



GORE® Filtration Products

ENERGY

Case history

GORE® REMEDIA® Catalytic Filter Bags – Municipal Solid Waste Incinerator, Fukui Prefecture, Japan

CHALLENGE

The local government of a city in the Fukui prefecture (Japan) needed to revamp its MSW incineration facility to simplify operations and reduce costs. A key factor for the revamped facility was a potential replacement for its existing pollution control unit, which used a fixed-bed activated carbon with ancillary fire protection system to reduce post-incineration dioxin/furan emissions.

SOLUTION

Considering the benefits of a lower cost of ownership and much simpler maintenance and operating processes, the customer decided to implement GORE® REMEDIA® Catalytic Filter Bags technology in the revamped facility. The filter bags were installed and successfully commissioned in line 1 (May 2016) and line 2 (September 2016).

RESULT

The GORE® REMEDIA® Catalytic Filter Bags were able to destroy 99.8 % of dioxin/furan at the baghouse. The filter bags also helped reduce the ammonia slip coming from the up-stream SNCR system by 67 % compared to the facility's original activated carbon system, as the REMEDIA® system converts NOx and ammonia to nitrogen and water vapor for cleaner stack emission.



DATA BOX

Application	Municipal solid waste incinerator
Plant capacity	Production rate: 2 lines with capacity 28 t/16 hr
Gas flow rate	23,000 Nm ³ /hr
Operating temperature	190 °C
Total filter area	487 m ² /line
Differential pressure	1500 Pa
Filter material	GORE® REMEDIA® Catalytic Filter Bags

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