

Title: Coal-Gangue Disposal Scheme in Yulin-City, China
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ABSTRACT

The rapid development of the coal industry has brought a series of environmental impacts to Yulin city. The biggest factor causing environmental pollution lies in the long-term stacking and unreasonable utilization of coal gangue. As a kind of a solid waste of the coal mining industry, coal gangue is discharged from mining areas in Yulin, reaching at least 10 million tons annually, with an annual increase of 10%-15%. Coal gangue is stacked as a common way of treatment in Yulin. However, other utilization means of coal gangue have not been developed, such as reasonable landfill, production of cement and other building materials, road building, fuel for power generation, mining and dressing of associated minerals, production of organic fertilizers, etc. Urgently, Yulin must solve such an issue as how to consume the massive amount of coal gangue, in line with the requirements of developing a circular economy in coal mining areas and realizing the sustainable development of mining production.

This paper analyzes the physical and chemical properties, compositional characteristics, and main petrographic composition of coal gangue, studies and discusses the ecological disposal and comprehensive utilization means of coal gangue,

and further proposes a proper underground disposal approach of coal gangue based on the actual situation of coal gangue in Yulin, which opens up a new path for ecological disposal and utilization of coal gangue in Yulin and building a prosperous and strong new Yulin with beautiful ecological environment and harmonious society.

Keywords: coal gangue; technical disposal; filling process; comprehensive utilization

