

Comprehensive Application New Technique of Chinese Coal Ash and Its Development Tendency

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ABSTRACT

From the environmental protection and sustainable energy development, the paper mainly introduces the production of coal ash, its physical and chemical characters, types, new techniques and new methods of comprehensive utilization and management in china. The paper points out that the emission of Chinese coal ash reaches about 160 million tons every year. According to the property and the taking-off of the sulfur craft, the coal ash is divided into silicon-aluminum ash and calcium-sulfur ash. According to the amount of calcium it contains, the coal ash is divided into high calcium coal ash and low calcium coal ash. The comprehensive utilization of coal ash is mainly focused on the fields of the building materials, road engineering, construction engineering, agricultural application, environmental protection, fine chemical engineering and resources recovery etc. Because there is a low ration of the high-quality ash in the coal ash and the lack of the technical support, and also because the utilization ability of the section does not develop and it's difficult for the policy to carry out, the valid application of the coal ash has been negatively influenced. At the same time, the paper finally predicts that the technical development trend of the coal ash is to develop and expand the new technique of producing large quantity of high-quality ash at low cost so that the problem of environmental pollution and land occupation can be solved.

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