



INDUSTRIAL AND ENTERPRISE GREENHOUSE GAS EMISSION DATA ANALYSIS SYSTEM

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Abstract: An Industrial and Enterprise Greenhouse Gas Emission Data Analysis System, which meets with the need of those giant energy-consuming enterprises, has been set up through a series of studies about Greenhouse gas (GHG) verification method in industries such as cement, thermal power, cogeneration, transportation, sewage treatment etc. The analysis system consists of six modules: Organization structure; Facility; Activity data input; Emission data analysis; Report generation; Parameters configure. The calculation process is based both on Emission Factor Method and Materials Balance Method, the former method realizes an easy calculation for the GHG emissions conducted from fuel combustion, electricity or steam consumption, general business and office activities, the later one provides a specialized calculation for professional production processes such as cement production, exhaust desulfurization and sewage treatment etc. A thermal boiler's GHG emission was used as a case to test the system.

Index terms: Greenhouse Gas Emission; Data Analysis system; GHG verification; Thermal power; Cement.