

# Does New Delhi's solar power generation need energy storage





## Overview

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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.

What is the solar potential of India?

The National Institute of Solar Energy (NISE), an autonomous institute under Ministry of New & Renewable Energy, Government of India has estimated the total solar potential of India of about 750 GW.<sup>35</sup> Among the various renewable energy resources, solar energy potential is the highest in the country.

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.

How will Delhi use the energy budget for 2023-24?

Delhi must use the Rs33.48 billion (US\$407 million) allotted to the energy sector in its budget for 2023-24 to aggressively pursue solar power targets, promote sustainable practices in various sectors and participate more in green electricity markets.



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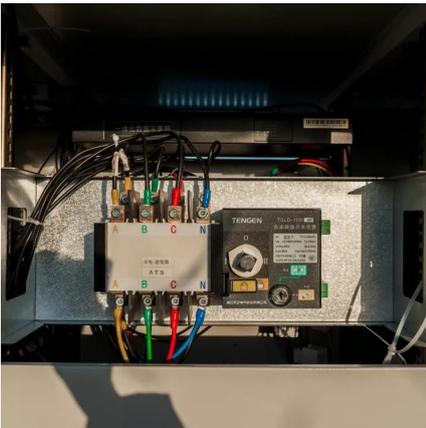
## Solar Energy Statistics Delhi 2025 , Latest Capacity & Growth ...

Explore Delhi's 2025 solar energy statistics--installed capacity, rooftop growth, annual generation, challenges, and insights for consumers and developers.



### [Energy Storage for Renewable Energy Integration in India](#)

Objective The objective of the project is to advance India's transition to renewable energy and to contribute to its climate targets by addressing challenges associated with ...



### [A Greener Capital: Delhi's solar, WtE and EV ...](#)

Apart from solar, WtE and EVs, Delhi is exploring clean energy options such as battery energy storage systems (BESS), hybrid and hydro power. In April 2025, IndiGrid announced the commissioning of India's ...



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Additionally, some energy storage will be needed in the North-Eastern region to integrate local solar generation and reduce the need for new transmission infrastructure.



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