

Mine energy storage prospect analysis and design plan

Can underground space energy storage technology be used in abandoned coal mines?

The underground space resources of abandoned coal mines in China are quite abundant, and the research and development of underground space energy storage technology in coal mines have many benefits.

Can pumped storage be used in abandoned mines?

Many countries in the world have already begun to study the pumped storage of underground reservoirs in abandoned mines. For example, in 2011, the Niedersachsen State Energy Research Institute in Germany planned to use the Grund abandoned gold mine roadway in Upper Harz region to build an all-underground pumped storage power station .

How to ensure safe operation of coal mine energy storage facilities?

(1) Establish strict environmental protection standards and emission limits to ensure that coal mine energy storage facilities do not have a negative impact on the environment. (2) Establish a safety supervision mechanism to ensure the safe operation of coal mine energy storage facilities, and formulate necessary safety standards and norms.

Can a pumped storage power plant improve a coal mine's Peak regulation mode?

The construction of a pumped storage power plant within an underground coal mine has the potential to improve the power system's peak regulation mode as well, but also solve the contradiction between energy and load. Although it is a novel approach, there are still some dangerous obstacles to overcome before garbage can be used effectively.

How to promote coal mine energy storage?

(3) Provide financial incentives, such as subsidies, tax breaks and investment incentives, to attract investors to participate in coal mine energy storage projects. (4) Support technological innovation and R & D to promote the application and commercialization of new technologies in the field of coal mine energy storage.

Is underground space energy storage a promising energy storage technology?

In summary, we believe that among the existing energy storage technologies, underground space energy storage has become one of the most promising energy storage technologies in the future because it can achieve large-scale economic and stable storage of energy.



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