

Monthly Report on Short-term Transactions of Electricity in India

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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	Pasauli High 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_BHUJ	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	Sprng 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
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 by the Distribution Licensees 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 **February 2024** is presented in the following sections.

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

2.1. During February 2024, total electricity generation, excluding generation from renewable and captive power plants in India, was 118322.61 MU (Table-1). Of the total electricity generation, 14.37% was transacted through short-term and DSM, comprising of 6.35% through bilateral¹ (through Traders and Term-Ahead contracts on power exchanges, and directly between distribution companies), followed by 6.21% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)}, and 1.81% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (17001.49 MU), 44.21% was transacted through bilateral (i.e. through Traders, Term-Ahead contracts on power exchanges and directly between companies), followed by 43.22% through power exchanges {DAM

¹ With change in the regime on implementation of GNA Regulations from 1st October 2023, the volume reported here is not strictly comparable to the volumes in previous months. Some discrepancies were identified by CERC in the data provided by NLDC which prompted further validation. The volume herein is computed after verification with the volumes reported by the Trading Licensees and the Power Exchanges, and are subject to further revision. The Commission has directed NLDC, vide letter dated 05.01.2024, to make necessary provisions to differentiate the type of transactions under GNA and T-GNA at the earliest. In the interim, some of the tables in the monthly reports have been temporarily discontinued.

(including G-DAM & HP-DAM) and RTM}, and 12.56% through DSM (Table-1 & Figure-2). The daily volume of power exchange transactions is shown in Table-26. Figure-4 shows the daily volume trend for power exchange transactions and DSM volume.

2.3. Of the total volume of electricity transacted through power exchanges, 46.53% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 31.74% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) and 21.73% in RTM (Figure-3).

2.4. The share of electricity traded by each trading licensee is given in Table-2 & Figure-5. The volume of electricity transacted by the trading licensees includes bilateral transactions and transactions undertaken through power exchanges. There were 57 trading licensees as of February 2024. Of which, 32 trading licensees were engaged in short-term trading. The top 5 trading licensees, namely PTC India Ltd., NTPC Vidyut Vyapar Nigam Ltd., Adani Enterprises Ltd., Arunachal Pradesh Power Corporation (P) Ltd. and Manikaran Power Ltd., had a share of 83.03% 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, HHI between 0.15 and 0.25 indicates moderate concentration, and 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 0.1836 for the month of February 2024, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX, PXIL and HPX was 4741.75 MU, 3.72 MU and 0.64 MU, respectively. The volume of total buy bids and sell bids was 7755.44 MU and 8770.26 MU, respectively in IEX, 45.74 MU and 72.36 MU, respectively in PXIL, while the same was 5.21 MU and 67.09 MU, respectively in HPX.

2.7. Of the total volume of electricity transacted in the DAM of IEX, the volume purchased by the neighbouring countries of India was 617.25 MU, while no volume was sold by the neighbouring countries, under the Cross Border Trade of electricity through power

exchange (Table-33(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 was 262.84 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 1245.86 MU and 468.61 MU, respectively, in IEX. No bids were received in PXIL and HPX.

2.9. No volume was traded in the HP-DAM of IEX, PXIL or HPX. The volume of total sell bids was 1770.54 MU, while no buy bids were received in IEX. No bids were received in PXIL and HPX.

2.10. The volume of electricity transacted in the RTM of IEX was 2339.92 MU, while no electricity was transacted in the RTM of PXIL and HPX. The volume of total buy bids and sell bids was 3878.90 MU and 4707.86 MU, respectively in IEX. No buy bids were received in both PXIL and HPX, while the volume of total sell bids in PXIL and HPX was 7.02 MU and 4.04 MU, respectively. 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 0.53 MU, while the volume purchased was 17.73 MU, under the Cross Border Trade of electricity through power exchange (Table-33(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 1487.39 MU, 920.83 MU and 832.19 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 32.02 MU, 2.23 MU and 74.29 MU, respectively (Table-12, Table-13 & Table-14).

2.13. The volume of electricity transacted in the High Price Term Ahead Market (HP-TAM) of PXIL was 67.91 MU (Table-16). No volume was traded in the HP-TAM of IEX and HPX (Table-15 & 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 ₹3.49/kWh,

₹8.50/kWh and ₹7.22/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 ₹7.36/kWh and ₹6.79/kWh, respectively. No electricity was transacted through traders during 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 ₹2.09/kWh, ₹10.00/kWh and ₹5.00/kWh, respectively. These prices in the DAM of PXIL were ₹5.56/kWh, ₹10.00/kWh and ₹9.70/kWh respectively. The minimum, maximum and weighted average prices for the electricity transacted in the DAM of HPX were ₹10.00/kWh, ₹10.00/kWh and ₹10.00/kWh respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹2.50/kWh, ₹10.00/kWh and ₹5.05/kWh, respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.99/kWh, ₹10.00/kWh and ₹4.51/kWh, respectively. (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹6.98/kWh, ₹7.95/kWh and ₹8.15/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 ₹6.40/kWh, ₹6.12/kWh and ₹5.73/kWh, respectively (Table-12, Table-13 and Table-14). The weighted average price of electricity transacted in the HP-TAM of PXIL was ₹11.99/kWh (Table-16). No electricity was transacted in G-DAM and RTM of PXIL & HPX, in HP-TAM of IEX & HPX and in HP-DAM of all power exchanges.

3.3. **DSM Charges:** The minimum, maximum and average charge under DSM was ₹2.09/kWh, ₹10.00/kWh and ₹5.22/kWh, respectively (Table-29).

3.4. The comparison of weighted average prices of electricity transacted through trading licensees and power exchanges is shown in Figure-6. The daily prices of electricity transacted through various segments at power exchanges and their comparison are shown in Table-27(a), (b), (c) & (d) and Figure-7. The daily volume and charges under DSM are shown in Table-29.

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 upto 7 paise/kWh. The weighted average trading

margin charged by the trading licensees for bilateral transactions during the month was ₹0.027/kWh.

5. Volume of Short-term Transactions of Electricity (Regional Entity²-Wise)

5.1. Of the total DAM transactions at power exchanges, the top 5 regional entities/states sold 39.18% of the volume, and these were Uttar Pradesh, Adani Power Limited - Raipur TPP, Rajasthan, Essar Power and DB Power (Table-18). The top 5 regional entities/states purchased 52.84% of the volume, and these were Telangana, Gujarat, Punjab, Jammu & Kashmir and Druk Green Power Corporation Ltd., Bhutan (Table-19).

5.2. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 48.14% of the volume, and these were Adani Renewable Energy Holding Four Ltd., Andhra Pradesh, Adani Wind Energy, Madhya Pradesh and Amplus Ages Pvt. Ltd. (Table-20). The top 5 regional entities/states purchased 58.88% of the volume, and these were Arcelor Mittal Nippon Steel Hazira, Punjab, Tamil Nadu, Maharashtra and Madhya Pradesh (Table-21).

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

5.4. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 46.65% of the volume, and these were Rajasthan, Bihar, Odisha, Uttar Pradesh and NTPC Stations (Eastern Region) (Table-22). The top 5 regional entities/states purchased 53.10% of the volume, and these were Punjab, Kerala, Uttar Pradesh, Telangana and Tamil Nadu (Table-23).

5.5. The total volume of net transactions through power exchanges (Regional entity-wise), is shown in Table-24 & 28. The top 5 electricity selling regional entities/states of power exchange transactions were Rajasthan, Uttar Pradesh, Bihar, Odisha and Adani Power Limited - Raipur TPP. The top 5 electricity purchasing regional entities/states of power exchange transactions were Punjab, Telangana, Gujarat, Jammu & Kashmir and Tamil Nadu.

5.6. Of the total under-drawal/ over-injection volume under DSM in February 2024, the top 5 regional entities/states accounted for 22.43% of the volume, and these were Rajasthan,

² 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.

