

Monthly Report on Short-term Transactions of Electricity in India

November 2024



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Abbreviations

Abbreviation	Expanded Version
ABSP_ANTP	Acme Bhiwadi Solar Power Private Limited, Anantpur
ACBIL	ACB (India) Limited
ACP	Area Clearing Price
ACV	Area Clearing Volume
ACME_SLR	ACME Solar Power Project
ACME_RUMS	Acme Rewa Ultra Mega Solar Project
ADANI_4RE	Adani Renewable Energy Holding Four Limited
ADANI GREEN	Adani Green Energy Limited
ADANIHB_SLR	Adani Hybrid Energy Jaisalmer One Limited (Solar)
ADANI_SLR 4	Adani Solar Energy Four Private Limited
ADANIHB_WIND	Adani Hybrid Energy Jaisalmer One Limited (Wind)
ADEPT	Adept Renewable Technologies Private Limited
ADY1_PVGD	Adyah Solar Energy Pvt Ltd., Block 1 Pavagada Solar Park
ADY2_PVGD	Adyah Solar Energy Pvt Ltd., Block 2 Pavagada Solar Park
ADY3_PVGD	Adyah Solar Energy Pvt Ltd., Block 3 Pavagada Solar Park
ADY6_PVGD	Adyah Solar Energy Pvt Ltd., Block 6 Pavagada Solar Park
ADY10_PVGD	Adyah Solar Energy Pvt Ltd., Block 10 Pavagada Solar Park
ADY13_PVGD	Adyah Solar Energy Pvt Ltd., Block 13 Pavagada Solar Park
AGEMPL BHUJ	Adani Green Energy (MP) Ltd.,Bhuj
AHEJOL_S_FTG2	Adani Hybrid Energy Jaisalmer One Limited (SOLAR)
AHEJOL_W_FTG2	Adani Hybrid Energy Jaisalmer One Limited (WIND)
AHEJ2L_SOLAR	Adani Hybrid Energy Jaisalmer Two Limited (Solar)
AHEJ3L_SOLAR	Adani Hybrid Energy Jaisalmer Three Limited (Solar)
AHEJ4L_SOLAR	Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Solar
AHEJ4L_WIND	Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Wind
AHSP_ANTP	Acme Hisar Solar Power Private Limited,Anantpur
AKS_PVGD	ACME Kurukshetra Solar Energy Pvt. Ltd
AKSP_ANTP	Acme Karnal Solar Power Private Limited,Anantpur
ALFANAR_BHUJ	Alfanar Group Wind Project, Bhuj, Gujarat
ALTRA XERGI	Altra Xergi Power Private Limited
AMP_GREEN6	Amp Energy Green Six Private Limited
AMPLUS_AGES	Amplus Ages Private Limited
AMPS Hazira	Arcelor Mittal Nippon Steel, Hazira
APTEL	Appellate Tribunal for Electricity
ARERJL_SLR	Adani Renewable Energy Park Rajasthan Ltd.
ARINSUM_RUMS	Solenergi RewaUltraMega Solar Project
ARS_PVGD	ACME REWARI Solar Power Pvt Ltd.
ARTPP	Adani Power Limited - Raipur TPP
ASEJTL_SLR	Adani Solar Energy Jodhpur Two Ltd.
AVAADA1_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 1
AVAADA2_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 2
AVADARJHN_SLR	Avaada Rjhn Private Limited_Solar
AYANA_NPKUNTA	Ayana Power, NP Kunta
AZURE_ANTP	Azure Power,Anantpur
AZURE_PVGD	Azure Power,Pavagada
AZURE_SLR	Azure Power Solar Power Project
AZURE34_SLR	Azure Power 34 Pvt. Ltd. Solar Power Project
AZURE43_SLR	Azure Power Forty Three Private Limited
BALCO	Bharat Aluminum Company Limited
BARC	Bhabha Atomic Research Centre
BASOCHHU HEP	Basochhu Hydropower Plant Bhutan
BBMB	Bhakra Beas Management Board

BETAM_TCN	Betam Wind Energy Private Limited, Tuticorin
BHADRAVATHI HVDC	Bhadravathi High Voltage Direct Current Link
BRBCL	Bhartiya Rail Bijlee Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUKHA HEP	Chhukha Hydroelectric Project, Bhutan
CHUZACHEN HEP	Chuzachen Hydro Electric Power Project
CLEAN_SLR	Clean Solar Power Pvt. Ltd
CLEANSPL_SLR	Clean Solar Jodhpur Pvt Ltd
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DAM	Day Ahead Market
DEVKOOT_SLR	Devkoot Solar Power Plant, NTPC Green Energy Ltd.
DCPP	Donga Mahua Captive Power Plant
DD&DNH	Daman and Diu & Dadar Nagar Haveli
DGEN MEGA POWER	DGEN Mega Power Project
DGPCL Bhutan	Druk Green Power Corporation Ltd., Bhutan
DHARIWAL POWER	Dhariwal Power Station
DIKCHU HEP	Dikchu Hydro-electric Project, Sikkim
DOYANG HEP	DoyangHydro Electric Project
DSM	Deviation Settlement Mechanism
DVC	Damodar Valley Corporation
EDEN_SLR	Eden RE Cite Private limited
EMCO	EMCO Energy Limited
ESPL_RADHANESDA	Electro Solaire Private Limited, Radhanesda
ESSAR POWER	Essar Power Limited
FORTUM1_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 1
FORTUM2_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 2
FRV_ANTP	Fotowatio Renewable Ventures, Anantapur
FRV_NPK	Fotowatio Renewable Ventures, NP Kunta
GIPCL_RADHANESDA	Gujarat Industries Power Company Ltd, Radhanesda
GIWEL_BHUJ	Green infra wind energy Limited, Bhuj
GIWEL_TCN	Green Infra Wind Energy Limited,Tuticorin
GMR CHHATTISGARH	GMR Chhattisgarh Energy Limited
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
G-DAM	Green Day Ahead Market
GRIAN	Grian Energy Private Limited
GSECL P-II	GSECL Raghnesda Solar Park (Phase-II)
G-TAM	Green Term Ahead Market
HPX	Hindustan Power Exchange Limited
HP-DAM	High Price Day Ahead Market
HP-TAM	High Price Term Ahead Market
HVDC ALPD	Alipurduar High Voltage Direct Current Link
HVDC CHAMPA	Champa-Kurukshetra High Voltage Direct Current Link
HVDC PUS	PasauliHigh Voltage Direct Current Link
HVDC RAIGARH	Raigarh-Pugalur High Voltage Direct Current Link
IBEUL	Ind Bharat Energy Utkal Limited
IEX	Indian Energy Exchange Limited
IGSTPS	Indira Gandhi Super Thermal Power Station Jhajjar
IL&FS	Infrastructure Leasing & Financial Services Limited
INOX_BHUJ	INOX Wind Limited, Bhuj, Gujarat
J&K	Jammu & Kashmir
JAYPEE NIGRIE	Jaypee Nigrie Super Thermal Power Project

JHABUA POWER MP	Jhabua Thermal Power Project
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
JITPL	Jindal India Thermal Power Ltd.
JORETHANG	Jorethang Loop Hydroelectric Power Project
JSW_RENEW_2	JSW Renew Energy Two Limited
KAPP 3&4	Kakrapar Atomic Power Station Unit 3 & 4
KARCHAM WANGTOO	Karcham Wangtoo H.E. Project
KBUNL	Kanti Bijlee Utpadan Nigam Limited
KHURJA STPP	Khurja Super Thermal Power Plant
KORBA WEST POWER	Korba West Power Company Limited
KOTESHWAR	Koteshwar Hydro Power project
KREDL_PVGD	Karnataka Renewable Energy Development Ltd,Pavagada
KSK MAHANADI	KSK Mahanadi Power Ltd
KSMPL_SLR	Kilaj Solar (Maharashtra) Private Limited
KURICHU HEP	Kurichhu Hydro-electric Power Station, Bhutan
LANKO_AMK	LancoAmarkantak Power Private Limited
LANKO BUDHIL	LancoBudhil Hydro Power Private Limited
LANKOKONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MAHINDRA_RUMS	Mahindra Rewa Ultra Mega Solar Project
MAHOBASLR	Mahoba Solar Power Project
MALANA	Malana Hydroelectric Plant
MANGDECHU HEP	Mangdechhu Hydroelectric Project, Mangdechhu River, Bhutan
Maruti Coal	Maruti Clean Coal and Power Limited
MB POWER	MB Power Ltd
MEENAKSHI	Meenakshi Energy Private Limited
MRPL	Mahindra Renewables Private Limited
MSEPL	Masaya Solar Energy Private Limited
MSRPL	Mega Solis Renewables Pvt. Ltd.
MTPS	TATA Power Mundra Thermal Power Station
MTPS II	Muzaffarpur Thermal Power Station – Stage II
MYTRAH_TCN	Mytrah Energy (India) Private Limited,Tuticorin
MU	Million Units
NAPP	Narora Atomic Power Plant
NCR ALLAHABAD	North Central Railway, Allahabad
NEEPCO	North Eastern Electric Power Corporation Limited
NEP	Nepal
NFL	National Fertilisers Limited
NHPC STATIONS	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLC	Neyveli Lignite Corporation Limited
NLDC	National Load Dispatch Centre
NOKHRA_STPP	Nokhra Solar Power Plant, NTPC Green Energy Ltd.
NPGC	Nabinagar Power Generating Company (Pvt.) Limited
NREL_DAYAPAR (W)	NREL-Dayapar Wind
NSPCL	NTPC - SAIL Power Company Private Limited
NTECLVallur	NTPC Tamil Nadu Energy Company Limited Vallur
NTPC_ANTP	NTPC Anantapur
NTPC STATIONS	National Thermal Power Corporation Ltd. Stations
NTPL	NLC Tamil Nadu Power Limited
NVVN	NTPC Vidyut Vyapar Nigam Limited
OCF	Order Carry Forward
ONEVOLT	Onevolt Energy Private Limited

ONGC Platana	ONGC Tripura Power Company
OPGC	Odisha Power Generation Corporation
ORANGE_TCN	Orange Renewable Power Pvt. Ltd, Tuticorin
OSTRO	Ostro Energy Private Limited
OTC	Over The Counter
PARAM_PVGD	Parampujya Solar Energy Private Ltd
PARE HEP	Pare hydroelectric project, Arunachal Pradesh
PXIL	Power Exchange India Limited
RAMPUR HEP	Rampur Hydro Electric Power Project
RANGIT HEP	Rangit Hydroelectric power project
RANGANADI HEP	Ranganadi Hydro Electric Power Project, Arunachal Pradesh
RAP-B	Rajasthan Atomic Power Plant-B
RAP-C	Rajasthan Atomic Power Plant-C
RAPP 7&8	Rajasthan Atomic Project 7&8
REC	Renewable Energy Certificate
REGL	Raigarh Energy Generation Limited
RENEW_BHACHAU	ReNew Power Limited, Bhachau
RENEW_BHUI	ReNew Power Limited, Bhuj
RENEW_PVGD	ReNew Wind Energy (TN2) Private Limited
RENEW_ROSHNI FATEHGARH	Renew Surya Roshni Private Limited-Fatehgarh-III PS
RENEW_SAAVAN	Renew Surya Aayan Private Limited
RENEW_SLR_BKN	Renew Solar Bikaner
RENEW_SOJAS	Renew Surya Ojas Private Limited-Wind
RENEW_SPRATAP	Renew Surya Pratap Private Limited
RENEW_SR_SLR	Renew Surya Ravi Private Limited (Solar)
RENEW_SVIHAAN	Renew Surya Vihaan Private Limited
RENEW_ROSHNI	Renew Surya Roshni Private Limited Koppal PS
RENEWJH_SLR	Renew Solar Energy (Jharkhand Three) Private Limited
RENEWURJA_SLR	ReNew Solar Urja Private Limited
RGPPL_IR	Ratnagiri Gas and Power Private Ltd., supply to Indian Railways
RGPPL_OTHER	Ratnagiri Gas and Power Private Limited
RISING_SLR	Rising Sun Energy Pvt. Ltd.
RLDC	Regional Load Dispatch Centre
RONGNICHU HEP	Rongnichu Hydro Electric Power Project
RPREL	Raipur Energen Limited
RSTPS_FSPP	NTPC Ramagundam STPS- Floating Solar PV Project
RTC	Round The Clock
RTM	Real Time Market
SasanUMPP	Sasan Ultra Mega Power Project
SB_SLR	Soft Bank Solar
SB6_POKARAN	SB Energy Six Private Limited, Pokaran
SBG CLEANTECH_SLR	SBG Cleantech Ltd
SBG_NPK	SB Energy Solar Private Limited, NP Kunta
SBG_PVGD	SB Energy Solar Private Limited, Pavagada
SBSR_SLR	SBSR Power Cleantech Eleven Private Limited
SEMBCORP	Sembcorp Gayatri Power Ltd
SIMHAPURI	Simhapuri Energy Private Limited
SKS Power	SKS Power Generation Chhattisgarh Limited
SESPL	Srijan Energy Systems Pvt. Ltd.
SINGOLI BHATWARI HEP	Singoli-Bhatwari Hydroelectric Project, Uttarakhand
SKRPL	Sitac Kabini Renewables Pvt. Ltd.
SPRNG_NPKUNTA	Spring Energy, NP Kunta
SPRING_PUGALUR	Spring Solar Power Private Limited, Pugalur
SUL	Sikkim Urja Limited

TALA HEP	Tala Hydroelectric Project, Bhutan
TASHIDENG HEP	Tashiding Hydro Electric Project, Sikkim
TATA_ANTP	TATA Power Anantapur
TATA_PVGD	Tata Power Renewable Energy Ltd
TATA_SLR	Tata Solar
TAM	Term Ahead Market
TEESTA STG3	Teesta Stage 3 Hydro Power Project
TEHRI	Tehri Hydro Electric Power Project
TESPL	Transition Energy Services Private Limited
THAR1_SLR	Thar Surya Ravi One Pvt Ltd
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
TPREL_RADHANESDA	Tata Power Renewable Energy Limited, Radhanesda
TPS	Thermal Power Station
TPSL	TP Saurya Limited
VINDHYACHAL HVDC	Vindhyachal High Voltage Direct Current Link
WA	Weighted Average
YARROW_PVGD	Yarrow Infra Structure Private Ltd

1. Introduction

1.1. A well-functioning electricity market requires an effective market monitoring process. The monthly report on short-term transactions of electricity, published by CERC since 2008 as part of its market monitoring process, provides a snapshot of key aspects of short-term transactions of electricity in India. Here, “short-term transactions of electricity” refers to the contracts of less than one year period for electricity transacted (inter-State) - through Trading Licensees, directly between entities and on Power Exchanges (Indian Energy Exchange Ltd. (IEX), Power Exchange India Ltd. (PXIL) and Hindustan Power Exchange Ltd. (HPX)). “DSM Volume” includes the volume recorded under Deviation Settlement Mechanism. The main objectives of the report are: (i) to analyse the volume and price of the short-term transactions of electricity; (ii) to assess the competition among the market players; (iii) to analyse the effect of congestion on the volume of electricity transacted through power exchanges; (iv) to provide information on volume and price of Renewable Energy Certificates (RECs) transacted through power exchanges; and (v) to disseminate all other relevant market information. The analysis of short-term transactions of electricity and DSM volume during the month of **November 2024** is presented in the following sections.

2. Volume of Short-term Transactions of Electricity and DSM

2.1. During November 2024, total electricity generation, excluding generation from renewable and captive power plants in India, was 117795.80 MU (Table-1). Of the total electricity generation, 12.92% was transacted through short-term and DSM, comprising 8.01% through power exchanges {Day Ahead Market (DAM) (including G-DAM & HP-DAM) and Real Time Market (RTM)}, followed by 3.08% through bilateral (through Traders and Term-Ahead contracts on power exchanges), and directly between entities, and 1.84% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (15224.86 MU¹), 61.95% was transacted through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, followed by 23.83% through bilateral² (i.e., through Traders, Term-Ahead contracts on power exchanges and directly between entities), and 14.22% through DSM (Table-1 & Figure-2). The

¹ Volume here has been finalised in consultation with Grid India, after resolving issues that emerged post implementation of GNA Regulations and transition to new WBES software by Grid India.

² includes bilateral short-term transactions under GNA and T-GNA

daily volume of short-term transactions is shown in Table-30. Figure-4 shows the daily volume trend for short-term transactions and DSM volume.

2.3. Of the total volume of electricity transacted through power exchanges, 59.67% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 28.16% in RTM and 12.17% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) (Figure-3).

2.4. The share of electricity traded by each trading licensee is given in Table-2 & Figure-5 shows the share of the top 5 trading licensees. The volume of electricity transacted by the trading licensees includes bilateral transactions and transactions undertaken through power exchanges. There were 62 trading licensees as of November 2024. Of these, 36 trading licensees were engaged in short-term trading. The top 5 trading licensees, namely PTC India Ltd., Powerpulse Trading Solutions Ltd., NTPC Vidyut Vyapar Nigam Ltd., Tata Power Trading Company (P) Ltd., and Manikaran Power Ltd., had a share of 84.38% in the total volume of electricity traded by all the licensees.

2.5. Herfindahl-Hirschman Index (HHI), a commonly accepted index to calculate market concentration, has been used to measure competition among trading licensees. An increase in the HHI generally indicates a decrease in competition and an increase in market concentration, and vice versa. The HHI below 0.15 indicates non-concentration, the HHI between 0.15 and 0.25 indicates moderate concentration, and the HHI above 0.25 indicates high concentration. The HHI has been computed based on the volume of electricity traded (inter-State & intra-State) by inter-State trading licensees, and it was 0.2105 for the month of November 2024, which indicates the moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX and PXIL was 5616.36 MU and 0.21 MU, respectively, while no electricity was transacted in the DAM of HPX. The volume of total buy bids and sell bids was 8311.83 MU and 14809.94 MU, respectively in IEX. The same was 35.51 MU and 117.33 MU, respectively in PXIL. While no buy bids were received in HPX, the volume of total sell bids was 82.87 MU.

2.7. Of the total volume of electricity transacted in the DAM of IEX, the volume sold by the neighbouring countries of India was 1.10 MU, and the volume purchased by the neighbouring countries was 14.02 MU, under the Cross Border Trade of electricity through power exchanges

(Table-37(a)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.8. The volume of electricity transacted in the G-DAM of IEX and PXIL was 790.29 MU and 0.74 MU, respectively, while no electricity was transacted in the G-DAM of HPX. The volume of total buy bids and sell bids was 2333.34 MU and 952.08 MU, respectively, in IEX. The same was 160.63 MU and 0.74 MU, respectively, in PXIL. No bids were received in HPX.

2.9. No electricity was transacted in the HP-DAM of IEX, PXIL and HPX. While no buy bids were received in IEX, the volume of total sell bids was 2436.04 MU. No bids were received in PXIL and HPX.

2.10. The volume of electricity transacted in the RTM of IEX, PXIL and HPX was 3019.15 MU, 5.11 MU and 0.18 MU, respectively. The volume of total buy bids and sell bids was 3899.86 MU and 7789.61 MU, respectively in IEX; 10.05 MU and 11.26 MU, respectively, in PXIL; and 0.23 MU and 6.60 MU, respectively in HPX. The variation in the volume of buy bids and sell bids placed through power exchanges shows variation in the demand and supply position.

2.11. Of the total volume of electricity transacted in the RTM of IEX, the volume sold by the neighbouring countries of India was 198.39 MU, and the volume purchased was 11.56 MU, under the Cross Border Trade of electricity through power exchanges (Table-37(b)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.12. The volume of electricity transacted in the TAM of IEX, PXIL and HPX was 201.91 MU, 454.85 MU, and 573.22 MU, respectively (Table-9, Table-10 & Table-11). The volume of electricity transacted in the Green Term Ahead Market (G-TAM) of IEX, PXIL and HPX was 24.60 MU, 11.66 MU, and 40.90 MU, respectively (Table-12, Table-13 & Table-14).

2.13. No electricity was transacted in HP-TAM of IEX, PXIL and HPX (Table-15, Table-16 & Table-17).

3. Price of Short-term Transactions of Electricity and DSM charges

3.1. **Price of electricity transacted through Traders:** The minimum, maximum and weighted average sale prices for the electricity transacted through traders were ₹2.57/kWh, ₹8.00/kWh and ₹5.88/kWh, respectively (Table-3). The weighted average sale prices were also computed for the electricity transacted during Round the Clock (RTC) and Off-peak periods separately, and the sale prices were ₹5.45/kWh and ₹6.50/kWh, respectively. No electricity was transacted through traders during only Peak periods (Table-4).

3.2. **Price of electricity transacted through Power Exchanges:** The minimum, maximum and weighted average prices for the electricity transacted in the DAM of IEX were ₹0.57/kWh, ₹10.00/kWh and ₹3.52/kWh, respectively. These prices in the DAM of PXIL were ₹3.50/kWh, ₹10.00/kWh and ₹8.43/kWh respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹0.70/kWh, ₹10.00/kWh and ₹3.19/kWh, respectively. These prices in the G-DAM of PXIL were ₹3.20/kWh, ₹3.70/kWh and ₹3.40/kWh respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.25/kWh, ₹10.00/kWh and ₹3.42/kWh, respectively. These prices in the RTM of PXIL were ₹2.77/kWh, ₹10.00/kWh and ₹9.99/kWh respectively. These prices in the RTM of HPX were ₹10.00/kWh, ₹10.00/kWh and ₹10.00/kWh respectively (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹5.47/kWh, ₹5.24/kWh and ₹5.41/kWh, respectively (Table-9, Table-10 and Table-11). The weighted average price of electricity transacted in the G-TAM of IEX, PXIL and HPX was ₹4.12/kWh, ₹4.26/kWh and ₹3.80/kWh, respectively (Table-12, Table-13 and Table-14). No electricity was transacted in HP-DAM & HP-TAM of IEX; in HP-DAM & HP-TAM of PXIL; and in DAM, G-DAM, HP-DAM & HP-TAM of HPX.

3.3. **DSM Charges:** The minimum, maximum and average charges under DSM was ₹1.54/kWh, ₹14.01/kWh and ₹4.01/kWh, respectively (Table-33).

3.4. The comparison of weighted average prices of electricity transacted through trading licensees and power exchanges (collective transactions) is shown in Figure-6. The daily prices of electricity transacted through various segments (collective transactions) at power exchanges and their comparison are shown in Table-31(a), (b), (c) & (d) and Figure-7. The daily volume and charges under DSM are shown in Table-33.

4. Trading Margin

4.1. As per the CERC (Procedure, Terms, and Conditions for grant of trading licence and other related matters) Regulations 2020, the trading licensees are allowed to charge a trading margin of not less than 0 paise/kWh and up to 7 paise/kWh. The weighted average trading margin charged by the trading licensees for bilateral transactions during the month was ₹0.02/kWh.

5. Volume of Short-term Transactions of Electricity (Regional Entity³-Wise)

5.1. Of the total bilateral transactions, the top 5 regional entities/states sold 42.06% of the volume. These were Uttar Pradesh, Jindal Power Limited Stage-II, Punjab, SKS Power Generation Chhattisgarh Ltd. and Odisha. The HHI for sellers was 0.0521, which indicates non-concentration of the market (Table-18). The top 5 regional entities/states purchased 63.64% of the volume, and these were Madhya Pradesh, Rajasthan, Himachal Pradesh, Tamil Nadu and Jammu & Kashmir. The HHI for buyers was 0.1040, which indicates the non-concentration of market (Table-19).

