



Expected ROI of rooftop solar storage project in India 2030

How much solar energy will India have by 2030?

Solar and wind are expected to carry most of the load. India has committed to 500 GW of renewable energy capacity by 2030, with 280 GW solar and 140 GW wind. Solar has expanded at an annual rate of 36.5 per cent over the past decade, supported by initiatives such as the Solar Parks Programme and rooftop solar schemes.

Why is rooftop solar important in India?

The growth of the decentralised energy market in India (of which rooftop solar is a crucial component) will be critical to unlocking energy independence and ensuring energy security. With 8-10GW annual solar installation targeted under PMSGY, it will contribute immensely to India reaching its overall renewable energy target of 500GW by 2030.

Does India's rooftop solar adoption lag?

In contrast, India's rooftop solar adoption lags significantly. As of January 2025, only 16.28 GW of India's 100.33 GW total solar capacity comes from rooftop installations. Given India's vast commercial, industrial, and residential rooftops, there is immense potential to bridge this gap.

Is rooftop solar a key component of India's Green Energy Strategy?

According to a report by CareEdge Ratings, rooftop solar is expected to play a pivotal role in the growth of the country's commercial and industrial segments in the coming days. Driven by the country's larger energy transition ambitions, rooftop solar is rapidly emerging as a vital component of India's green energy strategy.

How well is India tapping its rooftop solar potential?

Rooftop solar (RTS) has the potential to revolutionise India's energy landscape, offering a sustainable, decentralised, and affordable solution to meet the country's growing electricity needs and making consumers self-reliant.

What is India solar rooftop market report?

The India Solar Rooftop Market Report is Segmented by End User (Commercial, Industrial, and Residential) and Grid Type (On-Grid and Off-Grid). The Market Sizes and Forecasts are Provided in Terms of Installed Capacity for all the Above Segments. Image © Mordor Intelligence. Reuse requires attribution under CC BY 4.0. Image © Mordor Intelligence.

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