



PM Surya Ghar: Muft Bijli Yojana

Targeting 1 Crore Solar Installations by 2027

(Ministry of New and Renewable Energy)

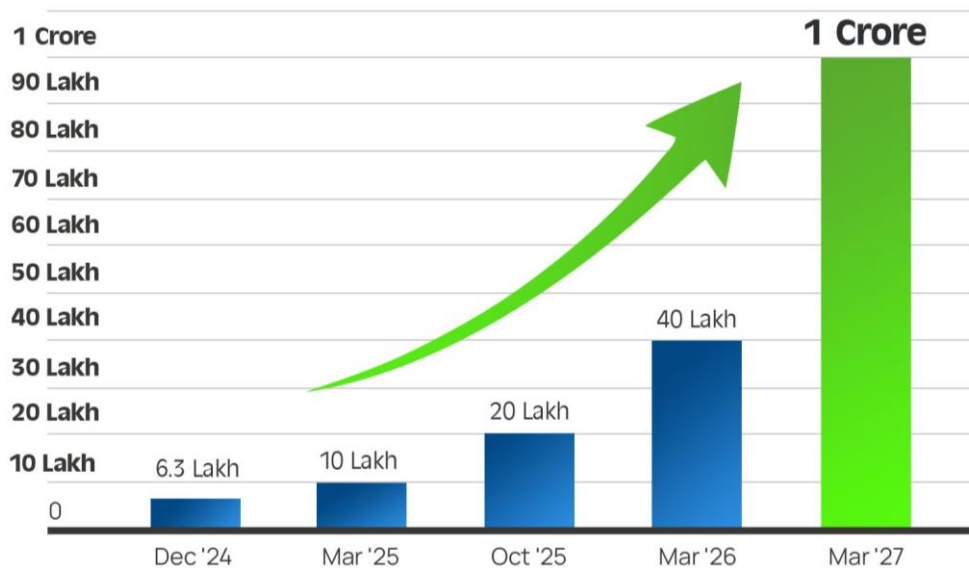
December 5, 2024

Introduction

The PM Surya Ghar: Muft Bijli Yojana, the world's largest domestic rooftop solar initiative, is transforming India's energy landscape with a bold vision to supply solar power to one crore households by March 2027. By March 2025, installations under the scheme are expected to exceed 10 lakh, with the numbers doubling to 20 lakh by October 2025, reaching 40 lakh by March 2026, and ultimately achieving the target of one crore by March 2027. Launched by Prime Minister Narendra Modi on 15 February 2024, this groundbreaking initiative aims to provide free electricity to households by facilitating the installation of rooftop solar panels.

The scheme offers a subsidy of up to 40 percent to households, making renewable energy more affordable and accessible. In just nine months, 6.3 lakh installations have been completed, resulting in an impressive monthly installation rate of 70,000, ten times higher than the pre-scheme average. With a goal to benefit one crore households, the program is also expected to save the government ₹75,000 crores annually in electricity costs. This transformative initiative empowers millions to adopt clean energy, reinforcing India's commitment to sustainable development and energy innovation.

Projected Growth in Installations under PM Surya Ghar: Muft Bijli Yojana



Source: <https://pib.gov.in/PressReleasePage.aspx?PRID=2080833>

Key Benefits

The PM Surya Ghar: Muft Bijli Yojana offers several significant benefits to participating households:

- ❖ **Free Electricity for Households:** The scheme provides households with free electricity through the installation of subsidized rooftop solar panels, significantly reducing their energy costs.
- ❖ **Reduced Electricity Costs for the Government:** By promoting the widespread use of solar power, the scheme is expected to save the government an estimated ₹75,000 crore annually in electricity costs.
- ❖ **Increased Use of Renewable Energy:** The scheme encourages the adoption of renewable energy sources, contributing to a more sustainable and environmentally friendly energy mix in India.
- ❖ **Reduced Carbon Emissions:** The transition to solar energy under this scheme will help lower carbon emissions, supporting India's commitment to reducing its carbon footprint.