Uttar Pradesh, Gujarat, Madhya Pradesh and Maharashtra (Table-30). The top 5 regional entities/states under DSM accounted for 20.23% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Northern Region), NTPC Stations (Western Region), NTPC Stations (Eastern Region), Adani Hybrid Energy Jaisalmer One Limited (Solar) and NTPC Stations (Southern Region) (Table-31).

6. Congestion³ 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 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”⁴.

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 February 2024, congestion was experienced in DAM of IEX only.

6.3. The volume of electricity that could not be cleared due to congestion in DAM of IEX was 0.01% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.54% in DAM of IEX during the month. (Table-25).

³ “Congestion” means a situation where the demand for transmission capacity exceeds the available transfer capability

⁴ “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. 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 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.

7.4. The details of REC transactions for the month of February 2024 are shown in Table-32. The market clearing volume of RECs transacted on IEX, PXIL and HPX was 614270, 261208 and 285, respectively. The weighted average market clearing price of these RECs was ₹348/MWh in IEX, ₹360/MWh in PXIL and ₹360/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 0.05, 0.03 and 0.0003 in IEX, PXIL and HPX, respectively.

7.6. The volume of RECs transacted through Trading Licensees in February 2024 was 595355. The weighted average trade price for the RECs transacted through traders was ₹354/MWh.

8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 14.37%.
- b) Of the total short-term transactions and DSM volume (17001.49 MU), 44.21% was transacted through bilateral (i.e. through Traders, Term-Ahead contracts on power exchanges and directly between companies), followed by 43.22% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, and 12.56% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 46.53% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 31.74% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) and 21.73% in RTM.
- d) The top 5 trading licensees had a share of 83.03% 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 0.1836, indicating moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹7.22/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX, PXIL and HPX was ₹5.00/kWh, ₹9.70/kWh and ₹10.00/kWh. The weighted average price of electricity transacted in G-DAM of IEX was ₹5.05/kWh, while no electricity was transacted in G-DAM of PXIL and HPX. No volume was traded in HP-DAM. The weighted average price of electricity transacted in RTM of IEX was ₹4.51/kWh, while no electricity was transacted in RTM of PXIL and HPX.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹6.98/kWh, ₹7.95/kWh and ₹8.15/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX, PXIL and HPX was ₹6.40/kWh, ₹6.12/kWh and ₹5.73/kWh, respectively. The weighted average price of electricity transacted in HP-TAM of PXIL was ₹11.99/kWh, while no volume was traded in HP-TAM of IEX and HPX.

- i) The average charge under DSM was ₹5.22/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.027/kWh.
- k) The top 5 electricity selling regional entities/states of power exchange transactions were Rajasthan, Uttar Pradesh, Bihar, Odisha and Adani Power Limited - Raipur TPP. The top 5 electricity purchasing regional entities/states of power exchange transactions were Punjab, Telangana, Gujarat, Jammu & Kashmir and Tamil Nadu.
- l) The top 5 under-drawing/ over-injecting regional entities/states under DSM were Rajasthan, Uttar Pradesh, Gujarat, Madhya Pradesh and Maharashtra. The top 5 over-drawing/ under-injecting regional entities/states under DSM were NTPC Stations (Northern Region), NTPC Stations (Western Region), NTPC Stations (Eastern Region), Adani Hybrid Energy Jaisalmer One Limited (Solar) and NTPC Stations (Southern Region).
- m) During the month of February 2024, congestion was experienced in DAM of IEX only. The volume of electricity that could not be cleared due to congestion in DAM of IEX was 0.01% of the unconstrained cleared volume.
- n) The market clearing volume of RECs transacted on IEX, PXIL and HPX was 614270, 261208 and 285, respectively. The weighted average market clearing price of these RECs was ₹348/MWh in IEX, ₹360/MWh in PXIL and ₹360/MWh in HPX. The volume of RECs transacted through Trading Licensees in February 2024 was 595355. The weighted average trade price for the RECs transacted through traders was ₹354/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), FEBRUARY 2024				
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
A	Short-term transactions			
1	Bilateral*	7516.89	44.21	6.35
2	Through Power Exchanges	7348.86	43.22	6.21
	(i) IEX			
	(a) DAM	4741.75	27.89	4.01
	(b) RTM	2339.92	13.76	1.98
	(c) GDAM	262.84	1.55	0.22
	(d) HP-DAM	0.00	0.00	0.00
	(ii) PXIL			
	(a) DAM	3.72	0.02	0.003
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.64	0.004	0.001
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
B	Through DSM	2135.74	12.56	1.81
Total Short-term transactions and DSM		17001.49	-	14.37
Total Generation		118322.61	-	-

Source: NLDC

Figure-1: Volume of various kinds of Electricity Transactions in Total Electricity Generation, February 2024

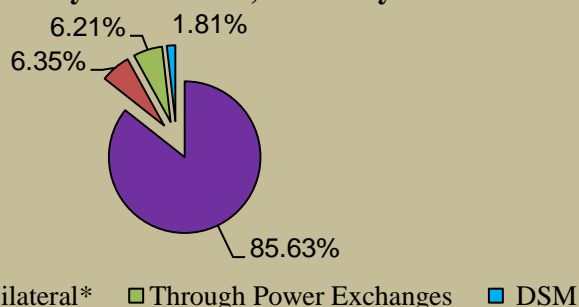
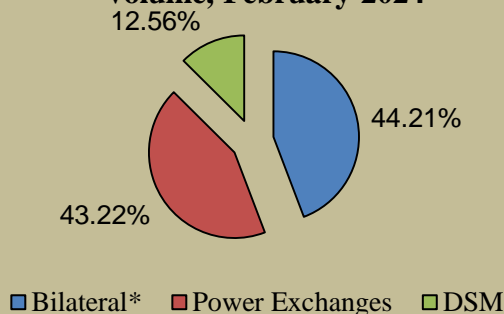


Figure-2: Volume of Short-term Transactions of Electricity and DSM Volume, February 2024



* With change in the regime on implementation of GNA Regulations from 1st October 2023, the volume reported here is not strictly comparable to the volumes in previous months. Some discrepancies were identified by CERC in the data provided by NLDC which prompted further validation. The volume herein is computed after verification with the volumes reported by the Trading Licensees and the Power Exchanges, and are subject to further revision. The Commission has directed NLDC, vide letter dated 05.01.2024, to make necessary provisions to differentiate the type of transactions under GNA and T-GNA at the earliest.

Figure-3: Volume transacted in different markets segments on Power Exchanges, February 2024

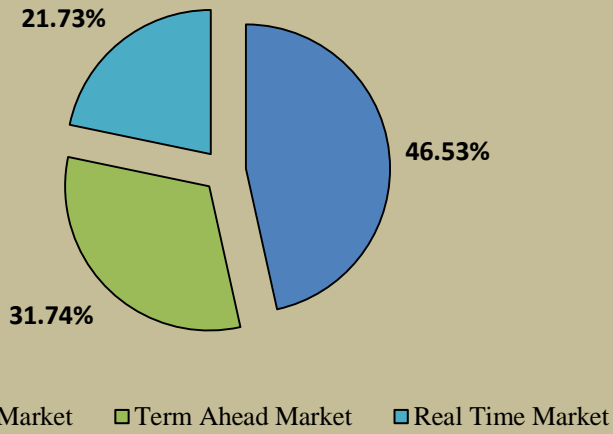


Figure-4: Volume of Transactions on Power Exchange and DSM Volume, February 2024 (Day-wise)