5.2. Of the total DAM transactions at power exchanges, the top 5 regional entities/states sold 41.80% of the volume, and these were Chhattisgarh, Odisha, Jindal Power Limited Stage-II, Bihar and Adani Power Limited - Raipur TPP. The HHI for sellers in DAM was 0.0499, which indicates the non-concentration of market (Table-20). The top 5 regional entities/states purchased 63.75% of the volume, and these were Gujarat, Maharashtra, Telangana, Andhra Pradesh and Rajasthan. The HHI for buyers in DAM was 0.1080, which indicates the non-concentration of market (Table-21).

5.3. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 60.24% of the volume, and these were Karnataka, Adani Renewable Energy Holding Four Ltd., Adani Green Energy Twenty Five B Ltd. (Infirm), Adani Green Energy Twenty Five Ltd. (Infirm) and Adani Green Energy Twenty Five A Ltd. (Infirm). The HHI for sellers in G-DAM was 0.1136, which indicates the non-concentration of the market (Table-22). The top 5 regional entities/states purchased 73.60% of the volume, and these were Odisha, Maharashtra, Damodar

³ In case of a State, the entities which are “selling” also include generators connected to State Grid and the entities which are “buying” also include open access consumers.

Valley Corporation, Arcelor Mittal Nippon Steel Hazira and Tamil Nadu. The HHI for buyers in G-DAM was 0.1178, which indicates non-concentration of the market (Table-23).

5.4. No volume was traded in HP-DAM of all three power exchanges.

5.5. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 41.11% of the volume, and these were Bihar, Haryana, Odisha, Nepal Electricity Authority Muzaffarpur and Tamil Nadu. The HHI for sellers in RTM was 0.0533, which indicates the non-concentration of market (Table-26). The top 5 regional entities/states purchased 53.51% of the volume, and these were Maharashtra, Telangana, Punjab, Rajasthan and Andhra Pradesh. The HHI for buyers in RTM was 0.0779, which indicates non-concentration of the market (Table-27).

5.6. The total volume of net short-term transactions of electricity (Regional entity-wise), i.e., the volume of net transactions through bilateral and power exchanges is shown in Table-28 & 32. The top 5 electricity selling regional entities/states of short-term transactions were Bihar, Jindal Power Limited Stage-II, Chhattisgarh, Odisha and Haryana. The top 5 electricity purchasing regional entities/states of short-term transactions were Maharashtra, Gujarat, Rajasthan, Telangana and Tamil Nadu.

5.7. Of the total under-drawal/ over-injection volume under DSM in November 2024, the top 5 regional entities/states accounted for 21.45% of the volume, and these were Madhya Pradesh, Punjab, Haryana, Rajasthan and Tamil Nadu (Table-34). The top 5 regional entities/states under DSM accounted for 18.35% of the total over-drawal/ under-injection volume, and these were Maharashtra, Tamil Nadu, Karnataka, West Bengal and Uttar Pradesh (Table-35).

6. Congestion⁴ on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges

6.1. Power exchanges use a price discovery mechanism in which the aggregate demand and supply are matched to arrive at an unconstrained market price and volume. This process assumes that there is no congestion in the inter-State transmission system between different

⁴ “Congestion” means a situation where the demand for transmission capacity exceeds the available transfer capability

regions. However, in reality, the system operator (NLDC), in coordination with RLDCs, limits the flow (due to congestion) in the inter-State transmission system. In such a situation, power exchanges adopt a mechanism called “Market Splitting”⁵.

6.2. The volume of electricity that could not be cleared due to congestion & other reasons and could not be transacted through power exchanges is the difference between unconstrained cleared volume and actual cleared volume. During the month of November 2024, no congestion was experienced in any of the power exchanges. There was real time curtailment of 0.58 MU in DAM at IEX (Table-29).

7. Volume and Price of Renewable Energy Certificates (RECs)

7.1. The concept of Renewable Energy Certificates (RECs) seeks to address the mismatch between the availability of renewable energy and the requirement of the obligated entities to meet their renewable purchase obligation by purchasing green attributes of renewable energy remotely located in the form of RECs. The REC mechanism is a market-based instrument to promote renewable sources of energy and the development of the electricity market.

7.2. One REC is equivalent to 1 MWh of electricity injected into the grid from renewable energy sources. The REC is exchanged only in the power exchanges approved by CERC within the band of a floor price and forbearance (ceiling) price as notified by CERC from time to time. The first REC trading was held on power exchanges in May 2011.

7.3. The categorisation of RECs has been dispensed with on introduction of the concept of multiplier under the CERC (Terms and Conditions for Renewable Energy Certificates for Renewable Energy Generation) Regulations, 2022, brought into effect from 05.12.2022. Accordingly, the power exchanges deactivated the Solar and Non-Solar REC contract for trading w.e.f. December 2022. A new contract named “REC” has been made available for trading on the power exchanges. Further, RECs can also be exchanged through trading licensees as per the REC Regulations 2022.

⁵“Market Splitting” is a mechanism adopted by Power Exchanges, where the market is split in the event of transmission congestion, into predetermined (by NLDC) bid areas or zones, which are cleared individually at their respective area prices such that the energy balance in every bid area is reached based upon the demand and supply in individual bid areas and using the available transmission corridor capacity between various bid areas simultaneously. As a result of this market splitting the price of electricity in the importing region, where demand for electricity is more than supply, becomes relatively higher than the price of electricity in the exporting region.

7.4. The details of REC transactions for the month of November 2024 are shown in Table-36. The market clearing volume of RECs transacted on IEX, PXIL, and HPX was 545960, 300237 and 8788, respectively. The weighted average market clearing price of these RECs was ₹150/MWh in IEX, ₹162/MWh in PXIL, and ₹180/MWh in HPX.

7.5. The gap between the volume of buy and sell bids of RECs placed through power exchanges shows the variation in demand for the RECs. The ratio of buy bids to sell bids was 1.53, 1.14 and 0.37 in IEX, PXIL, and HPX, respectively.

7.6. The volume of RECs transacted through Trading Licensees in November 2024 was 561438. The weighted average trade price for the RECs transacted through traders was ₹140/MWh.

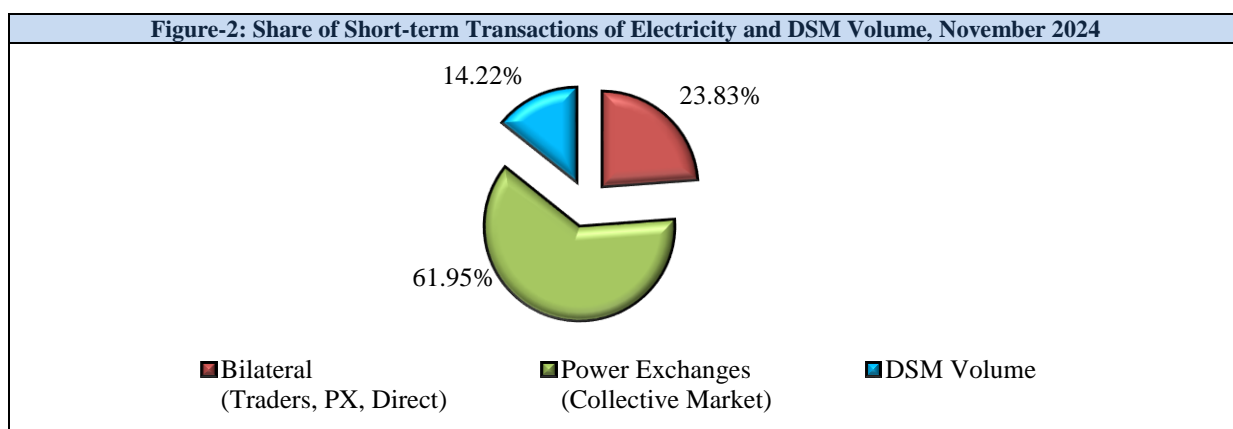
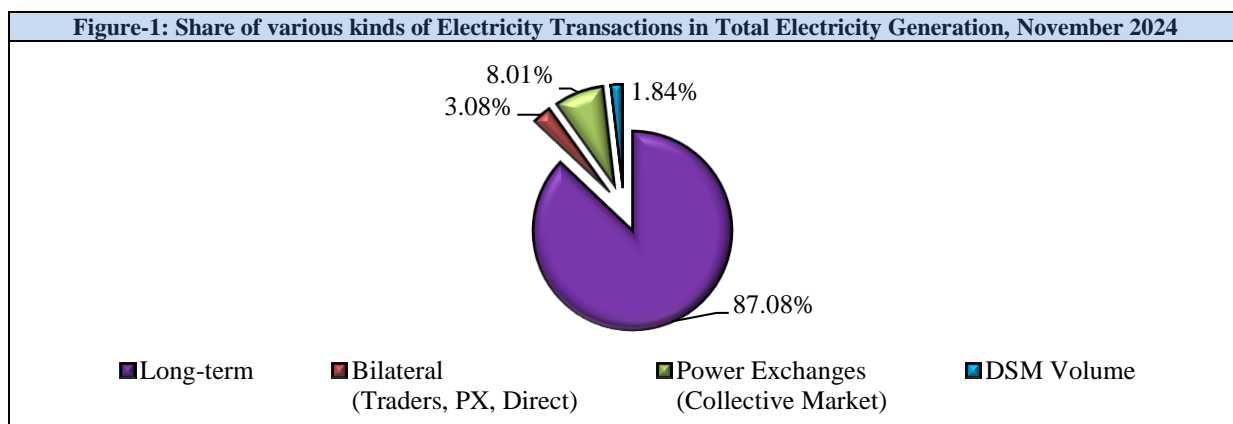
8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 12.92%.
- b) Of the total short-term transactions and DSM volume (15224.86 MU), 61.95% was transacted through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, followed by 23.83% through bilateral (i.e., through Traders, Term-Ahead contracts on power exchanges and directly between entities), and 14.22% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 59.67% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 28.16% in RTM and 12.17% in Term Ahead Market (TAM) (including G-TAM & HP-TAM).
- d) The top 5 trading licensees had a share of 84.38% in the total volume traded by all the trading licensees.
- e) The Herfindahl Hirschman Index computed for the volume of electricity traded by trading licensees was 0.2105, indicating the moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹5.88/kWh.

- g) The weighted average price of electricity transacted in DAM of IEX and PXIL was ₹3.52/kWh and ₹8.43/kWh, respectively, while no electricity was transacted in DAM of HPX. The weighted average price of electricity transacted in G-DAM of IEX and PXIL was ₹3.19/kWh and ₹3.40/kWh, respectively, while no electricity was transacted in G-DAM of HPX. No electricity was transacted in HP-DAM of all the three power exchanges. The weighted average price of electricity transacted in the RTM of IEX, PXIL and HPX was ₹3.42/kWh, ₹9.99/kWh and ₹10.00/kWh, respectively.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL, and HPX was ₹5.47/kWh, ₹5.24/kWh, and ₹5.41/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX, PXIL, and HPX was ₹4.12/kWh, ₹4.26/kWh, and ₹3.80/kWh, respectively. No electricity was traded in HPTAM of IEX, PXIL and HPX.
- i) The average charge under DSM was ₹4.01/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.02/kWh.
- k) The top 5 electricity selling regional entities/states of short-term transactions were Bihar, Jindal Power Limited Stage-II, Chhattisgarh, Odisha and Haryana. The top 5 electricity purchasing regional entities/states of short-term transactions were Maharashtra, Gujarat, Rajasthan, Telangana and Tamil Nadu.
- l) The top 5 under-drawing/ over-injecting regional entities/states under DSM were were Madhya Pradesh, Punjab, Haryana, Rajasthan and Tamil Nadu. The top 5 over-drawing/ under-injecting regional entities/states under DSM were Maharashtra, Tamil Nadu, Karnataka, West Bengal and Uttar Pradesh.
- m) During November 2024, no congestion was experienced in any of the power exchanges.
- n) The market clearing volume of RECs transacted on IEX, PXIL, and HPX was 545960, 300237 and 8788, respectively. The weighted average market clearing price of these RECs was ₹150/MWh in IEX, ₹162/MWh in PXIL, and ₹180/MWh in HPX. The volume of RECs transacted through Trading Licensees in November 2024 was 561438. The weighted average trade price for the RECs transacted through traders was ₹140/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), NOVEMBER 2024				
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
A	Short-term transactions			
1	Bilateral ⁶ (Traders, PX, Direct)	3628.03	23.83	3.08
2	Power Exchanges (Collective Market)	9432.04	61.95	8.01
	(i) IEX			
	(a) DAM	5616.36	36.89	4.77
	(b) RTM	3019.15	19.83	2.56
	(c) GDAM	790.29	5.19	0.67
	(d) HP-DAM	0.00	0.00	0.00
	(ii) PXIL			
	(a) DAM	0.21	0.001	0.0002
	(b) RTM	5.11	0.03	0.004
	(c) GDAM	0.74	0.005	0.001
	(d) HP-DAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.18	0.001	0.0001
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
B	Through DSM	2164.79	14.22	1.84
Total Short-term transactions and DSM⁷		15224.86	-	12.92
Total Generation		117795.80	-	-

Source: NLDC



⁶ includes bilateral short-term transactions under GNA and T-GNA

⁷ Volume here has been finalized in consultation with Grid India, after resolving issues that emerged post implementation of GNA Regulations and transition to new WBES software by Grid India.

Figure-3: Share of volume transacted in different markets segments on Power Exchanges, November 2024

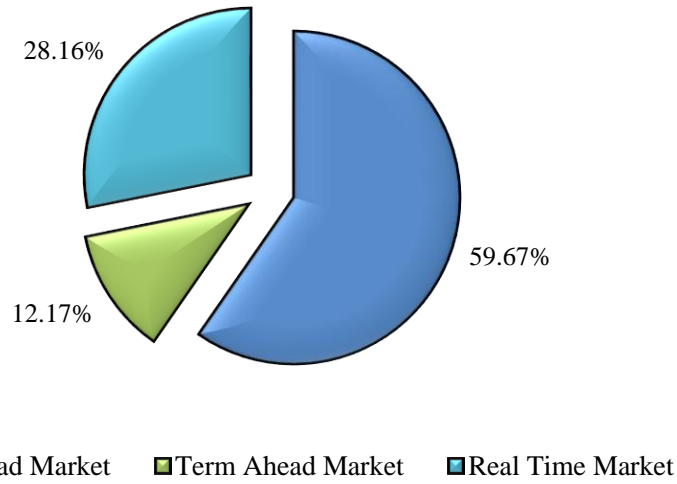


Figure-4: Volume of Short-term transactions and DSM Volume, November 2024 (Day-wise)

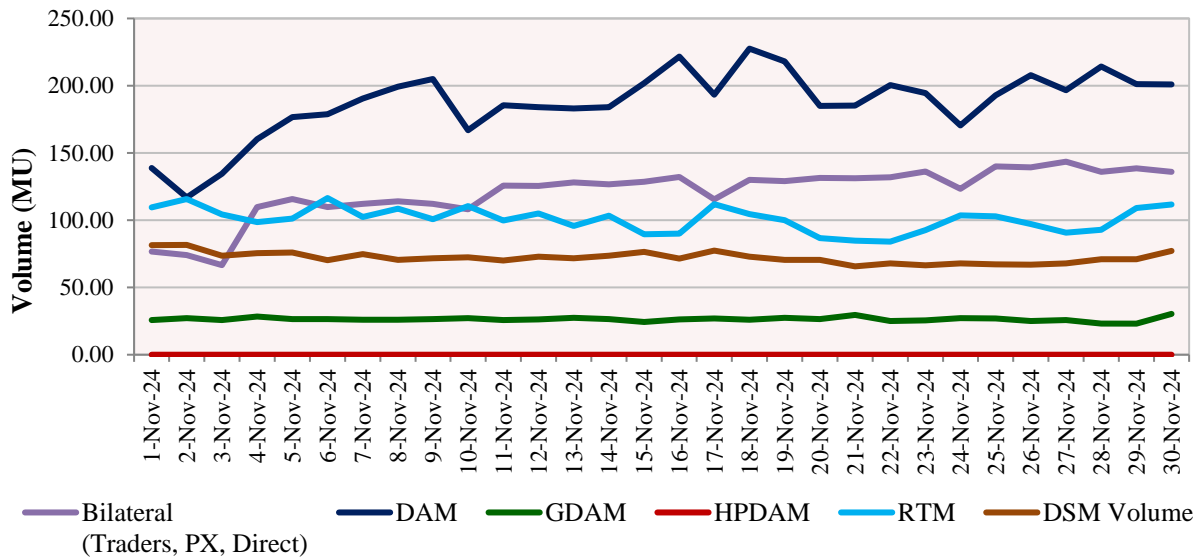


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, NOVEMBER 2024

Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees
1	PTC India Ltd.	38.17
2	Powerpulse Trading Solutions Ltd.	17.54
3	NTPC Vidyut Vyapar Nigam Ltd.	14.62
4	Tata Power Trading Company (P) Ltd.	7.29
5	Manikaran Power Ltd.	6.76
6	JSW Power Trading Company Ltd	3.16
7	Arunachal Pradesh Power Corporation (P) Ltd	3.02
8	GMR Energy Trading Ltd.	1.91
9	Kreate Energy (I) Pvt. Ltd.	1.35
10	Energedge Power Trading Pvt. Ltd.	0.95
11	Instinct Infra & Power Ltd.	0.78
12	Ideal Energy Solution Pvt. Ltd.	0.69
13	RPG Power Trading Company Ltd.	0.51
14	Greenko Energies Pvt Ltd	0.48
15	Abja Power Private Limited	0.47
16	Altium Energie Private Limited	0.41
17	NEFA Power Trading Pvt. Ltd.	0.28
18	Statkraft Markets Pvt. Ltd.	0.26
19	Saranyu Power Trading Private Limited	0.24
20	NLC India Ltd.	0.21
21	Kundan International Pvt. Ltd.	0.18
22	Instant Ventures Pvt. Ltd.	0.14
23	SJVN Ltd.	0.12
24	Adarsh Stainless Pvt. Ltd.	0.11
25	Elsa Consultancy	0.08
26	Powerfull Energy Trading Pvt. Ltd.	0.07
27	Shree Cement Ltd.	0.05
28	Customized Energy Solutions India (P) Ltd.	0.04
29	REL Power Trading LLP	0.04
30	Phillip Commodities India (P) Ltd.	0.03
31	Shubheksha Advisors Pvt. Ltd.	0.02
32	Gita Power & Infrastructure Private Limited	0.01
33	Shell Energy Marketing and Trading India Pvt. Ltd.	0.01
34	Refex Industries Ltd.	0.01
35	Saini Power Transactor	0.004
36	Reenys Solar Pvt. Ltd.	0.003
TOTAL		100.00%
Top 5 trading licensees		84.38%
Herfindahl-Hirschman Index (HHI)		0.2105

Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions (inter-state & intra-state) and the transactions undertaken through power exchanges.

Source: Information submitted by trading licensees

Figure 5: Percentage Share of Electricity Transacted by Trading Licensees, November 2024

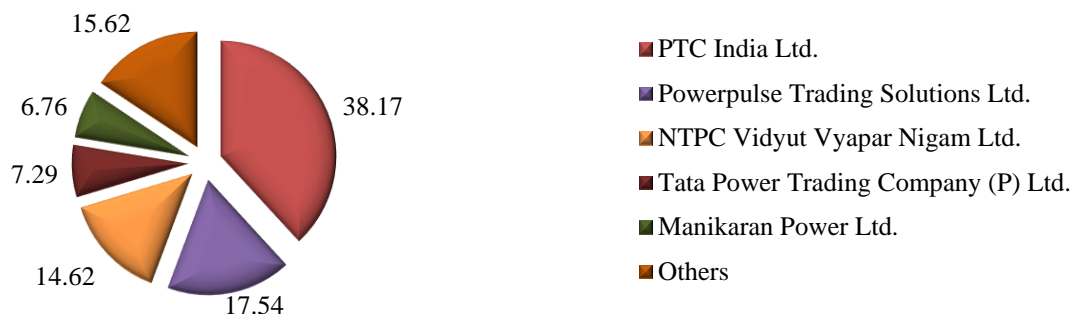


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, NOVEMBER 2024

Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.57
2	Maximum	8.00
3	Weighted Average	5.88

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), NOVEMBER 2024

Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	5.45
2	PEAK	-
3	OFF PEAK	6.50

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET, NOVEMBER 2024

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.57	3.50	-
2	Maximum	10.00	10.00	-
3	Weighted Average	3.52	8.43	-

Source: IEX, PXIL and HPX

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET, NOVEMBER 2024

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.70	3.20	-
2	Maximum	10.00	3.70	-
3	Weighted Average	3.19	3.40	-

Source: IEX, PXIL and HPX

Table-7: PRICE OF ELECTRICITY TRANSACTED IN HIGH PRICE DAY AHEAD MARKET, NOVEMBER 2024

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	-	-	-
2	Maximum	-	-	-
3	Weighted Average	-	-	-

Source: IEX, PXIL and HPX

Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET, NOVEMBER 2024

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.25	2.77	10.00
2	Maximum	10.00	10.00	10.00
3	Weighted Average	3.42	9.99	10.00

Source: IEX, PXIL and HPX

Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, NOVEMBER 2024

Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	0.58	8.41
2	Day Ahead Contingency Contracts	49.73	6.26
3	Daily Contracts	151.60	5.20
	Total	201.91	5.47

Source: IEX

Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, NOVEMBER 2024			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	11.50	7.13
2	Day Ahead Contingency Contracts	148.20	4.89
3	Daily Contracts	278.15	5.36
4	Any Day Single Sided Contracts	17.01	5.03
	Total	454.85	5.24

Source: PXIL

Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, NOVEMBER 2024			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	8.60	7.23
2	Day Ahead Contingency Contracts	20.74	7.21
3	Daily Contracts	166.32	6.55
4	Monthly Contracts	23.05	5.00
5	Any Day Single Sided Contracts	354.51	4.75
	Total	573.22	5.41

Source: HPX

Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TAM OF IEX, NOVEMBER 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	1.68	3.67
2	Daily Contracts	21.43	4.17
3	Any Day Single Sided Contracts	1.49	3.82
	Total	24.60	4.12

Source: IEX

Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TAM OF PXIL, NOVEMBER 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	3.74	3.71
2	Daily Contracts	7.92	4.52
	Total	11.66	4.26

Source: PXIL

Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TAM OF HPX, NOVEMBER 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	30.98	3.40
2	Daily Contracts	9.93	5.02
	Total	40.90	3.80

Source: HPX

Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF IEX, NOVEMBER 2024			
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	No Trade	0.00	-
	Total	0.00	-

Source: IEX

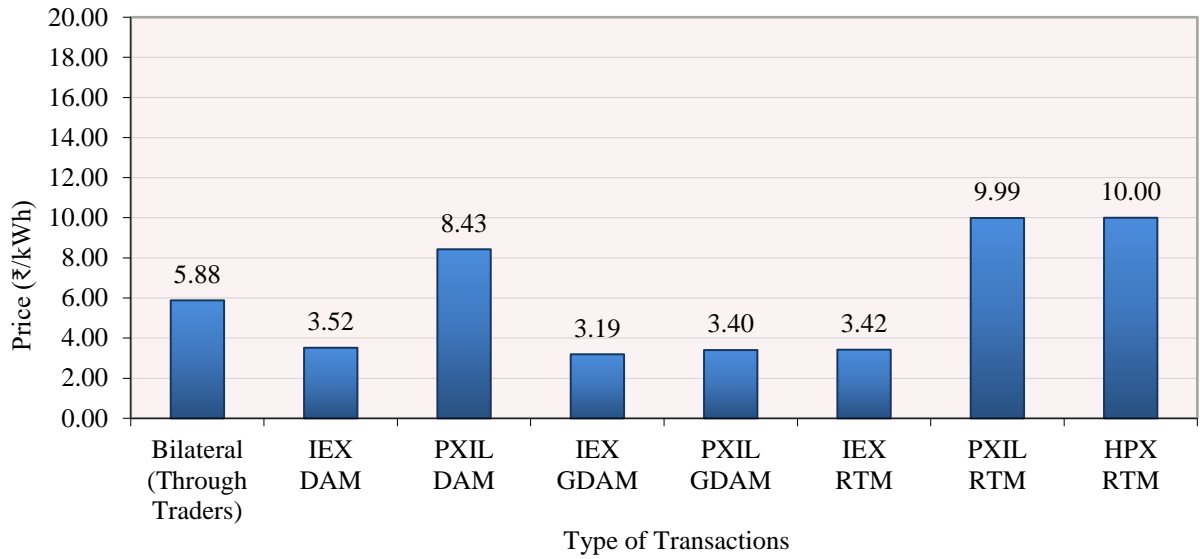
Table-16: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF PXIL, NOVEMBER 2024			
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	No Trade	0.00	-
	Total	0.00	-

