

PM- SURYA GAR : MUFT BIJLI YOJNA

LADAKH

About the Scheme

PM Surya Ghar: Muft Bijli Yojana is a government scheme that aims to provide free electricity to households in India. The scheme was launched by Prime Minister Narendra Modi on February 15, 2024. Under the scheme, households will be provided with a subsidy to install solar panels on their roofs. The subsidy will cover up to 50% of the cost of the solar panels. The scheme is expected to benefit 1 crore households across India. It is estimated that the scheme will save the government Rs. 75,000 crore per year in electricity costs.

Benefits

- 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.
- The household must have south faced roof.
- The household must have shadow free area.

Overview

Project Objectives

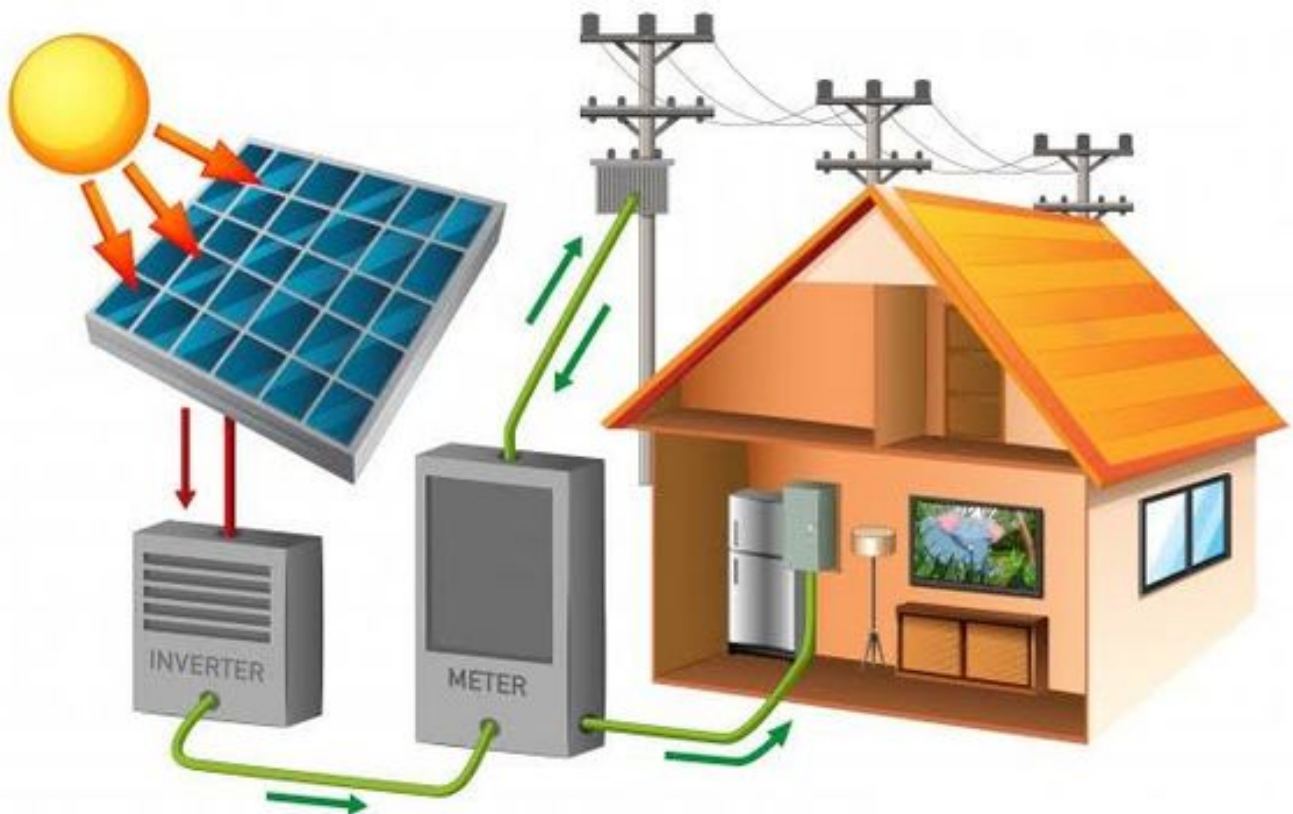
- To provide 300 units of free electricity every month to light up one crore households.
- Mitigate the dependence on fossil fuel-based electricity generation.
- To reduce the electricity costs.

Benefits

- Get Up to 50% subsidy from central Govt. & may get another 20% from UT Govt..
- Save Up to 100% on electricity bill.
- 25-year of warranty on solar panels & cables and more..

