



# GORE® Filtration Products

ENERGY

## Case history

## GORE® REMEDIA® Catalytic Filter Bags – Municipal Solid Waste Incinerator, Okayama, Japan

### CHALLENGE

The construction firm A&E was competing for a new MSW incineration facility at Okayama Prefecture (Japan). One of the facility's core needs was to meet regulations for post-incineration emissions. As part of the bidding process, A&E committed to finding the best-available technologies to meet the project's various technical scopes, including controlling post-combustion dioxin/furan emissions, all while minimizing the initial investment and ongoing operating costs.

### SOLUTION

A&E decided to use the GORE® REMEDIA® Catalytic Filter Bag technology as a reliable and cost-effective solution for post-combustion dioxin/furan destruction. With help from Gore's application support team, A&E successfully installed and commissioned the GORE® REMEDIA® Filter Bags at the facility in March 2014.

### RESULT

GORE® REMEDIA® Catalytic Filter Bags enabled the reduction of dioxin/furan emissions at 0.015 ng-TEQ/Nm<sup>3</sup> at the stack, 85 % below the required regulation of 0.1 ng-TEQ/Nm<sup>3</sup>. Moreover, the bags enabled cleaner stack emission, reducing the ammonia slip from the upstream SNCR system by 99 % to reach a level of 0.1 ppm at the stack.



### DATA BOX

<b>Application</b>	Municipal solid waste incinerator
<b>Plant capacity</b>	Production rate: 2 lines @ 55 ton/hr/line
<b>Gas flow rate</b>	18,500 Nm <sup>3</sup> /hr
<b>Operating temperature</b>	190 °C
<b>Total filter area</b>	534 m <sup>2</sup> /line
<b>Differential pressure</b>	1200 Pa
<b>Bag life</b>	Running since installation in March 2014
<b>Filter material</b>	GORE® REMEDIA® Catalytic Filter Bags

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