



# MUNICIPAL AND INDUSTRIAL WASTE INCINERATION PLANT

Funi Waste Management Company is owned by Ísafjörður municipality in north west Iceland, serving seven communities in and around the town of Ísafjörður.

The waste stream is highly seasonal, averaging around 3,500 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 a calorific value of 11.5 MJ/kg, and produces district heating to the nearby community.



## ENVIKRAFT A/S

**Waste To Energy Systems**



**Envikraft A/S** in Birkerød Denmark supplied the turn-key system for the treatment of domestic and industrial waste at FUNI Waste Management. In addition, the plant is capable of treating medical and animal carcass waste – a feature available only with our special designed refractory lined bed.

#### 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 district heating.

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

#### Special features

- ✓ Low fly ash carryover (app. 300 mg/Nm<sup>3</sup> at incinerator outlet)
- ✓ Efficient burnout of particles
- ✓ Efficient burnout of bottom ashes

#### Main plant data

|                             |                          |
|-----------------------------|--------------------------|
| Nominal capacity            | 700 kg/h                 |
| Waste calorific value       | 11.5 MJ/kg <sub>AV</sub> |
| Boiler output               | 1,6 MW                   |
| Pressure                    | 6 bar <sub>g</sub>       |
| Water production            | 68 m <sup>3</sup> /h     |
| District heating production | 1.5 MW                   |

#### Emissions to air\*

|                 |     |                    |
|-----------------|-----|--------------------|
| Dust            | 10  | mg/Nm <sup>3</sup> |
| TOC             | 10  | mg/Nm <sup>3</sup> |
| HCL             | 10  | mg/Nm <sup>3</sup> |
| HF              | 1   | mg/Nm <sup>3</sup> |
| SO <sub>2</sub> | 50  | mg/Nm <sup>3</sup> |
| NO <sub>x</sub> | 400 | mg/Nm <sup>3</sup> |
| CO              | 50  | mg/Nm <sup>3</sup> |
| Hg              | 0.1 | mg/Nm <sup>3</sup> |
| Dioxins         | 0.1 | ng/Nm <sup>3</sup> |

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

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