

GOVERNMENT OF INDIA  
MINISTRY OF NEW AND RENEWABLE ENERGY  
**RAJYA SABHA**  
**STARRED QUESTION NO. 90**  
ANSWERED ON 11/02/2025

**DOMESTICALLY MANUFACTURED SOLAR CELLS**

\*90. SHRI KARTIKEYA SHARMA

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

- (a) the current quantum and value of domestically manufactured solar cells, whether it meets the existing demand;
- (b) the details of guidelines issued to solar panel manufacturers regarding the mandatory procurement of domestically manufactured solar cells for their projects;
- (c) the future demand for solar cells, the support provided to startups and MSMEs for research and innovation; and
- (d) the status of Approved List of Models and Manufacturers List II, and how it protects the local manufacturers from unfair competition?

**ANSWER**

**THE MINISTER OF NEW & RENEWABLE ENERGY AND CONSUMER AFFAIRS, &  
FOOD AND PUBLIC DISTRIBUTION**

**(SHRI PRALHAD JOSHI)**

(a) to (d) A Statement is laid on the Table of the House.

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**STATEMENT REFERRED TO IN REPLY TO RAJYA SABHA STARRED QUESTION No.90 for****ANSWER ON 11.02.2025**

(a) & (b): As per the information provided by Solar PV Manufacturers Associations namely All India Solar Industries Association (AISIA) and North India Module Manufacturer Association (NIMMA), the present installed solar PV cell manufacturing capacity in the country is around 25 GW. The manufacturer-wise break-up is as follows:

<b>Name of Manufacturer</b>	<b>Existing Installed Solar PV Cell Manufacturing Capacity (GW)</b>
First Solar	3.2*
Waaree Energies	5.4
Tata/ TP Solar	4.6
Adani Solar	4.0
Emmvee Photovoltaics	2.5
Premium Energies	2.0
Renew Power	2.0
Jupiter International	0.9
Websol	0.6
<b>Total</b>	<b>25.2</b>

\*Thin Film technology

At present, it is not mandatory to use domestically manufactured solar PV cells for all solar projects. However, for projects under CPSU Scheme Phase II, components B & C of PM-KUSUM (Pradhan Mantri Kisan Urja Suraksha evam Utthaan Mahabhiyan) and PM Surya Ghar: Muft Bijli Yojana wherein government subsidy is given, the projects are mandated to use domestically manufactured solar PV cells and solar PV modules as per the condition specified under such schemes.

(c) With implementation of projects under CPSU Scheme Phase II, PM-KUSUM and PM Surya Ghar: Muft Bijli Yojana, the Government has created demand for domestically manufactured solar PV cells which is envisaged to support domestic solar PV cell manufacturers. With 500 GW target, demand for solar cells is expected to increase exponentially.

The Ministry is implementing a “Renewable Energy Research and Technology Development Programme (RE-RTD)” through various research institutions and industry to develop indigenous technologies and manufacturing for widespread applications of new and renewable energy in efficient and cost-effective manner in the country. The Ministry provides up to 100% financial support to Government/non-profit research organizations and upto 70% to Industry, start-ups, private Institutes, entrepreneur, and manufacturing units.

(d) On 09.12.2024, Ministry of New and Renewable Energy (MNRE) has issued an Office Memorandum (O.M.) for implementation of Approved List of Models and Manufactures (ALMM) for Solar PV Cells. The said O.M. proposes issuance of ALMM List-II for solar PV cells which is envisaged to be effective from 1<sup>st</sup> June 2026 as per the terms and condition specified in the said O.M. Further, the said O.M. inter-alia states that all projects falling under the purview of ALMM shall have to mandatorily source their solar PV modules from models and manufacturers included in ALMM List-I for solar PV modules and such solar PV modules in turn shall have to use solar PV cells from amongst the models and manufacturers enlisted in ALMM List-II for solar PV cells, as per the details specified in the O.M.

The implementation of ALMM List-II for solar PV cells is expected to provide to the solar PV module manufacturers and solar power developers, a readily available list of solar PV cells manufacturers/models who have been assessed on quality and reliability through factory inspection.

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