

ENVIRONMENTAL SAFETY OF MINE WASTELAND REMEDIAION IN CHINA

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Abstract

China has a relatively complete range of mineral resources, continuously rich geological resources and in-depth social services. Mine ecological restoration and green development have been steadily promoted, and new progress has been made in the construction of ecological civilization in the mining sector. Promoting mine ecological restoration and treatment will still be an important environmental treatment issue in the future. In this work, methods of environment restoration for mine wastelands are analyzed.

Keywords: environment, pollution, ecological restoration, mining, mine wasteland

Introduction

Mineral resources are indispensable natural resources for human survival. People's mining and development of mining areas release a large number of pollutants, resulting in man-made pollution. In the past 10 years, with the development of science and technology and the unprecedented large-scale mining of mineral resources, the problem of mine pollution has become increasingly serious, and many disadvantages of development have emerged. The initial concern for economic interests has caused serious damage to the ecological environment, forcing us to reflect on the ecological environment and pay attention to the important role of the ecological environment in development. Therefore, after mining, how to effectively repair the mine and how to play the value of the remaining mine is a problem worth pondering.

Results

China is rich in vast territory and natural resources [1]. Mineral resources are an important part of natural resources and an important energy source to promote the development of human society. With the rapid development of social economy, the mining of mineral resources is increasingly intense, which has caused serious damage to the ecological environment of the mining area, and even buried a huge hidden danger to the regional ecological security [2]. In the face of increasingly fierce market competition, enterprises can survive and develop only by accelerating the pace of information construction, especially in the case of the increasing popularity of e-commerce, enterprises that do not participate in online business will lose a lot of business opportunities or even have no business. In the national informatization plan formulated by our country, the informatization of the national economy includes two parts: information enterprise and enterprise informatization. Obviously, enterprise informatization is in a fundamental position in the informatization of the national economy.

Smart mine safety management is one of the key requirements and core paths of smart mine construction. From the perspective of safety standards, mine safety management. The connotation of is the management activity based on safety standards. The improvement of safety management level of smart mines needs to rely on the guidance, specification and guarantee of safety standards. Therefore, the research on safety management of smart mines based on standards is of great value. Based on the construction background and current situation of smart mines, this paper first analyzes the implementation path and cycle process of standards based smart mine safety management, which is mainly composed of four closed-loop paths: safety analysis, safety prediction, safety decision-making and safety implementation, and is supported by the safety standard cycle to ensure its orderly operation; On this basis, the paper organically integrates the mine safety management activities with the mine safety standard system, builds a standard based intelligent mine safety management model, and uses the mine safety standards to guide the safety management of coal mining, tunneling, electromechanical, transportation and ventilation in intelligent mines based on the whole life cycle [3]. Finally, based on the system theory, build a smart mine safety management system from the perspective of standards, which is formed from the technical subsystem of smart mine deployment and construction model, specifically divided into smart mine safety big data subsystem Smart mine safety standard subsystem,

three subsystems of mine safety management subsystem or smart mine safety big data management layer, smart mine safety big data planning and deployment layer, smart mine safety big data infrastructure layer, smart mine safety standard content layer, smart mine safety standard platform layer, smart mine safety standard path layer, smart mine safety analysis layer, smart mine safety prediction layer Smart mine safety decision-making layer and smart mine.

Conclusion

The ecological restoration and management of mines will still be an important environmental governance issue in the future. Respecting history, fearing nature, adapting measures to local conditions, and implementing policies based on mines, and gradually promoting the construction of a long-term mechanism led by the government and participated in by multiple factors are the inevitable choice to promote the ecological restoration and management of mines in China. In general, the realization of the value of ecological products relying on the ecological restoration of mines in China is still at the initial stage. In further practice, the government departments, mining enterprises and other market entities need to work together to strengthen the top-level design on the basis of fully considering the characteristics of natural resources in the mine and the region where the mine is located, social and economic development conditions, and constantly improve the evaluation system and institutional system for the achievement of the value of mine ecological products, We will fully stimulate the vitality and creativity of investors and promote the orderly, qualitative and effective transformation of mining resources into assets, capital and funds.

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