachi Zosen Inova's Technology

Hitachi Zosen Inova (HZI) is to build Edinburgh's energy-from-waste plant. The Swiss clean-tech company delivers the complete technology including its proven combustion technology and a dry flue gas treatment system. The latter will reduce water use and improve the energy efficiency of the plant.

A new energy-from-waste (EfW) plant is to be built at the site of the Millerhill Zero Waste Parc, in Midlothian on the outskirts of the Scottish capital, Edinburgh. The contract for the turnkey facility, which is based on HZI's in-house combustion and flue gas treatment technologies, has been awarded to a Joint Venture consisting of Hitachi Zosen Inova and the Spanish FCC Medio Ambiente S.A.. The EfW plant has been procured by the City of Edinburgh and Midlothian Councils under a public-private partnership arrangement with FCC E&M Ltd, a subsidiary of FCC Environment (UK) Ltd. (FCC), in order to divert waste from landfill as targeted in Scotland's Zero Waste Plan.

Well-Established Cooperation

Following on from the thermal EfW plants in Zistersdorf (Austria), Majorca (Spain), Hartlebury (UK) and Greatmoor (UK), Edinburgh is already the fifth project which FCC and HZI are realizing together. Both parties have a correspondingly positive view on renewing their cooperation. "HZI not only has a track record as a supplier of first-class EfW technology, it has also reliably delivered to us, on schedule, and within budget," said Paul Taylor, CEO at FCC. "HZI has repeatedly proven that it is their utmost priority to always find and implement the best possible solution," he adds.

The Edinburgh and Midlothian project marks a further milestone to HZI's long list of references, as it is the company's first project in Scotland, and the tenth in total in the UK. "As one of our core markets, the UK and Ireland are of particular importance for HZI," explained HZI CEO Franz-Josef Mengede, adding: "After Paris, Oslo, London and Dublin another capital city has chosen our technology for their sustainable waste management. This further underscores the fact that HZI has established itself as one of the global leaders in EfW plant construction."

Less Water Consumption Thanks to Dry Flue Gas Cleaning

The plant will handle around 155,000 tonnes of non-recyclable municipal solid waste from the Scottish capital and the surrounding Midlothian Council area every year, and will be capable of supplying electricity up to some 32,000 households. The delivered waste will be mechanically pre-treated in order to separate ferrous and non-ferrous metals for recycling.

Another important installation is the HZI XeroSorp® system, a dry flue gas treatment system, which has been in use in various plants all over Europe before. The system allows increasing the recovery of valuable thermal energy that is used for electricity production, while at the same time the water consumption of the plant can be reduced.

Construction has been started and commissioning expected to be carried out by the end of 2018.

Factsheet

Owner and operator	FCC Environment
Waste type	Metals reduced municipal solid waste (MSW) and refuse derived fuel (RDF)
Scope of supply by HZI and FCC Medio Ambiente S.A.	EPC Contractor for entire EfW plant incl. metals recovery via a mechanical treatment plant
Number of lines	1
Annual capacity	155,000 t/a (nom.)
Throughput	19.35 t/h (nom.)
Thermal capacity	50 MW (nom.)
Grate type	Hitachi Zosen Inova grate
Grate cooling	Air cooled
Boiler type	6-pass boiler, horizontal
Steam production	400°C, 60 bar, 63.32 t/h
Flue gas treatment	DyNOR [®] , XeroSorp [®]

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. Its 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 FCC Group

We are owned by the Spanish construction and services group, Fomento de Construcciones y Contratas (FCC) and are one of the UK's leading waste management and energy recovery companies. Each year we collect, recycle and dispose of millions of tonnes of household, commercial and industrial waste. We also generate energy from waste, thereby contributing significantly to the Government's efforts to reduce reliance on fossil fuels. The profile of the UK's waste management industry has never been higher, the pressures on local authorities and the economy to reduce waste and maximise re-use and recovery, never greater. Through innovation, service and expertise – cornerstones of the Group's approach – we are committed to working with our local authority partners and industry customers to respond to often complex and far-reaching waste management strategies, to react to increased regulation from the UK and Europe, and to meet demanding waste management targets.

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