Subsidy Details

The subsidy provided under the scheme varies based on the household's average monthly electricity consumption and the corresponding suitable rooftop solar plant capacity:

Average Monthly Electricity Consumption (units)	Suitable Rooftop Solar Plant Capacity	Subsidy Support
0-150	1-2 kW	₹ 30,000/- to ₹ 60,000/-
150-300	2-3 kW	₹ 60,000/- to ₹ 78,000/-
> 300	Above 3 kW	₹ 78,000/-





Subsidy Application and Vendor Selection: Households can apply for the subsidy through the [National Portal](#), where they can also select a suitable vendor for installing rooftop solar. The National Portal will assist in decision-making by providing information on appropriate system sizes, a benefits calculator, vendor ratings, and other relevant details.


Collateral-Free Loans: Households will have access to collateral-free, low-interest loans at around 7% interest for the installation of residential rooftop solar (RTS) systems up to 3 kW.



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Muft Bijli Yojana

-  **Free electricity** for households.
-  Reduced **electricity costs** for the government.
-  Increased use of **renewable energy**.
-  Reduced **carbon emissions**.



Eligibility

The household must be an Indian citizen.

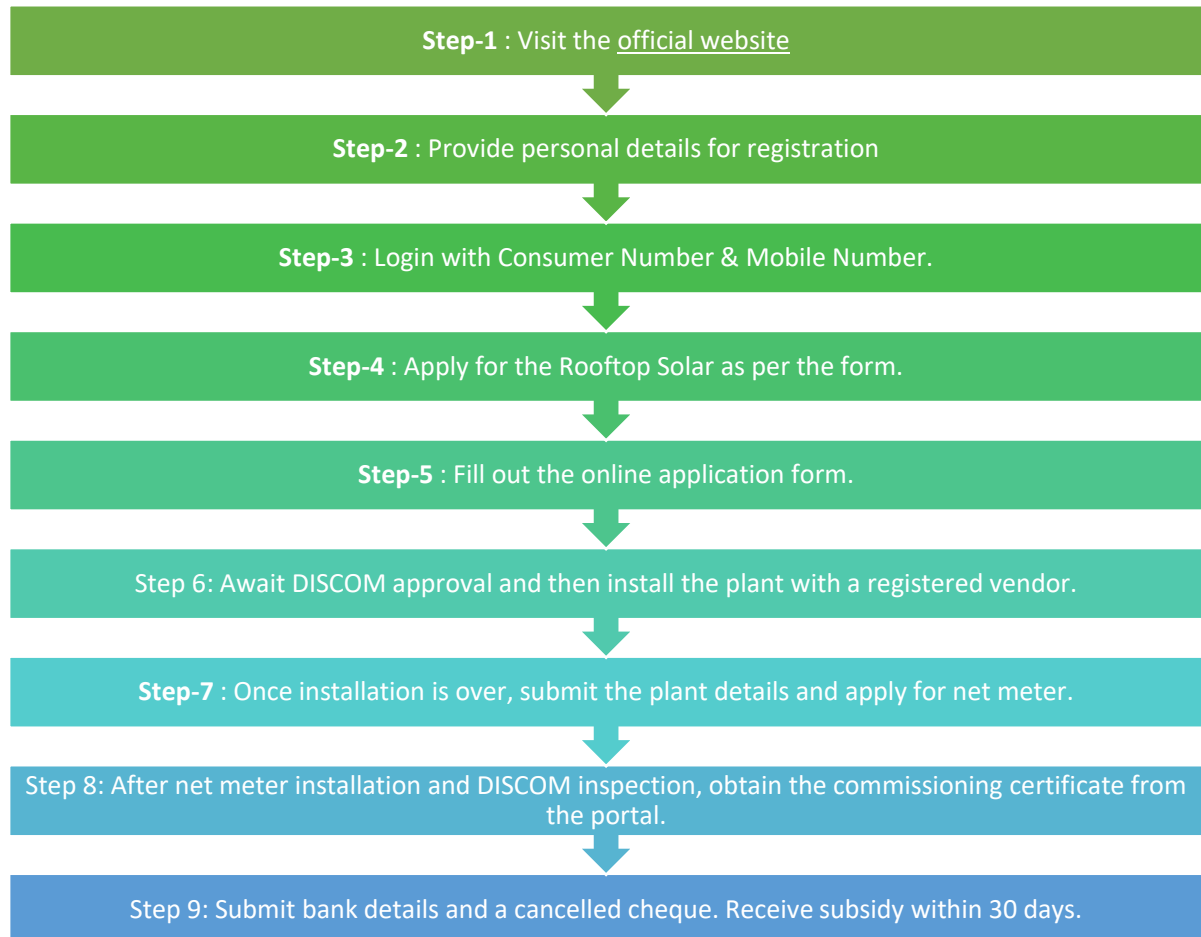
The household must own a house with a roof that is suitable for installing solar panels.

