

## Stockholm Electrical Power Generation plant from the home waste without sorting



The Högdalen CHP-plant is a state of the art facility for waste incineration. The plant produces electricity and district heating out of waste and other biofuels such as woodchips and treated industry waste. The plant can handle 700 000 tons of waste per year.

The Högdalen plant has been used for waste incineration since 1970. The household waste was turned into electricity instead of landfill. When the district heating network grew in Stockholm it was decided to turn Högdalen into a Combined Heat and Power-plant. The plants two waste heated steam boilers was reinforced with a oil heated steam boiler in 1979. In the same year two oil heated hot water boilers was also constructed. In connection to the construction of the new heat production facilities the plant was connected to the local district heating network. The waste fuels efficiency varies depending on the composition of the waste. To compensate for this a hot water accumulator was installed. In 1979 the reconstruction was finished and ever since the plant produces both electricity and heat.

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In the 1980's an electricity boiler was installed. In 1986 a third industrial waste boiler was installed. In 1999 boiler 6 was built to handle industrial waste. In 2005 the household waste boiler 4 was inaugurated.

The hot water boilers is now gone and boiler 5 that used to be fuelled with fossil oil is now fuelled with bio oil. In the plant there are two steam turbines for electricity production, G1 that was installed 1969 and G6 which was installed in connection to the construction of boiler 6 1999. G1 has an effect of 27 MW and the G6 an effect of 44 MW.

The Högdalen CHP-plant produces heat for the south district heating network in Stockholm. The south district heating network is since 2007 connected to the central district heating network via pipes under Riddarfjärden in central Stockholm. The south district heating grid is also connected to Söderenergis district heating network in the south.

## Technical Data

Högdalen in short	<b>Waste incineration</b>		
	Boiler 1 & 2 effect: 2 x 23 MW	Boiler 6 effect: 91 MW	<b>Electricity production</b>
	Fuel: Municipal waste	Fuel: Industrial waste	Steam turbin G1 effect: 27 MW
	Incineration capacity: 2 x 11 ton/h		Steam turbin G6 effect: 44 MW
	Boiler 3 effect: 44 MW	<b>Peak production</b>	<b>Sold volume south district heating network 2009:</b>
	Fuel: Municipal waste	Boiler 5 effect: 80 MW	Approx. 3 962 GWh whereof:
Incineration capacity: 15 ton/h	Fuel: Bio oil	Heat 3 579 GWh	
Boiler 4 effect: 86 MW	Boiler 21 effect: 24 MW	Electricity 311 GWh	
Fuel: Municipal waste	Fuel: Electricity	Cooling 72 GWh	
Incineration capacity: 36 ton/h			

**More details about this plant, kindly visit the web link below**

<http://www.youtube.com/watch?v=Lgog301EBfE>



Generation of clean energy

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