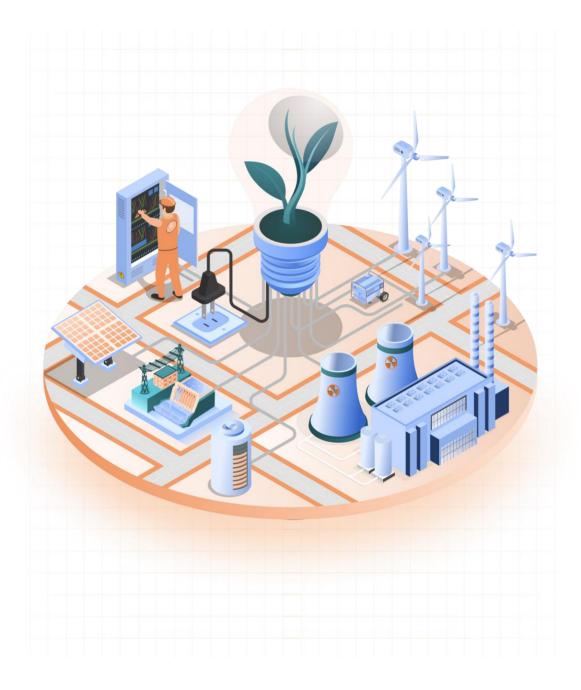
# **GNA Monthly Insights**

JANUARY 2025





GNA Energy is India's premium OTC Platform for power. Our AI-powered data insights empower buyers and sellers to make informed decisions and optimise their energy strategy.

**Beta Version** 





- **Peak Demand:** The peak demand in Jan'25 reached 237.31 GW on the 29th, marking a 6.74% YoY increase from the previous peak of 222.33 GW recorded on January 25, 2024.
- **Energy Demand:** The total electricity demand recorded a YoY growth of 1.89% in Jan'25, rising from 134.99 BUs to 137.54 BUs, indicating an increase in consumption.
- Renewable Energy: RE generation increased by 32.33% YoY in Jan'25, reaching 25.05 BUs.
- **Collective Market:** In Jan'25, the volumes of DAM, GDAM, and RTM grew by 6.70%, 231.63%, and 28% YoY, respectively. Meanwhile, their weighted average prices saw a decline of 27.56%, 20.82%, and 29.59%, respectively.
- **TAM Market:** In Jan'25, the Intra-Day, DAC, and Daily volumes increased by 209.92%, 27%, and 153.40% YoY, respectively, while their weighted average prices dropped by 3.40%, 11.86%, and 14.15%, respectively.

	Powe	r Supply P	osition		Generation Overview				
	Jan'24	Jan'25	%		Jan'24	Jan'25	%		
Installed Capacity (GW) <sup>1</sup>	428.30	462.00	~7.87%	Total Generation (BUs)	145.90	149.32	≁ 2.34%		
Total Energy Demand (BUs) <sup>2</sup>	134.99	137.54	∽ 1.89%	RE Generation (BUs) <sup>4</sup>	18.93	25.05	~32.33%		
Peak Demand (GW) <sup>3</sup>	222.33	237.31	~ 6.74%	Avg. Generation Outage (GW)	53.02	53.09	0.13% 🖍		
Energy Deficit (BUs)	0.51	0.045	<b>∽ 91.18%</b>	Net: Cross Border Trade (BUs) <sup>5</sup>	-1.84	-1.60	∽13.04%		

Note: 1. Installed Capacity as of Dec'23 and Dec'24: 2. Total Energy Demand= Energy Met + Energy Shortage; 3. Peak Demand is for 25<sup>th</sup> Jan'24 and 29<sup>th</sup> Jan'25; 4. RE Generation includes Hydro; 5. Cross Border Trade is denoted as = Net Import (+)/ Export (-)

	>	Power Market Summary*										
a			Collective Mark	et	Те	Term Ahead Market						
		DAM	GDAM	RTM	INTRADAY	DAC	DAILY					
Total Traded	Jan 25'	6,017.4	694.59	3,056.99	11.56	501.34	1,148.97					
Volume (MUs)	Jan 24'	5,639.74	209.45	2,388.23	3.73	394.73	453.42					
Wt. Avg. Price	Jan 25'	4.39	4.64	4.26	8.5	7.21	6.61					
(₹/kWh)	Jan 24'	6.06	5.86	6.05	8.8	8.18	7.70					

