

The price of abandoned electricity for energy storage





Overview

Can abandoned mines be used for energy storage?

Closed mines can be used for the implementation of plants of energy generation with low environmental impact. This paper explores the use of abandoned mines for Underground Pumped Hydroelectric Energy Storage (UPHES), Compressed Air Energy Storage (CAES) plants and geothermal applications.

How can abandoned mine facilities be used to generate energy?

Finally, a CAES plant could be established, using the upper mine galleries for underground air storage; the fact that Lieres is a “dry mine” is ideal for this type of system. Thus, the abandoned mine facilities are efficiently used to generate both electrical and thermal renewable energy. Fig. 5.

Are battery electricity storage systems a good investment?

Like solar photovoltaic (PV) panels a decade earlier, battery electricity storage systems offer enormous deployment and cost-reduction potential, according to this study by the International Renewable Energy Agency (IRENA).

What are the patterns of energy storage in abandoned mines?

The patterns of energy storage in underground space of abandoned mines include mainly pumped hydro storage (PHS) and compressed air energy storage (CAES) [, ,].



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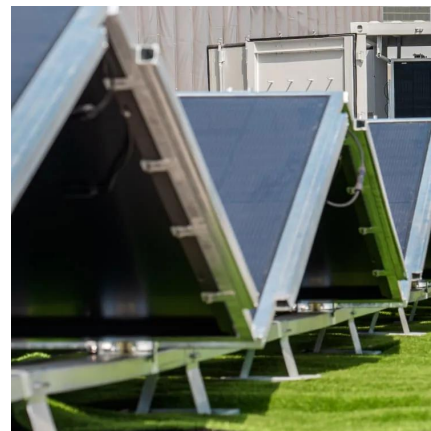
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