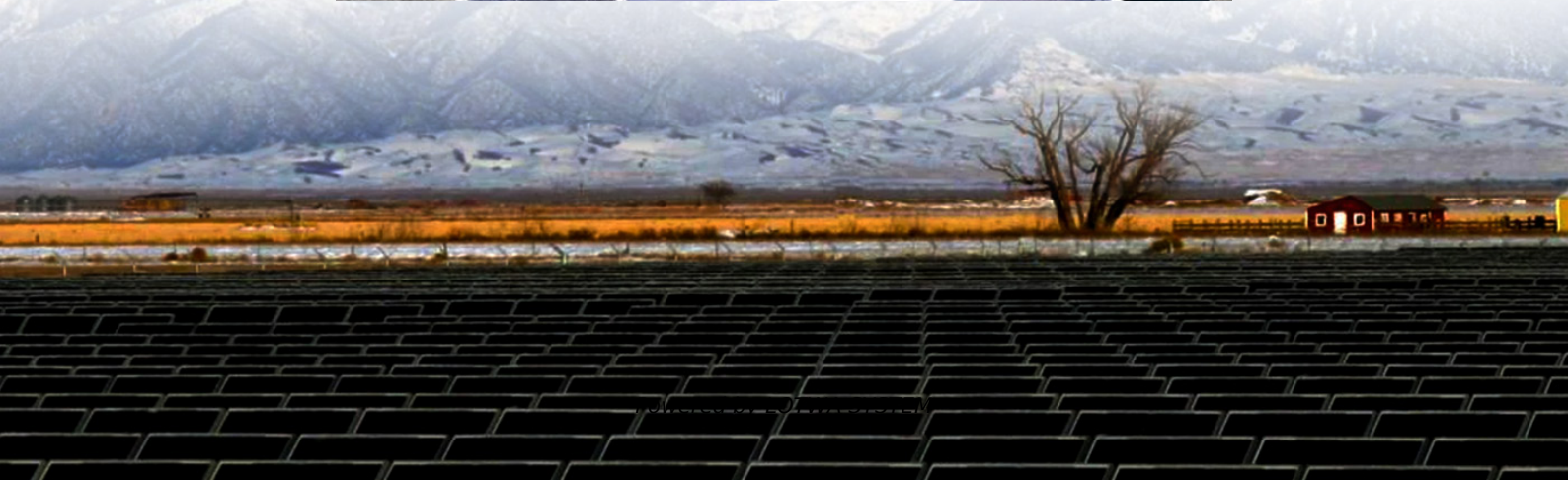


Rare solar solar container energy storage system in New Delhi





Overview

Is solar PV a cost-competitive option in India?

As compared to the conventional sources of energy, solar PV when integrated with battery storage is a cost-competitive option. This trend is expected to continue in India. India's commitment to a sustainable energy future is evident through its multifaceted approach to battery energy storage.

Does India need a battery storage system?

At present, to support the country's energy target by 2030 and simultaneously, balance the grid with the rising penetration of renewables in the energy mix, India requires an advanced battery storage ecosystem with over 238 GWh of capacity. However, the viability of the energy storage system ecosystem remains pegged to the capital cost of the BESS.

Is energy storage a viable option in India?

However, the viability of the energy storage system ecosystem remains pegged to the capital cost of the BESS. As compared to the conventional sources of energy, solar PV when integrated with battery storage is a cost-competitive option. This trend is expected to continue in India.

How much does energy storage cost in India?

Overall, the levelised cost of energy storage is now INR 6-7 per kWh – a sharp decline from INR 8-9 per kWh in 2022. A report by the International Energy Agency (IEA) underscores a strong growth in the utility-scale battery storage market, with solar PV modules and battery storage becoming the backbone of the country's power grid by 2050.



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