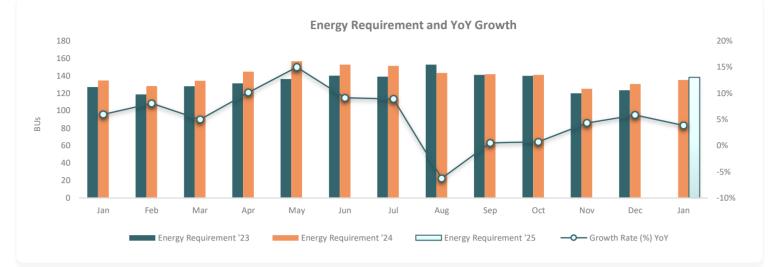
Note: \*Volume and price data are aggregated across all exchanges

2025

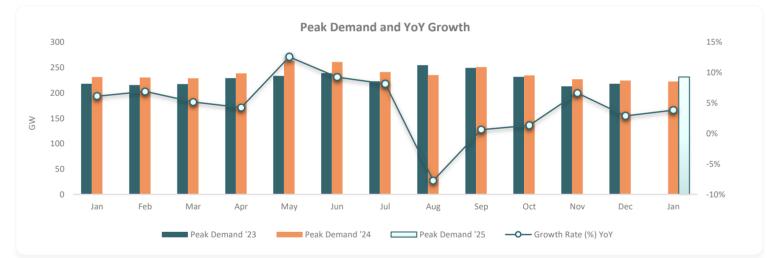


**Power Supply Position-All India** 

January

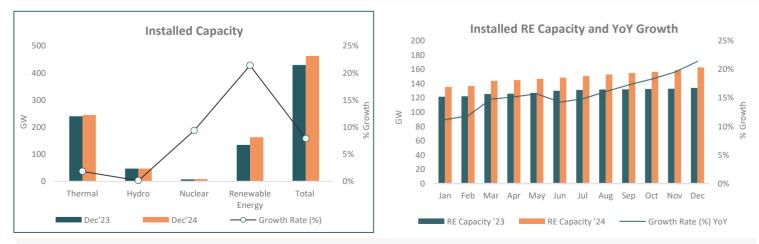


The Energy Requirement shows the highest YoY growth in May'24, with a 15% increase compared to May'23.
The Energy Requirement in Jan'25 increased to 138 BUs, marking a 2.22% YoY growth compared to 135 BUs in Jan'24



The Peak Demand in May'24 experienced the highest YoY growth rate of 13%, rising significantly compared to May'23.

• The Peak Demand in Jan'25 increased to 237.31 GW, reflecting a 4% YoY growth compared to 222.33 GW in Jan'24.



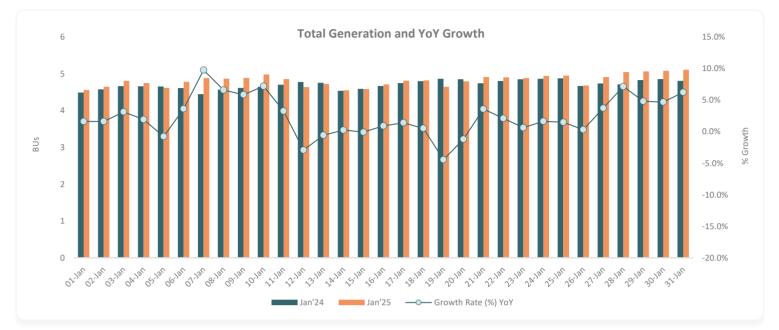
- The total Installed Capacity reached 462 GW in Dec'24, reflecting a 7.86% increase from Dec'23.
- The largest increase came from RE sources, which grew by 21.35 GW, or 20%, compared to Dec'23.
- The RE capacity shows steady YoY growth across all months.