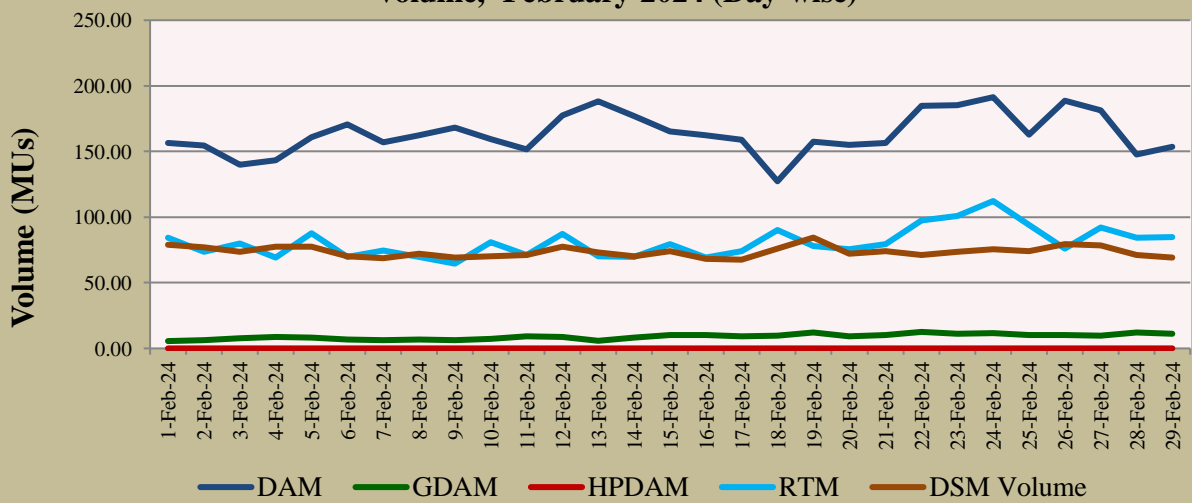


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, FEBRUARY 2024

Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees
1	PTC India Ltd.	32.35
2	NTPC Vidyut Vyapar Nigam Ltd.	20.08
3	Adani Enterprises Ltd.	13.03
4	Arunachal Pradesh Power Corporation (P) Ltd	11.80
5	Manikaran Power Ltd.	5.76
6	Tata Power Trading Company (P) Ltd.	5.31
7	GMR Energy Trading Ltd.	2.43
8	JSW Power Trading Company Ltd	1.82
9	Gita Power & Infrastructure Private Limited	1.78
10	Ambitious Power Trading Company Ltd.	1.23
11	RPG Power Trading Company Ltd.	0.98
12	Instinct Infra & Power Ltd.	0.74
13	Shubheksha Advisors Pvt. Ltd.	0.51
14	Kreate Energy (I) Pvt. Ltd.	0.46
15	Kundan International Pvt. Ltd.	0.32
16	Saranyu Power Trading Private Limited	0.20
17	Adarsh Stainless Pvt. Ltd.	0.19
18	Energedge Power Trading Pvt. Ltd.	0.14
19	Statkraft Markets Pvt. Ltd.	0.12
20	Ideal Energy Solution Pvt. Ltd.	0.12
21	NLC India Ltd.	0.11
22	Greenko Energies Pvt Ltd	0.10
23	Instant Ventures Pvt. Ltd.	0.10
24	Powerfull Energy Trading Pvt. Ltd.	0.08
25	SJVN Ltd.	0.07
26	ReNew Energy Markets Private Limited	0.06
27	Abja Power Private Limited	0.03
28	Saini Power Transactor	0.03
29	Shree Cement Ltd.	0.02
30	Customized Energy Solutions India (P) Ltd.	0.02
31	Phillip Commodities India (P) Ltd.	0.01
32	Altilium Energie Private Limited	0.001
TOTAL		100.00%
Top 5 trading licensees		83.03%
Herfindahl-Hirschman Index		0.1836

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

Note 2: Volume of electricity transacted by Global Energy Ltd. is not included.

Source: Information submitted by trading licensees

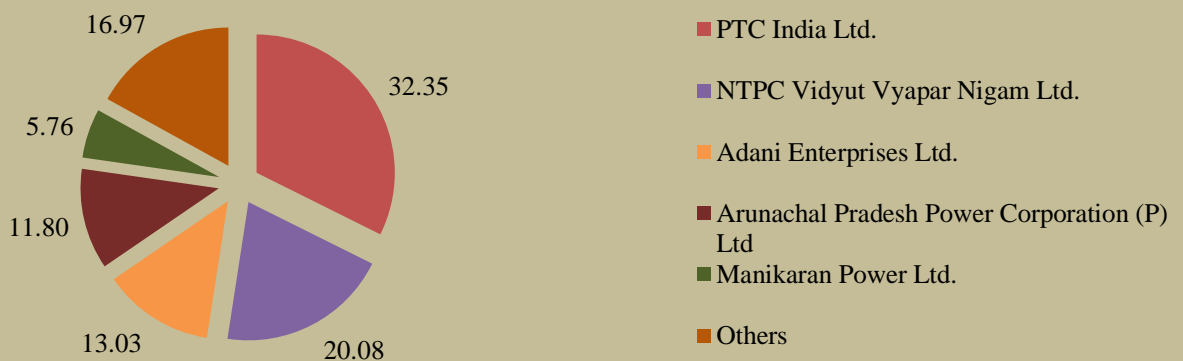
Figure 5: Percentage Share of Electricity Transacted by Trading Licensees, February 2024

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

Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	3.49
2	Maximum	8.50
3	Weighted Average	7.22

Source: Information submitted by trading licensees

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

Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	7.36
2	PEAK	-
3	OFF PEAK	6.79

Source: Information submitted by trading licensees

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

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	2.09	5.56	10.00
2	Maximum	10.00	10.00	10.00
3	Weighted Average	5.00	9.70	10.00

Source: IEX, PXIL and HPX

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

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	2.50	-	-
2	Maximum	10.00	-	-
3	Weighted Average	5.05	-	-

Source: IEX, PXIL and HPX

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

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.99	-	-
2	Maximum	10.00	-	-
3	Weighted Average	4.51	-	-

Source: IEX, PXIL and HPX

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

Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	1.00	8.59
2	Day Ahead Contingency Contracts	116.84	7.37
3	Daily Contracts	15.45	9.94
4	Monthly Contracts	550.87	6.44
5	Any Day Single Sided Contracts	803.23	7.24
	Total	1487.39	6.98

Source: IEX

Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, FEBRUARY 2024

Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	4.01	8.78
2	Day Ahead Contingency Contracts	254.97	7.19
3	Daily Contracts	227.89	9.23
4	Monthly Contracts	110.22	7.00
5	Any Day Single Sided Contracts	323.74	7.95
	Total	920.83	7.95

Source: PXIL

Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, FEBRUARY 2024			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	1.30	8.93
2	Day Ahead Contingency Contracts	215.66	8.94
3	Daily Contracts	75.33	8.96
4	Monthly Contracts	275.46	6.45
5	Any Day Single Sided Contracts	264.45	9.05
	Total	832.19	8.15

Source: HPX

Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, FEBRUARY 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Daily Contracts	14.72	6.46
2	Any Day Single Sided Contracts	17.29	6.34
	Total	32.02	6.40

Source: IEX

Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, FEBRUARY 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	2.23	6.12
	Total	2.23	6.12

Source: PXIL

Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, FEBRUARY 2024			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	48.54	5.00
2	Any Day Single Sided Contracts	25.75	7.11
	Total	74.29	5.73

Source: HPX

Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF IEX, FEBRUARY 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

