

Wet ESPs Remove Tar Particulate at Steel Plant

For steel installations, the wet electrostatic precipitator (wet ESP, or WESP) provided by Babcock & Wilcox Environmental (B&W) offers highly efficient control of submicron tars and particulate.

Background

A major steel company in Ontario, Canada, needed to replace three 40-year-old wet ESPs on their coke oven process when inspections found leaks caused by corrosion.

Scope

The customer chose our wet ESP technology based on its unique up-flow tubular design that minimized footprint while increasing tar removal performance.

We supplied three wet ESPs with carbon steel casing, with all internals made from 316L stainless steel to withstand corrosion from the coke oven gas.

Results

The wet ESPs were successfully installed and have been performing as guaranteed, with 98% removal of tar particulate.



PROJECT HIGHLIGHTS

PLANT TYPE	Steel
LOCATION	Ontario, Canada
APPLICATION	Coke Oven Gas
GAS VOLUME	60,000 ACFM
PRIMARY CONSTRUCTION MATERIAL	Carbon steel casing with 316L SS internals
AWARD DATE(s)	2018
RESULTS	98% removal of tar particulate

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