3

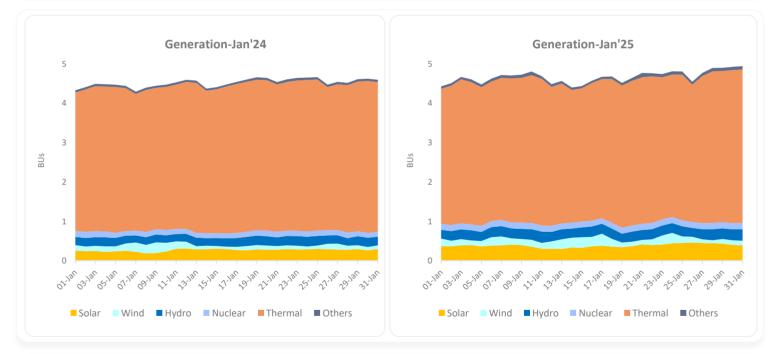
### **Power Supply Position - All India**

**Monthly INSIGHTS** 

January 2025



- Total generation was 149.32 BUs in Jan'25 compared to 145.90 BUs in Jan'24, reflecting a modest increase of 2.34%.
- The highest daily generation in Jan'25 was on 31<sup>st</sup> Jan'25 with 5.10 BUs, this was 4.55% higher compared to the highest generation of 4.88 BUs in Jan'24 which was recorded on 25<sup>th</sup> Jan'24.

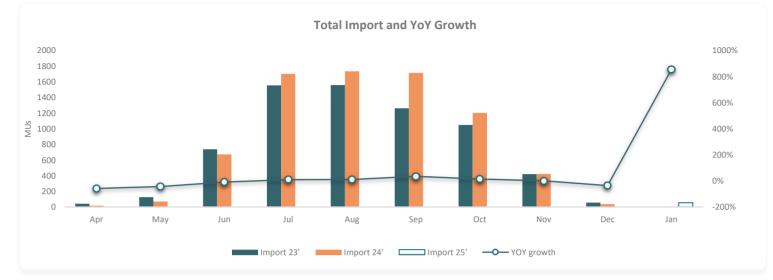


- Although overall power generation saw only minimal growth, the share of solar and wind appears slightly higher in Jan'25, indicating a push toward renewables. This change highlights a continuing shift toward a greener energy mix.
  - RE sources generated 25.05 BUs in Jan'25 compared to 18.93 BUs in Jan'24, reflecting an impressive 32.33% growth
  - Thermal power generation remained almost the same with a slight decrease of 2.28% from 115.21 BUs in Jan'24 to 112.64
     BUs in Jan'25

January

#### **Cross-Border Trades**

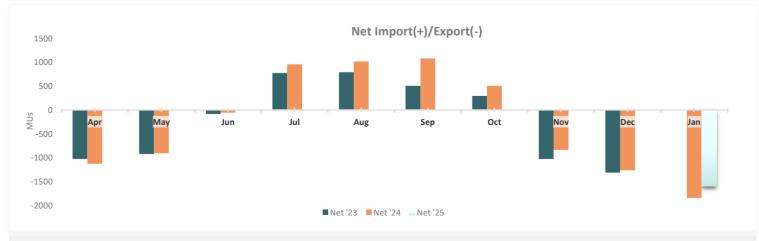
2025



Imports were highest from Jul'24 to Sep'24, with Aug'24 reaching the maximum volume of over 1,735.50 MUs. Import volumes declined significantly in Jan'25, reaching 55.4 MUs. •



- Export volumes remained relatively stable from Apr'24 to Oct'24, with export volumes between 800-1,000 MUs.
- Exports saw a significant peak in Jan'25, reaching 1,544.43 MUs, marking the highest volume for the observed period.