Source: PXIL

Table-17: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF HPX, NOVEMBER 2024			
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	No Trade	0.00	-
	Total	0.00	-

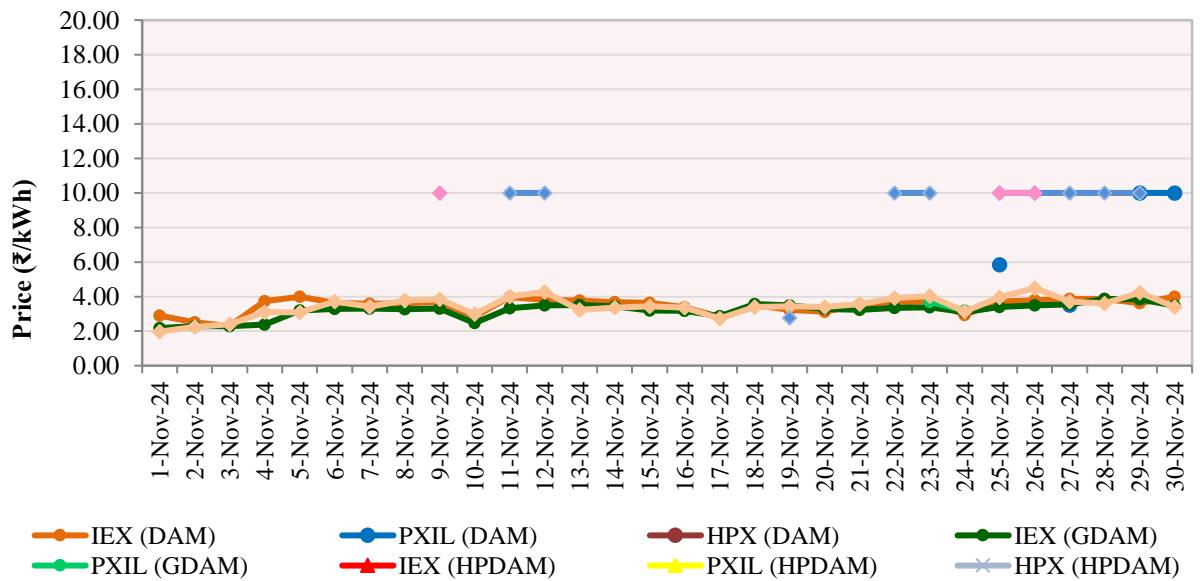
Source: HPX

Figure-6: Weighted Average Price of Short-term Transactions of Electricity, November 2024



Note: No electricity was transacted in DAM of HPX, G-DAM of HPX and in HP-DAM of all power exchanges during November 2024

Figure-7: Weighted Average Price of Short-term Transactions of Electricity, November 2024 (Day-wise)



Note: No electricity was transacted in DAM of HPX, G-DAM of HPX and in HP-DAM of all power exchanges during November 2024

Table-18: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, NOVEMBER 2024

Name of the Entity	Volume of Sale (MU)	% of Volume
Uttar Pradesh	496.71	13.69
Jindal Power Limited, Stage-2	318.99	8.79
Punjab	303.93	8.38
SKS Power Generation Chhattisgarh Limited	244.11	6.73
Odisha	162.08	4.47
DHARIWAL STU MH	151.20	4.17
RKM_POWER	141.65	3.90
Jaypee Nigrie Super Thermal Power Plant	117.57	3.24
Delhi	107.73	2.97
Jindal Power Limited, Stage-1	93.43	2.58
Telangana	91.66	2.53
Jindal India Thermal Power Limited	86.45	2.38
SIMHAPURI ENERGY LIMITED	85.58	2.36
Damodar Valley Corporation	78.66	2.17
SEMBCORP ENERGY INDIA LIMITED	78.18	2.15
DB Power	77.10	2.13
Jindal India Power Limited	68.96	1.90
MB POWER (MADHYA PRADESH) LIMITED	68.08	1.88
Gujarat	62.81	1.73
ACB (INDIA) LIMITED	60.99	1.68
IND BARATH ENERGY UTKAL LIMITED	57.71	1.59
Rajasthan	55.39	1.53
Adani Power Limited - Raigarh TPP	48.20	1.33
Madhya Pradesh	47.89	1.32
West Bengal	45.25	1.25
Maruti Clean Coal and Power Limited	33.32	0.92
Karnataka	32.22	0.89
BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	31.79	0.88
Serentica Renewables India 1 Private Limited	31.66	0.87
Andhra Pradesh	30.53	0.84
Kerala	29.37	0.81
Maharashtra	27.91	0.77
Chhattisgarh	27.50	0.76
TRN ENERGY PRIVATE LIMITED	25.10	0.69
Jhabua Power Limited	21.52	0.59
MAHAN ENERGEN LIMITED U#2	20.61	0.57
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	20.07	0.55
SEIL ENERGY INDIA LIMITED	19.26	0.53
TPSL Banderwala SECI 100_INF	13.97	0.38
Sorang HEP (Himachal Sorang Power Pvt. Ltd.))	12.71	0.35
Ramagundam Floating solar	11.82	0.33
R.K.M POWERGEN PRIVATE LIMITED	8.24	0.23
TPSL 200MW TPTCL Banderwala	7.84	0.22
Dhariwal ISTS	7.74	0.21
D B Power Limited	6.63	0.18
ReNew Surya Ravi Private Limited	6.63	0.18
IRCON RENEWABLE POWER LIMITED Infirm	6.58	0.18
IRCON RENEWABLE POWER LIMITED	6.58	0.18
Haryana	4.58	0.13
SEIL Energy India Limited Project II	4.45	0.12
HIMACHAL PRADESH	4.38	0.12
GMR Warora Energy Limited	4.35	0.12
KARCHAM WANGTOO HYDRO ELECTRIC PLANT.	2.95	0.08
Arunachal Pradesh	2.50	0.07
Jindal Steel & Power Ltd , DCP	2.40	0.07

Adani Power Limited-Raipur TPP	2.15	0.06
MAHAN ENERGEN LIMITED U#1	2.02	0.06
Goa SR	1.85	0.05
OSTRO KANNADA POWER PRIVATE LIMITED	1.74	0.05
Goa WR	0.98	0.03
Serentica Renewables India 5 Private Limited	0.80	0.02
NTPC SOLAPUR SOLAR PV Station	0.76	0.02
JSW Energy Utkal limited	0.63	0.02
AMBUJA CEMENTS LIMITED(Khavda PSS-3)_infirm	0.47	0.01
Meghalaya	0.38	0.01
Chilime Hydro Power Project NEPAL ELECTRICITY AUTHORITY	0.25	0.01
TRISHULI NEPAL ELECTRICITY AUTHORITY	0.22	0.01
Onevolt Energy Private Limited	0.20	0.01
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana	0.08	0.002
Nani Virani Wind Energy Private Limited	0.03	0.001
Total	3628.03	100.00
Volume Sold by top 5 Regional Entities	1525.82	42.06
Herfindahl-Hirschman Index		0.0521

Source: NLDC

Table-19: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, NOVEMBER 2024

Name of the Entity	Volume of Purchase (MU)	% of Volume
Madhya Pradesh	622.97	17.17
Rajasthan	592.50	16.33
HIMACHAL PRADESH	367.01	10.12
Tamil Nadu	365.09	10.06
Jammu Kashmir	361.27	9.96
Maharashtra	306.76	8.46
Kerala	253.89	7.00
Uttarakhand	172.61	4.76
Gujarat	117.10	3.23
Delhi	101.45	2.80
Odisha	96.40	2.66
Uttar Pradesh	59.68	1.65
Karnataka	46.87	1.29
Andhra Pradesh	33.25	0.92
BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	31.66	0.87
Goa WR	22.87	0.63
Adani Power Limited - Raigarh TPP	22.01	0.61
ArcelorMittal Nippon Steel India Limited	20.62	0.57
Meghalaya	9.65	0.27
Chhattisgarh	6.25	0.17
Chandigarh (UT)	5.17	0.14
IND BARATH ENERGY UTKAL LIMITED	4.85	0.13
Haryana	3.63	0.10
Assam	1.09	0.03
Bihar	1.07	0.03
Goa SR	0.98	0.03
West Bengal	0.86	0.02
BANGLADESH POWER DEVELOPMENT BOARD	0.47	0.01
TOTAL	3628.03	100.00
Volume Purchased by top 5 Regional Entities	2308.84	63.64
Herfindahl-Hirschman Index		0.1040

Source: NLDC

Table-20: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Sale (MU)	% of Volume
Chhattisgarh	633.79	11.28
Odisha	529.41	9.43
Jindal Power Limited, Stage-2	493.50	8.79
Bihar	349.31	6.22
Adani Power Limited-Raipur TPP	341.81	6.09
Uttar Pradesh	269.94	4.81
Jaypee Nigrie Super Thermal Power Plant	236.19	4.21
MAHAN ENERGEN LIMITED U#2	233.79	4.16
Haryana	227.86	4.06
MAHAN ENERGEN LIMITED U#1	160.90	2.86
Jindal Power Limited, Stage-1	145.54	2.59
Assam	142.22	2.53
Jindal India Power Limited	132.18	2.35
West Bengal	124.71	2.22
Adani Power Limited - Raigarh TPP	119.27	2.12
IND BARATH ENERGY UTKAL LIMITED	105.89	1.89
Jindal Steel & Power Ltd , DCP	94.06	1.67
Madhya Pradesh	88.99	1.58
Rajasthan	79.34	1.41
Delhi	65.30	1.16
D B Power Limited	46.44	0.83
Karnataka	43.97	0.78
SEIL ENERGY INDIA LIMITED	41.31	0.74
Himachal Pradesh	40.22	0.72
ACB (INDIA) LIMITED	38.78	0.69
Government of Himachal Pradesh_NJHPS	31.74	0.57
Telangana	30.92	0.55
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	29.91	0.53
Tamil Nadu	28.51	0.51
Chandigarh (UT)	27.76	0.49
Gujarat	26.24	0.47
KARCHAM WANGTOO HYDRO ELECTRIC PLANT.	25.98	0.46
RENEW SURYA PRATAP PRIVATE LIMITED	24.63	0.44
Andhra Pradesh	22.62	0.40
ADANI SOLAR ENERGY JAISALMER TWO PVT. LTD (Project-2)	21.50	0.38
Jharkhand	20.67	0.37
AD HYDRO POWER LIMITED	20.44	0.36
Maharashtra	19.64	0.35
SIMHAPURI ENERGY LIMITED	18.86	0.34
Jhabua Power Limited	18.71	0.33
SEIL Energy India Limited Project II	18.50	0.33
ReNew Surya Ravi Private Limited	17.91	0.32
Damodar Valley Corporation	17.82	0.32
SKS Power Generation Chhattisgarh Limited	16.74	0.30
NTPC Farakka stage I	16.07	0.29
NTPC BARH Stage II	15.86	0.28
Adani Green Energy Twenty Five B Limited_infirm	15.28	0.27
NTPC Talcher Stage I	15.25	0.27
NTPC BARH Stage I	13.49	0.24
NTPC North Karanpura STPS	13.09	0.23
Government of Himachal Pradesh_Koldam HEP	12.93	0.23
Adept Renewable Technologies Private Limited	11.97	0.21
Palatana Plant	11.74	0.21
Amp Energy Green Six Private Limited	11.25	0.20

MB POWER (MADHYA PRADESH) LIMITED	9.80	0.17
ADANI GREEN ENERGY TWENTY FIVE LIMITED_infirm	9.54	0.17
Government of Himachal Pradesh_RampurHEP	9.45	0.17
Uttarakhand	9.08	0.16
KAMENG HYDRO POWER STATION	8.19	0.15
Goa WR	8.09	0.14
KANTI BIJLEE UTPADAN NIGAM LIMITED	8.06	0.14
Nagaland	7.66	0.14
Adani Green Energy Twenty Five A Limited_Infirm	7.60	0.14
ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED	7.49	0.13
IGSTPS JHAJJAR	7.25	0.13
R.K.M POWERGEN PRIVATE LIMITED	7.23	0.13
Dhariwal ISTS	6.87	0.12
Sainj HEP	6.83	0.12
Sikkim	6.51	0.12
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (162.5 MW Hybrid Solar of 187.5MW HPD)	5.84	0.10
ADANI SOLAR ENERGY JODHPUR TWO LIMITED	5.27	0.09
Government of Himachal Pradesh_ Chamera1HEP	5.01	0.09
BHARAT ALUMINIUM COMPANY LTD	4.75	0.08
Jammu Kashmir	4.69	0.08
NABINAGAR POWER GENERATING COMPANY LIMITED	4.67	0.08
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana	4.47	0.08
JUNIPER GREEN COSMIC PRIVATE LIMITED	4.30	0.08
NTPC Dadri Stage II	4.10	0.07
Government of Himachal Pradesh_ CHAMERA2HEP	3.97	0.07
Punjab	3.92	0.07
RENEW SURYA OJAS PRIVATE LIMITED-Wind	3.70	0.07
Kerala	3.56	0.06
Government of Himachal Pradesh_ Chamera3HEP	3.50	0.06
Singoli Bhatwari HEP	3.37	0.06
NTPC Farakka stage III	3.09	0.05
Adani Green Energy Twenty Six B Limited_infirm	3.05	0.05
Mizoram	3.05	0.05
The Tata Power Co Ltd (MTPS)	2.80	0.05
Maruti Clean Coal and Power Limited	2.78	0.05
NTPC Dadri Stage I	2.65	0.05
Dikchu Hydro Electric Project (Sneha Kinetic Power Projects Pvt. Ltd.)	2.59	0.05
TRN ENERGY PRIVATE LIMITED	2.58	0.05
Government of Himachal Pradesh_Parbat3HEP	2.53	0.05
Meghalaya	2.49	0.04
NTPP BRBCL	2.27	0.04
ADANI RENEWABLE ENERGY FORTY ONE LIMITED_infirm	2.25	0.04
NTPC Korba Stage I &II	2.14	0.04
NTPC Sipat Stage I	1.94	0.03
Transition Energy Services Private Limited	1.91	0.03
TPSL 200MW TPTCL Banderwala	1.89	0.03
NTPC Kahalgaon stage II	1.88	0.03
Government of Himachal Pradesh_BairasuilHEP	1.69	0.03
GMR Warora Energy Limited	1.66	0.03
Ramagundam Floating solar	1.54	0.03
AMBUJA CEMENTS LIMITED(Khavda PSS-3)_infirm	1.52	0.03
DHARIWAL STU OTH	1.41	0.03
Budhil HEP (Greenko Budhil Hydro Power Pvt. Ltd.)	1.28	0.02
OSTRO KANNADA POWER PRIVATE LIMITED	1.25	0.02
AGARTALA GAS BASED POWER STATION	1.15	0.02
NTPC Kahalgaon stage I	1.03	0.02

NTPC Solapur	1.00	0.02
Bongaigaon Thermal Power Station NTPC	0.99	0.02
NEPAL ELECTRICITY AUTHORITY MUZAFFARPUR	0.93	0.02
NTPC Sipat Stage II	0.86	0.02
NTPC Tanda Stage II	0.82	0.01
Simhadri FSP 15 MW	0.78	0.01
NTPC Vindhyachal Stage I	0.75	0.01
NTPC Lara Stage I	0.74	0.01
SHREE CEMENT LIMITED TPS	0.73	0.01
IL&FS TAMIL NADU POWER COMPANY LIMITED	0.69	0.01
NTPC Korba Stage III	0.69	0.01
Serentica Renewables India 5 Private Limited	0.63	0.01
Simhadri Floating solar (10 MW)	0.63	0.01
NTPC KUDGI	0.59	0.01
GMR KAMALANGA ENERGY LTD-CTU	0.58	0.01
NTPC Unchahar Stage I	0.55	0.01
WIND FIVE REENERGY LIMITED	0.54	0.01
NTPC Unchahar Stage IV	0.50	0.01
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana (infirm)	0.44	0.01
NTPC Vindhyachal Stage III	0.38	0.01
NTPC khargone	0.37	0.01
NTPC Vindhyachal Stage IV	0.35	0.01
NTPC Unchahar Stage III	0.32	0.01
Pondicherry UT	0.29	0.01
NTPC Vindhyachal Stage II	0.28	0.01
ADANI GREEN ENERGY TWENTY SIX A LIMITED_infirm	0.25	0.004
NTPC Darlipali	0.21	0.004
NEPAL ELECTRICITY AUTHORITY TANAKPUR	0.17	0.003
NTPC Simhadri Stage II	0.15	0.003
NTPC Vindhyachal Stage V	0.09	0.002
NTPC SOLAPUR SOLAR PV Station	0.08	0.001
TPSL Banderwala SECI 100_INF	0.08	0.001
NTPC Mouda Stage II	0.06	0.001
NTPC Mouda Stage I	0.05	0.001
NTPC Unchahar Stage II	0.04	0.001
NLC INDIA LIMITED NEYVELI NEW TPS	0.02	0.0003
NTPC Gadarwara	0.01	0.0001
Nani Virani Wind Energy Private Limited	0.01	0.0001
Total	5616.57	100.00
Volume sold by top 5 Regional Entities	2347.82	41.80
Herfindahl-Hirschman Index		0.0499

Source: NLDC

Table-21: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Purchase (MU)	% of Volume
Gujarat	1213.87	21.61
Maharashtra	903.04	16.08
Telangana	698.50	12.44
Andhra Pradesh	391.35	6.97
Rajasthan	374.05	6.66
Uttar Pradesh	269.69	4.80
Tamil Nadu	262.23	4.67
Madhya Pradesh	220.65	3.93
Uttarakhand	212.31	3.78
West Bengal	155.72	2.77
Daman and Diu - Dadra and Nagar Haveli	123.66	2.20
Karnataka	120.82	2.15
Delhi	98.79	1.76
Jammu Kashmir	88.84	1.58
Kerala	84.15	1.50
Punjab	79.37	1.41
ArcelorMittal Nippon Steel India Limited	79.12	1.41
Odisha	74.02	1.32
Meghalaya	38.42	0.68
Himachal Pradesh	31.12	0.55
Haryana	24.42	0.43
Damodar Valley Corporation	18.15	0.32
North Central Railway Prayagraj	15.07	0.27
Druk Green Power Corporation Limited (DGPCL-Bhutan)	14.02	0.25
SKS Power Generation Chhattisgarh Limited	6.55	0.12
Tripura	5.76	0.10
Jharkhand	4.31	0.08
BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	3.42	0.06
Chandigarh (UT)	2.54	0.05
Goa WR	1.32	0.02
Nagaland	0.98	0.02
Goa SR	0.34	0.01
TOTAL	5616.57	100.00
Volume purchased by top 5 Regional Entities	3580.81	63.75
Herfindahl-Hirschman Index		0.1080

Source: NLDC

Table-22: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Sale (MU)	% of Volume
Karnataka	200.64	25.36
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	138.82	17.55
Adani Green Energy Twenty Five B Limited_infirm	67.74	8.56
ADANI GREEN ENERGY TWENTY FIVE LIMITED_infirm	35.52	4.49
Adani Green Energy Twenty Five A Limited_Infirm	33.81	4.27
ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED	28.71	3.63
RENEW SURYA OJAS PRIVATE LIMITED-Wind	24.89	3.15
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (162.5 MW Hybrid Solar of 187.5MW HPD)	21.10	2.67
Himachal Pradesh	20.19	2.55
Meghalaya	16.91	2.14
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana	15.35	1.94
ADANI RENEWABLE ENERGY FORTY ONE LIMITED_infirm	14.59	1.84
Andhra Pradesh	13.70	1.73
Adani Green Energy Twenty Six B Limited_infirm	13.58	1.72
Madhya Pradesh	12.81	1.62
Singoli Bhatwari HEP	12.70	1.60
Uttar Pradesh	12.54	1.59
Uttarakhand	11.54	1.46
TPSL 200MW TPTCL Banderwala	9.14	1.16
Maharashtra	8.03	1.02
OSTRO KANNADA POWER PRIVATE LIMITED	7.79	0.98
Jammu Kashmir	6.95	0.88
ACME PHALODI SOLAR ENERGY PRIVATE LIMITED_INFIRM	6.54	0.83
Sikkim	6.42	0.81
JSW RENEW ENERGY LIMITED INFIRM	5.64	0.71
AMBUJA CEMENTS LIMITED(Khavda PSS-3)_infirm	5.32	0.67
West Bengal	5.07	0.64
Rajasthan	4.35	0.55
ReNew Surya Ravi Private Limited	4.21	0.53
Telangana	3.31	0.42
SEMBCORP GREEN INFRA PRIVATE LIMITED (INFIRM)	2.96	0.37
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana (infirm)	2.55	0.32
ADANI SOLAR ENERGY JAISALMER TWO PVT. LTD.(Project-2)	2.48	0.31
Bihar	2.48	0.31
ACME RAISAR SOLAR ENERGY PRIVATE LIMITED_INFIRM	2.36	0.30
WIND FIVE RENERGY LIMITED	2.26	0.29
Delhi	1.67	0.21
Serentica Renewables India 5 Private Limited	1.11	0.14
Transition Green Energy Private Limited	1.09	0.14
JUNIPER GREEN COSMIC PRIVATE LIMITED	0.68	0.09
ADANI GREEN ENERGY TWENTY SIX A LIMITED_infirm	0.60	0.08
ADANI SOLAR ENERGY JODHPUR TWO LIMITED	0.58	0.07
TPSL Banderwala SECI 100_INF	0.50	0.06
Transition Energy Services Private Limited	0.50	0.06
Nani Virani Wind Energy Private Limited	0.42	0.05
CONTINUUM POWER TRADING (TN) PRIVATE LIMITED	0.27	0.03
Simhadri FSP 15 MW	0.22	0.03
NTPC SOLAPUR SOLAR PV Station	0.14	0.02
Ramagundam Floating solar	0.13	0.02
Simhadri Floating solar (10 MW)	0.10	0.01
Total	791.04	100.00
Volume sold by top 5 Regional Entities	476.53	60.24
Herfindahl-Hirschman Index		0.1136

