

# **Successful bid price of rooftop solar storage project in India 2030**





## Overview

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Recent energy storage auctions in India reveal record-low prices, with unsubsidized standalone battery storage bids at 2.8 lacs/MW/month and solar+storage bids at 3.1–3.5 INR/kWh. Our analysis, based on implied solar and storage costs from these bids and bottom-up global cost estimates, shows that a.

The Indian government mandates future solar project tenders to include energy storage systems with a minimum of two hours of storage capacity, ensuring grid stability. This initiative, aligned with India's 2030 renewable energy goals, aims to deploy approximately 14 GW of storage-backed solar.

As of March 31, 2025, the country had commissioned nearly 85.6 GW of utility-scale solar capacity, with another 68.2 GW in the pipeline following completed auctions. This puts India's total installed solar capacity, when factoring in rooftop and other segments, on track to reach approximately 116.

An increasing cost of conventional electricity, a spurring demand for renewable energy driven by the government's supportive subsidies and net metering policies, and growing adoption of advancements in solar technology enhancing efficiency and affordability are expected to drive the India Solar.

For India to achieve its 600 GW clean energy goal, rooftop solar must become a national priority. By learning from global success stories, addressing financial barriers, and implementing robust policies, India can unlock the full potential of decentralised solar energy. India's energy landscape is.

The market is expected to grow at a CAGR of 33% from FY25 to FY27, with the



total installed rooftop capacity projected to grow from 17 GW in FY25 to ~30 GW by FY27. Gujarat and Maharashtra together account for nearly 41% and 23% share, respectively, in the total installed capacity for rooftop. How big is India solar rooftop market?

India Solar Rooftop Market – Industry Trends & Forecast Report, 2030 The India Solar Rooftop Market size was estimated at USD 5.23 billion in 2023. During the forecast period between 2024 and 2030, the India Solar Rooftop Market size is projected to grow at a CAGR of 7.88% reaching a value of USD 6.19 billion by 2030.

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.

Which region has the highest share in India solar rooftop market?

Geographically, the India Solar Rooftop Market is divided into North India, South India, East India, and West India regions. South India region holds the highest share in the India Solar Rooftop Market. It is primarily driven by its substantial solar and wind energy potential.

Will India's rooftops become a solar resource?

The central government's plan to transform India's rooftops into a vast solar resource to secure the nation's energy independence is as laudable as it is ambitious. However, rooftop solar installation progress in the residential segment was slow. That was until the launch of PMSGY in February 2024.

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.

Will Apple invest in solar rooftop projects in India?

In April 2024 - Apple revealed its plans to collaborate with CleanMax, a



renewable energy developer, to invest in six Solar Rooftop projects in India. These projects, with a combined capacity of 14.4 MW, aim to power Apple's facilities, including offices and retail stores in Mumbai and New Delhi, once operational.



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### India's Solar Landscape Shifts with Storage, Rooftop, and ...

"Rooftop solar in India has crossed 11.1 GW as of mid-2025, with Gujarat, Maharashtra, and Uttar Pradesh among the top contributors," said Pratik Mandvia, solar ...

### New solar projects to have two-hour energy storage systems

This initiative, aligned with India's 2030 renewable energy goals, aims to deploy approximately 14 GW of storage-backed solar projects, benefiting from declining battery prices.



### Solar projects in India: Opportunities and challenges

India stands at a transformative juncture in its energy journey, with solar power playing a pivotal role in shaping a sustainable and self-reliant future. As the world's third ...

### India Achieves 100 GW Solar Power Capacity, On Track For 2030 ...

In 2014, the country had a limited solar module production capacity of just 2 GW. Over the past decade, this has surged to 60 GW in 2024, establishing India as a global leader ...



### India's Renewable Energy Boom: The Power of Solar ...

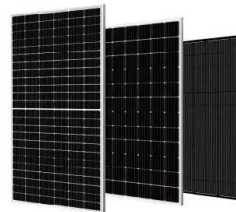
In 2024, it has slightly increased, to 46.9 GW, reflecting a steady but gradual expansion in hydropower infrastructure. The forecast for 2030 shows a notable rise to 70.0 GW, underscoring India's commitment to enhancing its renewable

...



### India's rooftop solar revolution gets a timely boost ...

It is the ideal time to invest in household rooftop solar: module prices have dropped, there is strong government support and financiers are willing to back rooftop solar projects.