- Net imports were highest during Jul'24 to Sep'24, with values exceeding 500 MUs, indicating stronger import activity during this period.
- Significant net exports were observed in Jan'25 with a net value of -1,599.4 MUs. •

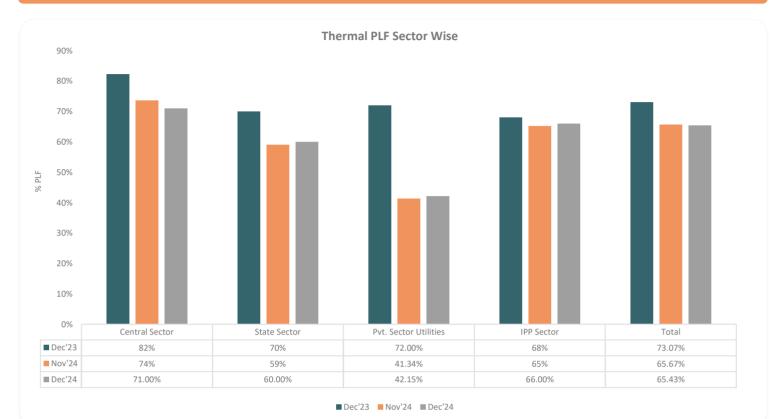
Note: Net Trade= Net Import- Net Export

**Beta Version** 

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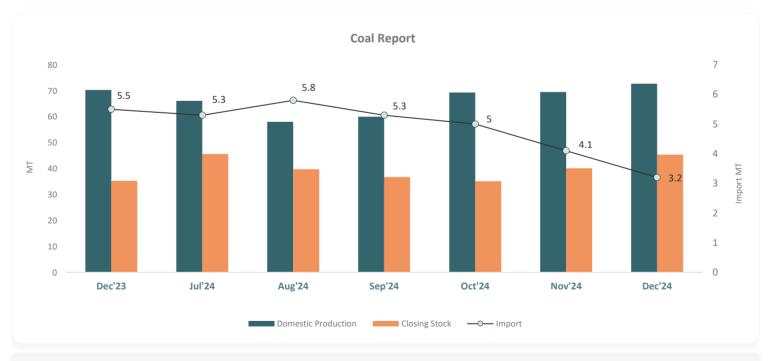
Source: GRID INDIA

**Thermal PLF & Coal Report** 



State, Private and IPP Sectors saw lower PLF in Dec'24 compared to Dec'23

• The overall PLF dropped from 73.07% in Dec'23 to 65.43% in Dec'24



- The domestic coal production increased by 5.14% from 66.10 MT in Jul'24 to 69.5 MT in Nov'24 while the closing stock decreased by 12.1% from 45.63 MT in Jul'24 to 40.11 MT in Nov'24.
- Imports declined by 39.62% during the period from Jul'24 to Dec'24.

Note: Dec'24 Generation-Monthly Report (Thermal) Note: Coal Report as of Dec'24

2025

Peak Demand, Time, and Price Scenario

January



Note: \*DAM-MCP for IEX is the price corresponding to the Time Block with Peak Demand as reported in the Daily PSP Report (GRID India)

- Peak Demand increased from 222.327 GW in Jan'24 to 237.31 GW in Jan'25.
- Peak Demand in both Jan'25 and Jan'24, mostly occurred between 10:00 to 11:00 hours.

2025



#### **Power Market**

January





#### **Collective Market**

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- RTM volume increased by 28%, rising from 2,388.23 MUs in Jan '24 to 3,056.99 MUs in Jan'25.
- DAM volume increased by 6.70%, from 5,639.74 MUs in Jan'24 to 6,017.39 MUs in Jan'25.
- The RTM wt. avg. price for IEX decreased by 30.13%, from ₹6.04/kWh in Jan'24 to ₹4.22/kWh in Jan'25, while the DAM wt. avg. price for IEX fell by 26.95%, from ₹6.01/kWh in Jan'24 to ₹4.39/kWh in Jan'25.

**Key Observation:** RTM, DAM, and GDAM volumes increased in Jan'25 compared to Jan'24. The wt. avg. prices on IEX decreased across all contracts in Jan'25 compared to Jan'24.

#### Term Ahead Market (TAM)

- The DAC volume decreased by 14.49%, from 594.73 MUs in Jan'24 to 508.57 MUs in Jan'25.
- Daily contract volume increased significantly by 156.26%, down from 453.42 MUs in Jan'24 to 1161.93 MUs in Jan'25.
- The wt. avg. DAC price for IEX increased by 1.51% from ₹7.96/kWh to ₹8.09/kWh, while the prices of daily contracts dropped by 29.69% from ₹8.79/kWh to ₹6.18/kWh.

