

Cost of station-type solar container energy storage system in India





Overview

How much would energy storage cost in India by 2030?

By 2030, the LCOS for standalone BESS system would be Rs 4.1/kWh and that for co-located system would be Rs 3.8/kWh. This implies that adding diurnal flexibility to ~20-25% of the RE generation would cost an additional Rs 0.7-0.8/kWh by 2030. What is the value of energy storage in India?

How would it be dispatched?

How much storage is required?

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Are stationary energy storage systems feasible in India?

e in India for behind-the-meter (BtM) applications. The levelised cost of storage is an important financial parameter indicating the feasibility of energy storage systems. While 12 different core services/applications of stationary energy storage can be identified in the power sector (Schmidt et al. 2019), we focus only on two of these applica.

How much does a battery storage system cost in India?

In another report, the Energy Transitions Commission (ETC) projects that the levelized cost of storage systems in India will reduce from \$0.41 (~₹30.8)/kWh in 2018 to \$0.17 (~₹12.8)/kWh in 2030. The report adopts a two-pronged approach to estimate the cost of Li-ion based MW scale battery storage systems in India.

How much does a solar system cost in India?

The report further states that the additional per-unit cost for a solar project with a storage system in India will be ₹1.44/kWh (\$0.02/kWh) in 2020, ₹1.02 (\$0.014)/kWh in 2025, and ₹0.83 (\$0.01)/kWh in 2030.



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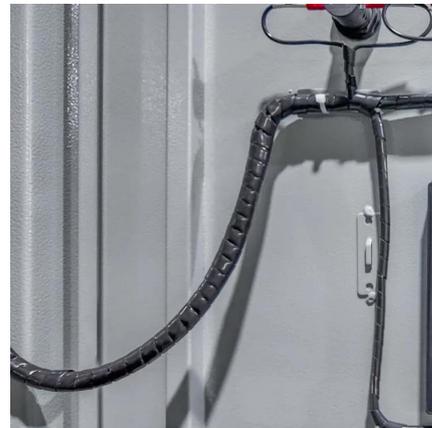


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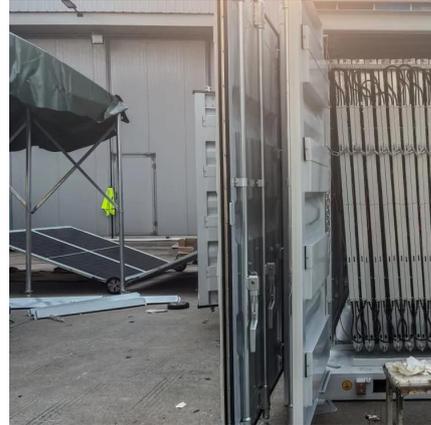
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