Source: NLDC

Table-23: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Purchase (MU)	% of Volume
Odisha	135.00	17.07
Maharashtra	134.97	17.06
Damodar Valley Corporation	115.25	14.57
ArcelorMittal Nippon Steel India Limited	114.51	14.48
Tamil Nadu	82.51	10.43
Haryana	35.89	4.54
Gujarat	29.16	3.69
Karnataka	20.53	2.60
Punjab	18.12	2.29
Kerala	16.55	2.09
Goa WR	15.86	2.01
Jharkhand	12.76	1.61
Andhra Pradesh	11.71	1.48
Madhya Pradesh	11.22	1.42
Telangana	11.11	1.41
Uttar Pradesh	7.83	0.99
Goa SR	6.88	0.87
West Bengal	3.20	0.41
Delhi	2.96	0.37
North Central Railway Prayagraj	2.43	0.31
Daman and Diu - Dadra and Nagar Haveli	1.48	0.19
Meghalaya	0.51	0.06
Uttarakhand	0.49	0.06
BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	0.09	0.01
TOTAL	791.04	100.00
Volume purchased by top 5 Regional Entities	582.24	73.60
Herfindahl-Hirschman Index		0.1178

Source: NLDC

Table-24: VOLUME OF ELECTRICITY SOLD IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Sale (MU)	% of Volume
No Trade	0.00	-
TOTAL	0.00	0.00
Volume sold by top 5 Regional Entities	0.00	-
Herfindahl-Hirschman Index		-

Source: NLDC

Table-25: VOLUME OF ELECTRICITY PURCHASED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Purchase (MU)	% of Volume
No Trade	0.00	-
TOTAL	0.00	0.00
Volume purchased by top 5 Regional Entities	0.00	-
Herfindahl-Hirschman Index		-

Source: NLDC

Table-26: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Sale (MU)	% of Volume
Bihar	518.11	17.13
Haryana	252.48	8.35
Odisha	173.66	5.74
NEPAL ELECTRICITY AUTHORITY MUZAFFARPUR	167.42	5.54
Tamil Nadu	131.71	4.35
Jharkhand	126.01	4.17
Uttar Pradesh	120.66	3.99
Chhattisgarh	106.00	3.50
West Bengal	103.48	3.42
Assam	55.10	1.82
Madhya Pradesh	44.74	1.48
Karnataka	42.54	1.41
Himachal Pradesh	41.67	1.38
Delhi	39.43	1.30
ACME PHALODI SOLAR ENERGY PRIVATE LIMITED_INFIRM	39.36	1.30
KHURJA STPP	32.90	1.09
NEPAL ELECTRICITY AUTHORITY TANAKPUR	30.97	1.02
Adani Power Limited-Raipur TPP	30.36	1.00
NABINAGAR POWER GENERATING COMPANY LIMITED	28.39	0.94
ACME RAISAR SOLAR ENERGY PRIVATE LIMITED_INFIRM	27.29	0.90
Jindal Power Limited, Stage-2	26.48	0.88
NTPC Farakka stage I	25.02	0.83
Damodar Valley Corporation	24.13	0.80
SEIL ENERGY INDIA LIMITED	23.23	0.77
Arunachal Pradesh	22.75	0.75
Manipur	21.32	0.70
NTPC Singrauli	19.99	0.66
Uttarakhand	19.48	0.64
NTPC Kahalgaon stage II	19.13	0.63
Jindal Power Limited, Stage-1	18.37	0.61
Jhabua Power Limited	17.33	0.57
RENEW SURYA OJAS PRIVATE LIMITED-Wind	17.32	0.57
TRN ENERGY PRIVATE LIMITED	16.96	0.56
SKS Power Generation Chhattisgarh Limited	16.72	0.55
ReNew Surya Ravi Private Limited	16.08	0.53
MAHAN ENERGEN LIMITED U#2	15.70	0.52
Jindal India Power Limited	14.99	0.50
Serentica Renewables India 5 Private Limited	14.00	0.46
Maharashtra	13.60	0.45
NTPC Rihand stage III	13.24	0.44
NTPC North Karanpura STPS	12.91	0.43
Transition Green Energy Private Limited	12.91	0.43
Sasan Power Limited	12.89	0.43
BHARAT ALUMINIUM COMPANY LTD	12.87	0.43
Andhra Pradesh	12.29	0.41
NTPC Rihand stage I	12.24	0.40
Adani Power Limited - Raigarh TPP	12.24	0.40
Gujarat	12.04	0.40
D B Power Limited	11.76	0.39
MB POWER (MADHYA PRADESH) LIMITED	11.54	0.38
RENEW SURYA PRATAP PRIVATE LIMITED	11.41	0.38
MAHAN ENERGEN LIMITED U#1	10.54	0.35
Telangana	10.40	0.34

JUNIPER GREEN COSMIC PRIVATE LIMITED	9.43	0.31
NTPC Rihand stage II	9.20	0.30
Sikkim	9.18	0.30
NTPC BARH Stage II	9.14	0.30
Jammu Kashmir	8.83	0.29
AGARTALA GAS BASED POWER STATION	8.69	0.29
Transition Sustainable Energy Services One Private Limited	8.40	0.28
Punjab	8.22	0.27
NTPC Farakka stage III	8.08	0.27
NTPC Telangana	7.94	0.26
KAMENG HYDRO POWER STATION	7.72	0.26
Pondicherry UT	7.68	0.25
NTPC Darlipali	7.61	0.25
SEIL Energy India Limited Project II	7.28	0.24
Jindal Steel & Power Ltd , DCP	7.12	0.24
Transition Energy Services Private Limited	7.12	0.24
The Tata Power Co Ltd (MTPS)	7.11	0.23
NLC INDIA LIMITED NEYVELI NEW THERMAL POWER STATION	7.09	0.23
NTPC BARH Stage I	6.88	0.23
NTPC Talcher Stage I	6.77	0.22
Palatana Plant	6.48	0.21
NTPC Kahalgaon stage I	6.32	0.21
MAITHON POWER LIMITED	6.28	0.21
Adept Renewable Technologies Private Limited	6.28	0.21
NLC Tamilnadu Power Limited	6.15	0.20
Amp Energy Green Six Private Limited	5.75	0.19
ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana	5.74	0.19
NTPC Talcher Super Thermal Power Station Stage II	5.56	0.18
Government of Himachal Pradesh_NJHPS	5.33	0.18
NTPC Tanda Stage II	5.30	0.18
SEMBCORP GREEN INFRA PRIVATE LIMITED (INFIRM)	4.50	0.15
ADHUNIK POWER & NATURAL RESOURCES LIMITED	4.48	0.15
NTPC Solapur	4.48	0.15
Kerala	4.38	0.14
NTPC Dadri Stage I	4.17	0.14
Onevolt Energy Private Limited	4.11	0.14
NTPC Gadarwara	4.04	0.13
NTPP BRBCL	3.95	0.13
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	3.95	0.13
IND BARATH ENERGY UTKAL LIMITED	3.84	0.13
NTPC khargone	3.82	0.13
Tripura	3.74	0.12
KANTI BIJLEE UTPADAN NIGAM LIMITED	3.69	0.12
Rajasthan	3.64	0.12
IGSTPS JHAJJAR	3.61	0.12
ACB (INDIA) LIMITED	3.56	0.12
OSTRO KANNADA POWER PRIVATE LIMITED	3.34	0.11
Government of Himachal Pradesh_Koldam HEP	3.13	0.10
NTPC Mouda Stage II	2.94	0.10
NTPC Dadri Stage II	2.87	0.09
Singoli Bhatwari HEP	2.86	0.09
NTPC Unchahar Stage IV	2.81	0.09
KARCHAM WANGTOO HYDRO ELECTRIC PLANT.	2.80	0.09
GMR Warora Energy Limited	2.77	0.09
NTPC Lara Stage I	2.75	0.09
R.K.M POWERGEN PRIVATE LIMITED	2.64	0.09
NTPC Mouda Stage I	2.56	0.08

Amplus Ages Private Limited	2.39	0.08
NREL-Dayapar Wind	2.26	0.07
NTPC Vindhyachal Stage III	2.22	0.07
Dhariwal ISTS	2.20	0.07
Adani Green Energy Twenty Five B Limited_infirm	2.05	0.07
Bongaigaon Thermal Power Station NTPC	1.90	0.06
Ramagundam Floating solar	1.89	0.06
Grian Energy Private Limited	1.77	0.06
NTPC Vindhyachal Stage I	1.75	0.06
NLC INDIA LIMITED THERMAL POWER STATION I EXPANSION	1.62	0.05
NTPC Ramagundam Stage I &II	1.61	0.05
Government of Himachal Pradesh_RampurHEP	1.58	0.05
NTPC KUDGI	1.54	0.05
Sainj HEP	1.50	0.05
NTPC Vindhyachal Stage IV	1.50	0.05
ASSAM GAS BASED POWER STATION	1.38	0.05
NLC INDIA LIMITED THERMAL POWER STATION II STAGE I	1.37	0.05
NTPC Vindhyachal Stage V	1.34	0.04
Serentica Renewables India 1 Private Limited- Koppal (Infirm)	1.33	0.04
RENEW SURYA ROSHNI PRIVATE LIMITED Koppal PS	1.33	0.04
SIMHAPURI ENERGY LIMITED	1.30	0.04
ADANI RENEWABLE ENERGY FORTY ONE LIMITED_infirm	1.24	0.04
NLC INDIA LIMITED THERMAL POWER STATION II STAGE II	1.18	0.04
NTPC Korba Stage I &II	1.12	0.04
Government of Himachal Pradesh_ Chamera1HEP	1.11	0.04
NTPC Unchahar Stage I	1.11	0.04
NTPC Unchahar Stage II	1.10	0.04
Dikchu Hydro Electric Project (Sneha Kinetic Power Projects Pvt. Ltd.)	1.08	0.04
ADANI GREEN ENERGY TWENTY FIVE LIMITED_infirm	1.07	0.04
NTPC Unchahar Stage III	1.05	0.03
NTPC Sipat Stage I	1.01	0.03
Nagaland	1.01	0.03
NTPC Sipat Stage II	1.00	0.03
ADANI SOLAR ENERGY JAISALMER TWO PRIVATE LIMITED(Project-2)	0.99	0.03
Serentica Renewables India 4 Private Limited	0.91	0.03
Sorang HEP (Himachal Sorang Power Pvt. Ltd.))	0.86	0.03
Government of Himachal Pradesh_ CHAMERA2HEP	0.84	0.03
TPSL Banderwala SECI 100_INF	0.82	0.03
COASTAL ENERGEN PRIVATE LIMITED	0.80	0.03
Chandigarh (UT)	0.78	0.03
Jaypee Nigrie Super Thermal Power Plant	0.73	0.02
Simhadri FSP 15 MW	0.70	0.02
Government of Himachal Pradesh_ Chamera3HEP	0.68	0.02
ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED	0.61	0.02
NLC INDIA LIMITED THERMAL POWER STATION II EXPANSION	0.57	0.02
LANCO AMARKANTAK POWER LIMITED	0.57	0.02
AD HYDRO POWER LIMITED	0.52	0.02
Meghalaya	0.51	0.02
NTPC SOLAPUR SOLAR PV Station	0.50	0.02
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (162.5 MW Hybrid Solar of 187.5MW HPD)	0.48	0.02
DHARIWAL STU OTH	0.43	0.01
NTPC Korba Stage III	0.42	0.01
Goa WR	0.41	0.01
Simhadri Floating solar (10 MW)	0.39	0.01
Budhil HEP (Greenko Budhil Hydro Power Pvt. Ltd.)	0.38	0.01

GMR KAMALANGA ENERGY LTD-CTU	0.34	0.01
Government of Himachal Pradesh_BairasuilHEP	0.33	0.01
NTPC Vindhyachal Stage II	0.32	0.01
NTECL VALLUR	0.30	0.01
Adani Green Energy Twenty Four A Limited_infirm	0.26	0.01
NTPC Simhadri Stage II	0.25	0.01
Government of Himachal Pradesh_Parbati3HEP	0.24	0.01
DGEN MEGA POWER PROJECT	0.22	0.01
IL&FS TAMIL NADU POWER COMPANY LIMITED	0.17	0.01
TRANSITION SUSTAINABLE ENERGY SERVICES ONE PRIVATE LIMITED-Infirm	0.14	0.005
ADANI SOLAR ENERGY JODHPUR TWO LIMITED	0.14	0.005
TPSL 200MW TPTCL Banderwala	0.13	0.004
NTPC SAIL POWER COMPANY LIMITED	0.10	0.003
Mizoram	0.10	0.003
Daman and Diu - Dadra and Nagar Haveli	0.06	0.002
Maruti Clean Coal and Power Limited	0.05	0.002
Serentica Renewables India 1 Private Limited	0.05	0.002
RENEW SURYA ROSHNI PRIVATE LIMITED-Fatehgarh-III PS	0.04	0.001
Nani Virani Wind Energy Private Limited	0.04	0.001
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (25 MW Hybrid Solar of 25 MW of 187.5MW HPD)	0.03	0.001
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (20.8 MW Hybrid Wind of 25 MW of 187.5MW HPD)	0.02	0.001
Chuzachen HEP	0.02	0.001
NTPC Simhadri Stage I	0.01	0.0005
JORETHANG LOOP HEP, DANS ENERGY PRIVATE LIMITED	0.01	0.0004
NTPC Ramagundam Stage III	0.002	0.0001
Total	3024.43	100.00
Volume sold by top 5 Regional Entities	1243.37	41.11
Herfindahl-Hirschman Index		0.0533

Source: NLDC

Table-27: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, NOVEMBER 2024

Name of the Entity	Volume of Purchase (MU)	% of Volume
Maharashtra	406.97	13.46
Telangana	395.76	13.09
Punjab	317.92	10.51
Rajasthan	263.76	8.72
Andhra Pradesh	233.87	7.73
Jammu Kashmir	227.82	7.53
Tamil Nadu	184.41	6.10
Uttar Pradesh	174.36	5.76
Kerala	116.04	3.84
Gujarat	94.52	3.13
West Bengal	79.64	2.63
Odisha	66.33	2.19
Delhi	54.43	1.80
Assam	51.50	1.70
Madhya Pradesh	48.45	1.60
Karnataka	47.55	1.57
Himachal Pradesh	36.42	1.20
Damodar Valley Corporation	33.39	1.10
ArcelorMittal Nippon Steel India Limited	30.45	1.01
Adani Power Limited - Raigarh TPP	23.67	0.78
Daman and Diu - Dadra and Nagar Haveli	22.41	0.74
Tripura	16.33	0.54
Meghalaya	15.46	0.51
SKS Power Generation Chhattisgarh Limited	12.62	0.42
Uttarakhand	11.38	0.38
Druk Green Power Corporation Limited (DGPCL-Bhutan)	10.14	0.34
Adani Power Limited-Raipur TPP	8.26	0.27
Jharkhand	8.02	0.27
Manipur	5.88	0.19
Jindal Steel & Power Ltd , DCP	3.81	0.13
Jindal Power Limited, Stage-1	3.15	0.10
Ratnagiri Gas & Power Private Limited	2.66	0.09
BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	2.04	0.07
Goa SR	1.61	0.05
Haryana	1.28	0.04
North Central Railway Prayagraj	1.18	0.04
Government of Himachal Pradesh_NJHPS	1.15	0.04
Government of Himachal Pradesh_Koldam HEP	1.06	0.04
Goa WR	0.97	0.03
Chhattisgarh	0.80	0.03
NEPAL ELECTRICITY AUTHORITY MUZAFFARPUR	0.77	0.03
Gandhar	0.75	0.02
Kawas	0.74	0.02
NEPAL ELECTRICITY AUTHORITY TANAKPUR	0.65	0.02
Arunachal Pradesh	0.59	0.02
Government of Himachal Pradesh_ CHAMERA2HEP	0.45	0.01
SIMHAPURI ENERGY LIMITED	0.40	0.01
Pondicherry UT	0.40	0.01

ACB (INDIA) LIMITED	0.36	0.01
Government of Himachal Pradesh_RampurHEP	0.34	0.01
Nagaland	0.29	0.01
Government of Himachal Pradesh _ Chamera3HEP	0.23	0.01
Jindal Power Limited, Stage-2	0.23	0.01
TRN ENERGY PRIVATE LIMITED	0.18	0.01
Government of Himachal Pradesh_Parbati3HEP	0.18	0.01
Sikkim	0.14	0.005
Government of Himachal Pradesh _ Chamera1HEP	0.11	0.004
Government of Himachal Pradesh_BairasuilHEP	0.09	0.003
Sainj HEP	0.07	0.002
KARCHAM WANGTOO HYDRO ELECTRIC PLANT.	0.01	0.0004
2X600 VEDANTA LIMITED Chhattisgarh Power Plant	0.01	0.0002
AD HYDRO POWER LIMITED	0.0002	0.00001
TOTAL	3024.43	100.00
Volume purchased by top 5 Regional Entities	1618.29	53.51
Herfindahl-Hirschman Index		0.0779

Source: NLDC

Table-28: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS (REGIONAL ENTITY-WISE), NOVEMBER 2024

S. No.	Name of the Entity	Total volume of net short-term transactions of electricity*
1	Maharashtra	1682.55
2	Gujarat	1353.55
3	Rajasthan	1087.59
4	Telangana	969.08
5	Tamil Nadu	734.02
6	Madhya Pradesh	708.86
7	Jammu Kashmir	657.47
8	Andhra Pradesh	591.05
9	Kerala	433.31
10	Uttarakhand	356.70
11	HIMACHAL PRADESH	328.10
12	ArcelorMittal Nippon Steel India Limited	244.69
13	Daman and Diu - Dadra and Nagar Haveli	147.49
14	Punjab	99.34
15	Damodar Valley Corporation	46.18
16	Meghalaya	43.74
17	Delhi	43.50
18	Goa WR	31.52
19	Druk Green Power Corporation Limited (DGPCL-Bhutan)	24.16
20	North Central Railway Prayagraj	18.68
21	Tripura	18.35
22	Goa SR	7.97
23	BHARAT ALUMINIUM COMPANY LTD (Bulk Consumer)	5.42
24	Ratnagiri Gas & Power Private Limited	2.66
25	Gandhar	0.75
26	Kawas	0.74
27	BANGLADESH POWER DEVELOPMENT BOARD	0.47
28	2X600 VEDANTA LIMITED Chhattisgarh Power Plant	0.01
29	NTPC Ramagundam Stage III	-0.002
30	JORETHANG LOOP HEP, DANS ENERGY PRIVATE LIMITED	-0.01
31	NTPC Simhadri Stage I	-0.01
32	Chuzachen HEP	-0.02
33	ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (20.8 MW Hybrid Wind of 25 MW of 187.5MW HPD)	-0.02
34	ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (25 MW Hybrid Solar of 25 MW of 187.5MW HPD)	-0.03
35	RENEW SURYA ROSHNI PRIVATE LIMITED-Fatehgarh-III PS	-0.04
36	NTPC SAIL POWER COMPANY LIMITED	-0.10
37	TRANSITION SUSTAINABLE ENERGY SERVICES ONE PRIVATE LIMITED-Infirm	-0.14
38	TRISHULI NEPAL ELECTRICITY AUTHORITY	-0.22
39	DGEN MEGA POWER PROJECT	-0.22
40	Chilime Hydro Power Project NEPAL ELECTRICITY AUTHORITY	-0.25
41	Adani Green Energy Twenty Four A Limited_infirm	-0.26
42	CONTINUUM POWER TRADING (TN) PRIVATE LIMITED	-0.27
43	NTECL VALLUR	-0.30
44	NTPC Simhadri Stage II	-0.40
45	Nani Virani Wind Energy Private Limited	-0.50
46	LANCO AMARKANTAK POWER LIMITED	-0.57
47	NLC INDIA LIMITED THERMAL POWER STATION II EXPANSION	-0.57
48	NTPC Vindhyachal Stage II	-0.60
49	JSW Energy Utkal limited	-0.63
50	SHREE CEMENT LIMITED TPS	-0.73
51	COASTAL ENERGEN PRIVATE LIMITED	-0.80
52	ADANI GREEN ENERGY TWENTY SIX A LIMITED_infirm	-0.85
53	IL&FS TAMIL NADU POWER COMPANY LIMITED	-0.86
54	Serentica Renewables India 4 Private Limited	-0.91
55	GMR KAMALANGA ENERGY LTD-CTU	-0.92

56	NTPC Korba Stage III	-1.11
57	Simhadri Floating solar (10 MW)	-1.12
58	NTPC Unchahar Stage II	-1.14
59	NLC INDIA LIMITED THERMAL POWER STATION II STAGE II	-1.18
60	RENEW SURYA ROSHNI PRIVATE LIMITED Koppal PS	-1.33
61	Serentica Renewables India 1 Private Limited- Koppal (Infir)	-1.33
62	NLC INDIA LIMITED THERMAL POWER STATION II STAGE I	-1.37
63	NTPC Unchahar Stage III	-1.37
64	ASSAM GAS BASED POWER STATION	-1.38
65	NTPC Vindhyachal Stage V	-1.43
66	NTPC SOLAPUR SOLAR PV Station	-1.48
67	NTPC Ramagundam Stage I &II	-1.61
68	NLC INDIA LIMITED THERMAL POWER STATION I EXPANSION	-1.62
69	Budhil HEP (Greenko Budhil Hydro Power Pvt. Ltd.)	-1.66
70	NTPC Unchahar Stage I	-1.66
71	Simhadri FSP 15 MW	-1.70
72	Grian Energy Private Limited	-1.77
73	DHARIWAL STU OTH	-1.84
74	NTPC Vindhyachal Stage IV	-1.85
75	NTPC Sipat Stage II	-1.86
76	Government of Himachal Pradesh_BairasuilHEP	-1.93
77	NTPC KUDGI	-2.13
78	NREL-Dayapar Wind	-2.26
79	Amplus Ages Private Limited	-2.39
80	NTPC Vindhyachal Stage I	-2.50
81	NTPC Vindhyachal Stage III	-2.60
82	Government of Himachal Pradesh_Parbat3HEP	-2.60
83	NTPC Mouda Stage I	-2.61
84	WIND FIVE RENERGY LIMITED	-2.80
85	Bongaigaon Thermal Power Station NTPC	-2.90
86	NTPC Sipat Stage I	-2.95
87	ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhatrana (infir)	-2.99
88	NTPC Mouda Stage II	-3.00
89	Mizoram	-3.15
90	NTPC Korba Stage I &II	-3.25
91	NTPC Unchahar Stage IV	-3.31
92	NTPC Lara Stage I	-3.49
93	Dikchu Hydro Electric Project (Sneha Kinetic Power Projects Pvt. Ltd.)	-3.67
94	Government of Himachal Pradesh _ Chamera3HEP	-3.95
95	NTPC Gadarwara	-4.05
96	NTPC khargone	-4.19
97	Onevolt Energy Private Limited	-4.32
98	Government of Himachal Pradesh_ CHAMERA2HEP	-4.37
99	ADHUNIK POWER & NATURAL RESOURCES LIMITED	-4.48
100	NTPC Solapur	-5.48
101	NTPC Talcher Super Thermal Power Station Stage II	-5.56
102	JSW RENEW ENERGY LIMITED INFIRM	-5.64
103	ADANI SOLAR ENERGY JODHPUR TWO LIMITED	-5.98
104	Government of Himachal Pradesh _ Chamera1HEP	-6.01
105	NTPC Tanda Stage II	-6.12
106	NLC Tamilnadu Power Limited	-6.15
107	NTPP BRBCL	-6.23
108	MAITHON POWER LIMITED	-6.28
109	IRCON RENEWABLE POWER LIMITED	-6.58
110	IRCON RENEWABLE POWER LIMITED Infir	-6.58
111	NTPC Dadri Stage I	-6.81
112	NTPC Dadri Stage II	-6.97
113	NLC INDIA LIMITED NEYVELI NEW THERMAL POWER STATION	-7.11
114	AMBUJA CEMENTS LIMITED(Khavda PSS-3)_infir	-7.31
115	NTPC Kahalgaon stage I	-7.36
116	Nagaland	-7.40
117	SEMBICORP GREEN INFRA PRIVATE LIMITED (INFIRM)	-7.46
118	Pondicherry UT	-7.57