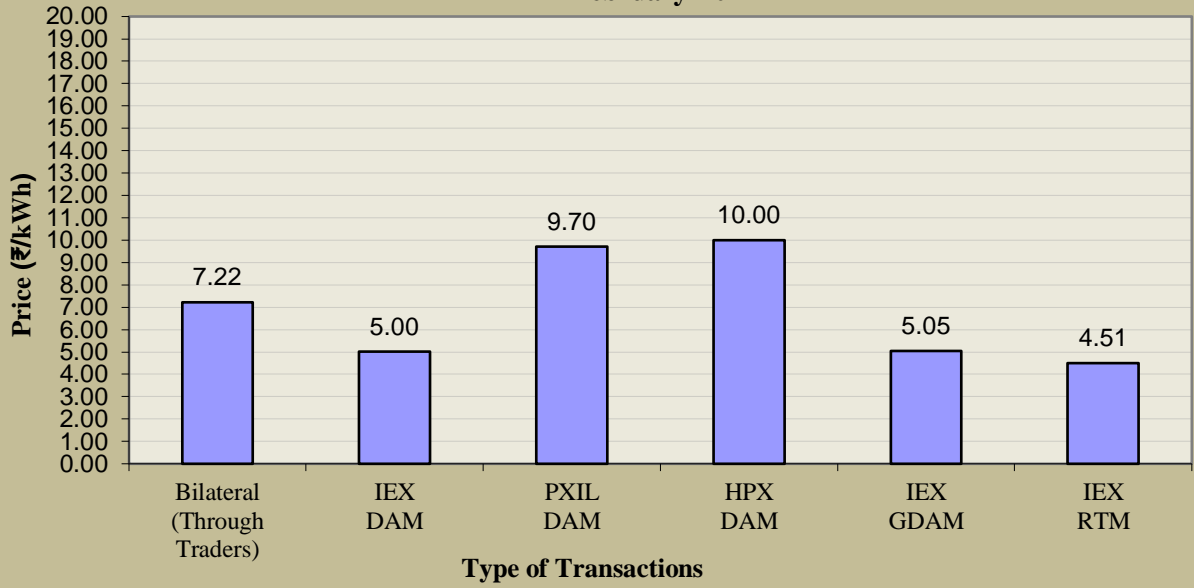
Table-16: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF PXIL, FEBRUARY 2024			
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	67.91	11.99
	Total	67.91	11.99

Source: PXIL

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

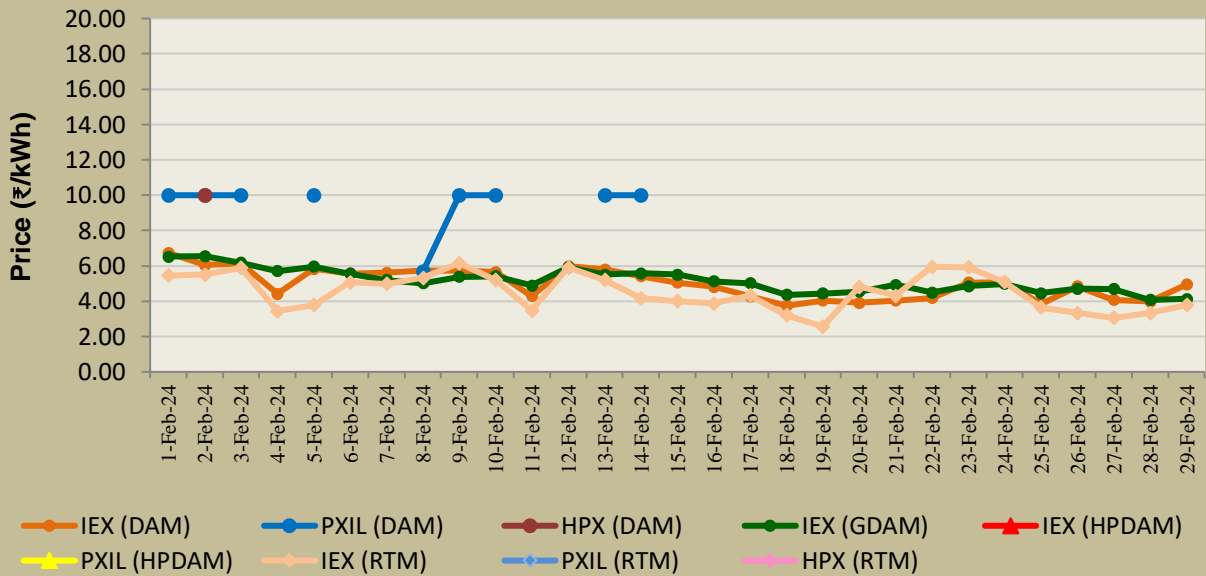
Source: HPX

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



Note: No electricity was transacted in GDAM and RTM of PXIL & HPX, and in HP-DAM of all Power Exchanges during February 2024

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



Note: No electricity was transacted in GDAM and RTM of PXIL & HPX, and in HP-DAM of all Power Exchanges during February 2024

Table-18: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2024

Name of the Entity	Volume of Sale (MUs)	% of Volume
UTTAR PRADESH	740.36	15.60
ARTPP	321.90	6.78
RAJASTHAN	297.24	6.26
ESSAR POWER	265.18	5.59
DB POWER	234.92	4.95
JINDAL STAGE-II	224.95	4.74
ODISHA	218.11	4.60
BIHAR	192.04	4.05
RAIGARH_ADANI	182.31	3.84
GUJARAT	175.25	3.69
TELANGANA	161.05	3.39
JITPL	127.93	2.70
DELHI	126.96	2.68
DCPP	119.78	2.52
JINDAL POWER	101.78	2.14
WEST BENGAL	97.06	2.05
CHHATTISGARH	96.64	2.04
MP	80.13	1.69
NPGC	75.28	1.59
ACBIL	60.90	1.28
JAYPEE NIGRIE	59.80	1.26
SEBPCORP	54.74	1.15
TAMIL NADU	50.25	1.06
MB POWER	45.61	0.96
HIMACHAL PRADESH	44.08	0.93
MAHARASHTRA	42.37	0.89
ANDHRA PRADESH	36.83	0.78
RENEW_SR_SLR	34.64	0.73
PONDICHERRY	33.29	0.70
IBEUL	30.17	0.64
ADANI_WIND	29.38	0.62
NTPC STATIONS-ER	27.49	0.58
SHREE CEMENT	23.88	0.50
ASEJTL_SLR	21.98	0.46
DHARIWAL POWER	19.72	0.42
DVC	17.88	0.38
RENEW_SPRATAP	17.11	0.36
RKM POWER	16.12	0.34
JHABUA POWER_MP	15.14	0.32
KARCHAM WANGTOO	14.93	0.31
HARYANA	14.84	0.31
NTPC STATIONS-SR	13.81	0.29
CHANDIGARH	13.77	0.29
AMP_GREEN6	12.48	0.26
EMCO	12.33	0.26
ONEVOLT	11.65	0.25
RENEW_SAAYAN	11.27	0.24
SKS POWER	11.20	0.24
SIMHAPURI	10.88	0.23
DGEN MEGA POWER	10.32	0.22
AD HYDRO	10.19	0.21
RENEW_SVIHAAN	8.95	0.19
GRIAN	6.63	0.14
MARUTI COAL	5.18	0.11

REENERGY5_WIND	4.81	0.10
SAINJ HEP	4.76	0.10
BALCO	4.55	0.10
ADEPT	4.16	0.09
SORANG HEP	4.14	0.09
OSTRO Hiriyur	4.12	0.09
NAGALAND	3.93	0.08
RENEW_ROSHNI	3.09	0.07
J & K	2.87	0.06
MEGHALAYA	2.35	0.05
TRN ENERGY	2.35	0.05
SINGOLI BHATWARI HEP	2.11	0.04
KERALA	2.09	0.04
NTPC STATIONS-NR	1.75	0.04
RENEW_SOJAS	1.65	0.03
MANIPUR	1.61	0.03
IL&FS	1.46	0.03
UTTARAKHAND	1.16	0.02
TRIPURA	0.78	0.02
GOA	0.60	0.01
NEEPCO STATIONS	0.60	0.01
NTPC STATIONS-WR	0.59	0.01
LANCO BUDHIL	0.46	0.01
ADANI_4RE	0.37	0.01
NTPC STATIONS-NER	0.34	0.01
COASTGEN	0.34	0.01
GMR KAMALANGA	0.25	0.01
ONGC PALATANA	0.06	0.001
KBUNL	0.03	0.001
IGSTPS	0.02	0.0005
ADHUNIK POWER LTD	0.01	0.0002
NLC	0.01	0.0002
Total	4746.10	100.00
Volume sold by top 5 Regional Entities	1859.60	39.18

