

Animal Waste Incineration Plant

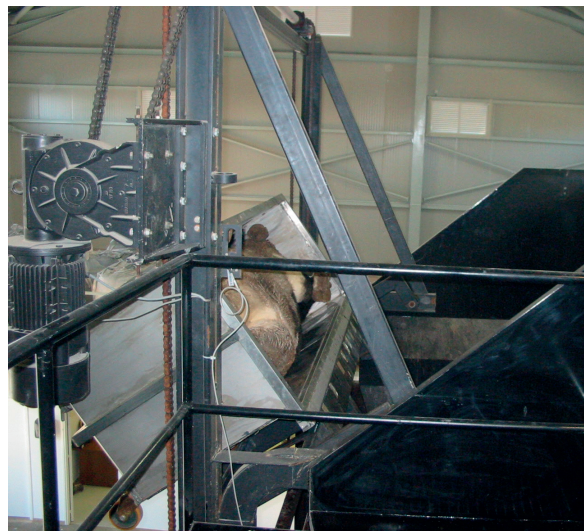


Sigan Management is a privately owned animal carcass handling company, which is part of the Galatariotis Group, which are one of the largest company groups in Cyprus. Having activities and companies in industries as telecommunications, cement and tourist industry, the group spans over a wide variety of businesses.

The incineration plant consists of two 400 kg/h incinerators which treat approximately 6,000 tonnes of waste annually (both whole cows and smaller animals like goats, sheep's and birds). The plant is supplied in accordance with the European Waste Incineration Directive, 2000/76/EC.



ENVIKRAFT



Envikraft A/S in Denmark supplied the turn-key system for the treatment of animal carcass waste at the first designated plant in Cyprus.

The treatment system features a two-line setup providing an annual treatment capacity of 6,000 tonnes.

The plant is the first to comply with the European Waste Incineration Directive, 2000/76/EC.

The scope

The plant is supplied as an EPC (Engineering, Procurement, Construct) solution and comprises a

- Fully automatic waste feeding sluice
- Incinerator with 2 sec. retention time
- Energy recovery boiler
- Adsorption flue gas treatment system using activated carbon and lime ($\text{Na}(\text{OH})_2$).

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 (per incineration line)

Nominal capacity	400 kg/h
Waste calorific value	7.4 MJ/kg
Boiler pressure	6 barg
Water production	33 m ³ /h
Heat production	0.8 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	mg/Nm ³

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

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