

Industrial Waste Incineration Plant



Iida Waste Treatment Company is a privately owned waste treatment plant located in Hadano City, Japan. The company receives a wide variety of waste, and operates a recycling plant as well as an incineration plant.

The incineration plant treats approximately 5,500 tonnes of waste annually. The plant was originally supplied in accordance with local regulation, and was recently upgraded to comply with the European Waste Incineration Directive, 2000/76/EC.

The plant has a design capacity 700 kg/h at an average calorific value of 17 MJ/kg. Heat from the incineration process is being recovered and used in the process plant.



ENVIKRAFT



Envikraft in Denmark supplied the new turn-key system for the treatment of domestic and industrial waste at Iida Waste Management. The plant is the first to comply with new Japanese emission requirements, and is the only foreign country supplied plant of its kind in Japan.

The scope

Fully automatic waste crane, waste hopper, incinerator, ash and slag transportation, hot water boiler system, fluegas treatment system, adsorption system with silos and dosing system and a system to supply plant heating.

The complete plant is automatically controlled and monitored via a SCADA system designed by Envikraft.

Special features

- Low fly ash carryover (app. 300 mg/Nm³ at incinerator outlet)
- Efficient burnout of particles
- Efficient burnout of bottom ashes

Main plant data

Nominal capacity	700 kg/h
Waste calorific value	17 MJ/kg _{AV}
Boiler output	2.5 MW
Pressure	6 barg
Water production	110 m ³ /h
Heat production	2.5 MW

Emissions to air*

Dust	10	mg/Nm ³
TOC	10	mg/Nm ³
HCL	10	mg/Nm ³
HF	1	mg/Nm ³
SO ₂	50	mg/Nm ³
NO _x	200	mg/Nm ³
CO	50	mg/Nm ³
Hg	0.1	mg/Nm ³
Dioxins	0.1	ng/Nm ³

* Standardized at 273 °K, 101.3 kPa, 11 % oxygen, dry gas.

Envikraft
3 Boserupvej
Stavnsholt
DK-3520 Farum
Denmark
www.envikraft.net
e-mail: info@envikraft.net



ENVIKRAFT