Table-19: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2024		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
TELANGANA	626.44	13.20
GUJARAT	618.62	13.03
PUNJAB	503.34	10.61
J & K	421.16	8.87
DGPCL Bhutan	338.24	7.13
TAMIL NADU	308.03	6.49
NEPAL(NVVN)	244.17	5.14
UTTAR PRADESH	231.22	4.87
HARYANA	194.14	4.09
ANDHRA PRADESH	174.88	3.68
DD&DNH	151.66	3.20
UTTARAKHAND	148.21	3.12
MAHARASHTRA	121.46	2.56
MP	119.96	2.53
KERALA	113.72	2.40
KARNATAKA	93.71	1.97
GOA	40.50	0.85
NEP	34.83	0.73
DELHI	32.85	0.69
ODISHA	29.82	0.63
RAJASTHAN	28.42	0.60
WEST BENGAL	27.47	0.58
MEGHALAYA	27.02	0.57
AMPS Hazira	22.92	0.48
NCR ALLAHABAD	20.25	0.43
HIMACHAL PRADESH	16.76	0.35
ASSAM	12.50	0.26
JHARKHAND	9.38	0.20
CHHATTISGARH	9.13	0.19
CHANDIGARH	6.55	0.14
ARUNACHAL PRADESH	6.40	0.13
BIHAR	4.07	0.09
NAGALAND	3.62	0.08
MANIPUR	1.80	0.04
SIKKIM	1.22	0.03
BALCO	0.99	0.02
IBEUL	0.38	0.01
JHABUA POWER_MP	0.19	0.004
PONDICHERRY	0.08	0.002
TOTAL	4746.10	100.00
Volume purchased by top 5 Regional Entities	2507.80	52.84

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

Name of the Entity	Volume of Sale (MUs)	% of Volume
ADANI_4RE	38.81	14.77
ANDHRA PRADESH	31.45	11.97
ADANI_WIND	23.90	9.09
MP	20.39	7.76
AMPLUS_AGES	11.97	4.56
ASEJTL_SLR	11.43	4.35
CONTINNUM PT	11.17	4.25
OSTRO Hiriyur	11.14	4.24
RENEW_SPRATAP	10.16	3.86
MAHARASHTRA	8.69	3.31
HIMACHAL PRADESH	7.70	2.93
GRIAN	7.23	2.75
AYANA_NPKUNTA	7.09	2.70
UTTAR PRADESH	6.99	2.66
RENEW_SOJAS	6.16	2.34
RENEW_SR_SLR	6.00	2.28
RENEW_ROSHNI	5.86	2.23
RENEW_SVIHAAN	5.17	1.97
RENEW_SAAYAN	3.95	1.50
RAJASTHAN	3.86	1.47
BIHAR	3.66	1.39
REENERGY5_WIND	3.11	1.18
JSW_RENEW_2	2.91	1.11
SINGOLI BHATWARI HEP	2.27	0.86
TELANGANA	2.20	0.84
NTPC STATIONS-SR	1.91	0.73
J & K	1.68	0.64
WEST BENGAL	1.38	0.52
INOX_BHUJ	1.33	0.51
HARYANA	1.27	0.48
SORANG HEP	1.07	0.41
SIKKIM	0.92	0.35
Total	262.84	100.00
Volume sold by top 5 Regional Entities	126.53	48.14

Table-21: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2024		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
AMPS Hazira	49.89	18.98
PUNJAB	30.62	11.65
TAMIL NADU	29.04	11.05
MAHARASHTRA	23.92	9.10
MP	21.29	8.10
CHHATTISGARH	14.38	5.47
KERALA	14.15	5.38
DELHI	13.61	5.18
DVC	12.29	4.68
BALCO	8.46	3.22
JHARKHAND	7.83	2.98
RAJASTHAN	7.12	2.71
KARNATAKA	7.10	2.70
UTTAR PRADESH	6.94	2.64
HARYANA	4.88	1.85
GUJARAT	4.04	1.54
ANDHRA PRADESH	3.66	1.39
NCR ALLAHABAD	3.25	1.24
TELANGANA	0.21	0.08
ODISHA	0.18	0.07
TOTAL	262.84	100.00
Volume purchased by top 5 Regional Entities	154.76	58.88

Table-22: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2024

Name of the Entity	Volume of Sale (MUs)	% of Volume
RAJASTHAN	307.22	13.13
BIHAR	281.82	12.04
ODISHA	190.14	8.13
UTTAR PRADESH	176.61	7.55
NTPC STATIONS-ER	135.71	5.80
MP	111.39	4.76
WEST BENGAL	91.05	3.89
CHHATTISGARH	84.49	3.61
DELHI	81.22	3.47
JHARKHAND	79.43	3.39
TELANGANA	74.68	3.19
NPGC	72.56	3.10
MAHARASHTRA	53.61	2.29
ANDHRA PRADESH	41.97	1.79
NTPC STATIONS-NR	41.38	1.77
NTPC STATIONS-WR	32.33	1.38
IBEUL	25.21	1.08
J & K	24.76	1.06
TAMIL NADU	22.36	0.96
TRN ENERGY	20.43	0.87
UTTARAKHAND	19.95	0.85
SEMBCORP	19.50	0.83
GUJARAT	15.48	0.66
JINDAL STAGE-II	15.00	0.64
HARYANA	14.89	0.64
PONDICHERRY	14.34	0.61
DVC	13.50	0.58
TRIPURA	12.41	0.53
JHABUA POWER_MP	12.17	0.52
MTPS	11.81	0.50
RKM POWER	11.69	0.50
NTPC STATIONS-SR	10.62	0.45
ASSAM	10.12	0.43
HIMACHAL PRADESH	9.97	0.43
KAPS 3&4 (INFIRM)	9.80	0.42
BALCO	9.65	0.41
ARTPP	9.29	0.40
NEEPCO STATIONS	8.04	0.34
ADANI_4RE	7.13	0.30
RENEW_SAAYAN	7.11	0.30
SIMHAPURI	6.90	0.29
ACBIL	6.74	0.29
SASAN UMPP	6.20	0.26
SIKKIM	6.01	0.26
AMPLUS_AGES	5.86	0.25
ONEVOLT	5.70	0.24
EMCO	5.67	0.24
AMP_GREEN6	5.55	0.24
TESPL	5.27	0.23
NREL_DAYAPAR (W)	5.16	0.22
ASEJTL_SLR	5.16	0.22
JINDAL POWER	5.06	0.22
ADANI_WIND	5.05	0.22
KERALA	5.01	0.21

RENEW_SOJAS	4.92	0.21
NLC	4.29	0.18
MANIPUR	4.13	0.18
ESSAR POWER	3.84	0.16
PUNJAB	3.82	0.16
GRIAN	3.77	0.16
TPSL	3.65	0.16
RENEW_SR_SLR	3.61	0.15
MB POWER	3.05	0.13
RENEW_ROSHNI	2.94	0.13
RAIGARH_ADANI	2.86	0.12
GOA	2.80	0.12
RENEW_SPRATAP	2.78	0.12
MARUTI COAL	2.20	0.09
ONGC PALATANA	1.81	0.08
DGEN MEGA POWER	1.64	0.07
RENEW_ROSHNI FATEHGARH	1.52	0.06
DCPP	1.47	0.06
SINGOLI BHATWARI HEP	1.45	0.06
IGSTPS	1.41	0.06
RENEW_SVIHAAN	1.38	0.06
SKS POWER	1.30	0.06
DD&DNH	1.12	0.05
COASTGEN	0.98	0.04
OSTRO Hiriur	0.90	0.04
NTPC STATIONS-NER	0.76	0.03
NAGALAND	0.68	0.03
SHREE CEMENT	0.60	0.03
ADHUNIK POWER LTD	0.54	0.02
AYANA_NPKUNTA	0.53	0.02
NEPAL(NVVN)	0.53	0.02
SORANG HEP	0.37	0.02
DB POWER	0.32	0.01
JAYPEE NIGRIE	0.29	0.01
CHANDIGARH	0.28	0.01
KARCHAM WANGTOO	0.27	0.01
MEGHALAYA	0.21	0.01
IL&FS	0.21	0.01
AD HYDRO	0.18	0.01
KARNATAKA	0.15	0.01
TASHIDENG HEP	0.05	0.00
SAINJ HEP	0.05	0.00
ARUNACHAL PRADESH	0.05	0.00
DOYANG HEP	0.04	0.002
RENERGY5_WIND	0.02	0.001
GMR KAMALANGA	0.01	0.0004
LANCO BUDHIL	0.01	0.0002
PARE HEP	0.001	0.00002
Total	2339.92	100.00
Volume sold by top 5 Regional Entities	1091.50	46.65