**Key Observation:** The Term Ahead Market saw a significant volume increase from Jan'24 to Jan'25, particularly in the "Daily" category, with IEX dominating volumes.

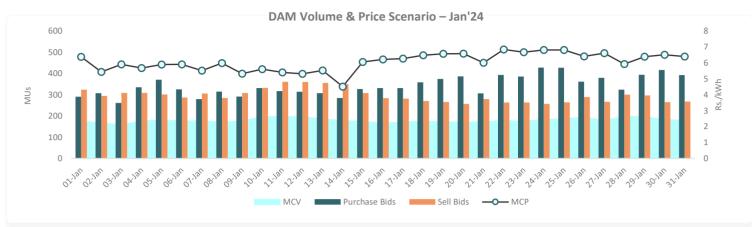
	Collective Market (Jan'25)										Т	erm Ahea	d Marke	et (Jan'25)	)			
		IEX			НРХ			PXIL			IEX			НРХ			PXIL	
	DAM	GDAM	RTM	DAM	GDAM	RTM	DAM	GDAM	RTM	Intraday	DAC	Daily	Intraday	DAC	Daily	Intraday	DAC	Daily
Volume (MUs)	6,017.39	694.59	3,035.92	0.01	0	0.65	0	0	20.42	0.50	125.21	813.15	2.87	96.95	104.38	8.19	286.41	244.4
Wt. Avg. Price (₹/kWh)	4.39	4.64	4.22	10	0	10	0	0	10	7	8.09	6.58	8.07	8.95	7.83	8.74	6.25	6.18

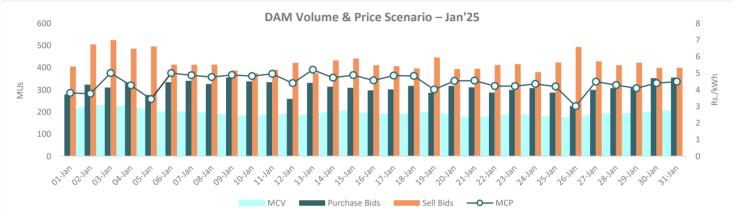
**Beta Version** 

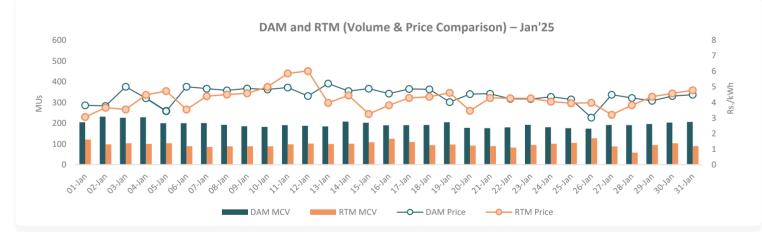
January

#### DAM & RTM – IEX

2025







#### DAM Volume & Price Scenario (Jan'24 & Jan'25)

- In Jan'25, total sell bids for the DAM were 13.63% higher than sell bids in Jan'24, reaching a notable 10,399.90 MUs. This was reflected in the total MCV for the month which stood at 6017.37 MUs in Jan'25 compared to 5561.81 MUs in Jan'24.
- In Jan'25, total sell bids for the DAM were 8.12% higher than purchase bids in Jan'25. In Jan'25, the volume of purchase bids lags behind sell bids, highlighting an oversupply trend in the market.
- The weighted MCP for Jan'25 declined by 26.73% to ₹4.44/kWh from ₹6.06/kWh in Jan'24.

#### DAM and RTM (Volume & Price Comparison Jan'25)

• The DAM shows consistently higher MCV and prices than RTM, with a peak DAM MCV of 230.61 MUs on 2<sup>nd</sup> Jan'25 and the highest price of ₹5.20/kWh on 13<sup>th</sup> Jan'25. RTM remains steadier but lower across both metrics.

