

How does coal price prediction work in open-pit mining?

By combining the coal price prediction results with the boundary optimization problem, the final mining boundary of the open-pit mine is dynamically adjusted according to the coal price fluctuation trend, and the risk of the preset profit index deviating from the actual scene is effectively dealt with.

How is the coal price trend predicted?

The uncertainty of economic indicators is introduced into the block model, and finally the medium and long-term boundary optimization problem is expressed as a two-stage mixed integer problem. The coal price data from 2010 to 2020 are collected, and the trend of coal prices is predicted by means of econometric methods.

Do coal prices influence the production capacity of open-pit mines?

Based on the above analysis, it is believed that coal prices have a regulatory mechanism on the production capacity of open-pit mines, i.e., changes in coal prices will guide the adjustment of production capacity by coal mining enterprises.

How did China's coal price change from 2010 to 2020?

Data show that from 2010 to 2020, the coal price experienced four ups and downs. From the middle of 2010 to the end of 2011, the rapid development of China's social economy greatly stimulated the demand for coal and brought about the continuous growth of coal industry output and price.

How do nested pits fit the coal price fluctuation trend?

Using the widely applied block model as the basis, a set of optimal production nested pits is obtained, allowing the realm design results to fit the coal price fluctuation trend and further enhance enterprise efficiency.

Can open-pit mining production capacity increase profits?

The optimal values of the penalty factor and kernel function parameter of the LSSVR model are selected by ISSA, and the model prediction results are applied to the prediction of coal price. Based on the research on the trend of coal prices, timely adjustment of open-pit mining production capacity to increase profits is theoretically feasible.

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The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed

in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for differences in the cost of living between ...

"Utility PV solar has emerged in 2023 as the cheapest power source in the region, while onshore wind is expected to become cheaper than coal after 2025," Alex Whitworth, VP - head of Asia...

Open-pit mining is an important form of coal mining in China, and its damage to the ecological environment is particularly obvious in alpine regions. The ecological restoration of alpine open-pit coal mines faces severe challenges, and its restoration effect will directly affect the ecological security of China. Meanwhile, comprehensive and system-oriented evaluation of ...

Forecasted global coal reserves, prices, electricity, carbon emissions and phase-out. A global, regional and country wise carbonization and decarbonization plan is discussed. Deploying ...

A dynamic optimization method was created to address the production schedule issue in an open-pit coal mine while taking into account the characteristics of the fuzzy structured element.

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Forecasted global coal reserves, prices, electricity, carbon emissions and phase-out. A global, regional and country wise carbonization and decarbonization plan is discussed. Deploying renewable energy or carbon capture technologies after 2025 vary by country to country. A policy is developed for the implementation of Paris Agreement.

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The average cost per unit of energy generated across the lifetime of a new power plant. This data is expressed in US dollars per kilowatt-hour. It is adjusted for inflation but does not account for differences in the cost of living between countries.

In this study, a solar-powered multipoint network monitoring method was used to record dust-particle concentrations and meteorological indicators in the Anjialing open-pit coal mine in the Pingshuo mining area. The factors influencing the concentrations of particulate matter of different maximum diameters (PM2.5, PM10, and total suspended particulates; TSPs) and ...

The price of raw coal has gone up and down twice, with an average price of 285.85 yuan and a significant

variation in price, according to the shifting pattern of the coal ...

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The price of raw coal has gone up and down twice, with an average price of 285.85 yuan and a significant variation in price, according to the shifting pattern of the coal price series. The open-pit mine's final mining boundary is dynamically changed in accordance with the price trend for coal. In Fig 11(B), the adjustment diagram ...

Using coal prices as an example, this article applies the predicted coal price curve to boundary optimization adjustments by specifying the "achievement degree" ...

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