119	NTPC Darlipali	-7.82
120	NTPC Telangana	-7.94
121	Sainj HEP	-8.26
122	Transition Sustainable Energy Services One Private Limited	-8.40
123	GMR Warora Energy Limited	-8.78
124	NTPC Rihand stage II	-9.20
125	Transition Energy Services Private Limited	-9.53
126	AGARTALA GAS BASED POWER STATION	-9.84
127	The Tata Power Co Ltd (MTPS)	-9.90
128	Government of Himachal Pradesh_RampurHEP	-10.69
129	IGSTPS JHAJJAR	-10.86
130	NTPC Farakka stage III	-11.17
131	KANTI BIJLEE UTPADAN NIGAM LIMITED	-11.75
132	NTPC Rihand stage I	-12.24
133	Sasan Power Limited	-12.89
134	NTPC Rihand stage III	-13.24
135	Sorang HEP (Himachal Sorang Power Pvt. Ltd.)	-13.57
136	Transition Green Energy Private Limited	-14.00
137	OSTRO KANNADA POWER PRIVATE LIMITED	-14.12
138	JUNIPER GREEN COSMIC PRIVATE LIMITED	-14.41
139	Government of Himachal Pradesh_Koldam HEP	-14.99
140	TPSL Banderwala SECI 100_INF	-15.37
141	Ramagundam Floating solar	-15.38
142	Manipur	-15.44
143	KAMENG HYDRO POWER STATION	-15.91
144	Serentica Renewables India 5 Private Limited	-16.54
145	Adani Green Energy Twenty Six B Limited_infirm	-16.63
146	Dhariwal ISTS	-16.81
147	Amp Energy Green Six Private Limited	-17.00
148	BHARAT ALUMINIUM COMPANY LTD	-17.63
149	ADANI RENEWABLE ENERGY FORTY ONE LIMITED_infirm	-18.08
150	R.K.M POWERGEN PRIVATE LIMITED	-18.10
151	Palatana Plant	-18.22
152	Adept Renewable Technologies Private Limited	-18.25
153	Singoli Bhatwari HEP	-18.93
154	TPSL 200MW TPTCL Banderwala	-19.01
155	NTPC Singrauli	-19.99
156	NTPC BARH Stage I	-20.37
157	Chandigarh (UT)	-20.83
158	AD HYDRO POWER LIMITED	-20.96
159	NTPC Kahalgaon stage II	-21.00
160	Sikkim	-21.96
161	NTPC Talcher Stage I	-22.01
162	Arunachal Pradesh	-24.65
163	ADANI SOLAR ENERGY JAISALMER TWO PRIVATE LIMITED(Project-2)	-24.97
164	NTPC BARH Stage II	-25.00
165	ADANI WIND ENERGY KUTCHH FOUR Ltd. Nakhtrana	-25.64
166	NTPC North Karanpura STPS	-26.00
167	ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (162.5 MW Hybrid Solar of 187.5MW HPD)	-27.43
168	ACME RAISAR SOLAR ENERGY PRIVATE LIMITED_INFIRM	-29.65
169	SEIL Energy India Limited Project II	-30.24
170	NEPAL ELECTRICITY AUTHORITY TANAKPUR	-30.48
171	Serentica Renewables India 1 Private Limited	-31.71
172	KARCHAM WANGTOO HYDRO ELECTRIC PLANT.	-31.71
173	KHURJA STPP	-32.90
174	NABINAGAR POWER GENERATING COMPANY LIMITED	-33.05
175	Government of Himachal Pradesh_NJHPS	-35.93
176	RENEW SURYA PRATAP PRIVATE LIMITED	-36.04
177	Maruti Clean Coal and Power Limited	-36.14
178	ADANI SOLAR ENERGY RJ TWO PRIVATE LIMITED	-36.81
179	West Bengal	-39.09

180	NTPC Farakka stage I	-41.09
181	Adani Green Energy Twenty Five A Limited_Infirm	-41.41
182	TRN ENERGY PRIVATE LIMITED	-44.46
183	ReNew Surya Ravi Private Limited	-44.83
184	ACME PHALODI SOLAR ENERGY PRIVATE LIMITED_INFIRM	-45.90
185	RENEW SURYA OJAS PRIVATE LIMITED-Wind	-45.91
186	ADANI GREEN ENERGY TWENTY FIVE LIMITED_infirm	-46.13
187	Jhabua Power Limited	-57.57
188	D B Power Limited	-64.83
189	DB Power	-77.10
190	SEMBCORP ENERGY INDIA LIMITED	-78.18
191	Karnataka	-83.58
192	SEIL ENERGY INDIA LIMITED	-83.80
193	Adani Green Energy Twenty Five B Limited_infirm	-85.07
194	Jindal India Thermal Power Limited	-86.45
195	MB POWER (MADHYA PRADESH) LIMITED	-89.42
196	Jindal Steel & Power Ltd , DCP	-99.78
197	ACB (INDIA) LIMITED	-102.97
198	SIMHAPURI ENERGY LIMITED	-105.34
199	Jharkhand	-121.59
200	Adani Power Limited - Raigarh TPP	-134.02
201	RKM_POWER	-141.65
202	Assam	-144.73
203	DHARIWAL STU MH	-151.20
204	IND BARATH ENERGY UTKAL LIMITED	-162.59
205	NEPAL ELECTRICITY AUTHORITY MUZAFFARPUR	-167.58
206	MAHAN ENERGEN LIMITED U#1	-173.46
207	ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	-192.74
208	Jindal India Power Limited	-216.13
209	Jindal Power Limited, Stage-1	-254.20
210	SKS Power Generation Chhattisgarh Limited	-258.40
211	MAHAN ENERGEN LIMITED U#2	-270.10
212	Jaypee Nigrie Super Thermal Power Plant	-354.49
213	Adani Power Limited-Raipur TPP	-366.06
214	Uttar Pradesh	-388.28
215	Haryana	-419.70
216	Odisha	-493.39
217	Chhattisgarh	-760.24
218	Jindal Power Limited, Stage-2	-838.73
219	Bihar	-868.83
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral and power exchanges		
(-) indicates sale and (+) indicates purchase		

Source: NLDC

Table-29: DETAILS OF CONGESTION IN POWER EXCHANGES, NOVEMBER 2024

	Details of Congestion	Day Ahead Market			Green Day Ahead Market			High Price Day Ahead Market			Real Time Market		
		IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX
1	Unconstrained Cleared Volume (MU)	5616.94	0.21	0.00	790.29	0.74	0.00	0.00	0.00	0.00	3019.15	5.11	0.18
2	Actual Cleared Volume and hence scheduled (MU)	5616.36	0.21	0.00	790.29	0.74	0.00	0.00	0.00	0.00	3019.15	5.11	0.18
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MU) *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	Volume of electricity that could not be cleared and hence not scheduled because of reasons other than congestion (MU) **	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
6	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/ Total number of hours in the month)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7	Congestion occurrence (%) time block wise												
	0.00 - 6.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	18.00 - 24.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
* This power would have been scheduled had there been no congestion													
** Real time curtailment of 0.58 MU on 22.11.2024 in DAM at IEX													

Source: IEX, PXIL, HPX & NLDC

Table-30: VOLUME OF SHORT TERM TRANSACTIONS OF ELECTRICITY (DAY-WISE) (MU), NOVEMBER 2024

Date	Bilateral [^] (Traders, PX, Direct)	Day Ahead Market [#]			Green Day Ahead Market [#]			High Price DAM [#]			Real Time Market [#]			Total Electricity Generation (MU)*
		IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX	
1-Nov-24	76.64	138.87	0.00	0.00	25.88	0.00	0.00	0.00	0.00	0.00	109.44	0.00	0.00	3624.15
2-Nov-24	74.07	116.92	0.00	0.00	27.08	0.00	0.00	0.00	0.00	0.00	115.65	0.00	0.00	3593.74
3-Nov-24	66.60	134.43	0.00	0.00	25.65	0.00	0.00	0.00	0.00	0.00	104.20	0.00	0.00	3605.13
4-Nov-24	109.71	160.30	0.00	0.00	28.46	0.00	0.00	0.00	0.00	0.00	98.62	0.00	0.00	3884.57
5-Nov-24	115.64	176.58	0.00	0.00	26.39	0.00	0.00	0.00	0.00	0.00	101.30	0.00	0.00	4000.64
6-Nov-24	109.85	178.87	0.00	0.00	26.46	0.00	0.00	0.00	0.00	0.00	116.49	0.00	0.00	4074.43
7-Nov-24	112.22	190.55	0.00	0.00	26.06	0.00	0.00	0.00	0.00	0.00	102.42	0.00	0.00	4106.30
8-Nov-24	114.06	199.26	0.00	0.00	26.08	0.00	0.00	0.00	0.00	0.00	108.64	0.00	0.00	4133.87
9-Nov-24	112.26	205.07	0.00	0.00	26.51	0.00	0.00	0.00	0.00	0.00	100.76	0.00	0.05	4132.14
10-Nov-24	108.19	166.89	0.00	0.00	27.28	0.00	0.00	0.00	0.00	0.00	110.57	0.00	0.00	3950.96
11-Nov-24	125.80	185.40	0.00	0.00	25.74	0.00	0.00	0.00	0.00	0.00	98.71	1.01	0.00	4112.00
12-Nov-24	125.60	184.07	0.00	0.00	26.33	0.00	0.00	0.00	0.00	0.00	104.45	0.52	0.00	4183.25
13-Nov-24	128.22	183.21	0.00	0.00	27.49	0.00	0.00	0.00	0.00	0.00	95.80	0.00	0.00	4111.52
14-Nov-24	126.62	184.16	0.00	0.00	26.58	0.00	0.00	0.00	0.00	0.00	103.38	0.00	0.00	4121.35
15-Nov-24	128.50	201.83	0.00	0.00	24.37	0.00	0.00	0.00	0.00	0.00	89.59	0.00	0.00	4114.10
16-Nov-24	132.15	221.67	0.00	0.00	26.16	0.00	0.00	0.00	0.00	0.00	90.08	0.00	0.00	3963.92
17-Nov-24	115.59	193.41	0.00	0.00	27.05	0.00	0.00	0.00	0.00	0.00	112.01	0.00	0.00	3725.93
18-Nov-24	130.07	227.57	0.00	0.00	26.08	0.00	0.00	0.00	0.00	0.00	104.55	0.00	0.00	3822.55
19-Nov-24	129.05	218.18	0.00	0.00	27.36	0.00	0.00	0.00	0.00	0.00	100.06	0.01	0.00	3897.06
20-Nov-24	131.55	185.02	0.00	0.00	26.53	0.00	0.00	0.00	0.00	0.00	86.80	0.00	0.00	3847.82
21-Nov-24	131.10	185.22	0.00	0.00	29.66	0.00	0.00	0.00	0.00	0.00	84.86	0.00	0.00	3923.46
22-Nov-24	131.81	200.37	0.00	0.00	24.97	0.00	0.00	0.00	0.00	0.00	83.33	0.74	0.00	3921.14
23-Nov-24	136.23	194.59	0.00	0.00	25.28	0.30	0.00	0.00	0.00	0.00	92.45	0.18	0.00	3944.88
24-Nov-24	123.38	170.54	0.00	0.00	26.66	0.44	0.00	0.00	0.00	0.00	103.65	0.00	0.00	3784.92
25-Nov-24	140.06	192.85	0.04	0.00	26.86	0.00	0.00	0.00	0.00	0.00	102.34	0.37	0.05	3865.93
26-Nov-24	139.28	207.96	0.00	0.00	24.93	0.00	0.00	0.00	0.00	0.00	96.60	0.43	0.08	3927.88
27-Nov-24	143.52	196.55	0.03	0.00	25.78	0.00	0.00	0.00	0.00	0.00	90.35	0.30	0.00	3906.10
28-Nov-24	135.86	214.28	0.00	0.00	23.16	0.00	0.00	0.00	0.00	0.00	92.44	0.42	0.00	3822.14
29-Nov-24	138.56	201.07	0.03	0.00	23.11	0.00	0.00	0.00	0.00	0.00	107.87	1.13	0.00	3896.90
30-Nov-24	135.85	200.69	0.13	0.00	30.34	0.00	0.00	0.00	0.00	0.00	111.75	0.00	0.00	3797.02
Total	3628.03	5616.36	0.21	0.00	790.29	0.74	0.00	0.00	0.00	0.00	3019.15	5.11	0.18	117795.80

Source: NLDC

[^] includes bilateral short-term transactions under GNA and T-GNA

* As available on CEA Website. Gross Electricity Generation excluding electricity generation from renewables and captive power plants.

[#] Scheduled volume of all the bid areas.

Note: Volume here has been finalised in consultation with Grid India, after resolving issues that emerged post implementation of GNA Regulations and transition to new WBES software by Grid India.

Table-31(a): PRICE OF DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), NOVEMBER 2024

Market Segment	Day Ahead Market of IEX			Day Ahead Market of PXIL			Day Ahead Market of HPX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Nov-24	1.00	4.77	2.90	-	-	-	-	-	-
2-Nov-24	1.00	4.09	2.51	-	-	-	-	-	-
3-Nov-24	0.57	3.50	2.30	-	-	-	-	-	-
4-Nov-24	1.80	10.00	3.73	-	-	-	-	-	-
5-Nov-24	1.80	10.00	3.99	-	-	-	-	-	-
6-Nov-24	1.80	10.00	3.64	-	-	-	-	-	-
7-Nov-24	1.80	10.00	3.58	-	-	-	-	-	-
8-Nov-24	1.85	10.00	3.62	-	-	-	-	-	-
9-Nov-24	1.85	10.00	3.68	-	-	-	-	-	-
10-Nov-24	1.70	4.85	2.85	-	-	-	-	-	-
11-Nov-24	2.11	10.00	3.98	-	-	-	-	-	-
12-Nov-24	1.85	10.00	3.80	-	-	-	-	-	-
13-Nov-24	1.85	10.00	3.76	-	-	-	-	-	-
14-Nov-24	1.80	10.00	3.67	-	-	-	-	-	-
15-Nov-24	1.80	10.00	3.64	-	-	-	-	-	-
16-Nov-24	2.00	10.00	3.39	-	-	-	-	-	-
17-Nov-24	1.70	4.30	2.83	-	-	-	-	-	-
18-Nov-24	1.85	10.00	3.50	-	-	-	-	-	-
19-Nov-24	1.99	7.55	3.23	-	-	-	-	-	-
20-Nov-24	1.80	6.27	3.12	-	-	-	-	-	-
21-Nov-24	1.80	10.00	3.53	-	-	-	-	-	-
22-Nov-24	1.80	10.00	3.64	-	-	-	-	-	-
23-Nov-24	1.80	10.00	3.75	-	-	-	-	-	-
24-Nov-24	1.70	5.45	2.93	-	-	-	-	-	-
25-Nov-24	1.80	10.00	3.71	5.84	5.84	5.84	-	-	-
26-Nov-24	1.85	10.00	3.79	-	-	-	-	-	-
27-Nov-24	1.99	10.00	3.86	3.50	3.50	3.50	-	-	-
28-Nov-24	1.85	10.00	3.87	-	-	-	-	-	-
29-Nov-24	1.80	10.00	3.63	10.00	10.00	10.00	-	-	-
30-Nov-24	1.80	10.00	4.00	10.00	10.00	10.00	-	-	-
	0.57#	10.00#	3.52	3.50#	10.00#	8.43	-	-	-

Source: IEX, PXIL and HPX

* Weighted average price computed based on Area Clearing Volume (ACV) and Area Clearing Price (ACP) for each hour of the day. Here, ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges.

Maximum/Minimum in the month

**Table-31(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
NOVEMBER 2024**

Market Segment	Green Day Ahead Market of IEX			Green Day Ahead Market of PXIL			Green Day Ahead Market of HPX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Nov-24	0.70	7.00	2.18	-	-	-	-	-	-
2-Nov-24	1.00	6.00	2.28	-	-	-	-	-	-
3-Nov-24	1.00	5.50	2.29	-	-	-	-	-	-
4-Nov-24	1.00	6.00	2.38	-	-	-	-	-	-
5-Nov-24	1.80	10.00	3.19	-	-	-	-	-	-
6-Nov-24	1.80	10.00	3.29	-	-	-	-	-	-
7-Nov-24	1.80	10.00	3.30	-	-	-	-	-	-
8-Nov-24	1.80	10.00	3.27	-	-	-	-	-	-
9-Nov-24	1.80	10.00	3.30	-	-	-	-	-	-
10-Nov-24	1.00	5.50	2.48	-	-	-	-	-	-
11-Nov-24	1.85	10.00	3.33	-	-	-	-	-	-
12-Nov-24	2.11	10.00	3.48	-	-	-	-	-	-
13-Nov-24	2.11	10.00	3.51	-	-	-	-	-	-
14-Nov-24	1.85	10.00	3.43	-	-	-	-	-	-
15-Nov-24	1.70	8.90	3.19	-	-	-	-	-	-
16-Nov-24	1.70	10.00	3.17	-	-	-	-	-	-
17-Nov-24	1.80	5.00	2.85	-	-	-	-	-	-
18-Nov-24	2.11	10.00	3.57	-	-	-	-	-	-
19-Nov-24	2.11	10.00	3.50	-	-	-	-	-	-
20-Nov-24	1.99	6.00	3.28	-	-	-	-	-	-
21-Nov-24	1.80	6.30	3.24	-	-	-	-	-	-
22-Nov-24	1.80	8.30	3.35	-	-	-	-	-	-
23-Nov-24	1.80	6.70	3.39	3.70	3.70	3.70	-	-	-
24-Nov-24	1.80	6.50	3.09	3.20	3.20	3.20	-	-	-
25-Nov-24	2.11	7.00	3.39	-	-	-	-	-	-
26-Nov-24	2.11	10.00	3.50	-	-	-	-	-	-
27-Nov-24	2.11	10.00	3.55	-	-	-	-	-	-
28-Nov-24	2.11	10.00	3.86	-	-	-	-	-	-
29-Nov-24	2.11	10.00	3.85	-	-	-	-	-	-
30-Nov-24	1.80	10.00	3.47	-	-	-	-	-	-
	0.70#	10.00#	3.19	3.20#	3.70#	3.40	-	-	-

Source: IEX, PXIL and HPX

* Weighted average price computed based on Area Clearing Volume (ACV) and Area Clearing Price (ACP) for each hour of the day. Here, ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges.

Maximum/Minimum in the month

Table-31(c): PRICE OF REAL TIME TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), NOVEMBER 2024

Market Segment	Real Time Market of IEX			Real Time Market of PXIL			Real Time Market of HPX		
	Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP
1-Nov-24	0.40	3.30	1.97	-	-	-	-	-	-
2-Nov-24	0.25	3.58	2.25	-	-	-	-	-	-
3-Nov-24	0.65	3.69	2.40	-	-	-	-	-	-
4-Nov-24	1.68	6.01	3.10	-	-	-	-	-	-
5-Nov-24	1.84	6.30	3.08	-	-	-	-	-	-
6-Nov-24	1.48	10.00	3.70	-	-	-	-	-	-
7-Nov-24	2.02	10.00	3.41	-	-	-	-	-	-
8-Nov-24	1.34	10.00	3.77	-	-	-	-	-	-
9-Nov-24	1.51	10.00	3.84	-	-	-	10.00	10.00	10.00
10-Nov-24	0.60	5.60	2.99	-	-	-	-	-	-
11-Nov-24	1.25	10.00	4.00	10.00	10.00	10.00	-	-	-
12-Nov-24	2.00	10.00	4.27	10.00	10.00	10.00	-	-	-
13-Nov-24	1.00	5.00	3.23	-	-	-	-	-	-
14-Nov-24	2.15	6.01	3.36	-	-	-	-	-	-
15-Nov-24	2.00	7.79	3.43	-	-	-	-	-	-
16-Nov-24	1.92	10.00	3.37	-	-	-	-	-	-
17-Nov-24	0.80	3.70	2.73	-	-	-	-	-	-
18-Nov-24	1.00	10.00	3.39	-	-	-	-	-	-
19-Nov-24	1.93	10.00	3.44	2.77	2.77	2.77	-	-	-
20-Nov-24	0.52	10.00	3.40	-	-	-	-	-	-
21-Nov-24	1.49	10.00	3.56	-	-	-	-	-	-
22-Nov-24	1.91	10.00	3.91	10.00	10.00	10.00	-	-	-
23-Nov-24	1.91	10.00	4.03	10.00	10.00	10.00	-	-	-
24-Nov-24	1.93	4.82	3.14	-	-	-	-	-	-
25-Nov-24	1.59	10.00	3.95	10.00	10.00	10.00	10.00	10.00	10.00
26-Nov-24	2.14	10.00	4.49	10.00	10.00	10.00	10.00	10.00	10.00
27-Nov-24	1.51	10.00	3.71	10.00	10.00	10.00	-	-	-
28-Nov-24	1.20	10.00	3.61	10.00	10.00	10.00	-	-	-
29-Nov-24	1.61	10.00	4.23	10.00	10.00	10.00	-	-	-
30-Nov-24	1.00	10.00	3.41	-	-	-	-	-	-
	0.25#	10.00#	3.42	2.77#	10.00#	9.99	10.00#	10.00#	10.00

Source: IEX, PXIL and HPX

* Weighted average price computed based on Area Clearing Volume (ACV) and Area Clearing Price (ACP) for each hour of the day. Here, ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges.