### Long Duration Contracts (Reverse Auction)

2025

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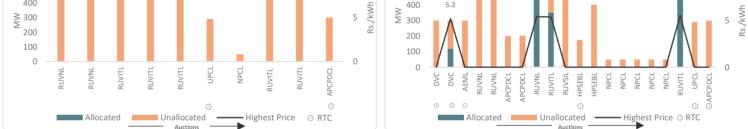
**Monthly INSI** 

January

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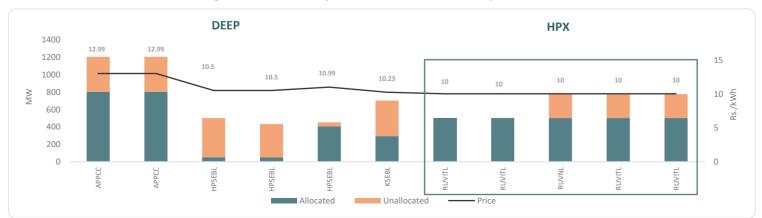
Results of Reverse Auctions Across Platforms for Delivery Period Jan'25











Note: Data as reported in the results of the reverse auctions; does not indicate actual power scheduled or LOA issued after the reverse auction

Source: IEX, PXIL, HPX, DEEP

GNA Monthly INSIGHTS



## **Renewable Energy Tenders**

S. No.	Source	Tendered Quantity (MW)	Last Date Bid Submission
1	JVVNL, Grid-connected solar power projects through the renewable energy service company model under Component C of PM-KUSUM	26.77	15 <sup>th</sup> Jan'25
2	Onix Renewable, EOI to setup solar power projects across 252 locations in Maharashtra	1900	17 <sup>th</sup> Jan'25
3	CMPDI, Solar(EPC), Madhya Pradesh	70	23 <sup>rd</sup> Jan'25
4	SECI on behalf of Singareni Collieries Company (SCCL), Floating solar project in Singareni Thermal Power Plant, Telangana	10	23 <sup>rd</sup> Jan'25
5	REIL, Project Development for grid-connected rooftop solar projects on state gov. buildings	24	24 <sup>th</sup> Jan'25
6	OREDA, Empanelment for the design, engineering, supply , installation, testing, and commissioning of grid-connected rooftop-solar systems	10	27 <sup>th</sup> Jan'25
7	THDC, India, Solar Projects at KPCL thermal projects in Bellary and Raichur, Karnataka	100	30 <sup>th</sup> Jan'25
8	TPTCL, EOI from consumers, distribution utilities, and C&I entities for the procurement of green attributes for up to 25 years	500	31 <sup>st</sup> Jan'25
9	UPNEDA, EOI to setup solar projects in Chitrakoot, Jalaun, Jhansi and Lalitpur districts in U.P.	2,000	10 <sup>th</sup> Feb'25
10	GUVNL, Utility Scale Solar (Phase XXVI) with additional green shoe capacity Pan India	250	10 <sup>th</sup> Feb'25
11	GUVNL, Wind Project with additional green shoe capacity (Phase IX), Gujarat	250	11 <sup>th</sup> Feb'25
12	SJVN, Rooftop Solar Project Development	18	11 <sup>th</sup> Feb'25
13	HPSEBL, Grid-connected solar projects under the RESCO model	8.33	13 <sup>th</sup> Feb'25
14	WBSEDCL, Solar (EPC) in Birbhum district, West Bengal	20	17 <sup>th</sup> Feb'25
15	TGGENCO, Standalone BESS, Telangana	250 MW/500 MWh	21 <sup>st</sup> Feb'25
16	NHPC, Standalone BESS, Kerala	125 MW/500 MWh	21 <sup>st</sup> Feb'25
17	NHPC, Rooftop Solar Projects in Sikkim and J&K	39.73	21 <sup>st</sup> & 24 <sup>th</sup> Feb'25
18	GUVNL, Standalone BESS (Phase VI), Gujarat	500 MW/1000 MWh	24 <sup>th</sup> Feb'25
19	REMCL, Project development for RTC power from grid-connected RE power projects (with or without storage) to the Indian Railways	500	25 <sup>th</sup> Feb'25
20	NHPC, Rooftop Solar (EPC), Pan India	24.22	3 <sup>rd</sup> Mar'25
21	HPPC, Utility Scale Solar, Haryana	500	12 <sup>th</sup> Mar'25
22	NTPC, ISTS connected solar project with 600 MW/2400 MWh ESS, Pan India	600 MW/2400 MWh	13 <sup>th</sup> Mar'25

