



# POWER SECTOR

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## POWER PURCHASE

- » **DISCOMS OPTS FOR THE DAY-AHEAD MARKET TO MITIGATE SOARING SUMMER POWER COSTS**
- > Indian DISCOMS utilize Day Ahead Market (DAM) for affordable electricity during summer.
- > DAM maintains stable prices with an average rate of Rs 3.91 per unit in March 2024.
- > Term-Ahead Market (TAM) records higher rates, adding financial strain on DISCOMS.
- > Flexibility of DAM is crucial for meeting rising power demand during elections.
- > Many DISCOMS secure power through forward contracts, anticipating increased usage.
- > The Ministry of Power ensures stability by selling surplus power and shifting plant maintenance.
- > Measures include monitoring capacity additions in coal, hydro, nuclear, solar, and wind sectors.
- > DAM allows trading in 15-minute blocks, facilitating short-notice power delivery.



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## RENEWABLES

- » **MNRE ADDS 4.1 GW OF NEW SOLAR MODULE CAPACITY TO ALMM**
- » **REIL INVITES BIDS FOR 200,000 MONO PERC SOLAR CELLS**
- » **TOP 5 STATES FOR SOLAR OPEN ACCESS INSTALLATIONS IN CY 2023**



## Policy and Regulatory

- » **DELHI NOTIFIES WIND AND HYDRO POWER PURCHASE OBLIGATION UNTIL FY26**



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## POWER PURCHASE

- > DISCOMS leverage DAM for stable and cost-effective power procurement.
- > Lower DAM prices contrast with previous forward contract rates, indicating potential savings.
- > Market analyst emphasizes DAM's importance for meeting immediate power needs.
- > The Ministry's steps aim to maintain power sufficiency and stability during high-demand months.





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## RENEWABLES

### >> MNRE Adds 4.1 GW of New Solar Module Capacity to ALMM

- > MNRE expands Approved List of Models and Manufacturers (ALMM) by 4,104 MW for solar modules, totaling 41,333 MW.
- > Premier Energies and Grew Energy lead with 1,320 MW and 1,150 MW respectively in new capacity additions to ALMM.
- > ReNew, Swelect HHV Solar Photovoltaics and others contribute to the expanded ALMM with significant capacities.
- > Grew Energy, Solberry Energy, AG Solar Urja Udyog, and Total Solar Technologies join ALMM as new entrants.
- > Waaree Energies boasts 90% of its total 12,000 MW manufacturing capacity enlisted under ALMM.
- > Key players like Adani Solar, Tata Power Solar, and Vikram Solar each exceed 1 GW enlisted capacity under ALMM.
- > Combined contributions of top players amount to 76% of the total cumulative module manufacturing capacity under ALMM.



- > 465 MW capacity removed from ALMM as part of the update.
- > The highest capacity module listed in ALMM remains at 655 Wp.
- > Agrawal Renewable Energy and Swelect HHV Photovoltaics receive final enlistment for capacities lower than initially applied.
- > The update follows the implementation of ALMM regulation from April 1, 2024, by the Ministry.
- > Ministry to review projects unable to commission due to uncontrollable reasons by March 31, 2024, separately.