### Unleashing the Residential Rooftop Solar Potential

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. ...





## India's Rooftop Solar Market to reach 25-30 GW by FY27

India's rooftop solar market is on a robust growth trajectory, driven by increasing energy costs, supportive government policies, and growing corporate commitments toward sustainability.



## [Roadmap for India: 2019-2032](#)

In order to support the energy storage mission of the Government of India, ISGF initiated preparation of an Energy Storage Roadmap for India 2019 - 2032 in association with India ...

## India mandates co-locating energy storage with solar projects

India is targeting non-fossil fuel capacity of 500 GW by 2030. To achieve this goal, the capacity of variable renewable energy sources such as solar and wind needs to be ...



## Solar projects in India: Opportunities and challenges

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### India Mandates Energy Storage for Future Solar Projects

The implementation of energy storage systems is projected to enable the deployment of approximately 14 GW/28 GWh of storage-backed solar projects by 2030. This aligns with India's ambitious target of achieving 500 GW ...



### India Solar Rooftop Market Size, Share & Demand Analysis 2030 ...

During the forecast period between 2024 and 2030, the India Solar Rooftop Market size is projected to grow at a CAGR of 7.88% reaching a value of USD 6.19 billion by 2030.

### Solar rooftop in India shifting gears: From laggard to ...

The government's announcement of new schemes and infusion of capital will give a fillip and help India transform from a laggard to a leader in solar rooftop adoption.



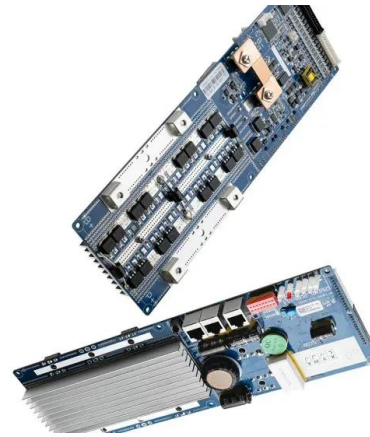
### 2030 Target No Longer Bold Enough, Look Beyond ...

India's pledge to install 500 GW of non-fossil energy by 2030 was hailed as bold and transformational when announced at COP26 in 2021. However, this target is no longer sufficiently ambitious compared to what the ...



### India Mandates Energy Storage for Solar Projects to Boost Grid ...

India's Power Ministry has issued an advisory requiring new solar power projects to incorporate energy storage systems to enhance grid stability and reduce power ...



### India's Renewable Energy Boom: The Power of Solar and Beyond

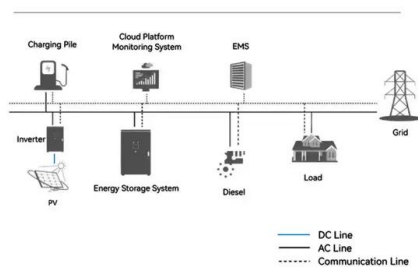
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### India Achieves 100 GW Solar Power Capacity, On ...

In 2014, the country had a limited solar module production capacity of just 2 GW. Over the past decade, this has surged to 60 GW in 2024, establishing India as a global leader in solar manufacturing. With continued ...



#### System Topology



### Solar rooftop in India shifting gears: From laggard to leader

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### The Future of Solar Energy Storage: India's Bid for 6,000 MW ...

Major tender: India has launched a tender for 6,000 MW of renewable energy projects with storage. This project will help provide a stable power supply during peak hours.



### REMCL Floats Tender for 1.25 MW Rooftop Solar Projects in ...

Successful bidders must use solar modules manufactured in India. Bidders must have completed similar work of rooftop or ground-mounted solar projects as an engineering, ...



### Rooftop Solar in India's Energy Sector

For Prelims: India's rooftop solar (RTS), India's energy sector, photovoltaic panels Council on Energy, Environment and Water (CEEW), Ministry of New and Renewable Energy (MNRE), fossil fuels and energy imports, PM Surya Ghar ...



### India Rooftop Solar PV Market Size and Forecasts 2030

The India Rooftop Solar Photovoltaic (PV) Market focuses on the installation, operation, and maintenance of solar PV systems mounted on rooftops of residential, ...





### **India Achieves 850,000 Rooftop Solar Installations under PM ...**

India's PM-Surya Ghar initiative, which has already installed 850,000 rooftops, has made significant progress towards powering 10 million households with solar energy.



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