Table-23: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2024

Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	541.75	23.15
KERALA	204.07	8.72
UTTAR PRADESH	174.55	7.46
TELANGANA	172.79	7.38
TAMIL NADU	149.35	6.38
ANDHRA PRADESH	143.63	6.14
J & K	116.40	4.97
HARYANA	103.65	4.43
MAHARASHTRA	95.44	4.08
GUJARAT	89.53	3.83
WEST BENGAL	71.18	3.04
KARNATAKA	66.80	2.85
MP	50.08	2.14
ASSAM	46.34	1.98
DELHI	33.42	1.43
RAJASTHAN	32.05	1.37
ODISHA	30.75	1.31
HIMACHAL PRADESH	30.70	1.31
UTTARAKHAND	21.64	0.92
DVC	18.66	0.80
SKS POWER	18.20	0.78
AMPS Hazira	13.94	0.60
DGPCL Bhutan	13.91	0.59
DD&DNH	13.71	0.59
CHHATTISGARH	12.52	0.54
MEGHALAYA	9.94	0.42
SIMHAPURI	9.11	0.39
ARUNACHAL PRADESH	7.99	0.34
MANIPUR	6.28	0.27
RAIGARH_ADANI	4.25	0.18
JHABUA POWER_MP	3.98	0.17
JHARKHAND	3.67	0.16
BALCO	3.51	0.15
GOA	3.51	0.15
NEPAL(NVVN)	3.34	0.14
MB POWER	2.46	0.11
NCR ALLAHABAD	2.19	0.09
ESSAR POWER	1.84	0.08
DCPP	1.62	0.07
BIHAR	1.52	0.06
NTPC STATIONS-WR	1.50	0.06
DHARIWAL POWER	1.37	0.06
IBEUL	1.15	0.05
RGPPL_IR	0.97	0.04
ARTPP	0.94	0.04
CHANDIGARH	0.78	0.03
TRIPURA	0.57	0.02
NAGALAND	0.48	0.02
NEP	0.48	0.02

JINDAL POWER	0.36	0.02
MARUTI COAL	0.34	0.01
SIKKIM	0.33	0.01
ACBIL	0.28	0.01
PONDICHERRY	0.05	0.002
TOTAL	2339.92	100.00
Volume purchased by top 5 Regional Entities	1242.52	53.10

Table-24: TOTAL VOLUME OF NET TRANSACTIONS THROUGH POWER EXCHANGES (REGIONAL ENTITY-WISE), FEBRUARY 2024

S. No.	Name of the Entity	Total volume of net transactions through Power Exchanges*
1	PUNJAB	1071.89
2	TELANGANA	561.51
3	GUJARAT	521.45
4	J & K	508.25
5	TAMIL NADU	413.81
6	DGPCL Bhutan	352.15
7	KERALA	324.83
8	HARYANA	271.67
9	NEPAL(NVVN)	246.99
10	ANDHRA PRADESH	211.91
11	KARNATAKA	167.46
12	DD&DNH	164.25
13	UTTARAKHAND	148.74
14	MAHARASHTRA	136.14
15	AMPS Hazira	86.75
16	ASSAM	48.72
17	GOA	40.62
18	NEP	35.31
19	MEGHALAYA	34.40
20	NCR ALLAHABAD	25.69
21	ARUNACHAL PRADESH	14.34
22	SKS POWER	5.71
23	MANIPUR	2.34
24	RGPPL_IR	0.97
25	PARE HEP	-0.001
26	KBUNL	-0.03
27	DOYANG HEP	-0.04
28	TASHIDENG HEP	-0.05
29	GMR KAMALANGA	-0.26
30	DVC	-0.43
31	LANCO BUDHIL	-0.47
32	NAGALAND	-0.51
33	ADHUNIK POWER LTD	-0.55
34	NTPC STATIONS-NER	-1.11
35	BALCO	-1.25
36	COASTGEN	-1.32
37	INOX_BHUJ	-1.33
38	IGSTPS	-1.43
39	RENEW_ROSHNI FATEHGARH	-1.52
40	IL&FS	-1.67
41	ONGC PALATANA	-1.87
42	JSW_RENEW_2	-2.91
43	TPSL	-3.65
44	ADEPT	-4.16
45	NLC	-4.30
46	SAINJ HEP	-4.81
47	NREL_DAYAPAR (W)	-5.16
48	TESPL	-5.27
49	SIKKIM	-5.39
50	SORANG HEP	-5.57
51	SINGOLI BHATWARI HEP	-5.82
52	SASAN UMPP	-6.20
53	CHANDIGARH	-6.72
54	MARUTI COAL	-7.04
55	AYANA_NPKUNTA	-7.62
56	REENERGY5_WIND	-7.94
57	NEEPCO STATIONS	-8.64
58	SIMHAPURI	-8.67
59	KAPS 3&4 (INFIRM)	-9.80
60	AD HYDRO	-10.37
61	CONTINNUM PT	-11.17
62	MTPS	-11.81

63	RENEW_ROSHNI	-11.89
64	DGEN MEGA POWER	-11.96
65	TRIPURA	-12.62
66	RENEW_SOJAS	-12.73
67	HIMACHAL PRADESH	-14.30
68	KARCHAM WANGTOO	-15.20
69	RENEW_SVIHAAN	-15.50
70	OSTRO Hiriyur	-16.16
71	ONEVOLT	-17.36
72	GRIAN	-17.62
73	AMPLUS_AGES	-17.83
74	EMCO	-18.00
75	AMP_GREEN6	-18.03
76	DHARIWAL POWER	-18.35
77	MP	-20.58
78	RENEW_SAAYAN	-22.33
79	TRN ENERGY	-22.78
80	JHABUA POWER_MP	-23.14
81	SHREE CEMENT	-24.48
82	NTPC STATIONS-SR	-26.34
83	RKM POWER	-27.81
84	RENEW_SPRATAP	-30.04
85	NTPC STATIONS-WR	-31.42
86	ASEJTL_SLR	-38.57
87	NTPC STATIONS-NR	-43.13
88	RENEW_SR_SLR	-44.25
89	MB POWER	-46.19
90	ADANI_4RE	-46.31
91	PONDICHERRY	-47.49
92	IBEUL	-53.86
93	ADANI_WIND	-58.34
94	JHARKHAND	-58.55
95	JAYPEE NIGRIE	-60.08
96	ACBIL	-67.35
97	SEMBCORP	-74.24
98	WEST BENGAL	-90.84
99	JINDAL POWER	-106.48
100	DCPP	-119.62
101	JITPL	-127.93
102	DELHI	-128.30
103	CHHATTISGARH	-145.10
104	NPGC	-147.84
105	NTPC STATIONS-ER	-163.20
106	RAIGARH_ADANI	-180.91
107	DB POWER	-235.24
108	JINDAL STAGE-II	-239.95
109	ESSAR POWER	-267.17
110	ARTPP	-330.25
111	ODISHA	-347.49
112	BIHAR	-471.92
113	UTTAR PRADESH	-511.26
114	RAJASTHAN	-540.73
<i>* Total net includes net of transactions of electricity through various segments on power exchanges</i>		
<i>(-) indicates sale and (+) indicates purchase</i>		

