# 5. PM Surya Ghar Yojana

A report on the performance of PM Surya Ghar Yojana has been jointly published by the Institute for Energy Economics and Financial Analysis (IEEFA) and JMK Research & Analytics.

# PM Surya Ghar - Muft Bijli Yojana (PMSGY/PMSGMBY)

#### 1. Scheme Overview

Launch Year - 2024

**Objective -** Facilitate free electricity to households by promoting residential rooftop solar panel installations, increasing renewable energy adoption, and empowering communities for energy self-reliance.

#### **Key Target -**

- 1. By October 2025 40 lakh households
- 2. By March 2027 1 crore households
- 2. Subsidy and Financial Support

**Subsidy Provision -** Up to 40% of installation cost, making solar energy more affordable and accessible to households.

**Total Allocated Funds** - ₹65,700 crore for rooftop solar subsidies.

Funds Released - Only 14.1% of the allocated funds released till July 2025.

## Major Highlights and Current Status

**A. Target Achievement -** Despite a four-fold increase in applications between 2024 and 2025, only 13.1% of the FY2027 target (1 crore households) has been achieved. This indicates that achieving the 1 crore rooftop solar target by FY2027 remains a considerable challenge.

**B. Contribution to Total Capacity -** As of July 2025, 4.9 GW of installations under the scheme accounted for approximately 44.5% of India's total residential rooftop solar capacity.

#### C. Leading States

**Gujarat -** Highest installed capacity (1,491 MW)

Other Leading States - Maharashtra, Uttar Pradesh, Kerala, Rajasthan

## Concerns and Challenges

### A. Procedural and Administrative Delays

Approval Process - Slow, taking 45-120 days, causing delays in project execution.

## B. Domestic Content Restriction (DCR)

Incentives are available only for solar systems fully manufactured in India.

Higher Costs - Domestic DCR components cost ₹12/watt more than imported alternatives, reducing cost-effectiveness.

Supply Constraints - Fragmented domestic production leads to delivery delays of up to two months.

#### C. Consumer Behaviour

Many households prefer non-DCR systems due to -

- i. Faster installation
- ii. Lower upfront costs
- iii. Avoiding delays in subsidy disbursal

### Recommendations for Effective Implementation

## A. Domestic Supply vs. Exports

Policy Recommendation - Prioritise domestic module supply for PMSGY instead of exports.

**Cost Mitigation -** Address anti-dumping-related cost pressures to improve affordability and timely rollout.

**B. State-Level Targets -** Experts recommend clear, time-bound rooftop solar capacity targets at the state level. Purpose - Ensure coherent national vision and effective policy execution across regions.

## Model Solar Village Initiative

A. Objective - Empower village communities to achieve energy self-reliance. Promote solar adoption at

the village level.

**B. Funding Allocation** 

Total Allocation - ₹800 crore

Per Village Support - ₹1 crore per selected Model Solar Village

C. Eligibility Criteria

**Population Threshold -** Revenue villages with population >5,000 (or >2,000 in special category states) Must demonstrate community readiness for solar adoption

**D. Achievement -** As of March 2025, 10 lakh homes in Model Solar Villages are now solar-powered, marking a historic milestone.

## Summary

**PM Surya Ghar -** Muft Bijli Yojana is a key initiative under India's renewable energy and residential solar strategy.

**Strengths -** Large-scale subsidies, focus on energy self-reliance, promotion of domestic manufacturing, community empowerment via Model Solar Villages.

**Challenges -** Slow approval process, higher domestic costs due to DCR, supply constraints, and consumer preference for non-DCR systems.

**Way Forward -** Prioritising domestic supply, mitigating costs, setting state-level targets, and leveraging digital monitoring can accelerate achievement of rooftop solar targets, supporting India's net-zero and renewable energy goals.

Source - https - //www.thehindu.com/sci-tech/energy-and-environment/achieving-centres-rooftop-solar-installation-targets-on-time-a-challenge-report/article70159816.ece

