

Kanadevia Inova to Build a State-of-the-Art Waste-to-Energy Plant in Rome

Rome, Italy – Kanadevia Inova, together with its partners Acea, Suez, Vianini Lavori and RMB, is a shareholder in the special purpose vehicle RenewRome, which has been selected through a public procurement process for the concession to build and operate a new Waste-to-Energy (WtE) plant for the Municipality of Rome. Kanadevia Inova will act as lead Engineering, Procurement and Construction (EPC) contractor for the new WtE facility for the Municipality of Rome.

The new plant will use Kanadevia Inova's leading technology to treat around 600,000 tonnes of non-recyclable waste per year, which is currently landfilled or exported for treatment in plants across Europe. In addition to its role as the EPC contractor, Kanadevia Inova holds a minority stake in the project company and, once the plant is operational it will be responsible for its maintenance under a thirty-year concession.

The new WtE facility is located in Santa Palomba, some 25 km southwest of the capital. Following a detailed procurement process and for the first time in Rome's long history, the new WtE facility will treat waste as a valuable resource, helping to decarbonise Italy's energy generation mix and reducing the practice of landfilling – widely regarded as the least sustainable waste treatment option.

The plant complex will also host the "Parco delle Risorse Circolari" (Park of Circular Resources), an area equipped with research rooms, co-working spaces, an experimental greenhouse, green areas and a panoramic tower over 70 metres high. This will be one of the most advanced WtE plants in the world, converting waste into energy and many other reusable products.

The new plant will use Kanadevia Inova's leading WtE technology to maximise electricity generation. The facility will also include a metal recovery and ash collection units for onward reuse in other industries, as well as a carbon dioxide capture and liquefaction plant.

This new plant has been specifically designed to meet the needs of the city of Rome. The two-line facility will treat 600,000 tonnes of municipal solid waste per year and generate around 65 MW of electricity, enough to meet the needs of around 200,000 households. The Flue Gas Treatment (FGT) system consists of a semi-dry unit, a wet scrubber and, finally, a Selective Catalytic Reduction system for nitrogen oxide reduction.

With this FGT configuration, the facility will achieve the lowest emission limits set by European directives and utilising Best Available Techniques.

To minimise the impacts to the local water supply, the FGT system is designed to condense some of the water contained in the flue gases and reuse it for the internal needs of the plant.

Construction work began on Friday 14 May, and the first waste delivery is scheduled for autumn 2029.

“Kanadevia Inova is delighted to have been selected as the lead EPC contractor to build this much-needed and highly efficient waste-to-energy facility,” said Fabio Dinale, Executive Vice President Business Development at Kanadevia Inova. “Together with our project partners Acea, Suez, Vianini Lavori and RMB, we will bring our proven track record of technical excellence to design, build and operate the most advanced WtE facility in Italy. From autumn 2029, this plant will deliver reliable baseload energy to power homes and businesses. Importantly, the facility will help the city of Rome to meet its environmental targets, supporting valuable local circular economies and enabling the city to reach its ambitious landfill diversion goals. The new facility will be a cutting-edge plant with the lowest emissions ever recorded for a plant of this type, combining resource recovery technologies with outstanding architecture that connects the functionality of the plant with the local environment in a sustainable way.”

Once commercial operations begin, this facility will recover resources for alternative uses and create much-needed circular economies. This WtE plant will also include ancillary circular economy facilities, such as a bottom ash treatment plant and the use of steam in a district heating system.

ENDS

Plant Image:



About Kanadevia Inova

Kanadevia Inova, formerly Hitachi Zosen Inova, is a global green-tech leader that pioneers innovative solutions for the energy transition, the circular economy and decarbonisation.

Headquartered in Zurich and employing over 3,500 people in 17 countries, Kanadevia Inova specialises in Waste to X (WtX) and Renewable Gas (RG), delivering turnkey plants and system solutions that transform waste and biogenic residues into valuable resources.

As part of Kanadevia Corporation, our mission is to bring long-term value to society and contribute to a future free of wasted waste. We take a holistic approach – from project development, engineering, procurement and construction (EPC) to service throughout a plant’s life cycle. By integrating advanced technology and continuous research and development, we ensure that each project is designed to achieve optimal performance.

With more than 2,000 executed projects completed globally, our team delivers innovative, customer-centric solutions to both established market leaders and partners in emerging markets.

Find out more about our company at www.kanadevia-inova.com.

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