Important links

- National Rooftop Portal: <https://pmsuryaghar.gov.in/>
- Himalayan Renewable Energy & Construction Firm (HRECF) : <https://hrecfladakh.in>
- Why Solar? Video in Ladakhi Language: <https://youtu.be/tjS3NitTV0Y>
- Benefits of Solar Rooftop in Ladakhi Language: <https://youtu.be/7uAbJhh4a0Y>



Solar Rooftop Installation Process in Ladakh

Steps

Procedure

- 1 Assess Your Energy Needs:** First, determine your household's electricity consumption and energy needs. Consider the appliances and devices you want to power with solar energy. This assessment will help you determine the size of the solar system required. **If your current sanctioned load is less than required size, request for increasing sanctioned load to AEE of the respective sub-division Ladakh Power Development Department (LPDD) Leh.**
- 2 Find a Reputable Solar Installer:** Look for a reliable and experienced solar installer in your area. [Himalayan Renewable Energy and Construction Firm \(HRECF\)](#) is a leading construction company situated in Leh Ladakh. With a commitment to sustainable development and a focus on renewable energy solutions, HRECF. strives to create a positive impact on the environment while delivering exceptional construction services.
- 3 Site Assessment:** HRECF's solar installer team will visit your home to conduct a site assessment. They will evaluate the roof's orientation, tilt, and shading to determine the most suitable location for solar panels. The goal is to maximize solar exposure throughout the day.
- 4 Obtain Necessary Permissions:** Obtain permissions and approvals from electricity distribution companies through [National Rooftop Portal](#) before installing a solar rooftop system. The process is easy and simple, our team will assess in every steps.
- 5 System Design and Quotation:** Based on the site assessment and your energy needs, HRECF team will design a solar system tailored to your requirements. We will provide you with a detailed quotation that includes the cost of equipment, installation, and any other associated charges.
- 6 Signing the Contract:** Once you are satisfied with the quotation and terms, sign a contract with the HRECF. Ensure that the contract includes the system specifications, warranties, payment terms, and installation timeline.
- 7 EMI Facility through Tie-up with Bank:** If you need financial support, we offer an easy EMI facility through our tie-up with a bank. Apply for the EMI facility, and our partnered bank will process your loan application quickly. Once the loan is approved, we'll sign a simple agreement, outlining all the details of the installation. And you can start making easy monthly EMI payments to the bank as per the agreed-upon terms.
- 8 Installation:** Our solar installer team will proceed with the installation process. This typically involves mounting the solar panels on your rooftop, installing the inverter, and

connecting the system to the grid.

9 **Inspection and Commissioning:** After the installation, the solar system must undergo a safety inspection and compliance check by the local electricity authorities. Once the system passes the inspection, it will be connected to the grid, and you can start using solar power.

10 **Financial Incentives and Subsidies:** Once you get the commissioning report submit bank account details and a canceled cheque through the portal. The subsidy will be credited to your account within 30 working days.

Benefits of solar rooftop scheme 2024

Sl. No.	Sanctioned & Consumed (Kw).	1Kw	2Kw	3Kw	5Kw	10Kw	
1	Capital Cost of System (Rs.)	81000	130000	180000	280000	520000	
2	Subsidy	Centre part (Rs.)	33000	66000	85800	85800	85500
		UT-Ladakh part (Rs.)	20000	40000	50000	50000	50000
		Total Subsidy (Rs.)	53000	106000	135800	135800	135800
3	Cost has to bear by Consumer (Rs.)	28000	24000	44200	144200	384500	
4	Average Cost saving per Annum (Rs.)	4800	12400	17500	30000	55000	
5	Payback Period	5-6 Years	2-3 Years	3-4 Years	4-5 Years	6-7 Years	
6	Cost saving in next balance years (Rs.)	86400	272800	367500	600000	990000	
7	Space	Area in Sqft.	80	128	208	336	819
	Requirement	Feet x Feet	8x10	8x16	13x16	21x16	21x39
8	No. of Solar Module (Panel)	2	4	6	10	19	
9	Warranty	Solar Module	25 Years				
		GI Structure	25 Years				
		DC Cables	25 Years				
		Inverter	8 Years				

NOTE: -

- The COST & SAVING in above tabulated form based on existing tariff of Rs. 2.5 - 5 per Unit.
- Consumer's roof must have solid structure or enough space on ground.
- Consumer's roof must have shadow free area.
- Consumer's roof must have south faced orientation & INVERTER must kept on good ventilation area with cover.
- Customer's most favorable & suitable system 3Kw.
- Consumer should try to keep minimum distance between Module & Inverter to minimize the DC losses.

Product Details

Model	JAKSON
Solar Cell	Mono PERC crystalline-M10
Maximum Power	545W
Dimension	2284mm * 1136mm * 35mm
Weight	29.5 kg
Performance warranty	25 years

Inverter

Model	K-Solar, Harvells
Warranty	8 years

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Us Today**

*Building a Resilient Future, One
Project at a Time: HRECF
Making Ladakh Sustainable.*

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