# Retrofit of Waste-To-Energy Facilities Equipped with Electrostatic Precipitators, Vol. 1, Report (Paperback)

By National Renewable Energy Laboratory (NREL)

Bibliogov, United States, 2012. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Many municipal waste combustion facilities are equipped with electrostatic precipitators (ESPs); few have acid gas control systems. A retrofit technology using water spray temperature reduction combined with dry acid gas control reagent and powdered activatedcarbon (PAC) injection was tested. 2000 rng/dsm3 at 7percent O2 (150 ib/hr) of trona (a natural sodium sesquicarbonate ore) injected through a rapid dispersion lance successfully controlled more than 50percent of the acid gases. This should let facilities under 250 TPD meet the small plant guidelines for acid gas control. Various levels of PAC were injected along with the trona. 300 rng/dsm3 at 7percent O2 of PAC provides a comfortable margin between the emissions limitations achieved and both large and small plant regulatory guidelines for tetra-through octa-chlorinated dibenzo-p-dioxins and dibenzofurans and mercury, when ESP is operated below 350degreesF, Bi-fluid nozzles were used to spray finely atomized water between the economizer outlet and ESP inlet to maintain temperatures in the desired 300-350degreesF range. Particulate and metals emissions limitations were met by this 400 ft2/1000acft2 specific collector area (SCA)m 3-field ESP. Both the water sprays and...

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