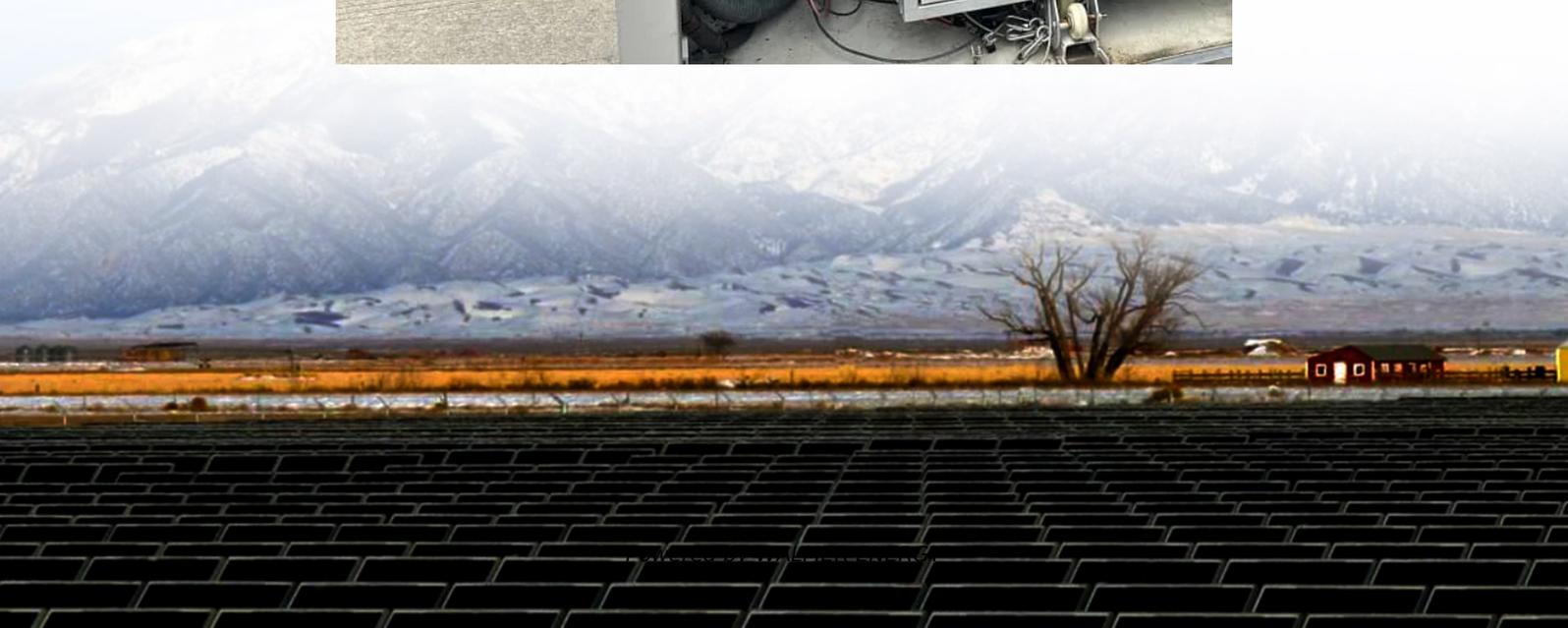


# Central Asia Coal Mine Energy Storage Project





## Overview

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A significant percentage of renewable energy is connected to the grid but of the time-space imbalance of renewable energy, that raises the need for energy storage technologies. Therefore, energy storage.

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.

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.

How many m<sup>3</sup> underground space will China's coal mines provide?

Relevant research shows that from 2016 to 2020, closed mines will have provided about 80 M m<sup>3</sup> underground space. At the same time, China's coal mining destroys about 6 billion tons of groundwater every year on average, and the utilization rate is only 25 %.

What is coal underground space electrochemical energy storage?

6.1. CUEES concept and technical requirements Coal Underground space Electrochemical Energy Storage (CUEES) makes full use of the underground space of coal mining to store or release electrical energy (various types of batteries) through reversible chemical reactions, so as to achieve efficient use of electrical energy, as shown in Fig. 20 .



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