# GNA Monthly INSIGHTS



## **Renewable Energy Tenders Results**

Source	Tendered Quantity (MW)	Bidder's Name	Tariffs (₹/kWh)	Awarded capacity (MW)
		Onix Renewables	3.09	100
		Jindal India Renewable Energy	3.09	180
NUDC (Transha ) (U) ICTC composited		NTPC Renewable Energy	3.09	300
NHPC (Tranche VIII), ISTS-connected solar, ESS, Sep 2024	1,200 MW	Kolar Solar Power (Rays Power Infra)	3.09	150
		ReNew Solar Power 3.10		300
		Adani Renewable Energy Holding Nine (Adani Green)	3.10	170
		Solar World	2.21	125 MW/250 MWh
DUNAL DESS Dejecther New 2024	500 MW/1,000	Oriana Power	2.22	50 MW/100 MWh
RUVNL, BESS, Rajasthan, Nov 2024	MWh	Rays Power Experts	2.23	75 MW/150 MWh
		JSW Neo Energy	2.24	250 MW/500 MWh
HPPCL, EPC Contracts for Solar Projects, June 2024	23 MW	Saatvik Green	2.55	23
SECI, ISTS-connected projects under Tariff-based competitive bidding (FDRE-VI), Pan India, Sep 2024	2000 MW/ 8000 MWh	Altra Xergi (O2 Power)	8.50	200/800 MWh
UPPCL, Solar, Pan India, Feb 2024	2000 MW	NTPC REL	2.56	1000 MW
		Jindal Renewables	3.38	350 MW
		Datta Infra	3.44	150 MW
NTPC, Wind Solar Hybrid, Pan India, Aug 2024	1200 MW	EverGreen Power	3.44	200 MW
Aug 2024		AmpIn Energy	3.44	150 MW
		Adani	3.44	350 MW
SJVN, Wind, Pan India, Mar 2024	COO N 414/	Datta Infra	3.98	70 MW
	600 MW	UPC Renewables	3.99	100 MW
		KPI Energy	2.28-3.0	51 MW
		Shree Ganesh Corporation	3.0	45.5 MW
DGVCL, PM KUSUM, Solar	160 MW	Sartha Infrastructure	2.85	15.5 MW
		Hari Singh Chauhan	2.98	15 MW
		Others	2.25-3.0	33 MW