Maximum/Minimum in the month

**Table-31(d): PRICE OF HIGH PRICE DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
NOVEMBER 2024**

Market Segment	High Price Day Ahead Market of IEX			High Price Day Ahead Market of PXIL			High Price Day Ahead Market of HPX		
	Minimum ACP	Maximum ACP	Weighted Average Price	Minimum ACP	Maximum ACP	Weighted Average Price	Minimum ACP	Maximum ACP	Weighted Average Price
1-Nov-24	-	-	-	-	-	-	-	-	-
2-Nov-24	-	-	-	-	-	-	-	-	-
3-Nov-24	-	-	-	-	-	-	-	-	-
4-Nov-24	-	-	-	-	-	-	-	-	-
5-Nov-24	-	-	-	-	-	-	-	-	-
6-Nov-24	-	-	-	-	-	-	-	-	-
7-Nov-24	-	-	-	-	-	-	-	-	-
8-Nov-24	-	-	-	-	-	-	-	-	-
9-Nov-24	-	-	-	-	-	-	-	-	-
10-Nov-24	-	-	-	-	-	-	-	-	-
11-Nov-24	-	-	-	-	-	-	-	-	-
12-Nov-24	-	-	-	-	-	-	-	-	-
13-Nov-24	-	-	-	-	-	-	-	-	-
14-Nov-24	-	-	-	-	-	-	-	-	-
15-Nov-24	-	-	-	-	-	-	-	-	-
16-Nov-24	-	-	-	-	-	-	-	-	-
17-Nov-24	-	-	-	-	-	-	-	-	-
18-Nov-24	-	-	-	-	-	-	-	-	-
19-Nov-24	-	-	-	-	-	-	-	-	-
20-Nov-24	-	-	-	-	-	-	-	-	-
21-Nov-24	-	-	-	-	-	-	-	-	-
22-Nov-24	-	-	-	-	-	-	-	-	-
23-Nov-24	-	-	-	-	-	-	-	-	-
24-Nov-24	-	-	-	-	-	-	-	-	-
25-Nov-24	-	-	-	-	-	-	-	-	-
26-Nov-24	-	-	-	-	-	-	-	-	-
27-Nov-24	-	-	-	-	-	-	-	-	-
28-Nov-24	-	-	-	-	-	-	-	-	-
29-Nov-24	-	-	-	-	-	-	-	-	-
30-Nov-24	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

Source: IEX, PXIL and HPX

Maximum/Minimum in the month

Table-32: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MU), NOVEMBER 2024

Name of the Entity	Through Bilateral (Traders, PX, Direct)			Through Power Exchange (DAM + GDAM + HPDAM + RTM)			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	
Punjab	303.93	0.00	-303.93	12.14	415.41	403.27	99.34
Telangana	91.66	0.00	-91.66	44.63	1105.38	1060.75	969.08
Rajasthan	55.39	592.50	537.11	87.32	637.81	550.49	1087.59
West Bengal	45.25	0.86	-44.39	233.26	238.56	5.30	-39.09
Kerala	29.37	253.89	224.52	7.94	216.73	208.79	433.31
Uttar Pradesh	496.71	59.68	-437.03	403.14	451.88	48.74	-388.28
Maharashtra	27.91	306.76	278.86	41.28	1444.97	1403.70	1682.55
Karnataka	32.22	46.87	14.65	287.14	188.90	-98.24	-83.58
Gujarat	62.81	117.10	54.29	38.28	1337.55	1299.26	1353.55
Assam	0.00	1.09	1.09	197.32	51.50	-145.82	-144.73
Tamil Nadu	0.00	365.09	365.09	160.22	529.15	368.93	734.02
Andhra Pradesh	30.53	33.25	2.73	48.60	636.93	588.33	591.05
Delhi	107.73	101.45	-6.28	106.40	156.18	49.78	43.50
Odisha	162.08	96.40	-65.68	703.06	275.36	-427.71	-493.39
Jammu Kashmir	0.00	361.27	361.27	20.47	316.67	296.20	657.47
Bihar	0.00	1.07	1.07	869.90	0.00	-869.90	-868.83
Damodar Valley Corporation	78.66	0.00	-78.66	41.95	166.79	124.84	46.18
Chhattisgarh	27.50	6.25	-21.24	739.80	0.80	-739.00	-760.24
Uttarakhand	0.00	172.61	172.61	40.10	224.19	184.09	356.70
Daman and Diu - Dadra and Nagar Haveli	0.00	0.00	0.00	0.06	147.54	147.49	147.49
Madhya Pradesh	47.89	622.97	575.08	146.55	280.32	133.78	708.86
Tripura	0.00	0.00	0.00	3.74	22.09	18.35	18.35
Jharkhand	0.00	0.00	0.00	146.68	25.09	-121.59	-121.59
ArcelorMittal Nippon Steel India Limited	0.00	20.62	20.62	0.00	224.08	224.08	244.69
HIMACHAL PRADESH	4.38	367.01	362.64	102.08	67.54	-34.54	328.10
BALCO (Bulk Consumer)	31.79	31.66	-0.13	0.00	5.55	5.55	5.42
Jindal Power Limited, Stage-2	318.99	0.00	-318.99	519.97	0.23	-519.75	-838.73
Haryana	4.58	3.63	-0.95	480.34	61.59	-418.75	-419.70
Manipur	0.00	0.00	0.00	21.32	5.88	-15.44	-15.44
SKS Power Generation Chhattisgarh Limited	244.11	0.00	-244.11	33.46	19.17	-14.29	-258.40
Meghalaya	0.38	9.65	9.26	19.91	54.38	34.48	43.74
The Tata Power Co Ltd (MTPS)	0.00	0.00	0.00	9.90	0.00	-9.90	-9.90
Government of Himachal Pradesh_NJHPS	0.00	0.00	0.00	37.08	1.15	-35.93	-35.93
MB POWER (MADHYA PRADESH) LIMITED	68.08	0.00	-68.08	21.34	0.00	-21.34	-89.42
Government of Himachal Pradesh_Koldam HEP	0.00	0.00	0.00	16.05	1.06	-14.99	-14.99
Adani Power Limited - Raigarh TPP	48.20	22.01	-26.18	131.51	23.67	-107.84	-134.02
North Central Railway Prayagraj	0.00	0.00	0.00	0.00	18.68	18.68	18.68
Goa WR	0.98	22.87	21.89	8.50	18.14	9.64	31.52
Government of Himachal Pradesh_CHAMERA2HEP	0.00	0.00	0.00	4.81	0.45	-4.37	-4.37
Goa SR	1.85	0.98	-0.87	0.00	8.84	8.84	7.97
Government of Himachal Pradesh_Parbat3HEP	0.00	0.00	0.00	2.78	0.18	-2.60	-2.60
Government of Himachal Pradesh_RampurHEP	0.00	0.00	0.00	11.03	0.34	-10.69	-10.69
Government of Himachal Pradesh_Chamera3HEP	0.00	0.00	0.00	4.18	0.23	-3.95	-3.95
Government of Himachal Pradesh_Chamera1HEP	0.00	0.00	0.00	6.12	0.11	-6.01	-6.01
SIMHAPURI ENERGY LIMITED	85.58	0.00	-85.58	20.17	0.40	-19.77	-105.34
Chandigarh (UT)	0.00	5.17	5.17	28.54	2.54	-26.00	-20.83
ACB (INDIA) LIMITED	60.99	0.00	-60.99	42.34	0.36	-41.98	-102.97
Government of Himachal Pradesh_Bairasuil HEP	0.00	0.00	0.00	2.02	0.09	-1.93	-1.93
Ratnagiri Gas & Power Private Limited	0.00	0.00	0.00	0.00	2.66	2.66	2.66
Sainj HEP	0.00	0.00	0.00	8.33	0.07	-8.26	-8.26
SHREE CEMENT LIMITED TPS	0.00	0.00	0.00	0.73	0.00	-0.73	-0.73
Nagaland	0.00	0.00	0.00	8.67	1.27	-7.40	-7.40
Gandhar	0.00	0.00	0.00	0.00	0.75	0.75	0.75
Singoli Bhatwari HEP	0.00	0.00	0.00	18.93	0.00	-18.93	-18.93
Arunachal Pradesh	2.50	0.00	-2.50	22.75	0.59	-22.15	-24.65
Sikkim	0.00	0.00	0.00	22.10	0.14	-21.96	-21.96
KARCHAM WANGTOO HEP	2.95	0.00	-2.95	28.77	0.01	-28.76	-31.71
Pondicherry UT	0.00	0.00	0.00	7.97	0.40	-7.57	-7.57
Mizoram	0.00	0.00	0.00	3.15	0.00	-3.15	-3.15

Budhil HEP (Greenko Budhil Hydro Power Pvt. Ltd.)	0.00	0.00	0.00	1.66	0.00	-1.66	-1.66
AD HYDRO POWER LIMITED	0.00	0.00	0.00	20.96	0.00	-20.96	-20.96
NABINAGAR POWER GENERATING CO. LTD.	0.00	0.00	0.00	33.05	0.00	-33.05	-33.05
NTPC Singrauli	0.00	0.00	0.00	19.99	0.00	-19.99	-19.99
SEIL ENERGY INDIA LIMITED	19.26	0.00	-19.26	64.54	0.00	-64.54	-83.80
NTPC Farakka stage I	0.00	0.00	0.00	41.09	0.00	-41.09	-41.09
Sasan Power Limited	0.00	0.00	0.00	12.89	0.00	-12.89	-12.89
TRN ENERGY PRIVATE LIMITED	25.10	0.00	-25.10	19.55	0.18	-19.36	-44.46
NLC Tamilnadu Power Limited	0.00	0.00	0.00	6.15	0.00	-6.15	-6.15
RENEW SURYA OJAS PRIVATE LIMITED-Wind	0.00	0.00	0.00	45.91	0.00	-45.91	-45.91
Adani Power Limited-Raipur TPP	2.15	0.00	-2.15	372.17	8.26	-363.91	-366.06
ADANI RENEWABLE ENERGY HOLDING 4 LTD.	20.07	0.00	-20.07	172.68	0.00	-172.68	-192.74
NTPC Tanda Stage II	0.00	0.00	0.00	6.12	0.00	-6.12	-6.12
NTPC Rihand stage III	0.00	0.00	0.00	13.24	0.00	-13.24	-13.24
D B Power Limited	6.63	0.00	-6.63	58.19	0.00	-58.19	-64.83
NTPC Rihand stage II	0.00	0.00	0.00	9.20	0.00	-9.20	-9.20
NTPC Kahalgaon stage II	0.00	0.00	0.00	21.00	0.00	-21.00	-21.00
ADANI RENEWABLE ENERGY 41 LTD_infirm	0.00	0.00	0.00	18.08	0.00	-18.08	-18.08
MAHAN ENERGEN LIMITED U#1	2.02	0.00	-2.02	171.44	0.00	-171.44	-173.46
NEA MUZAFFARPUR	0.00	0.00	0.00	168.35	0.77	-167.58	-167.58
Jhabua Power Limited	21.52	0.00	-21.52	36.04	0.00	-36.04	-57.57
NTPC Sipat Stage I	0.00	0.00	0.00	2.95	0.00	-2.95	-2.95
Jindal Steel & Power Ltd , DCPP	2.40	0.00	-2.40	101.19	3.81	-97.38	-99.78
MAITHON POWER LIMITED	0.00	0.00	0.00	6.28	0.00	-6.28	-6.28
RENEW SURYA ROSHNI PVT. LTD. Koppal PS	0.00	0.00	0.00	1.33	0.00	-1.33	-1.33
NTPC BARH Stage II	0.00	0.00	0.00	25.00	0.00	-25.00	-25.00
NTPC North Karanpura STPS	0.00	0.00	0.00	26.00	0.00	-26.00	-26.00
Jindal Power Limited, Stage-1	93.43	0.00	-93.43	163.91	3.15	-160.77	-254.20
NTPC Talcher Super Thermal Power Station Stage II	0.00	0.00	0.00	5.56	0.00	-5.56	-5.56
NTPC Telangana	0.00	0.00	0.00	7.94	0.00	-7.94	-7.94
NTPC Korba Stage I &II	0.00	0.00	0.00	3.25	0.00	-3.25	-3.25
NTPC Darlipali	0.00	0.00	0.00	7.82	0.00	-7.82	-7.82
NTPC Kahalgaon stage I	0.00	0.00	0.00	7.36	0.00	-7.36	-7.36
NLC INDIA LIMITED NEYVELI NEW TPS	0.00	0.00	0.00	7.11	0.00	-7.11	-7.11
NTPC Vindhyachal Stage IV	0.00	0.00	0.00	1.85	0.00	-1.85	-1.85
NTPC Gadarwara	0.00	0.00	0.00	4.05	0.00	-4.05	-4.05
NEPAL ELECTRICITY AUTHORITY TANAKPUR	0.00	0.00	0.00	31.13	0.65	-30.48	-30.48
NREL-Dayapar Wind	0.00	0.00	0.00	2.26	0.00	-2.26	-2.26
NTPC Rihand stage I	0.00	0.00	0.00	12.24	0.00	-12.24	-12.24
Sorang HEP (Himachal Sorang Power Pvt. Ltd.)	12.71	0.00	-12.71	0.86	0.00	-0.86	-13.57
NTPC Sipat Stage II	0.00	0.00	0.00	1.86	0.00	-1.86	-1.86
MAHAN ENERGEN LIMITED U#2	20.61	0.00	-20.61	249.49	0.00	-249.49	-270.10
NTPC Farakka stage III	0.00	0.00	0.00	11.17	0.00	-11.17	-11.17
NTPC Vindhyachal Stage I	0.00	0.00	0.00	2.50	0.00	-2.50	-2.50
NTPC Lara Stage I	0.00	0.00	0.00	3.49	0.00	-3.49	-3.49
NTPC Vindhyachal Stage III	0.00	0.00	0.00	2.60	0.00	-2.60	-2.60
NTPC Vindhyachal Stage II	0.00	0.00	0.00	0.60	0.00	-0.60	-0.60
Adani Wind Energy Kutchh Four Ltd. Nakhatrana	0.08	0.00	-0.08	25.57	0.00	-25.57	-25.64
ReNew Surya Ravi Private Limited	6.63	0.00	-6.63	38.20	0.00	-38.20	-44.83
Transition Green Energy Private Limited	0.00	0.00	0.00	14.00	0.00	-14.00	-14.00
NTPC KUDGI	0.00	0.00	0.00	2.13	0.00	-2.13	-2.13
NTPC Ramagundam Stage I &II	0.00	0.00	0.00	1.61	0.00	-1.61	-1.61
NTPC Ramagundam Stage III	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KAMENG HYDRO POWER STATION	0.00	0.00	0.00	15.91	0.00	-15.91	-15.91
BHARAT ALUMINIUM COMPANY LTD	0.00	0.00	0.00	17.63	0.00	-17.63	-17.63
NTPC khargone	0.00	0.00	0.00	4.19	0.00	-4.19	-4.19
Adani Green Energy Twenty Five B Limited_infirm	0.00	0.00	0.00	85.07	0.00	-85.07	-85.07
NTPC Unchahar Stage IV	0.00	0.00	0.00	3.31	0.00	-3.31	-3.31
NLC INDIA LIMITED TPS II STAGE II	0.00	0.00	0.00	1.18	0.00	-1.18	-1.18
IGSTPS JHAJJAR	0.00	0.00	0.00	10.86	0.00	-10.86	-10.86
NTPC Simhadri Stage II	0.00	0.00	0.00	0.40	0.00	-0.40	-0.40
Grian Energy Private Limited	0.00	0.00	0.00	1.77	0.00	-1.77	-1.77
Bongaigaon Thermal Power Station NTPC	0.00	0.00	0.00	2.90	0.00	-2.90	-2.90

NLC INDIA LIMITED TPS II STAGE I	0.00	0.00	0.00	1.37	0.00	-1.37	-1.37
NTPC Vindhyachal Stage V	0.00	0.00	0.00	1.43	0.00	-1.43	-1.43
Amplus Ages Private Limited	0.00	0.00	0.00	2.39	0.00	-2.39	-2.39
NLC INDIA LIMITED TPS I EXPANSION	0.00	0.00	0.00	1.62	0.00	-1.62	-1.62
Palatana Plant	0.00	0.00	0.00	18.22	0.00	-18.22	-18.22
Onevolt Energy Private Limited	0.20	0.00	-0.20	4.11	0.00	-4.11	-4.32
Transition Energy Services Private Limited	0.00	0.00	0.00	9.53	0.00	-9.53	-9.53
ADHUNIK POWER & NATURAL RESOURCES LTD.	0.00	0.00	0.00	4.48	0.00	-4.48	-4.48
SEIL Energy India Limited Project II	4.45	0.00	-4.45	25.79	0.00	-25.79	-30.24
NTPC BARH Stage I	0.00	0.00	0.00	20.37	0.00	-20.37	-20.37
OSTRO KANNADA POWER PRIVATE LIMITED	1.74	0.00	-1.74	12.38	0.00	-12.38	-14.12
IND BARATH ENERGY UTKAL LIMITED	57.71	4.85	-52.86	109.73	0.00	-109.73	-162.59
NTPP BRBCL	0.00	0.00	0.00	6.23	0.00	-6.23	-6.23
NTPC Unchahar Stage I	0.00	0.00	0.00	1.66	0.00	-1.66	-1.66
NTPC Korba Stage III	0.00	0.00	0.00	1.11	0.00	-1.11	-1.11
NTPC Unchahar Stage II	0.00	0.00	0.00	1.14	0.00	-1.14	-1.14
GMR Warora Energy Limited	4.35	0.00	-4.35	4.43	0.00	-4.43	-8.78
NTPC Mouda Stage I	0.00	0.00	0.00	2.61	0.00	-2.61	-2.61
Serentica Renewables India 1 Private Limited	31.66	0.00	-31.66	0.05	0.00	-0.05	-31.71
NTPC Dadri Stage II	0.00	0.00	0.00	6.97	0.00	-6.97	-6.97
R.K.M POWERGEN PRIVATE LIMITED	8.24	0.00	-8.24	9.86	0.00	-9.86	-18.10
NTPC Dadri Stage I	0.00	0.00	0.00	6.81	0.00	-6.81	-6.81
NTECL VALLUR	0.00	0.00	0.00	0.30	0.00	-0.30	-0.30
Serentica Renewables India 4 Private Limited	0.00	0.00	0.00	0.91	0.00	-0.91	-0.91
ADANI GREEN ENERGY 25 LIMITED_infirm	0.00	0.00	0.00	46.13	0.00	-46.13	-46.13
NTPC Solapur	0.00	0.00	0.00	5.48	0.00	-5.48	-5.48
ASSAM GAS BASED POWER STATION	0.00	0.00	0.00	1.38	0.00	-1.38	-1.38
KANTI BIJLEE UTPADAN NIGAM LIMITED	0.00	0.00	0.00	11.75	0.00	-11.75	-11.75
NTPC Simhadri Stage I	0.00	0.00	0.00	0.01	0.00	-0.01	-0.01
ADANI SOLAR ENERGY RJ TWO PVT. LTD.	0.00	0.00	0.00	36.81	0.00	-36.81	-36.81
Amp Energy Green Six Private Limited	0.00	0.00	0.00	17.00	0.00	-17.00	-17.00
NTPC Mouda Stage II	0.00	0.00	0.00	3.00	0.00	-3.00	-3.00
NLC INDIA LIMITED THERMAL POWER STATION II EXPANSION	0.00	0.00	0.00	0.57	0.00	-0.57	-0.57
RENEW SURYA PRATAP PRIVATE LIMITED	0.00	0.00	0.00	36.04	0.00	-36.04	-36.04
TPSL Banderwala SECI 100_INF	13.97	0.00	-13.97	1.40	0.00	-1.40	-15.37
JORETHANG LOOP HEP, DANS ENERGY PVT. LTD	0.00	0.00	0.00	0.01	0.00	-0.01	-0.01
Adept Renewable Technologies Private Limited	0.00	0.00	0.00	18.25	0.00	-18.25	-18.25
Sembcorp Green Infra Private Limited (Infirm)	0.00	0.00	0.00	7.46	0.00	-7.46	-7.46
IL&FS TAMIL NADU POWER CO. LTD.	0.00	0.00	0.00	0.86	0.00	-0.86	-0.86
DGEN MEGA POWER PROJECT	0.00	0.00	0.00	0.22	0.00	-0.22	-0.22
Maruti Clean Coal and Power Limited	33.32	0.00	-33.32	2.82	0.00	-2.82	-36.14
Jaypee Nigrie Super Thermal Power Plant	117.57	0.00	-117.57	236.92	0.00	-236.92	-354.49
ADANI SOLAR ENERGY JAISALMER TWO PRIVATE LIMITED(Project-2)	0.00	0.00	0.00	24.97	0.00	-24.97	-24.97
NTPC Talcher Stage I	0.00	0.00	0.00	22.01	0.00	-22.01	-22.01
AGARTALA GAS BASED POWER STATION	0.00	0.00	0.00	9.84	0.00	-9.84	-9.84
Jindal India Thermal Power Limited	86.45	0.00	-86.45	0.00	0.00	0.00	-86.45
WIND FIVE REENERGY LIMITED	0.00	0.00	0.00	2.80	0.00	-2.80	-2.80
GMR KAMALANGA ENERGY LTD-CTU	0.00	0.00	0.00	0.92	0.00	-0.92	-0.92
NTPC Unchahar Stage III	0.00	0.00	0.00	1.37	0.00	-1.37	-1.37
RENEW SURYA ROSHNI PVT. LTD -Fatehgarh-III PS	0.00	0.00	0.00	0.04	0.00	-0.04	-0.04
ADANI SOLAR ENERGY JODHPUR 2 LIMITED	0.00	0.00	0.00	5.98	0.00	-5.98	-5.98
COASTAL ENERGEN PRIVATE LIMITED	0.00	0.00	0.00	0.80	0.00	-0.80	-0.80
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED PSS3_infirm (162.5 MW Hybrid Solar of 187.5MW HPD)	0.00	0.00	0.00	27.43	0.00	-27.43	-27.43
Serentica Renewables India 1 Private Limited- Koppal (Infirm)	0.00	0.00	0.00	1.33	0.00	-1.33	-1.33
DHARIWAL STU OTH	0.00	0.00	0.00	1.84	0.00	-1.84	-1.84
CONTINUUM POWER TRADING (TN) PVT. LTD.	0.00	0.00	0.00	0.27	0.00	-0.27	-0.27
NTPC SAIL POWER COMPANY LIMITED	0.00	0.00	0.00	0.10	0.00	-0.10	-0.10

Nani Virani Wind Energy Private Limited	0.03	0.00	-0.03	0.47	0.00	-0.47	-0.50
TPSL 200MW TPTCL Banderwala	7.84	0.00	-7.84	11.17	0.00	-11.17	-19.01
Adani Green Energy Twenty Six B Limited_infirm	0.00	0.00	0.00	16.63	0.00	-16.63	-16.63
Chuzachen HEP	0.00	0.00	0.00	0.02	0.00	-0.02	-0.02
Dhariwal ISTS	7.74	0.00	-7.74	9.07	0.00	-9.07	-16.81
Adani Green Energy Twenty Five A Limited_Infirm	0.00	0.00	0.00	41.41	0.00	-41.41	-41.41
NTPC SOLAPUR SOLAR PV Station	0.76	0.00	-0.76	0.72	0.00	-0.72	-1.48
ADANI GREEN ENERGY 26 A LIMITED_infirm	0.00	0.00	0.00	0.85	0.00	-0.85	-0.85
Adani Wind Energy Kutchh Four Ltd. Nakhatrana (infirm)	0.00	0.00	0.00	2.99	0.00	-2.99	-2.99
Ramagundam Floating solar	11.82	0.00	-11.82	3.56	0.00	-3.56	-15.38
Simhadri FSP 15 MW	0.00	0.00	0.00	1.70	0.00	-1.70	-1.70
Simhadri Floating solar (10 MW)	0.00	0.00	0.00	1.12	0.00	-1.12	-1.12
2X600 VEDANTA LIMITED Chhattisgarh Power Plant	0.00	0.00	0.00	0.00	0.01	0.01	0.01
BANGLADESH POWER DEVELOPMENT BOARD	0.00	0.47	0.47	0.00	0.00	0.00	0.47
Chilime Hydro Power Project NEPAL ELECTRICITY AUTHORITY	0.25	0.00	-0.25	0.00	0.00	0.00	-0.25
DHARIWAL STU MH	151.20	0.00	-151.20	0.00	0.00	0.00	-151.20
Dikchu Hydro Electric Project (Sneha Kinetic Power Projects Pvt. Ltd.)	0.00	0.00	0.00	3.67	0.00	-3.67	-3.67
Druk Green Power Corporation Limited (Bhutan)	0.00	0.00	0.00	0.00	24.16	24.16	24.16
IRCON RENEWABLE POWER LIMITED Infirm	6.58	0.00	-6.58	0.00	0.00	0.00	-6.58
JSW RENEW ENERGY LIMITED INFIRM	0.00	0.00	0.00	5.64	0.00	-5.64	-5.64
KHURJA STPP	0.00	0.00	0.00	32.90	0.00	-32.90	-32.90
LANCO AMARKANTAK POWER LIMITED	0.00	0.00	0.00	0.57	0.00	-0.57	-0.57
Kawas	0.00	0.00	0.00	0.00	0.74	0.74	0.74
SEMBCORP ENERGY INDIA LIMITED	78.18	0.00	-78.18	0.00	0.00	0.00	-78.18
TRISHULI NEPAL ELECTRICITY AUTHORITY	0.22	0.00	-0.22	0.00	0.00	0.00	-0.22
JUNIPER GREEN COSMIC PRIVATE LIMITED	0.00	0.00	0.00	14.41	0.00	-14.41	-14.41
Serentica Renewables India 5 Private Limited	0.80	0.00	-0.80	15.74	0.00	-15.74	-16.54
AMBUJA CEMENTS LIMITED(Khavda PSS-3)_infirm	0.47	0.00	-0.47	6.84	0.00	-6.84	-7.31
Acme Phalodi Solar Energy Private Limited_Infirm	0.00	0.00	0.00	45.90	0.00	-45.90	-45.90
Transition Sustainable Energy Services One Private Limited-Infirm	0.00	0.00	0.00	0.14	0.00	-0.14	-0.14
Acme Raisar Solar Energy Private Limited_Infirm	0.00	0.00	0.00	29.65	0.00	-29.65	-29.65
IRCON RENEWABLE POWER LIMITED	6.58	0.00	-6.58	0.00	0.00	0.00	-6.58
Jindal India Power Limited	68.96	0.00	-68.96	147.17	0.00	-147.17	-216.13
RKM_POWER	141.65	0.00	-141.65	0.00	0.00	0.00	-141.65
DB Power	77.10	0.00	-77.10	0.00	0.00	0.00	-77.10
JSW Energy Utkal limited	0.63	0.00	-0.63	0.00	0.00	0.00	-0.63
Transition Sustainable Energy Services One Private Limited	0.00	0.00	0.00	8.40	0.00	-8.40	-8.40
Adani Green Energy Twenty Four A Limited_infirm	0.00	0.00	0.00	0.26	0.00	-0.26	-0.26
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (25 MW Hybrid Solar of 25 MW of 187.5MW HPD)	0.00	0.00	0.00	0.03	0.00	-0.03	-0.03
ADANI RENEWABLE ENERGY FIFTY FIVE LIMITED_PSS3_infirm (20.8 MW Hybrid Wind of 25 MW of 187.5MW HPD)	0.00	0.00	0.00	0.02	0.00	-0.02	-0.02

Source: NLDC

* in case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.

