

Co-combustion Characteristics of Refused Plastic Fuel in a Fluidized Coal Combustor

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Co-combustion of RPF (refused plastic fuel) is performed in 20MW commercial coal combustor of circulating fluidized for the steam generation. RPF of 0.4~0.6 % Cl content was used for the co-combustion in this study. The concentrations of HCl and Dioxin are estimated for the injection of RPF. HCl in flue gas was about 10ppmv and Dioxine was 0.003ng-TEQ/Sm³ for 2.5 % co-combustion. The effect of co-combustion on SO_x, NO_x and CO in the flue gas also examined with the heavy metal compound.