



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/Nm³ at the stack, 85 % below the required regulation of 0.1 ng-TEQ/Nm³. 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

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

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