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# Monthly INSIGHTS

## **Regulatory Updates**



Issue Date	Policy, Orders, and Regulations	Agency							
	Notices								
1 <sup>st</sup> Jan'25	Public Notice on Draft Amendments to Regulation No 4 of 2013 Regulation No 5 of 2004 Regulation 6 of 2004 and GTCS	APERC							
ath a los	Determination of generic levelized Tariff for Solar PV Projects for FY 2025-26 under HPERC (Promotion of	HPERC							
7 <sup>th</sup> Jan'25	Generation from RE Sources and Terms and Conditions for Tariff Determination) Regulations, 2017								
11 <sup>th</sup> Jan'25	Guidelines for Installation and Operation of Battery Swapping and Charging Stations	МоР							
13 <sup>th</sup> Jan'25	Discussion paper on Regulatory Framework for Renewable Energy in Kerala	KSERC							
13 <sup>th</sup> Jan'25	Draft Terms and Conditions of Generation Tariff Regulation, 2024 for the tariff period from 1. 4.2024 to 31.3.2029	UPERC							
16 <sup>th</sup> Jan'25	Inviting comments on Draft (Multi Year Tariff for Distribution) Regulations, 2025	UPERC							
20 <sup>th</sup> Jan'25	Draft Karnataka Electricity Grid Code (KEGC), 2024	KERC							
21 <sup>st</sup> Jan'25	Public notice for time extension of Draft amendments to Regulation No 4 of 2013 Regulation No 5 of 2004 Regulation 6 of 2004 and GTCS	APERC							
24 <sup>th</sup> Jan'25	Draft Regulations of the Gujarat Electricity Regulatory Commission (Terms and Conditions for Green Open Access) (Second Amendment) Regulations, 2025	GERC							
	Orders								
22 <sup>nd</sup> Jan'25	Multi Year Tariff Order For Himachal Pradesh Power Transmission Corporation Limited (HPPTCL) FY 2024-25 to FY 2028-29	HPERC							
27 <sup>th</sup> Jan'25	Solar Systems, Devices and Components Goods Order, 2025	MNRE							
	Office Memorandum								
6 <sup>th</sup> Jan'25	Updated (06.01.2025) List-I under ALMM order for Solar PV Modules	MNRE							
23 <sup>rd</sup> Jan'25	Updated (23.01.2025) List-I under ALMM order for Solar PV Modules	MNRE							
	Press Release								
1 <sup>st</sup> Jan'25	Year End Review - 2024	PIB							
2 <sup>nd</sup> Jan'25	Clarification on Smart Meters	APERC							
4 <sup>th</sup> Jan'25	Press Note dated 04.01.2025 on 10th State Coordination Forum Meeting	APERC							
6 <sup>th</sup> Jan'25	UJALA: 10 Years of Energy-Efficient Lighting	PIB							
14 <sup>th</sup> Jan'25	MNRE issues Operational Guidelines for implementation of components under PM-Surya Ghar: Muft Bijli Yojana	PIB							
	Union Minister Shri Manohar Lal chairs meeting of the Consultative Committee of the Members of Parliament for	FID							
17 <sup>th</sup> Jan'25	Ministry of Power	PIB							
17 <sup>th</sup> Jan'25	Press Release dated 17-01-2025 on SAC Meeting	APERC							
17 <sup>th</sup> Jan'25	Union Food and Consumer Affairs Minister announces revised Open Market Sale Scheme (Domestic) Policy for 2024-25	PIB							
18 <sup>th</sup> Jan'25	Union Minister Shri Manohar Lal Chairs the Meeting of the Consultative Committee of the Members of Parliament for Ministry of Power	PIB							
24 <sup>th</sup> Jan'25	Bureau of Energy Efficiency (BEE) and The Energy and Resources Institute(TERI) signs MoU to Establish Centre of Excellence on Energy Transition in Hyderabad	PIB							
	Reports								
	Akshay Urja Magazine Volume 14 • Issue 1 • January 2025	KSERC							

Source: State Regulatory Commissions, CERC, MoP, MNRE

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## Monthly INSIGHTS January 2025



## **Regulatory Updates**

Issue Date	Policy, Orders, and Regulations	Agency
	Central Regulations	
7 <sup>th</sup> Jan'25	Central Electricity Regulatory Commission (Conduct of Business) (First Amendment) Regulations, 2025	CERC
7 <sup>th</sup> Jan'25	Central Electricity Regulatory Commission (Appointment of Consultants) (Fifth Amendment) Regulations, 2025	CERC
	State Regulations	
1 <sup>st</sup> Jan'25	Draft Karnataka Electricity Regulatory Commission (Ancillary Services) Regulations, 2024	KERC
16 <sup>th</sup> Jan'25	Draft Karnataka Electricity Regulatory Commission (Terms and Conditions for Open Access) Regulations, 2025	KERC
16 <sup>th</sup> Jan'25	Draft KERC (Consumer Grievance Redressal Forum and Ombudsman) (Third Amendment) Regulations 2025	KERC
20 <sup>th</sup> Jan'25	Draft Karnataka Electricity Grid Code (KEGC), 2024	KERC
20 <sup>th</sup> Jan'25	Draft Karnataka Electricity Distribution Code (KEDC), 2024	KERC
20 <sup>th</sup> Jan'25	KERC (Implementation of Rooftop Aero Turbine with solar or without solar) Regulations, 2025	KERC
24 <sup>th</sup> Jan'25	Grant of connectivity to the intrastate transmission system regulations, 2025	AERC
24 <sup>th</sup> Jan'25	Draft Gujarat Electricity Regulatory Commission (Terms & Conditions for Green Energy Open Access) (Second Amendment) Regulations, 2025	GERC



# **GNA ENERGY** OTC PLATFORM

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