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Right Around the World: Hitachi Zosen Inova Supplies Technology for Energy from Waste Plant in Australia

First project Down Under for the Swiss technology company

Swiss cleantech company Hitachi Zosen Inova is delivering its first energy-from-waste plant in Australia in East Rockingham near Perth. In addition to developing and constructing the state-of-the-art facility, the company will also part-own and co-operate it.

By the end of 2022 a new Energy from Waste (EfW) plant is to be built around 40 kilometres south of Perth in the state of Western Australia. The East Rockingham Resource Recovery Facility (RRF) project was developed by a consortium consisting of Swiss cleantech company Hitachi Zosen Inova (HZI) plus Australian project developer New Energy Corporation and Abu Dhabi developer Tribe Infrastructure. The contract to design, build and commission the plant was awarded by the project shareholders to an EPC consortium formed by Acciona Industrial and HZI.

HZI will be delivering everything from the waste crane to the stack in the form of its proprietary combustion technology, including the reciprocating grate and a highly efficient multistage flue gas treatment. Consortium partner Acciona will be in charge of civil construction, the water & steam cycle plant, the installation and erection of HZI's equipment and the balance of the plant.

The EfW plant will process 300,000 tonnes of municipal and industrial waste a year from the domestic and industrial zones in the surrounding area under the jurisdiction of East Mandarie Regional Council (EMRC) and Cockburn Council. This will be used to generate 28.9 MWe of energy which will be fed into the grid, contributing directly to the supply of energy to the agglomeration around Perth.

Sustainable Waste Management for Australia

Even though there is no official ban on landfill in Australia, for some time people have been rethinking sustainability and efficient waste management. As one of the first of its kind in the country, Rockingham RRF will play a pioneering role and point the way forward for future EfW installations in Oceania. Marc Stammbach, Managing Director of HZI Australia, emphasises the relevance of the project for all concerned: "For HZI this project marks our entry into the Australian market and introduces our world renowned and leading technology to Australia – something we've been working on for a long time. For the Perth area this project marks a major step towards sustainability and renewable energy from waste."

Supporting the Local Economy

Besides its contribution to environmental awareness, the project is also highly significant for the local economy. Alongside technical know-how from Switzerland, a large part of the material, equipment and productive capacity will be provided by regional and national companies. In addition to this, around 300 people will be employed temporarily on the site during the construction phase. After this the plant will be operated for at least 20 years by a joint venture between SUEZ and HZI, providing permanent operation and maintenance jobs for a further 40 people. HZI is also committing to this project long-term as a project shareholder.

Construction is scheduled to begin at the beginning of January 2020, so that the plant can go into full operation by the end of 2022.

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 gas upgrading, and power-to-gas 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 SUEZ

With 90,000 employees around the world, SUEZ is a global leader in smart, sustainable resource management. The Group provides solutions for managing water and waste that help cities and industries optimise the management of their resources and improve their environmental and economic performance while complying with current regulations. SUEZ is wholly committed to the resource revolution to counter the challenges of quality and availability. Building on the potential of digital technology and innovative solutions, the Group is able to recover 17 million tonnes of waste a year and to produce 3.9 million tonnes of secondary raw materials, as well as 7 TWh of local renewable energy. It also preserves water resources by providing 58 million people with sanitation services and reusing 882 million cubic metres of waste water. SUEZ generated total revenues of EUR15.9 billion in 2017. www.suez.com

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About Tribe Infrastructure

Tribe Infrastructure Group is an independent infrastructure project finance firm based in Abu Dhabi, UAE. Tribe provides infrastructure and utilities investment services to grantors, developers, investors and lenders, acting as advisor and co-development partner to meet the needs of the project. Tribe actively mobilises private capital to realise unique opportunities, harnessing its natural competencies in structuring and execution of projects to take early-stage investments through to successful financial close, construction and operation. Tribe focuses on energy from waste, district cooling and sustainable agriculture in the Middle East, South-East Asia and Australia. www.tribeig.com.

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About New Energy Corporation

New Energy Corporation is a leader in the emerging Waste to Energy market globally. Our vision is a world with zero landfill where waste fuels a sustainable future. New Energy is committed to sustainable business practices for both the environment and the communities in which we operate. www.newenergycorp.com.au.

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