



THE DATA ANALYSIS SYSTEM FOR INDUSTRIAL AND ENTERPRISE GREENHOUSE GAS EMISSION

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Submitted: Mar. 10, 2013

Accepted: June 30, 2013

Published: Sep. 3, 2013

Abstract: A Data Analysis System for Industrial and Enterprise Greenhouse Gas Emission, for meeting the needs of the giant energy-consuming enterprises has been set up through a series of studies on the verification method of Greenhouse Gas (GHG) in industries such as cement, thermal power, cogeneration, transport, sewage treatment etc. The analysis system consists of six modules: Organization Structure; Facility; Activity Data Input; Emission Data Analysis; Report Generation; Parameters Configuration. The calculation process is based both on the Emission Factor Method and the Materials Balance Method; the first method performs an easy calculation for the GHG emissions released from the fuel combustion, electricity or steam consumption, general business and office activities; the last one provides a specialized calculation for the professional production processes such as cement production, exhaust desulfurization and sewage treatment etc. In order to test the system, it has been used as an example the GHG emission of a thermal boiler.

Index terms: Greenhouse Gas Emission; Data Analysis System; GHG Verification; Thermal Power; Cement.