Table-25: DETAILS OF CONGESTION IN POWER EXCHANGES, FEBRUARY 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 (MUs)	4742.28	3.72	0.64	262.84	0.00	0.00	0.00	0.00	0.00	2339.92	0.00	0.00
2	Actual Cleared Volume and hence scheduled (MUs)	4741.75	3.72	0.64	262.84	0.00	0.00	0.00	0.00	0.00	2339.92	0.00	0.00
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.53	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 (MUs)	0.00	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)	0.54%	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	100.00%	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

Source: IEX, PXIL, HPX & NLDC

Table-26: VOLUME OF TRANSACTIONS THROUGH POWER EXCHANGES (DAY-WISE) (MUs), FEBRUARY 2024

Date	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-Feb-24	155.84	0.55	0.00	5.59	0.00	0.00	0.00	0.00	0.00	84.27	0.00	0.00	4102.58
2-Feb-24	153.31	0.50	0.64	6.16	0.00	0.00	0.00	0.00	0.00	73.66	0.00	0.00	4212.04
3-Feb-24	139.71	0.28	0.00	7.81	0.00	0.00	0.00	0.00	0.00	79.72	0.00	0.00	4227.06
4-Feb-24	143.24	0.00	0.00	8.66	0.00	0.00	0.00	0.00	0.00	69.40	0.00	0.00	3991.87
5-Feb-24	160.16	0.72	0.00	8.34	0.00	0.00	0.00	0.00	0.00	87.82	0.00	0.00	4070.34
6-Feb-24	170.89	0.00	0.00	6.78	0.00	0.00	0.00	0.00	0.00	69.75	0.00	0.00	4162.86
7-Feb-24	156.85	0.00	0.00	6.35	0.00	0.00	0.00	0.00	0.00	74.70	0.00	0.00	4147.60
8-Feb-24	162.06	0.26	0.00	6.85	0.00	0.00	0.00	0.00	0.00	69.49	0.00	0.00	4080.15
9-Feb-24	167.78	0.42	0.00	6.39	0.00	0.00	0.00	0.00	0.00	64.59	0.00	0.00	4127.76
10-Feb-24	159.08	0.15	0.00	7.09	0.00	0.00	0.00	0.00	0.00	80.75	0.00	0.00	4069.93
11-Feb-24	151.77	0.00	0.00	9.42	0.00	0.00	0.00	0.00	0.00	71.02	0.00	0.00	3891.45
12-Feb-24	177.34	0.00	0.00	8.51	0.00	0.00	0.00	0.00	0.00	87.42	0.00	0.00	4070.70
13-Feb-24	187.53	0.58	0.00	5.69	0.00	0.00	0.00	0.00	0.00	70.09	0.00	0.00	4179.70
14-Feb-24	176.51	0.26	0.00	8.47	0.00	0.00	0.00	0.00	0.00	69.57	0.00	0.00	4096.72
15-Feb-24	165.49	0.00	0.00	10.39	0.00	0.00	0.00	0.00	0.00	79.49	0.00	0.00	4055.02
16-Feb-24	162.60	0.00	0.00	10.42	0.00	0.00	0.00	0.00	0.00	69.31	0.00	0.00	4044.03
17-Feb-24	158.93	0.00	0.00	9.11	0.00	0.00	0.00	0.00	0.00	74.15	0.00	0.00	4088.13
18-Feb-24	127.30	0.00	0.00	9.83	0.00	0.00	0.00	0.00	0.00	89.95	0.00	0.00	3884.98
19-Feb-24	157.70	0.00	0.00	12.08	0.00	0.00	0.00	0.00	0.00	77.93	0.00	0.00	3881.58
20-Feb-24	155.10	0.00	0.00	9.35	0.00	0.00	0.00	0.00	0.00	75.61	0.00	0.00	4121.04
21-Feb-24	156.65	0.00	0.00	10.33	0.00	0.00	0.00	0.00	0.00	79.26	0.00	0.00	4110.49
22-Feb-24	184.73	0.00	0.00	12.59	0.00	0.00	0.00	0.00	0.00	97.61	0.00	0.00	4158.79
23-Feb-24	185.31	0.00	0.00	10.98	0.00	0.00	0.00	0.00	0.00	100.93	0.00	0.00	4215.73
24-Feb-24	191.37	0.00	0.00	11.70	0.00	0.00	0.00	0.00	0.00	112.29	0.00	0.00	4213.26
25-Feb-24	162.97	0.00	0.00	10.19	0.00	0.00	0.00	0.00	0.00	94.01	0.00	0.00	3997.87
26-Feb-24	188.66	0.00	0.00	10.38	0.00	0.00	0.00	0.00	0.00	76.18	0.00	0.00	4013.69
27-Feb-24	181.36	0.00	0.00	9.86	0.00	0.00	0.00	0.00	0.00	92.13	0.00	0.00	3955.61
28-Feb-24	147.76	0.00	0.00	12.29	0.00	0.00	0.00	0.00	0.00	84.23	0.00	0.00	4036.27
29-Feb-24	153.74	0.00	0.00	11.24	0.00	0.00	0.00	0.00	0.00	84.59	0.00	0.00	4115.36
Total	4741.75	3.72	0.64	262.84	0.00	0.00	0.00	0.00	0.00	2339.92	0.00	0.00	118322.61

Source: NLDC

* 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: With change in the regime on implementation of GNA Regulations from 1st October 2023, the volume reported here is not strictly comparable to the volumes in previous months. Some discrepancies were identified by CERC in the data provided by NLDC which prompted further validation. The volume herein is computed after verification with the volumes reported by the Trading Licensees and the Power Exchanges, and are subject to further revision. The Commission has directed NLDC, vide letter dated 05.01.2024, to make necessary provisions to differentiate the type of transactions under GNA and T-GNA at the earliest. In the interim, the columns for daily volume of bilateral transactions have been omitted from this table.

Table-27(a): PRICE OF DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), FEBRUARY 2024

Market Segment	Day Ahead Market of IEX			Day Ahead Market of PXIL			Day Ahead Market of HPX		
	Minimum ACP	Maximum ACP	WA Price*	Minimum ACP	Maximum ACP	WA Price*	Minimum ACP	Maximum ACP	WA Price*
1-Feb-24	3.01	10.00	6.74	10.00	10.00	10.00	-	-	-
2-Feb-24	2.51	10.00	6.06	10.00	10.00	10.00	10.00	10.00	10.00
3-Feb-24	3.08	10.00	6.12	10.00	10.00	10.00	-	-	-
4-Feb-24	2.10	10.00	4.41	-	-	-	-	-	-
5-Feb-24	2.09	10.00	5.83	10.00	10.00	10.00	-	-	-
6-Feb-24	2.09	10.00	5.56	-	-	-	-	-	-
7-Feb-24	2.76	10.00	5.62	-	-	-	-	-	-
8-Feb-24	2.59	10.00	5.72	5.56	6.12	5.67	-	-	-
9-Feb-24	2.77	10.00	5.73	10.00	10.00	10.00	-	-	-
10-Feb-24	3.08	10.00	5.65	10.00	10.00	10.00	-	-	-
11-Feb-24	2.88	10.00	4.29	-	-	-	-	-	-
12-Feb-24	2.59	10.00	5.97	-	-	-	-	-	-
13-Feb-24	2.70	10.00	5.80	10.00	10.00	10.00	-	-	-
14-Feb-24	2.89	10.00	5.41	10.00	10.00	10.00	-	-	-
15-Feb-24	2.90	10.00	5.05	-	-	-	-	-	-
16-Feb-24	2.52	10.00	4.81	-	-	-	-	-	-
17-Feb-24	2.84	9.26	4.27	-	-	-	-	-	-
18-Feb-24	2.85	6.50	3.74	-	-	-	-	-	-
19-Feb-24	2.76	10.00	4.04	-	-	-	-	-	-
20-Feb-24	2.84	9.00	3.91	-	-	-	-	-	-
21-Feb-24	3.05	10.00	4.03	-	-	-	-	-	-
22-Feb-24	2.99	10.00	4.19	-	-	-	-	-	-
23-Feb-24	3.30	10.00	5.05	-	-	-	-	-	-
24-Feb-24	3.31	10.00	5.07	-	-	-	-	-	-
25-Feb-24	3.17	6.50	3.85	-	-	-	-	-	-
26-Feb-24	2.98	10.00	4.83	-	-	-	-	-	-
27-Feb-24	2.84	6.80	4.07	-	-	-	-	-	-
28-Feb-24	2.62	10.00	3.97	-	-	-	-	-	-
29-Feb-24	3.01	10.00	4.94	-	-	-	-	-	-
	2.09[#]	10.00[#]	5.00	5.56[#]	10.00[#]	9.70	10.00[#]	10.00[#]	10.00
<i>Source: IEX, PXIL and HPX</i>									
<i>* 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.</i>									
<i># Maximum/Minimum in the month</i>									

