



# GORE® Filtration Products

ENERGY

## Case history

## GORE® DeNOx Catalytic Filter Bags – Municipal Solid Waste Incinerator, Limoges, France

### CHALLENGE

The waste incinerator CEDLM in Limoges (France) was proactively looking for efficient solutions to reduce NOx emissions to a 80 mg/Nm<sup>3</sup> level, making them eligible for emission-related tax benefits.

### SOLUTION

GORE® DeNOx Catalytic Filter Bags were recognized as the most cost-effective technology available. By September 2014, our catalytic filter bags were installed on all three incineration lines, with no additional equipment needed.

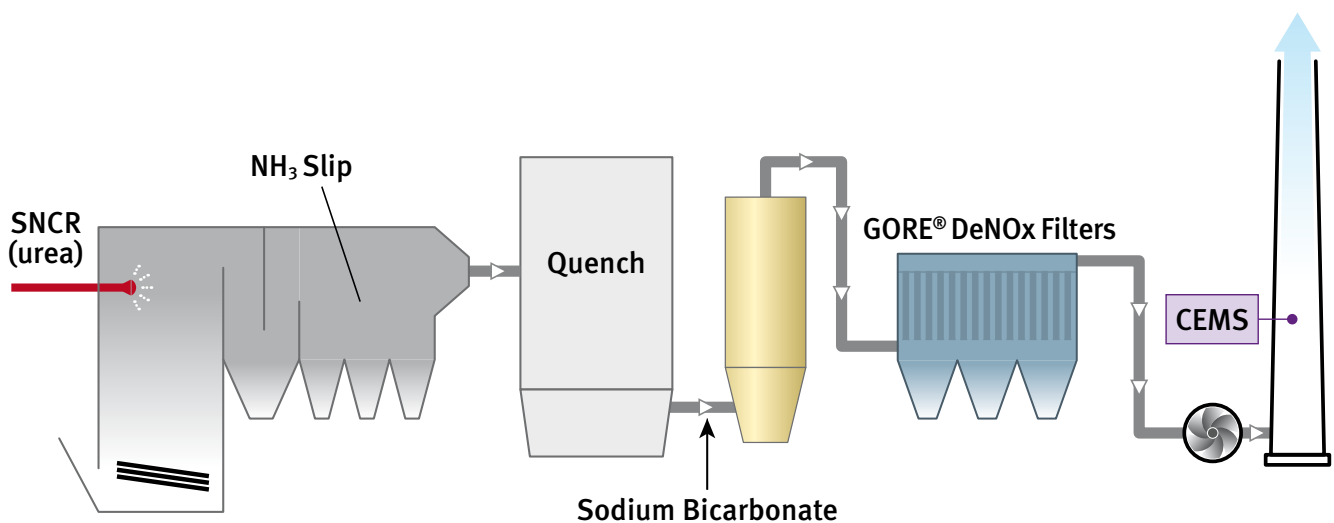
### RESULT

With GORE® DeNOx Catalytic Filter Bags and our technical expertise, the plant was able to reduce its NOx emissions below 80 mg/Nm<sup>3</sup>, qualifying Limoges for significant tax benefits.



### DATA BOX

- 3 incineration lines using GORE® DeNOx Filter Bags
- Use of ammonia slip from SNCR
- NOx < 80 mg/Nm<sup>3</sup> (daily average)
- Dust emissions < 0.5 mg
- NH<sub>3</sub> < 1 mg/Nm<sup>3</sup>





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	Performance comparison			
	Units	SNCR alone	Specifications	After installation of GORE® DeNOx Filters
NO <sub>x</sub> (as NO <sub>2</sub> )	mg/Nm <sup>3</sup> dry (11% O <sub>2</sub> )	176	< 80 daily avg.	70
NH <sub>3</sub>		< 1	< 10 daily avg.	< 1
Dust		1.4	< 10 daily avg.	< 0.5

	Incineration capacity (metric tons/day/line)	Stack flow rate (Nm <sup>3</sup> /h)
3 lines, each	110	35,000

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**W. L. Gore & Associates GmbH**

Hermann-Oberth-Straße 26 • 85640 Putzbrunn • Germany

Tel.: +49 89 4612 2211 • Fax: +49 89 4612 2302

E-Mail: filterbags\_EMEA@wlgore.com

[gore.com/filterbags](http://gore.com/filterbags)

