

The Application and Development of Fly Ash in China

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ABSTRACT

Coal burning electrical power is a major power source in China. The production of coal is 2100 million tons (2.1 billion metric tons) in 2005, and more than half was used for the fuel of power stations. The production of fly ash and other coal combustion byproducts (including bottom ash) is 300 million tons a year, and the accumulative amount of fly ash has exceeded 2000 million tons (2 billion tons).

The paper presents the background of fly ash application and development in China, including the distribution of coal mines and power stations, the coal kinds and power station installations; the physical and chemical properties of fly ash, the pretreatment technology, the application fields of fly ash, especially in cement manufacturing and in concrete production. The paper illustrates the situation of fly ash application with several typical examples and discusses in detail its development.

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