



GORE® Filtration Products

ENERGY

Case history

GORE® DeNOx Catalytic Filter Bags – Municipal Solid Waste Incinerator, Padova, Italy

CHALLENGE

The HESTAMBIENTE Municipal Waste incinerator, part of HERA group, is located in Padova (Italy). Due to tight regulations, the incinerator needed to significantly reduce its line 1 NOx emissions.

SOLUTION

Line 1 installed GORE® DeNOx Catalytic Filter Bags in September 2011, while lines 2 and 3 utilize tail-end SCR equipment. All three lines achieve similar NOx levels.

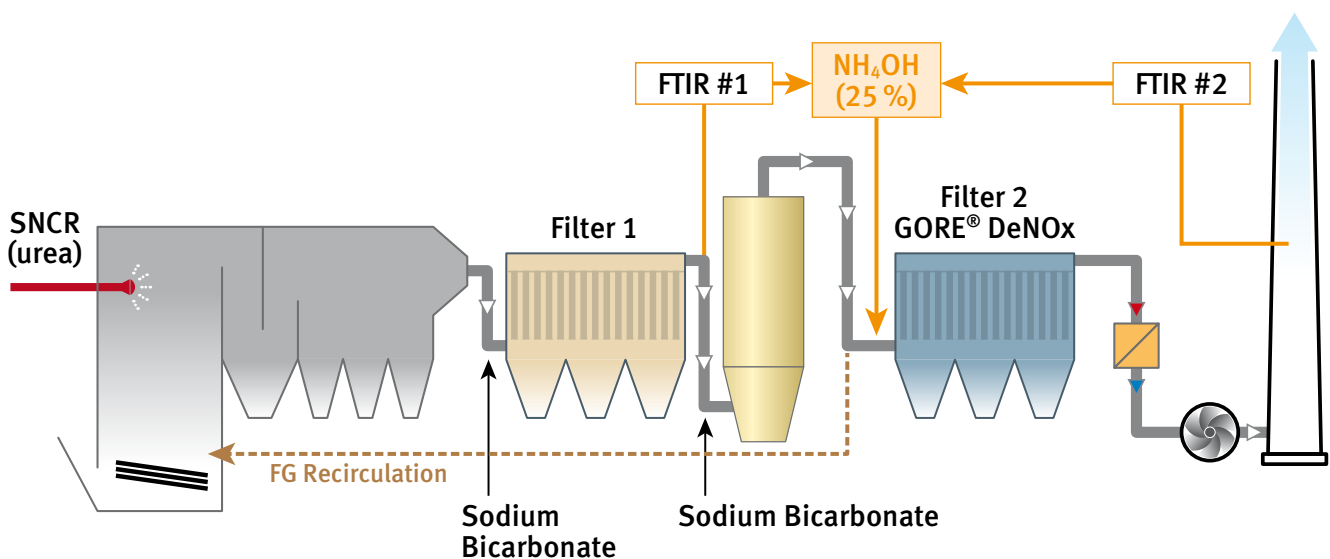
RESULT

Padova's waste incinerator was first to utilize GORE® DeNOx Catalytic Filter Bags for the reduction of NOx and ammonia in full-scale operation mode. The incinerator now operates with NOx emissions well below 80 mg/Nm³.



DATA BOX

- GORE® DeNOx Catalytic Filter Bags installed in line-1 in September 2011
- NOx < 80 mg/Nm³ (daily average)
- Dust emissions < 1 mg
- NH₃ < 1 mg/Nm³





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	Performance comparison			
	Units	SNCR alone	Specifications	After installation of GORE® DeNO _x Filters
NO _x (as NO ₂)	mg/Nm ³ dry (11% O ₂)	181	< 80 daily avg.	50–60
NH ₃			< 10 daily avg.	< 5
Dust		1.2	< 3 daily avg.	< 1

	Incineration capacity (metric tons/day/line)	Stack flow rate (Nm ³ /h)
Line 1	120	34,000

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