



# GORE® Filtration Products

ENERGY

## Case history

## GORE® DeNOx Catalytic Filter Bags – Municipal Solid Waste Incinerator, Villefranche sur Saône, France

### CHALLENGE

In 2013, the city of Villefranche (France) requested that its municipal waste incinerator reduce its emission levels to  $< 80 \text{ mg/Nm}^3 \text{ NO}_x$  and  $< 10 \text{ mg/Nm}^3 \text{ NH}_3$ , especially necessary given the plant's close proximity to the city of Lyon. However, the plant didn't want to compromise its incineration capacity in its efforts to reduce emissions.

### SOLUTION

TIRU made a proposal to the city of Villefranche and won the operating contract, in part because they committed to installing new technology and operating with GORE® DeNOx Catalytic Filter Bags in the baghouse. Gore's solution was attractive for its cost-effectiveness over other solutions.

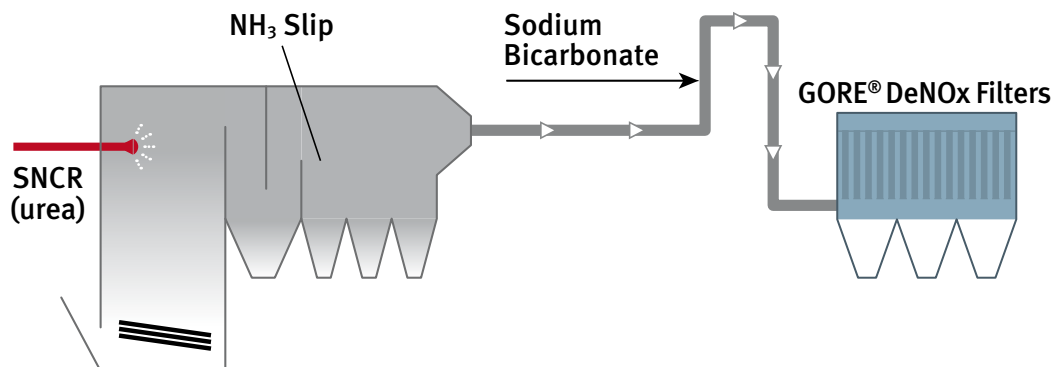
### RESULT

Gore engineers helped install GORE® DeNOx Catalytic Filter Bags and modify the existing SNCR and acid scrubbing system, first on line 1 (September 2013) and then line 2 (September 2014). Now, the plant maintains NO<sub>x</sub> emissions at the target level: below  $80 \text{ mg/Nm}^3$ .



### DATA BOX

- 2 incineration lines using GORE® DeNOx Filter Bags
- Use of ammonia slip from SNCR
- $\text{NO}_x < 80 \text{ mg/Nm}^3$  (daily average)
- Dust emissions  $< 0.5 \text{ mg}$
- $\text{NH}_3 < 1 \text{ mg/Nm}^3$





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	Performance comparison		
	Units	SNCR alone	After installation of GORE® DeNO <sub>x</sub> Filters
NO <sub>x</sub> (as NO <sub>2</sub> )	mg/Nm <sup>3</sup> dry (11% O <sub>2</sub> )	200	<80
NH <sub>3</sub>		<10	<1
Dust		1	0.3
Filter differential pressure	mbar	17	17

	Incineration capacity (metric tons/day/line)	Stack flow rate (Nm <sup>3</sup> /h)
Line 1	150	35,000
Line 2	100	26,000

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