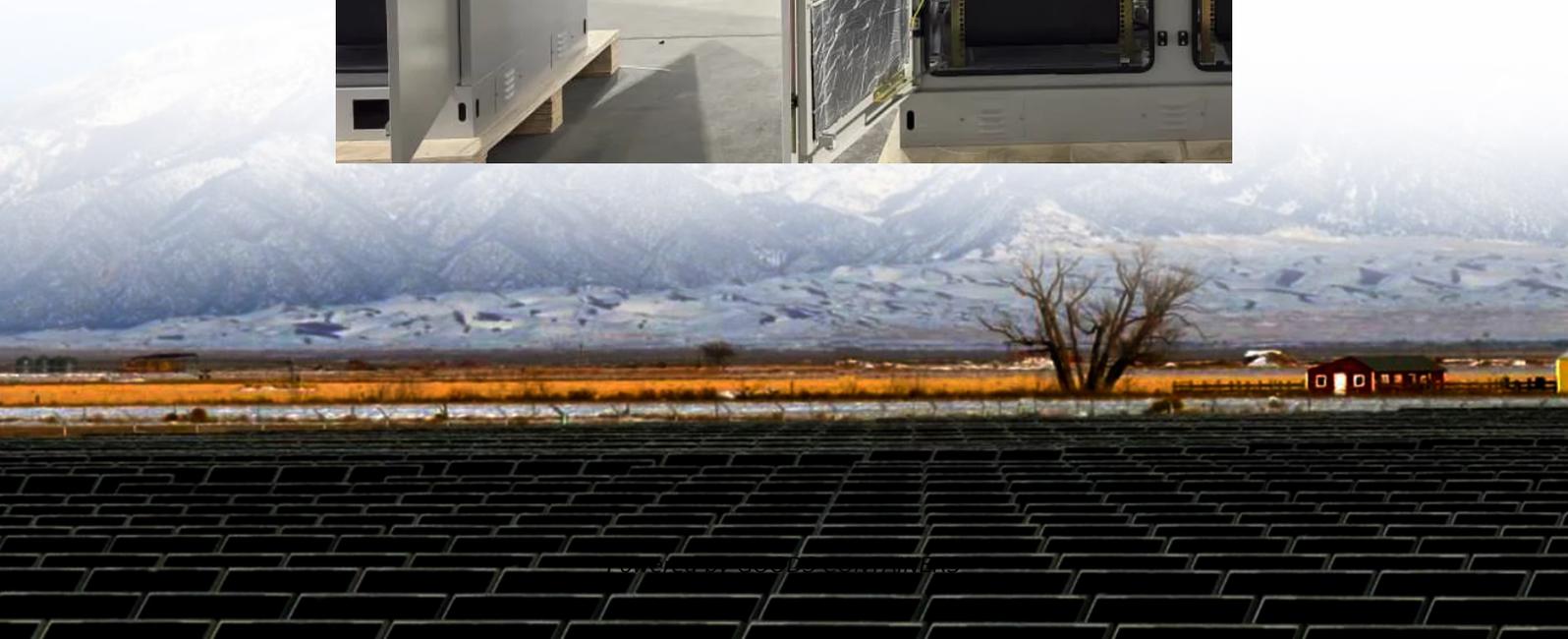


New Delhi greenhouse solar power generation energy storage pump





Overview

Can pumped storage power plants help India achieve net-zero emissions?

India aims to achieve net-zero emissions by 2070, with an interim target of 50% renewable energy by 2030. As pumped storage power plants could be a key technology for India's renewable energy future, the Ministry of Power, Government of India has issued guidelines for their introduction in 2023.

Will India expand pumped storage hydropower by 2032?

India is gearing up for a massive expansion of pumped storage hydropower, with Greenko, Adani Green, and JSW Energy leading the charge. These three private players will together develop nearly two-thirds of the country's projected 51.24 GW pumped storage capacity by 2032, as per new data from the Central Electricity Authority (CEA).

Are pumped storage hydro plants a cost-effective option for grid storage in India?

As PSPs are a cost-effective option for grid storage in India, storage may be developed through PSPs. This Report traces the growth and status of pumped storage hydro plants in the world and India. Abandoned mine shafts in some of the countries fulfil the requirement of second reservoir for these plants.

Can pumped storage power plants meet future energy demand?

Pumped storage power plants have already proven to be the most sustainable source of energy storage, making an important contribution to a clean energy future. In India in particular, pumped storage technology will play an important role in meeting future energy demand. India is currently building several large, pumped storage power stations.



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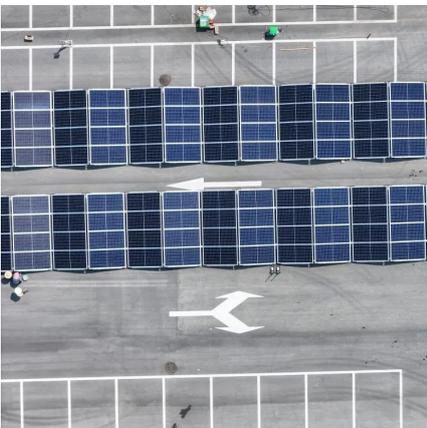
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