** (-) indicates sale and (+) indicates purchase,

*** Total net includes net of transactions through bilateral and power exchanges

Table-33: VOLUME AND CHARGES UNDER DSM (DAY-WISE), NOVEMBER 2024

Date	Volume (MU)	All India Grid Charges (₹/kWh)		
		Minimum	Maximum	Average
1-Nov-24	81.56	1.54	9.92	3.07
2-Nov-24	81.63	1.67	9.89	3.05
3-Nov-24	73.52	1.73	9.88	3.01
4-Nov-24	75.48	2.29	10.00	3.85
5-Nov-24	75.96	2.49	10.00	4.03
6-Nov-24	70.19	2.46	10.00	4.02
7-Nov-24	74.76	2.65	10.00	3.88
8-Nov-24	70.57	2.47	10.00	4.01
9-Nov-24	71.75	2.43	10.00	4.07
10-Nov-24	72.35	1.86	10.00	3.49
11-Nov-24	69.92	2.46	11.06	4.57
12-Nov-24	72.94	2.69	10.35	4.56
13-Nov-24	71.73	2.11	10.35	4.26
14-Nov-24	73.60	2.45	10.00	4.02
15-Nov-24	76.47	2.69	10.00	4.13
16-Nov-24	71.55	2.51	10.00	3.87
17-Nov-24	77.52	1.97	10.00	3.32
18-Nov-24	73.00	2.25	14.01	4.24
19-Nov-24	70.51	2.53	11.76	4.06
20-Nov-24	70.43	2.11	11.30	3.95
21-Nov-24	65.69	2.41	13.02	4.23
22-Nov-24	67.91	2.82	11.38	4.41
23-Nov-24	66.41	2.52	12.77	4.41
24-Nov-24	67.95	2.26	10.00	3.55
25-Nov-24	67.24	2.50	10.00	4.25
26-Nov-24	67.00	2.69	10.00	4.64
27-Nov-24	68.00	2.60	10.00	4.26
28-Nov-24	70.88	2.53	10.00	4.28
29-Nov-24	71.04	2.50	10.00	4.46
30-Nov-24	77.23	2.42	10.00	4.22
Total	2164.79	1.54[#]	14.01[#]	4.01

Source: NLDC

[#] Maximum/Minimum in the month

Table-34: VOLUME OF ELECTRICITY UNDER DRAWAL/ OVER INJECTION (EXPORTED) UNDER DSM, NOVEMBER 2024

Name of the Entity	Volume of Under drawal/ Over injection (MU)	% of Volume
Madhya Pradesh	91.95	4.77
Punjab	90.45	4.70
Haryana	81.20	4.22
Rajasthan	77.48	4.02
Tamil Nadu	71.89	3.73
Gujarat	70.80	3.68
Uttar Pradesh	58.09	3.02
Andhra Pradesh	47.02	2.44
Bihar	38.95	2.02
Chattisgarh	35.60	1.85
Telangana	33.30	1.73
Sasan Ultra Mega Power Project	30.89	1.60
Delhi	28.00	1.45
Jammu & Kashmir	27.88	1.45
Telangana super thermal power plant	27.22	1.41
Himachal Pradesh	27.20	1.41
Maharashtra	25.96	1.35
Ramagundam	24.92	1.29
DVC Beneficiary	23.86	1.24
Karnataka	21.37	1.11
IGSTPS JHAJJAR	21.35	1.11
NTPC_KUDGI	19.48	1.01
Jindal Power Ltd. Stage-2	18.60	0.97
Uttarakhand	18.05	0.94
NTPC Solapur Thermal Power Station Stage-1	16.74	0.87
Assam Gas Based Power Plant(Kathalguri)	15.89	0.82
NTPC Lara	14.96	0.78
ARCELORMITTAL NIPPON STEEL INDIA LTD. Beneficiary	14.79	0.77
Jindal Power Ltd.	14.47	0.75
NTPC Gadarwara Super Thermal Power Plant Stage-I	13.89	0.72
ReNew Surya Ojas Private Limited koppal	12.99	0.67
DADRI TPS#1	12.31	0.64
Railways	12.08	0.63
Odisha	10.70	0.56
Pondichery	9.74	0.51
DADRI TPS#2	9.69	0.50
NABINAGAR STPP (NPGC)	9.64	0.50
BARH I	9.43	0.49
RKM Power	8.69	0.45
TANDA STAGE #2	8.54	0.44
UNCHA HAR 4	8.25	0.43
JHARKHAND Beneficiary	8.17	0.42
NTPC Mauda Super Thermal Power Station Stage 2	8.08	0.42
NPCIL Kakrapar Atomic Power Plant	7.99	0.41
Tuticorin_JSWRenew_W_Infirm	7.68	0.40
NTPC Kharbone Super Thermal Power Plant	7.55	0.39
NTPC Mauda Super Thermal Power Station	7.42	0.39
JPNIGRIE (JNSTPP)	7.32	0.38
NEW NEYVELI THERMAL POWER PALNT	7.30	0.38
HIRIYUR_OSTROKANNADA	7.15	0.37
Simhardi Stage-1	7.10	0.37
Adani Power Limited - Raipur TPP	7.07	0.37
Moser Baer Power (MB Power) MP Limited	7.00	0.36
Talcher stage 2	6.76	0.35
JSW Renew Energy Limited Savalaperi infirm	6.56	0.34
ReNew Surya Roshni Pvt Ltd	6.43	0.33
Darlipali Super Thermal Power Station	6.25	0.32
MAHAN ENERGEN LIMITED	6.14	0.32
Simhardi Stage-2	6.13	0.32
KHURJA_STPP	5.97	0.31
Maithon Power Ltd.	5.85	0.30
Kerala	5.82	0.30

Mizoram	5.81	0.30
NAPTHA JHAKRI HEP	5.76	0.30
BHAKRA	5.60	0.29
NLC Tamli Nadu Power Ltd	5.52	0.29
Adani Wind Energy MP One Private Limited	5.48	0.28
UNCHAHAR 2	5.29	0.27
Assam	5.26	0.27
BRBCL_NABINAGAR	5.24	0.27
Apraava Energy Private Limited (AEPL)	5.17	0.27
NTPC Vindhyachal Super Thermal Power Station Stage 3	5.13	0.27
Vallur Thermal Power Station	5.11	0.27
ADYAH SOLAR ENERGY PRIVATE LIMITED	5.09	0.26
UNCHAHAR 1	5.00	0.26
NTPC Vindhyachal Super Thermal Power Station Stage I	4.95	0.26
Jindal India Thermal Power Ltd.	4.93	0.26
Tehri Hydro	4.93	0.26
PVG_Tata Power Renewable Energy Limited	4.86	0.25
NTPC Farakka	4.85	0.25
LANCO AMARKANTAK	4.75	0.25
Meghalaya	4.69	0.24
Dadar & Nagar Haveli, Daman & Diu	4.69	0.24
Chamera 1	4.62	0.24
Adani Solar Energy Jaisalmer Four Private Limited SOLAR	4.58	0.24
Renew Power Limited SECI-II	4.58	0.24
NLCII Stage 2	4.31	0.22
AYANA RENEWABLE POWER SIX PRIVATE LIMITED	4.28	0.22
NTPC Sipat Thermal Power Station Stage-1	4.23	0.22
Unchahar stage 3	4.22	0.22
OSTRO Energy Private Limited	4.19	0.22
Kahalgaon stage 2	4.13	0.21
Girel, Tuticorin	4.13	0.21
Rampur Hydro	4.10	0.21
Adani Wind Energy Kutchh Four Ltd, Nakhatrana and Dedhiya	4.09	0.21
Ananthapuramu (Sprng) Ultra Mega Solar Park	4.07	0.21
Fortum Solar	4.06	0.21
Goa	4.01	0.21
Kahalgaon stage 1	3.95	0.21
URI	3.92	0.20
Adani Solar Energy Jaisalmer One Private Limited WIND	3.91	0.20
RENEW SURYA OJAS PVT LIMITED	3.90	0.20
BALCO_CTU	3.86	0.20
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	3.68	0.19
Adani NPKUNTA_SOLAR	3.68	0.19
NLCII Stage 1	3.66	0.19
Azure Power Forty Three Private Limited	3.57	0.19
Adani Power Limited - Raigarh TPP	3.48	0.18
Dehar Hydro	3.43	0.18
Agartala Gas Turbine Power Plant	3.40	0.18
Ayana, NPKUNTA	3.38	0.18
Jindal Steel & power Ltd. (Dangamahua CPP)	3.32	0.17
NTPC North Karanpura STPS	3.32	0.17
Betam, Tuticorin	3.30	0.17
NTPC Vindhyachal Super Thermal Power Station Stage 4	3.28	0.17
Ramagundam stage 3	3.26	0.17
DULHASTI Hydro power	3.22	0.17
West Bengal	3.21	0.17
SIMHAPURI(SEPL)	3.15	0.16
NTPC Vindhyachal Super Thermal Power Station Stage 2	3.15	0.16
AM Green Energy Private Limited Wind_Infirm	3.15	0.16
Baba Atomic research Centre	3.12	0.16
Tripura	3.10	0.16
Karacham Wangtoo	3.01	0.16
NEPAL_NVVN	3.00	0.16
Thar Surya 1 Private Limited	3.00	0.16
DP Power	2.97	0.15
Manipur	2.95	0.15

Talcher stage 1	2.95	0.15
SKS Power	2.94	0.15
BARH	2.94	0.15
Arinsun Clean Energy Private Ltd	2.93	0.15
Avaada Sustainable RJProject Private Limited	2.93	0.15
Orange, Tuticorin	2.92	0.15
NSPCL	2.88	0.15
NTPC, NPKunta	2.86	0.15
GRT Jewellers (India) Private Limited_GRTJIPL	2.86	0.15
VENA ENERGY VIDYUTH PRIVATE LIMITED_SOLAR_INFIRM	2.85	0.15
NTPC Vindhyachal Super Thermal Power Station Stage 5	2.83	0.15
ADANI SOLAR ENERGY KA NINE PRIVATE LIMITED	2.83	0.15
JSW RENEW ENERGY LIMITED	2.82	0.15
VENA ENERGY VIDYUTH PRIVATE LIMITED_INFIRM	2.78	0.14
Avaada Sunrays Energy Private Limited	2.72	0.14
SINGRAULI TPS	2.72	0.14
Torrent Solargen Ltd (Torrent Power Ltd)	2.71	0.14
JSW Energy Utkal Ltd	2.68	0.14
Ayana Renewable Power One Private Limited	2.66	0.14
URI Stage 2	2.62	0.14
ACME Chittorgarh Solar Energy Private Limited	2.60	0.14
ACME Heergarh Powertech Private Limited	2.59	0.13
AVAADA SUNSHINE ENERGY PRIVATE LIMITED	2.58	0.13
Mytrah, Tuticorin	2.57	0.13
NTPC Rihand stage 2	2.57	0.13
Clean Solar Power (bhadla) Pvt. Ltd	2.56	0.13
Avaada Sunce Energy Private Limited	2.54	0.13
RAP-B	2.51	0.13
NTPC ETTAYAPURAM SOLAR PLANT	2.49	0.13
Koteshwar hps	2.44	0.13
TATA POWER RENEWABLE ENERGY LIMITED	2.43	0.13
Rihand Stage 3	2.40	0.12
ACME DEOGHAR SOLAR POWER PRIVATE LIMITED	2.36	0.12
Athena Jaipur Solar Power Pvt. Ltd.	2.34	0.12
Semcorp Energy India Limited_Project-2(SGPL)	2.34	0.12
NAPP	2.28	0.12
Nagaland	2.27	0.12
Goa	2.26	0.12
Bongaigaon TPP(NTPC)	2.26	0.12
TANAKPUR	2.25	0.12
Tashiding Hydro Power	2.22	0.12
Farakka stage 3	2.19	0.11
GMR Warora Energy Ltd.	2.19	0.11
Koldam Hydro Power	2.19	0.11
Altra Xergi Power Private Limited	2.19	0.11
Clean Solar Power (bhadla) Pvt. Ltd	2.19	0.11
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	2.18	0.11
ACME RAISAR SOLAR ENERGY PRIVATE LIMITED	2.18	0.11
Mega Solis Renewables Private Limited	2.17	0.11
ABC RENEWABLE ENERGY PRIVATE LIMITED	2.17	0.11
PARAMPUJYA SOALR ENERGY PVT LTD	2.16	0.11
TPCL Mundra Thermal Power Station (formerly CGPL)	2.14	0.11
KSK mahanadi	2.10	0.11
ReNew Sun Bright Private Limited	2.08	0.11
Adani Green Energy Ltd	2.07	0.11
Green Infra Wind Energy Limited SECI-III Vadva	2.07	0.11
Avaada Solar, Pavagada	2.07	0.11
Masaya Solar Energy Private Limited	2.05	0.11
Kolayat Solar Power Plant	2.03	0.11
ILFS	2.03	0.11
DHAULIGANGA HEP	1.95	0.10
SIKKIM Beneficiary	1.94	0.10
BEEMPOW ENERGY PRIVATE LIMITED	1.89	0.10
Azure Power Pavagada	1.89	0.10
Chamera 2	1.88	0.10
Mahindra Renewables Pvt Ltd.	1.81	0.09

BALCO	1.81	0.09
Avaada RJHN Private Limited	1.78	0.09
NLC Expansion	1.76	0.09
Kameng HEP	1.76	0.09
Arunachal Pradesh	1.73	0.09
Eden Renewable Cite Private Limited	1.72	0.09
Adani Solar Energy Jaisalmer Five Private Limited	1.72	0.09
Sipat Stage 2	1.66	0.09
Powergrid HVDC	1.65	0.09
TRN Energy	1.65	0.09
ADANI HYBRID ENERGY JAILSALMER ONE LTD (SOLAR ONLY)	1.62	0.08
Avikiran Solar India Private Ltd	1.62	0.08
Renew Solar Power Private Limited Bikaner	1.61	0.08
RISING SUN ENENERGY PVT LIMITED	1.61	0.08
Pong Hydro Power	1.60	0.08
ADANI HYBRID ENERGY JAILSALMER TWO LTD (SOLAR ONLY)	1.60	0.08
SEMBCORP GREEN INFRA PRIVATE LIMITED (INFIRM)	1.60	0.08
Azure Power Forty One Private Limited	1.59	0.08
Avaada solarize	1.55	0.08
Green Infra Wind Energy Limited SECI-II Vadva	1.53	0.08
Mega Suryaurja Pvt Ltd	1.48	0.08
Adani Solar Energy Jaisalmer Two Private Limited (Project-2)	1.45	0.08
Jhabua	1.44	0.07
Adani Renewable (RJ) Ltd	1.44	0.07
Azure Solar	1.44	0.07
Nokhra Solar	1.43	0.07
Chamera 3	1.42	0.07
RENEW SOLAR ENERGY (JHARKHAND) PRIVATE LIMITED	1.41	0.07
Korba Super Thermal Power Station Stage III	1.40	0.07
TATA POWER GREEN Energy Limited	1.37	0.07
Ranganadi HEP	1.34	0.07
TATA, Npkunta	1.33	0.07
Mejia Thermal Power station stage 2	1.33	0.07
Fortum finsurya	1.30	0.07
Adani Solar Energy Jaisalmer One Private Limited	1.28	0.07
Azure Power Maple Private Limited	1.28	0.07
Semcorp Energy India Limited_Project-2(SGPL)	1.27	0.07
Railways ER	1.27	0.07
RENEW SURYA PRATAP	1.24	0.06
Adhunik Power & Natural Resources Ltd	1.22	0.06
Chandigarh	1.20	0.06
AMP Energy Green Six Private Limited	1.19	0.06
Korba Super Thermal Power Station Stage I&II	1.17	0.06
JSW RENEW ENERGY TWO LIMITED (KARUR)	1.14	0.06
SALAL Hydro	1.14	0.06
ReNew Solar Urja Pvt Ltd	1.14	0.06
Kishanganga HEP	1.12	0.06
Bairasuil Hydro Power	1.11	0.06
RENEW SURYA RAVI	1.09	0.06
Adani Solar Energy Jaisalmer Two Private Limited	1.09	0.06
ACME PHALODI SOLAR ENERGY PRIVATE LIMITED	1.08	0.06
ADANI HYBRID ENERGY JAILSALMER THREE LTD (SOLAR ONLY)	1.05	0.05
ELECTRO SOLAIRE PVT. LTD.	1.04	0.05
Nepal	1.03	0.05
Athena Karnal Solar Power Pvt. Ltd	1.02	0.05
ReNew Surya Roshni Pvt Ltd	1.02	0.05
Sitac Kabini Renewables Pvt. Ltd.	1.02	0.05
Adani Solar Energy Jaisalmer Two Private Limited Solar	0.97	0.05
Athena Bhiwadi Solar Power Pvt. Ltd	0.94	0.05
NTPC RAMAGUNDAM FLOATING SOLAR PLANT	0.92	0.05
ADANI GREEN ENERGY TWENTY FIVE LIMITED	0.91	0.05
Grian Energy Private Limited	0.91	0.05
Renew Sun wave Pvt. Ltd. Fatehgarh2	0.90	0.05
PALATANA	0.88	0.05

ADANI HYBRID WIND ENERGY JAILSALMER ONE LTD	0.87	0.05
Serentica Renewables India 4 Private Limited	0.86	0.04
Netra Wind Private Limited	0.85	0.04
GMR Kamalanga Energy Ltd.	0.85	0.04
INDIGRID SOLAR-II (AP) PRIVATE LIMITED	0.84	0.04
Singoli Bhatwari HEP	0.84	0.04
Serentica Renewables India 1 Private Limited	0.84	0.04
Rongnichu Hydro Electric Project	0.82	0.04
GUJARAT INDUSTRIES POWER COMPANY LTD	0.82	0.04
KREDL, Pavagada	0.82	0.04
PVG_AMPLUS_PAVAGADA	0.81	0.04
Azure Power Thirty Four pvt Limited	0.81	0.04
COASTAL ENERGEN PVT LTD	0.79	0.04
Yarrow, Pavagada	0.78	0.04
TPSL Banderwala	0.77	0.04
IRCON RENEWABLE POWER LIMITED_PAVAGADA	0.77	0.04
PVG_AMPLUS_TUMKUR	0.76	0.04
Powerica	0.75	0.04
Athena Hisar Solar Power Pvt. Ltd	0.75	0.04
Transition Energy Services Private Limited	0.75	0.04
Gujarat State Electricity Corporation Limited phase-2	0.75	0.04
Pare_HEP	0.74	0.04
ADANI HYBRID ENERGY JAILSALMER THREE LTD (Wind ONLY)	0.73	0.04
DEVIKOT SOLAR	0.73	0.04
Nidan NTPC	0.71	0.04
TATA POWER RENEWABLE ENERGY LTD, Radhanesda	0.71	0.04
NLCTSII EXPANSION 2	0.70	0.04
AMP Energy Green Five Private Limited	0.69	0.04
Bangladesh	0.69	0.04
IRCON RENEWABLE POWER LIMITED_PAVAGADA	0.68	0.04
AMPLUS Pavagada	0.67	0.04
ACB (India) Ltd.	0.66	0.03
Renew Power pavagada	0.65	0.03
INDIGRID SOLAR-I (AP) PRIVATE LIMITED	0.64	0.03
Renew Surya Aayan Private Limited	0.63	0.03
Azure Npkunta	0.63	0.03
SJVN	0.62	0.03
Adept Renewable Technologies Private Limited	0.62	0.03
Rihand Stage 1	0.57	0.03
Kopili HEP	0.57	0.03
DIKCHU	0.57	0.03
Transition Green Energy Private Limited	0.55	0.03
JUNIPER GREEN COSMIC PRIVATE LIMITED	0.55	0.03
Sorang HEP	0.54	0.03
Dhariwal Infrastructure	0.54	0.03
NTPC Kawas Gas Plant	0.54	0.03
Gujarat State Electricity Corporation Limited, Radhanesda	0.54	0.03
Parbati 3	0.52	0.03
Doyang HEP	0.52	0.03
NVVN Bhutan	0.51	0.03
OneVolt Energy Private Limited	0.50	0.03
Ratnagiri Gas and Power PVT Limited	0.49	0.03
ACME DHAULPUR POWERTECH PRIVATE LIMITED	0.47	0.02
Chuzachen	0.46	0.02
Adani Solar Energy Jaisalmer Two Private Limited, bhadla	0.46	0.02
NTPC Jhanor-Gandhar Gas Power plant	0.46	0.02
ReNew Solar Power Private Limited	0.44	0.02
RANGIT	0.43	0.02
Alfanar Energy Private Limited	0.43	0.02
TRANSITION SUSTAINABLE ENERGY SERVICES ONE PRIVATE LIMITED	0.42	0.02
Serentica Renewables India 1 Private Limited- Koppal (Infirm)	0.41	0.02
AD hydro power	0.41	0.02
ADANI HYBRID ENERGY JAILSALMER TWO LTD wind	0.40	0.02
Adani Solar Energy Four Private Limited	0.39	0.02
Loktak HEP	0.39	0.02