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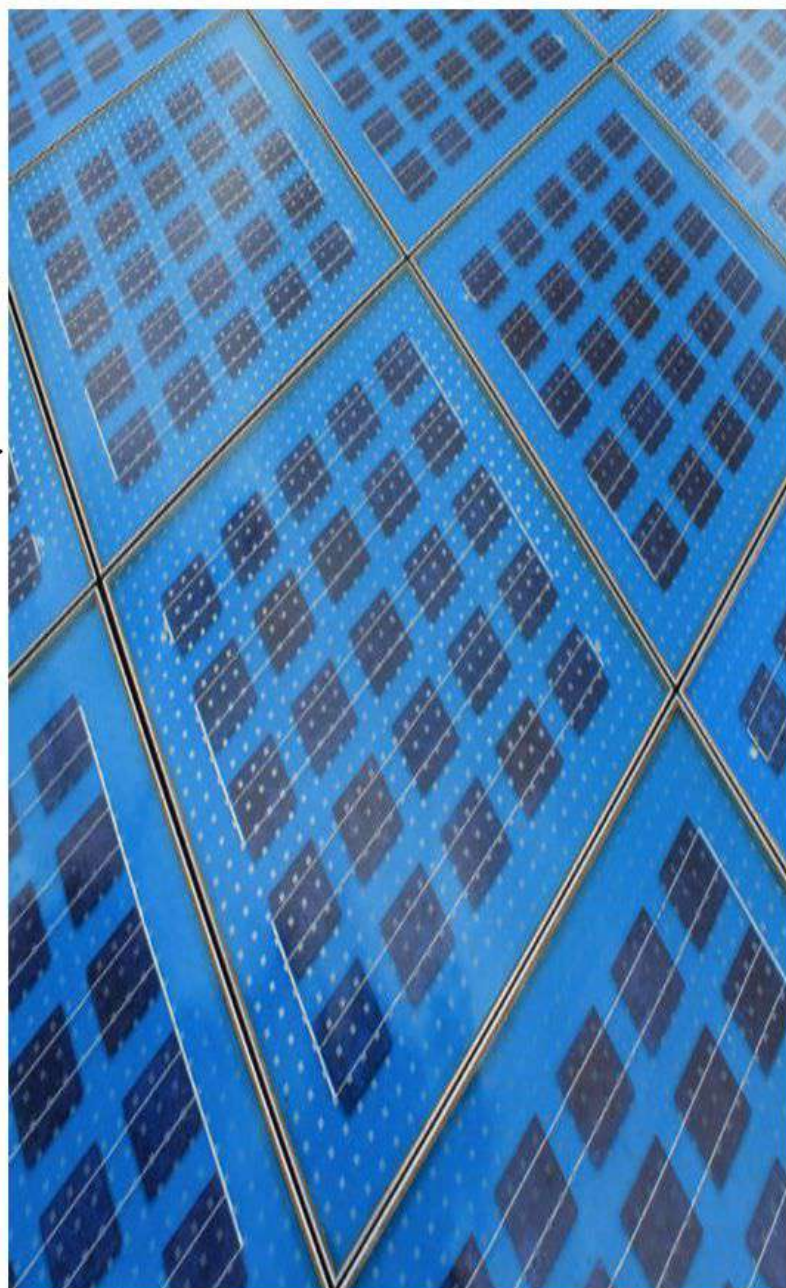
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## RENEWABLES

### » REIL INVITES BIDS FOR 200,000 Mono PERC SOLAR CELLS

- Rajasthan Electronics and Instruments Limited (REIL) invites bids for 200,000 Mono PERC solar cells with 5.50Wp power output by May 1, 2024.
- Bid value estimated at \$113,950, with exemption from earnest money deposit and performance bank guarantees.
- Order split 70:30 among two bidders, preference for "Make in India" products.
- Class 1 local suppliers require a minimum 50% local content, Class 2 requires 20%.
- Micro and Small Enterprises given purchase preference under the Public Procurement Policy for Micro and Small Enterprises Order, 2012.
- Bidders must have supplied similar products to government organizations or PSUs in the last three financial years.
- Reverse auction among technically qualified bidders, excluding the highest quoting bidder.
- REIL sought a consulting firm for Bureau of Indian Standards certification of solar PV modules in 2022.





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## RENEWABLES

### >> TOP 5 STATES FOR SOLAR OPEN ACCESS INSTALLATIONS IN CY 2023



> India added 3.2 GW of new solar open access capacity in 2023, the highest in any calendar year.

- > Top five states accounted for 84.2% of the new capacity, with installations up 5.7% YoY.
- > Lower project costs due to ALMM order suspension and falling module prices boosted capacity additions.
- > Karnataka led in installations, followed by Gujarat, Maharashtra, Tamil Nadu, and Rajasthan.
- > Gujarat's favorable policies and weather conditions facilitated solar-wind hybrid projects
- > Maharashtra saw stalled growth in solar-wind hybrid projects due to the absence of distinct policies.
- > Tamil Nadu's regulatory framework and tariff exemptions drove solar open-access adoption.
- > Rajasthan faced challenges with high surcharges and DISCOMS' slow approval process for solar projects.
- > The Ministry of Power instructed state commissions to align with green energy open access rules.



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## POLICY AND REGULATORY

### DELHI NOTIFIES WIND AND HYDRO POWER PURCHASE OBLIGATION UNTIL FY26

- > DERC revises Delhi's renewable purchase obligation (RPO) regulations until FY 2025-26.
- > Solar energy re-categorized as 'Other RPO', wind energy included in RPO trajectory.
- > New regulations effective April 1, 2023, aim to boost wind installations.
- > Wind RPO to be fulfilled from projects commissioned after March 31, 2022.
- > HPO can only be met by large hydro projects commissioned after March 8, 2019.
- > Other RPO obligations can be fulfilled by excess energy from eligible projects.
- > Shortfall in 'Other RPO' can be met from excess energy from wind or eligible hydro projects.
- > Penalty of 10% of the weighted average renewable energy certificate price for RPO shortfall.
- > Penalty reduced from DISCOM's annual revenue requirement during true-up.
- > State nodal agency to compute penalty for open-access consumers.
- > Penalty billed in electricity bill for open-access consumers.
- > Hydropower imported from outside India is not considered for meeting HPO.

