

Press Release

Swiss Power for Helsinki

Vantaan Energia awards contract to Hitachi Zosen Inova

On **23 May 2011** the Finnish energy company Vantaan Energia contracted Hitachi Zosen Inova to deliver the **combustion / boiler lot** to the new combined cycle power plant serving the Helsinki metropolitan area. Two factors - both high operational security and the maximal degree of efficiency - made compelling arguments in favor of the offer by the Zurich based technology supplier.

Massive CO₂ Reduction

Replacing a former coal-powered plant, the new Vaanta plant will reduce coal consumption by some 30%. The plant will be fueled exclusively by municipal solid waste from the Helsinki metropolitan area - the cities Helsinki, Vantaa and Espoo - thus reducing CO₂ emissions from fossil fuels by up to 130.000 t/a. The Energy from Waste (EfW) plant will further contribute to the mitigation of climate change as it will also reduce the emission of Methane from waste which is not longer disposed on landfills.

High Degree of Efficiency

The new facility - slated to begin operation in July 2014 - consists of two EfW units with a capacity of 64 MW each and a nominal throughput of **352.000 t/a** municipal solid waste. Steam derived from the municipal solid waste fired boilers will be overheated to 520 °C using exhaust from a gas turbine for combined power and heat production. The maximal output of the combined facility will amount to 78 MW electrical and 107 MW thermal - about 7 MW higher power production compared to a solution with two individual facilities. The heat production will correspond to about half of Vantaa's annual heat requirement

Technology from the Market Leader

With approval of its EUR 60 million contract, Hitachi Zosen Inova now stands as sole supplier for two key mandates in Finland. By providing the country's two largest plants - Vaasa und Vantaa - the Swiss firm establishes itself firmly as the number one Energy from Waste (EfW) supplier to Finland. For the Vantaa plant, the Zurich based technology provider also draws on its experience in earlier projects, completed under its former name Von Roll Inova - Helsinki 1961 (no longer operational) and Turku 1975.

About Vantaan Energia Oy

Vantaan Energia Oy is an energy company owned 60 % by the City of Vantaa and 40 % by the City of Helsinki. Vantaan Energia owns and operates power plants with an output of some 200 MW electrical and 900 MW thermal and the distribution network for power and district heating in the city of Vantaa.

About Hitachi Zosen Inova AG

With some 350 employees in Switzerland, and more than 400 installed plants worldwide, Hitachi Zosen Inova is a leading global technology provider and contractor in the field of Energy from Waste facilities. It offers customized plant sections and turn-key plants, covering planning, design and engineering, construction and operation, as well as maintenance and overhaul of Energy from Waste plants.

Since the end of 2010 the former Von Roll Inova AG belongs to the Hitachi Zosen Corporation and operates now as Hitachi Zosen Inova AG.

For more information visit: <http://www.hz-inova.com>

About the Hitachi Zosen Corporation

Hitachi Zosen Corporation is an internationally operating Japanese industrial enterprise specialising in environmental protection, industrial plants, precision and industrial machinery, marine disaster prevention, structural steelwork and construction machinery. From 1960 until recently, Hitachi Zosen Corporation was a licensing partner of Hitachi Zosen Inova AG.

Its headquarters being in Osaka, Hitachi Zosen Corporation has subsidiaries in nearly all regions of Japan. It also has local presence in Singapore, Great Britain, the USA, Malaysia, China, Thailand – and, as of 2011, Switzerland. With 8000 employees, Hitachi Zosen Corporation brings its vast industry know-how to clients all over the world.

For more information visit: <http://www.hitachizosen.co.jp/english/>

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