Jorethang Loop Hydro Electric Project	0.38	0.02
Auraiya Solar	0.38	0.02
TP Saurya Unit-2	0.38	0.02
Adani Wind ENergy Kutchh One Limited	0.37	0.02
Sainj Hydro Power	0.36	0.02
NTPC ANTA SOLAR PV STATION	0.36	0.02
TP Saurya	0.35	0.02
Sherisha Rooftop Solar SPV Four Private Limited	0.35	0.02
Simhadari Floating Solar	0.34	0.02
Renew Surya Vihaan Private Limited	0.32	0.02
SRI5PL_BKN2	0.27	0.01
Ayana Renewable Power Three Private Limited	0.27	0.01
Sewa 2 Hydro Power	0.26	0.01
Shree Cement Ltd	0.25	0.01
Spring, Pugalur	0.20	0.01
Lanco Budhil	0.20	0.01
RAP-C	0.18	0.01
Gandhar Solar	0.16	0.01
Reliance Industries Limited Jamnagar	0.14	0.01
Unchahar Solar	0.14	0.01
Srijan Energy	0.13	0.01
Kopili-2 HEP	0.13	0.01
Nepal	0.13	0.01
Transition Sustainable Energy Services Pvt Ltd	0.12	0.01
INOX GREEN ENERGY SERVICES LIMITED	0.09	0.005
Talcher Solar	0.07	0.003
Singrauli Solar	0.07	0.003
NFL	0.06	0.003
Powergrid HVDC	0.05	0.003
ReNew Wind Energy (AP2) Private Limited	0.03	0.002
Power grid HVDC	0.03	0.002
Dadri Solar	0.02	0.001
NTPC RENEWABLE ENERGY LIMITED	0.02	0.001
Lanco Kondapalli Power Ltd	0.02	0.001
NTPC Kawas Solar	0.01	0.001
TEHRIPSP	0.01	0.0004
DGEN Mega Power Project	0.005	0.0003
VEDANTA LTD	0.0004	0.00002
Total	1925.71	100.00
Volume Exported by top 5 Regional Entities	412.98	21.45

Source: NLDC

Table-35: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) UNDER DSM, NOVEMBER 2024

Name of the Entity	Volume of Over drawal/ Under Injection (MU)	% of Volume
Maharashtra	147.59	6.14
Tamil Nadu	79.47	3.31
Karnataka	77.43	3.22
West Bengal	69.32	2.88
Uttar Pradesh	67.20	2.80
Rajasthan	65.47	2.72
Odisha	65.42	2.72
Gujarat	54.93	2.29
Telangana	51.06	2.12
Adani Wind ENergy Kutchh One Limited	46.38	1.93
JHARKHAND Beneficiary	44.06	1.83
Andhra Pradesh	35.33	1.47
INOX GREEN ENERGY SERVICES LIMITED	34.36	1.43
Madhya Pradesh	34.20	1.42
Kerala	33.98	1.41
NTPC Sipat Thermal Power Station Stage-1	28.54	1.19
ARCELORMITTAL NIPPON STEEL INDIA LTD. Beneficiary	26.08	1.08
Adani Solar Energy Jaisalmer One Private Limited WIND	24.32	1.01
Chattisgarh	23.74	0.99
Spring, Pugalur	23.44	0.98
Bihar	23.40	0.97
Punjab	22.58	0.94
Sipat Stage 2	22.21	0.92
Alfanar Energy Private Limited	21.07	0.88
Jammu & Kashmir	20.63	0.86
DVC Beneficiary	20.51	0.85
TPCL Mundra Thermal Power Station (formerly CGPL)	19.26	0.80
Sitac Kabini Renewables Pvt. Ltd.	19.08	0.79
SINGRAULI TPS	18.97	0.79
TANDA STAGE #2	18.75	0.78
Uttarakhand	17.56	0.73
Adani Wind Energy MP One Private Limited	17.16	0.71
Tuticorin_JSWRenew_W_Infirm	16.19	0.67
JSW Renew Energy Limited Savalaperi infirm	16.14	0.67
NEPAL_NVVN	16.09	0.67
Mytrah, Tuticorin	16.07	0.67
AYANA RENEWABLE POWER SIX PRIVATE LIMITED	15.55	0.65
Vallur Thermal Power Station	15.03	0.63
OSTRO Energy Private Limited	14.99	0.62
Semcorp Energy India Limited_Project-2(SGPL)	14.94	0.62
Green Infra Wind Energy Limited SECI-II Vadva	14.89	0.62
Green Infra Wind Energy Limited SECI-III Vadva	14.63	0.61
Rihand Stage 1	14.45	0.60
Ramagundam	14.43	0.60
Kahalgaon stage 1	14.42	0.60
Assam	14.09	0.59
Rihand Stage 3	13.84	0.58
BALCO_CTU	13.78	0.57
Girel, Tuticorin	13.67	0.57
Betam, Tuticorin	12.98	0.54
Renew Power Limited SECI-II	12.69	0.53
Adani Wind Energy Kutchh Four Ltd, Nakhatrana and Dedhiya	12.62	0.53
ADANI HYBRID WIND ENERGY JAILSALMER ONE LTD	12.19	0.51
Haryana	12.01	0.50
BARH I	11.88	0.49
Adani Green Energy Ltd	11.77	0.49
ReNew Surya Roshni Pvt Ltd	11.62	0.48
Talcher stage 2	11.56	0.48
Netra Wind Private Limited	11.56	0.48
Srijan Energy	11.34	0.47
Kahalgaon stage 2	11.10	0.46
Orange, Tuticorin	11.10	0.46

Telangana super thermal power plant	11.06	0.46
NTPC Gadarwara Super Thermal Power Plant Stage-I	10.95	0.46
NABINAGAR STPP (NPGC)	10.85	0.45
NTPC Khargone Super Thermal Power Plant	10.57	0.44
NTPC Rihand stage 2	10.32	0.43
BARH	10.27	0.43
IGSTPS JHAJJAR	10.11	0.42
KHURJA_STPP	10.04	0.42
ADANI HYBRID ENERGY JAILSALMER TWO LTD wind	9.69	0.40
ReNew Surya Ojas Private Limited koppal	9.45	0.39
Apraava Energy Private Limited (AEPL)	9.28	0.39
JSW RENEW ENERGY TWO LIMITED (KARUR)	9.22	0.38
Chandigarh	9.09	0.38
ADANI HYBRID ENERGY JAILSALMER THREE LTD (Wind ONLY)	9.00	0.37
HIRIYUR_OSTROKANNADA	8.75	0.36
NTPC Farakka	8.52	0.35
Adani Power Limited - Raipur TPP	8.09	0.34
Delhi	8.01	0.33
NVVN Bhutan	7.59	0.32
NTPC Solapur Thermal Power Station Stage-1	7.40	0.31
Korba Super Thermal Power Station Stage I&II	7.37	0.31
NTPC North Karanpura STPS	7.14	0.30
COASTAL ENERGEN PVT LTD	6.96	0.29
Arunachal Pradesh	6.90	0.29
RAP-C	6.62	0.28
Avikiran Solar India Private Ltd	6.60	0.27
NTPC Mauda Super Thermal Power Station	6.49	0.27
DP Power	6.24	0.26
NTPC Mauda Super Thermal Power Station Stage 2	6.19	0.26
NTPC_KUDGI	6.06	0.25
ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	5.87	0.24
Simhardi Stage-2	5.86	0.24
Manipur	5.84	0.24
NTPC ETTAYAPURAM SOLAR PLANT	5.81	0.24
Himachal Pradesh	5.80	0.24
PVG_Tata Power Renewable Energy Limited	5.76	0.24
Goa	5.57	0.23
NEW NEYVELI THERMAL POWER PALNT	5.30	0.22
DADRI TPS#2	5.27	0.22
JSW Energy Utkal Ltd	5.27	0.22
NLC Tamli Nadu Power Ltd	5.19	0.22
UNCHAHAR 4	5.17	0.22
NLCII Stage 2	5.14	0.21
Ananthapuramu (Sprng) Ultra Mega Solar Park	5.07	0.21
ACB (India) Ltd.	5.04	0.21
NTPC Vindhyachal Super Thermal Power Station Stage I	4.95	0.21
Torrent Solargen Ltd (Torrent Power Ltd)	4.87	0.20
Talcher stage 1	4.87	0.20
Dadar & Nagar Haveli, Daman & Diu	4.80	0.20
Kolayat Solar Power Plant	4.77	0.20
Moser Baer Power (MB Power) MP Limited	4.68	0.19
VENA ENERGY VIDYUTH PRIVATE LIMITED_INFIRM	4.61	0.19
Sasan Ultra Mega Power Project	4.56	0.19
Simhardi Stage-1	4.56	0.19
Ramagundam stage 3	4.51	0.19
Ayana, NPKUNTA	4.44	0.18
Serentica Renewables India 1 Private Limited	4.41	0.18
BRBCL_NABINAGAR	4.37	0.18
Bongaigaon TPP(NTPC)	4.26	0.18
NLCII Stage 1	4.26	0.18
NLCTSI EXPANSION 2	4.26	0.18
UNCHAHAR 2	4.24	0.18
Tripura	4.20	0.17
ADYAH SOLAR ENERGY PRIVATE LIMITED	4.15	0.17
Adani NPKUNTA_SOLAR	4.07	0.17
Adani Solar Energy Jaisalmer Four Private Limited SOLAR	4.04	0.17

ADANI RENEWABLE ENERGY HOLDING FOUR LIMITED	3.95	0.16
UNCHAHAHAR 1	3.94	0.16
Adani Power Limited - Raigarh TPP	3.77	0.16
Ayana Renewable Power Three Private Limited	3.74	0.16
Koldam Hydro Power	3.62	0.15
SIKKIM Beneficiary	3.39	0.14
NTPC, NPKunta	3.30	0.14
Fortum Solar	3.23	0.13
ADANI SOLAR ENERGY KA NINE PRIVATE LIMITED	3.22	0.13
NTPC Vindhyachal Super Thermal Power Station Stage 4	3.01	0.13
NTPC Vindhyachal Super Thermal Power Station Stage 3	3.01	0.13
NTPC Lara	2.92	0.12
Bangladesh	2.92	0.12
Semcorp Energy India Limited Project-2(SGPL)	2.90	0.12
ACME PHALODI SOLAR ENERGY PRIVATE LIMITED	2.88	0.12
Rapp 7&8	2.88	0.12
URI	2.82	0.12
NPCIL Kakrapar Atomic Power Plant	2.76	0.11
MAHAN ENERGEN LIMITED	2.72	0.11
RENEW SURYA RAVI	2.70	0.11
Maithon Power Ltd.	2.69	0.11
DADRI TPS#1	2.67	0.11
Mahindra Renewables Pvt Ltd.	2.61	0.11
Athena Jaipur Solar Power Pvt. Ltd.	2.61	0.11
Azure Power Forty Three Private Limited	2.59	0.11
SRI5PL_BKN2	2.59	0.11
Powerica	2.55	0.11
GRT Jewellers (India) Private Limited_GRTJIPL	2.54	0.11
NSPCL	2.54	0.11
Renew Solar Power Private Limited Bikaner	2.53	0.11
AM Green Energy Private Limited Wind_Infirm	2.47	0.10
PARAMPUJYA SOALR ENERGY PVT LTD	2.47	0.10
Avaada solarize	2.45	0.10
Nidan NTPC	2.43	0.10
ACME DEOGHAR SOLAR POWER PRIVATE LIMITED	2.42	0.10
Avaada Solar, Pavagada	2.41	0.10
Meghalaya	2.37	0.10
Fortum finsurya	2.27	0.09
ADANI HYBRID ENERGY JAILSALMER THREE LTD (SOLAR)	2.25	0.09
Masaya Solar Energy Private Limited	2.23	0.09
NTPC Vindhyachal Super Thermal Power Station Stage 5	2.23	0.09
Adani Solar Energy Jaisalmer One Private Limited	2.22	0.09
Adhunik Power & Natural Resources Ltd	2.22	0.09
Goa	2.19	0.09
Shree Cement Ltd	2.19	0.09
ACME DHAULPUR POWERTECH PRIVATE LIMITED	2.18	0.09
Renew Surya Aayan Private Limited	2.17	0.09
Serentica Renewables India 4 Private Limited	2.11	0.09
Farakka stage 3	2.04	0.08
Mejia Thermal Power station stage 2	2.02	0.08
Jhabua	1.99	0.08
Transition Energy Services Private Limited	1.94	0.08
ADANI GREEN ENERGY TWENTY FIVE LIMITED	1.94	0.08
ACME RAISAR SOLAR ENERGY PRIVATE LIMITED	1.93	0.08
Clean Solar Power (bhadla) Pvt. Ltd	1.93	0.08
GMR Warora Energy Ltd.	1.91	0.08
Unchahar stage 3	1.90	0.08
Nokhra Solar	1.89	0.08
DEVIKOT SOLAR	1.88	0.08
ReNew Surya Roshni Pvt Ltd	1.86	0.08
Avaada Sunce Energy Private Limited	1.86	0.08
NLC Expansion	1.85	0.08
URI Stage 2	1.85	0.08
Arinsun Clean Energy Private Ltd	1.82	0.08
Clean Solar Power (bhadla) Pvt. Ltd	1.80	0.07
NTPC Vindhyachal Super Thermal Power Station Stage 2	1.78	0.07

TPSL Banderwala	1.77	0.07
Azure Power Pavagada	1.72	0.07
Jindal India Thermal Power Ltd.	1.72	0.07
ReNew Solar Urja Pvt Ltd	1.71	0.07
TP Saurya	1.68	0.07
ADANI HYBRID ENERGY JAILSALMER TWO LTD (SOLAR ONLY)	1.67	0.07
SEMBCORP GREEN INFRA PRIVATE LIMITED (INFIRM)	1.65	0.07
DGEN Mega Power Project	1.64	0.07
Avaada Sunrays Energy Private Limited	1.62	0.07
Transition Sustainable Energy Services Pvt Ltd	1.61	0.07
ADANI HYBRID ENERGY JAILSALMER ONE LTD (SOLAR ONLY)	1.59	0.07
Nepal	1.58	0.07
Ayana Renewable Power One Private Limited	1.56	0.06
TATA POWER GREEN Energy Limited	1.56	0.06
TATA, Npkunta	1.54	0.06
SKS Power	1.54	0.06
RAP-B	1.52	0.06
Adani Solar Energy Jaisalmer Two Private Limited	1.50	0.06
Korba Super Thermal Power Station Stage III	1.49	0.06
Azure Power Forty One Private Limited	1.48	0.06
ACME Heergarh Powertech Private Limited	1.48	0.06
Pondichery	1.47	0.06
Railways	1.47	0.06
ABC RENEWABLE ENERGY PRIVATE LIMITED	1.47	0.06
Darlipali Super Thermal Power Station	1.45	0.06
ReNew Sun Bright Private Limited	1.39	0.06
Azure Npkunta	1.38	0.06
LANCO AMARKANTAK	1.36	0.06
Tehri Hydro	1.34	0.06
RKM Power	1.34	0.06
NTPC Kawas Solar	1.31	0.05
Ranganadi HEP	1.28	0.05
Adani Solar Energy Jaisalmer Two Private Limited Solar	1.25	0.05
Railways ER	1.25	0.05
TATA POWER RENEWABLE ENERGY LIMITED	1.24	0.05
Azure Power Maple Private Limited	1.21	0.05
Meenakshi Energy Limited	1.20	0.05
Renew Sun wave Pvt. Ltd. Fatehgarh2	1.19	0.05
Karacham Wangtoo	1.15	0.05
BALCO	1.15	0.05
BEEMPOW ENERGY PRIVATE LIMITED	1.12	0.05
TEHRIPSP	1.12	0.05
Athena Hisar Solar Power Pvt. Ltd	1.12	0.05
Thar Surya 1 Private Limited	1.11	0.05
Athena Bhiwadi Solar Power Pvt. Ltd	1.11	0.05
Avaada Sustainable RJProject Private Limited	1.08	0.04
Adani Renewable (RJ) Ltd	1.06	0.04
AMP Energy Green Six Private Limited	1.06	0.04
INDIGRID SOLAR-I (AP) PRIVATE LIMITED	1.05	0.04
RENEW SOLAR ENERGY (JHARKHAND) PRIVATE LIMITED	1.04	0.04
Eden Renewable Cite Private Limited	1.04	0.04
Athena Karnal Solar Power Pvt. Ltd	1.03	0.04
Mega SuryaUrja Pvt Ltd	1.03	0.04
Adept Renewable Technologies Private Limited	1.02	0.04
RISING SUN ENENERGY PVT LIMITED	1.01	0.04
Renew Power pavagada	1.01	0.04
ACME Chittorgarh Solar Energy Private Limited	0.99	0.04
Altra Xergi Power Private Limited	0.97	0.04
OneVolt Energy Private Limited	0.96	0.04
Adani Solar Energy Jaisalmer Five Private Limited	0.95	0.04
AMPLUS Pavagada	0.94	0.04
INDIGRID SOLAR-II (AP) PRIVATE LIMITED	0.94	0.04
Adani Solar Energy Jaisalmer Two Private Limited (Project-2)	0.93	0.04
JSW RENEW ENERGY LIMITED	0.92	0.04
Adani Solar Energy Jaisalmer Two Private Limited, bhadla	0.92	0.04
PVG_AMPLUS_TUMKUR	0.92	0.04

Yarrow, Pavagada	0.91	0.04
NTPC RAMAGUNDAM FLOATING SOLAR PLANT	0.91	0.04
RENEW SURYA PRATAP	0.89	0.04
PVG_AMPLUS_PAVAGADA	0.87	0.04
Avaada RJHN Private Limited	0.87	0.04
TP Saurya Unit-2	0.87	0.04
AVAADA SUNSHINE ENERGY PRIVATE LIMITED	0.86	0.04
Jindal Power Ltd. Stage-2	0.86	0.04
Dhariwal Infrastructure	0.86	0.04
Mega Solis Renewables Private Limited	0.84	0.04
Jindal Steel & power Ltd. (Dangamahua CPP)	0.84	0.03
Azure Power Thirty Four pvt Limited	0.82	0.03
IRCON RENEWABLE POWER LIMITED_PAVAGADA	0.82	0.03
IRCON RENEWABLE POWER LIMITED_PAVAGADA	0.82	0.03
Grian Energy Private Limited	0.81	0.03
NTPC RENEWABLE ENERGY LIMITED	0.80	0.03
Transition Green Energy Private Limited	0.79	0.03
KREDL, Pavagada	0.79	0.03
ELECTRO SOLAIRE PVT. LTD.	0.79	0.03
AMP Energy Green Five Private Limited	0.79	0.03
Azure Solar	0.78	0.03
GMR Kamalanga Energy Ltd.	0.78	0.03
Jindal Power Ltd.	0.78	0.03
Assam Gas Based Power Plant(Kathalguri)	0.77	0.03
SALAL Hydro	0.73	0.03
Chamera 2	0.71	0.03
Ratnagiri Gas and Power PVT Limited	0.66	0.03
Sewa 2 Hydro Power	0.66	0.03
TATA POWER RENEWABLE ENERGY LTD, Radhanesda	0.63	0.03
TRANSITION SUSTAINABLE ENERGY SERVICES ONE PVT. LTD.	0.63	0.03
ReNew Solar Power Private Limited	0.62	0.03
NAPP	0.62	0.03
Sherisha Rooftop Solar SPV Four Private Limited	0.61	0.03
Nagaland	0.59	0.02
VEDANTA LTD	0.56	0.02
JUNIPER GREEN COSMIC PRIVATE LIMITED	0.54	0.02
GUJARAT INDUSTRIES POWER COMPANY LTD	0.54	0.02
NTPC Jhanor-Gandhar Gas Power plant	0.53	0.02
Kopili HEP	0.52	0.02
Koteshwar hps	0.50	0.02
DULHASTI Hydro power	0.50	0.02
Lanco Kondapalli Power Ltd	0.49	0.02
Renew Surya Vihaan Private Limited	0.47	0.02
NTPC ANTA SOLAR PV STATION	0.46	0.02
Simhadari Floating Solar	0.45	0.02
Mizoram	0.44	0.02
Agartala Gas Turbine Power Plant	0.44	0.02
TRN Energy	0.43	0.02
DHAULIGANGA HEP	0.41	0.02
Kishanganga HEP	0.37	0.02
SJVN	0.36	0.01
Singrauli Solar	0.35	0.01
Pong Hydro Power	0.32	0.01
Dehar Hydro	0.32	0.01
JPNIGRIE (JNSTPP)	0.31	0.01
RANGIT	0.31	0.01
ILFS	0.30	0.01
Sainj Hydro Power	0.30	0.01
KSK mahanadi	0.28	0.01
Gujarat State Electricity Corporation Limited phase-2	0.28	0.01
Gujarat State Electricity Corporation Limited, Radhanesda	0.27	0.01
Kameng HEP	0.27	0.01
Adani Solar Energy Four Private Limited	0.26	0.01
Chamera 1	0.25	0.01
BHAKRA	0.24	0.01
NAPTHA JHAKRI HEP	0.23	0.01

Doyang HEP	0.23	0.01
DIKCHU	0.22	0.01
Gandhar Solar	0.21	0.01
Singoli Bhatwari HEP	0.20	0.01
Auraiya Solar	0.17	0.01
NFL	0.16	0.01
Chamera 3	0.16	0.01
NTPC Kawas Gas Plant	0.14	0.01
AD hydro power	0.14	0.01
PALATANA	0.14	0.01
Chuzachen	0.13	0.01
Talcher Solar	0.13	0.01
Dadri Solar	0.13	0.01
SIMHAPURI(SEPL)	0.12	0.005
Serentica Renewables India 1 Private Limited- Koppal (Infir)	0.12	0.005
Kopili-2 HEP	0.11	0.005
Nepal	0.11	0.004
Powergrid HVDC	0.10	0.004
Unchahar Solar	0.09	0.004
Rongnichu Hydro Electric Project	0.07	0.003
Pare_HEP	0.07	0.003
Rampur Hydro	0.07	0.003
TANAKPUR	0.07	0.003
Bairasuil Hydro Power	0.05	0.002
Lanco Budhil	0.05	0.002
Sorang HEP	0.05	0.002
Power grid HVDC	0.04	0.002
Parbati 3	0.04	0.002
Reliance Industries Limited Jamnagar	0.04	0.002
Loktak HEP	0.02	0.001
Jorethang Loop Hydro Electric Project	0.02	0.001
Tashiding Hydro Power	0.01	0.001
VENA ENERGY VIDYUTH PRIVATE LIMITED_SOLAR_INFIRM	0.004	0.0002
SINGRAULI HYDRO	0.002	0.0001
RENEW SURYA OJAS PVT LIMITED	0.0001	0.00001
TOTAL	2403.87	100.00
Volume Imported by top 5 Regional Entities	441.00	18.35

Source: NLDC

Table-36: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES AND THROUGH TRADERS (BILATERAL), NOVEMBER 2024

Sr. No	Details of REC Transactions	Through Power Exchange			Bilateral through Traders
		IEX	PXIL	HPX	
1	Volume of Buy Bid	4316723	2891529	749687	-
2	Volume of Sell Bid	2814743	2525363	2008788	-
3	Ratio of Buy Bid to Sell Bid Volume	1.53	1.14	0.37	-
4	Traded Volume (MWh)	545960	300237	8788	561438
5	Weighted Average Price (₹/MWh)	150	162	180	140

Source: Power Exchanges & Grid-India REC Report

Note: 1 REC = 1 MWh

Under the CERC REC Regulations 2022, the categorization of RECs has been dispensed with and exchange of RECs through trading licensees has also been allowed

Table-37(a): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, NOVEMBER 2024

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	1.10	0.00	-1.10	9.69	-
2	Bhutan	0.00	14.02	14.02	-	2.49
	Total	1.10	14.02	12.92	-	-

Source: IEX

* Net indicates difference of volume purchased and sold by the respective neighbouring country

Note: No Cross Border transactions were recorded in DAM at PXIL and HPX

Table-37(b): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH REAL TIME MARKET AT IEX, NOVEMBER 2024

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	198.39	1.42	-196.97	3.05	3.29
2	Bhutan	0.00	10.14	10.14	-	3.01
	Total	198.39	11.56	-186.83	-	-

Source: IEX

* Net indicates difference of volume purchased and sold by the respective neighbouring country

Note: No Cross Border transactions were recorded in RTM at PXIL and HPX



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