

# KARA NOVEREN – Waste-to-Energy Plant Roskilde - Denmark



## **GRANILAB®** **Flue Gas Condensation**

Incineration:	Waste
Installation:	New line
Capacity:	1 x 25 t/h

Upstream Components: Grate, SNCR, steam boiler

# KARA NOVEREN – Waste-to-Energy Plant Roskilde - Denmark

Client

KARA NOVEREN

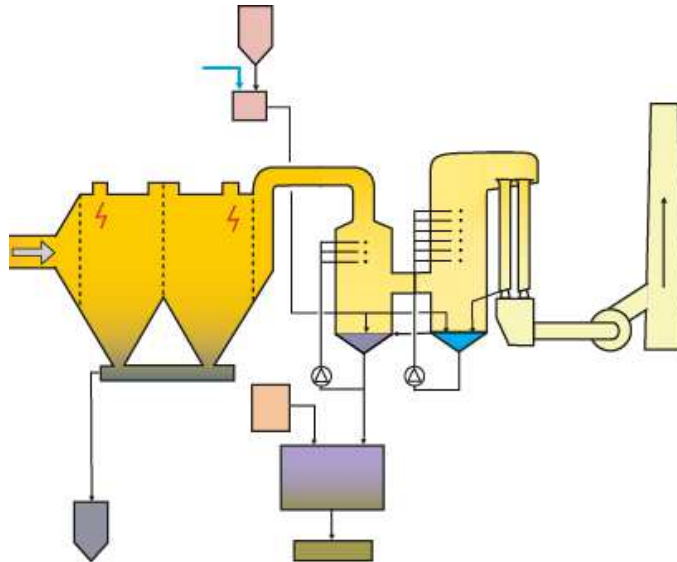
Operator

KARA NOVEREN

Start up

2013

## TECHNOLOGY



## PERFORMANCE

Raw Gas / Guarantee		
Volume flow	156.000 Nm <sup>3</sup> /h	
Temperature at entry	180°C	
Dust	2000	2
HCL	800	5
SO <sub>2</sub>	400	25
Hg	0,15	0,03
Heavy metals	50	0,2
Dioxins / Furans	2	0,08
NH <sub>3</sub>	10	4

Pollutants in mg/m<sup>3</sup>n, dry, corrected as 11 Vol.% O<sub>2</sub> except Dioxins in ng/Nm<sup>3</sup>

### Flue Gas Cleaning Technology:

- High dedusting with Fabric Filter
- Acid scrubber
- Alkaline scrubber with gypsum production
- DedioxLAB scrubber with condensation
- Filtering modules

## FEATURES



- Limestone / Caustic Soda / Activated Carbon in the scrubbers
- Double Treatment for PCDD/F in dry and wet phases
- Sub-cooled scrubber for heat recovery to the district heating
- Prepared for more stringent Emission Limits in future

Rev. 07/15