

**No. 283/74/2025-GRID SOLAR**

भारत सरकार / Government of India

नवीन और नवीकरणीय ऊर्जा मंत्रालय/ Ministry of New &amp; Renewable Energy (MNRE)

ग्रिड सौर ऊर्जा प्रभाग / Grid Solar Power Division

Atal Akshay Urja Bhawan,  
Lodi Road, New Delhi – 110003**Date: 28<sup>th</sup> November 2025****DRAFT FOR STAKEHOLDER CONSULTATION****Sub: Request for comments on Draft Order for increasing threshold solar PV module efficiencies for enlistment in Approved List of Models & Manufacturers (ALMM) List-I for solar PV modules****1. The extant minimum module efficiency thresholds for enlistment of solar PV modules in ALMM List-I for solar PV modules, are as follows:**

Category	Application / Use	Minimum module efficiency required to be eligible for enlistment in ALMM for solar PV modules.	
		For c-Si Technology Based Solar PV Modules	For CdTe Thin Film Technology Based Solar PV Modules
Category I	Utility / Grid-Scale Power Plants	20.00%	19.00%
Category II	Rooftop and Solar Pumping	19.50%	18.50%
Category III	Off-grid projects / applications such as solar lamps, solar lights, solar street lights, solar fans, etc. (excluding solar-powered agricultural pumps and solar PV rooftops) with individual module capacity < 200 Wp [Not to be included in main ALMM List-I but in a separate list called ALMM List-I (DRE)]	18.00%	18.00%
Category IV	Any other application	19.00%	18.00%

**2.** In order to ensure that the ALMM List-I for solar PV modules is reflective of the commercially available high efficiency solar PV modules having quality and efficiency above a minimum prescribed threshold and that such minimum module efficiency threshold is dynamic and reflective of the advancements in solar PV module manufacturing sector and that such threshold also acts as a barrier to keep low efficiency obsolete technologies out of ALMM, MNRE hereby proposes the following minimum module efficiency thresholds for enlistment of solar PV modules in ALMM List-I for solar PV modules:

Category	Application / Use	Technology	Existing Module Efficiency Threshold	Module Efficiency Threshold Proposed from 01.01.2027	Module Efficiency Threshold Proposed from 01.01.2028
I	Utility / Grid-Scale	c-Si	20.0%	21.0%	21.5%
		CdTe	19.0%	20.0%	20.5%
II	Rooftop & Solar Pumping	c-Si	19.5%	20.5%	21.0%
		CdTe	18.5%	19.5%	20.0%
III	Off-grid(DRE) <200Wp	c-Si	18.0%	19.0%	19.5%
		CdTe	18.0%	19.0%	19.5%
IV	Other Applications	c-Si	19.0%	20.0%	20.5%
		CdTe	18.0%	19.0%	19.5%

3. The solar PV modules which are presently enlisted in ALMM or get enlisted in ALMM in next few months but have solar PV module efficiencies below the revised module efficiency thresholds proposed above, will be removed from the ALMM List-I for solar PV modules once the new module efficiency thresholds become effective.
4. MNRE seeks views / comments / suggestions from stakeholders on the aforesaid trajectory.
5. Views / comments / suggestions on the aforesaid draft proposal/amendment to ALMM Order may be sent **latest by 27<sup>th</sup> December 2025** by email to the undersigned at karndhar.sg@nic.in



**(Sanjay G. Karndhar)**  
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**To: All Stakeholders**

Copy to: Director (Technical), NIC, MNRE, for uploading on MNRE's website