

# **Beneficiation of Indian High Ash Coal and its Utilisation**

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## **Abstract**

Coal, the most important fossil fuel in India, is vital for its energy security. Most of the coal reserves in India are low quality with drift origin. The quality is further deteriorated due to mechanized bulk mining and exploitation of poor quality seams. Most of the non-coking coals have high ash content varying from 40-50% or more with high near gravity materials. The conventional method of utilisation of high ash coal for power generation has adverse effect on environment. The large quantity of carbon dioxide is produced by burning of coal in power as well as other sectors. The major quantity of non-coking coal cannot be used directly for metallurgical purposes. It is the need of hour to beneficiate the high ash coal using advance processes before its utilisation. In this paper, the quality of Indian coal, its reserves, categories and possibility of up-gradation using both dry and wet methods and its utilisation in different sectors are highlighted.