

# Power plant boiler slag discharge by wind



## Overview

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The random forest algorithm was applied to the dry slag discharge control system in power plants to enable intelligent control of thermal slag transportation, discharge, and damper adjustment devices in boiler systems. Slagging on boiler furnaces (or between furnace and real pass) is a specific phenomenon that results in large corrective maintenance actions. Slag. The application discloses a slag cooling mechanism of a power plant boiler, which relates to the technical field of boiler slag, and comprises a slag extractor shell, a water pipe and a temperature sensing device, wherein the water pipe is arranged at one side of the slag extractor shell, and the. Wall slag is the molten slag that builds up on the furnace walls. Wall slag is shed naturally as boilers cycle through their load range. Based on the theory of cooling air volume calculation, the relationships among. Based on the analysis on work mechanism of dry slag discharge system and the theory of computational heat transfer, this paper uses numerical calculation method to build the model of heat transfer between slags and air, packages the model in dynamic chained library for being called by visualization.

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### Coal Bottom Ash/Boiler Slag

The physical properties of coal bottom ash, boiler slag, and ponded ash will vary depending on the type, source, and fineness of the parent fuel, as well as the operating conditions of the power plant;

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### Intelligent Control of the Dry Slag Discharge System in Power Plants

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### Slagging and Fouling , airborne clean energy

Slag buildup around burners can occur, blocking the coal flow into the furnace. This can result in combustion taking place behind the burner, causing damage to the burner, wind box, and coal pipe.

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## CN116792767A

FIG. 2 is a connecting structure diagram of a connecting pipe, a supporting rod and a water level cylinder of a slag cooling mechanism of a boiler of a power plant.

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## Visualization of the heat transfer character of dry slag discharge ...

The research in this paper offers a new approach for the research on safe operation and heat transfer character of dry slag discharge system of the boiler in power plant.

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## Influence of Coal Quality and Boiler Operating Conditions on ...

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Slag buildup around the burner regions, called eyebrows, interferes with the coal and air flow. This type of buildup can cause damage to the burners, among other things.

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## OG Generation case studies

Previously the utility had retrofitted their



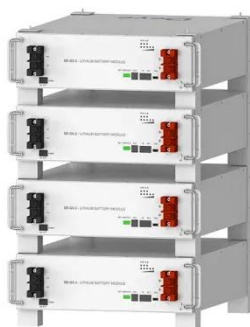
coal power plants to reduce the carbon footprint while improving/maintaining the efficiency. Going forward, the utility wanted to explore algorithms that ...

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## Improvement of slagging monitoring and soot-blowing of waterwall in a

Nevertheless, due to the lack of direct measurement for the slagging degree in the furnace, the scheduled and quantitative soot-blowing strategies are empirically developed in most coal-fired ...

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