The household must have a valid electricity connection.

The household must not have availed any other subsidy for solar panels.

Application Process

The application process involves following nine specific steps to ensure a smooth and efficient submission and approval of solar panel installation.



As of December 3, 2024, a total of **1.45 crore registrations** and **26.38 lakh applications** have been reported on the National Portal.

Impact

The PM Surya Ghar: Muft Bijli Yojana is expected to have far-reaching outcomes, both for individual households and the nation as a whole:

- ❖ **Household Savings and Income Generation:** Households will benefit from significant savings on their electricity bills. Additionally, they will have the opportunity to earn extra income by selling surplus power generated by their rooftop solar systems to DISCOMs. For instance, a 3-kW system can generate over 300 units per month on average, providing a reliable source of energy and potential revenue.

❖ **Expansion of Solar Capacity:** The scheme is projected to add 30 GW of solar capacity through rooftop installations in the residential sector, significantly contributing to India's renewable energy goals.

❖ **Environmental Benefits:** Over the 25-year lifetime of these rooftop systems, it is estimated that the scheme will generate 1000 BUs of electricity while reducing CO2 emissions by 720 million tonnes, making a substantial positive impact on the environment.

❖ **Job Creation:** The scheme is also expected to create approximately 17 lakh direct jobs across various sectors, including manufacturing, logistics, supply chain, sales, installation, operations and maintenance (O&M), and other services, thereby boosting employment and economic growth in the country.

Model Solar Village

Under the "Model Solar Village" component of the scheme, the focus is on establishing one Model Solar Village per district throughout India. This initiative aims to promote solar energy adoption and empower village communities to achieve energy self-reliance. An allocation of ₹800 crore has been designated for this component, with ₹1 crore provided to each selected Model Solar Village.

To qualify as a candidate village, it must be a revenue village with a population of over 5,000 (or 2,000 in special category states). Villages are selected through a competitive process, evaluated on their overall distributed renewable energy (RE) capacity six months after being identified by the District Level Committee (DLC).

The village in each district with the highest RE capacity will receive a central financial assistance grant of ₹1 crore. The State/UT Renewable Energy Development Agency, under the supervision of the DLC, will oversee the implementation, ensuring these model villages successfully transition to solar energy and set a benchmark for others across the country.

Conclusion

In conclusion, the PM Surya Ghar: Muft Bijli Yojana is set to significantly reshape India's energy landscape by empowering millions of households with solar power. With installations projected to exceed 10 lakh by March 2025, and reaching the target of one crore by March 2027, the scheme is on track to deliver widespread benefits. Through substantial subsidies, accessible financing options, and a focus on renewable energy, the initiative will not only provide free electricity to households but also contribute to significant savings for the government, reduced carbon emissions, and job creation. The Model Solar Village initiative further supports rural areas in becoming energy self-reliant, underscoring the government's

commitment to sustainable development. This ambitious programme sets India on a path toward a greener, more energy-efficient future, reinforcing its leadership in renewable energy.

References:

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