

Valmet: Lahti Energia's Waste to Energy Plant Proves Gasification Tech  
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## All Good as 140 MW Finnish Waste Gasification Plant Passes 25,000 hours

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By [Ben Messenger](#)



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Fellow Finnish firm, Valmet, which delivered that plant said that it has agreed on a long-term cooperation for further development with Lahti Energia for marketing and commercialisation of gasification technology.

[Valmet](#) said that its waste to energy gasification technology, demonstrated for the first time in Lahti, helps reduce the consumption of fossil fuels by replacing 140,000 tonnes of coal with renewable fuel every year.

The electricity production capacity of the Kymijärvi II plant for the city of Lahti is 50 MW and the district heat production capacity is 90 MW.

According to Valmet its technology provides high efficiency in electricity production of over 30%, while cleaning the product gas prior to combustion enables high steam values without the risk of boiler corrosion.

"The development of waste gasification technology at the Kymijärvi II plant has been one of our largest energy projects in recent years," commented Kai Mäenpää, vice president, energy sales and services operations, EMEA, Valmet.

"This project presented many challenges typical of new technology. However, a long and demanding development has now reached its ending happily," continued Mäenpää. "The Kymijärvi II plant is an extremely important technological step forward and a reference for Valmet and the Finnish exports of technology."

Eero Seesvaara, CEO of Lahti Energia added: "After the completed development work, the Kymijärvi II plant operates as the base load power plant for the district heat network in Lahti."

“With the gasification plant, Lahti Energia is capable of utilising different waste lots from local producers in the joint generation of district heat and electricity. As a result of the use of recycled fuel, Lahti is no longer as strongly dependent on fossil fuels and greenhouse gas emissions have decreased significantly,” concluded Seesvaara.