**Table-27(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
FEBRUARY 2024**

Market Segment	Green Day Ahead Market of IEX			Green Day Ahead Market of PXIL			Green 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-Feb-24	3.80	10.00	6.51	-	-	-	-	-	-
2-Feb-24	3.80	10.00	6.55	-	-	-	-	-	-
3-Feb-24	3.80	10.00	6.18	-	-	-	-	-	-
4-Feb-24	3.81	10.00	5.71	-	-	-	-	-	-
5-Feb-24	3.85	10.00	5.95	-	-	-	-	-	-
6-Feb-24	3.62	10.00	5.55	-	-	-	-	-	-
7-Feb-24	3.62	10.00	5.20	-	-	-	-	-	-
8-Feb-24	3.50	10.00	5.01	-	-	-	-	-	-
9-Feb-24	3.62	10.00	5.38	-	-	-	-	-	-
10-Feb-24	3.50	10.00	5.42	-	-	-	-	-	-
11-Feb-24	3.00	10.00	4.88	-	-	-	-	-	-
12-Feb-24	3.14	10.00	5.93	-	-	-	-	-	-
13-Feb-24	3.50	10.00	5.51	-	-	-	-	-	-
14-Feb-24	3.32	10.00	5.57	-	-	-	-	-	-
15-Feb-24	3.33	10.00	5.50	-	-	-	-	-	-
16-Feb-24	3.05	10.00	5.12	-	-	-	-	-	-
17-Feb-24	3.05	10.00	5.01	-	-	-	-	-	-
18-Feb-24	3.05	10.00	4.36	-	-	-	-	-	-
19-Feb-24	2.96	10.00	4.44	-	-	-	-	-	-
20-Feb-24	3.00	10.00	4.54	-	-	-	-	-	-
21-Feb-24	3.21	10.00	4.92	-	-	-	-	-	-
22-Feb-24	3.20	10.00	4.49	-	-	-	-	-	-
23-Feb-24	3.38	10.00	4.86	-	-	-	-	-	-
24-Feb-24	3.30	10.00	4.97	-	-	-	-	-	-
25-Feb-24	3.30	10.00	4.45	-	-	-	-	-	-
26-Feb-24	3.30	10.00	4.71	-	-	-	-	-	-
27-Feb-24	3.20	10.00	4.70	-	-	-	-	-	-
28-Feb-24	2.70	8.00	4.07	-	-	-	-	-	-
29-Feb-24	2.50	10.00	4.13	-	-	-	-	-	-
	2.50[#]	10.00[#]	5.05	-	-	-	-	-	-

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-27(c): PRICE OF REAL TIME TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), FEBRUARY 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	Weighted Average Price*
1-Feb-24	1.20	10.00	5.45	-	-	-	-	-	-
2-Feb-24	2.50	10.00	5.50	-	-	-	-	-	-
3-Feb-24	2.52	10.00	5.89	-	-	-	-	-	-
4-Feb-24	1.69	5.10	3.44	-	-	-	-	-	-
5-Feb-24	1.58	10.00	3.78	-	-	-	-	-	-
6-Feb-24	2.40	10.00	5.08	-	-	-	-	-	-
7-Feb-24	2.51	10.00	4.97	-	-	-	-	-	-
8-Feb-24	2.09	10.00	5.33	-	-	-	-	-	-
9-Feb-24	3.26	10.00	6.15	-	-	-	-	-	-
10-Feb-24	2.85	10.00	5.19	-	-	-	-	-	-
11-Feb-24	2.20	6.50	3.47	-	-	-	-	-	-
12-Feb-24	2.00	10.00	5.91	-	-	-	-	-	-
13-Feb-24	2.45	10.00	5.20	-	-	-	-	-	-
14-Feb-24	2.80	10.00	4.16	-	-	-	-	-	-
15-Feb-24	2.00	10.00	4.00	-	-	-	-	-	-
16-Feb-24	2.27	10.00	3.88	-	-	-	-	-	-
17-Feb-24	2.96	10.00	4.33	-	-	-	-	-	-
18-Feb-24	1.50	5.18	3.20	-	-	-	-	-	-
19-Feb-24	0.99	5.34	2.57	-	-	-	-	-	-
20-Feb-24	2.14	10.00	4.82	-	-	-	-	-	-
21-Feb-24	2.71	10.00	4.32	-	-	-	-	-	-
22-Feb-24	3.26	10.00	5.94	-	-	-	-	-	-
23-Feb-24	2.92	10.00	5.92	-	-	-	-	-	-
24-Feb-24	3.10	10.00	5.09	-	-	-	-	-	-
25-Feb-24	2.71	5.00	3.63	-	-	-	-	-	-
26-Feb-24	1.62	5.50	3.33	-	-	-	-	-	-
27-Feb-24	1.40	5.35	3.06	-	-	-	-	-	-
28-Feb-24	1.20	7.62	3.33	-	-	-	-	-	-
29-Feb-24	2.00	10.00	3.78	-	-	-	-	-	-
	0.99[#]	10.00[#]	4.51	-	-	-	-	-	-

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-27(d): PRICE OF HIGH PRICE DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
FEBRUARY 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-Feb-24	-	-	-	-	-	-	-	-	-
2-Feb-24	-	-	-	-	-	-	-	-	-
3-Feb-24	-	-	-	-	-	-	-	-	-
4-Feb-24	-	-	-	-	-	-	-	-	-
5-Feb-24	-	-	-	-	-	-	-	-	-
6-Feb-24	-	-	-	-	-	-	-	-	-
7-Feb-24	-	-	-	-	-	-	-	-	-
8-Feb-24	-	-	-	-	-	-	-	-	-
9-Feb-24	-	-	-	-	-	-	-	-	-
10-Feb-24	-	-	-	-	-	-	-	-	-
11-Feb-24	-	-	-	-	-	-	-	-	-
12-Feb-24	-	-	-	-	-	-	-	-	-
13-Feb-24	-	-	-	-	-	-	-	-	-
14-Feb-24	-	-	-	-	-	-	-	-	-
15-Feb-24	-	-	-	-	-	-	-	-	-
16-Feb-24	-	-	-	-	-	-	-	-	-
17-Feb-24	-	-	-	-	-	-	-	-	-
18-Feb-24	-	-	-	-	-	-	-	-	-
19-Feb-24	-	-	-	-	-	-	-	-	-
20-Feb-24	-	-	-	-	-	-	-	-	-
21-Feb-24	-	-	-	-	-	-	-	-	-
22-Feb-24	-	-	-	-	-	-	-	-	-
23-Feb-24	-	-	-	-	-	-	-	-	-
24-Feb-24	-	-	-	-	-	-	-	-	-
25-Feb-24	-	-	-	-	-	-	-	-	-
26-Feb-24	-	-	-	-	-	-	-	-	-
27-Feb-24	-	-	-	-	-	-	-	-	-
28-Feb-24	-	-	-	-	-	-	-	-	-
29-Feb-24	-	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-

Source: IEX, PXIL and HPX

**Table-28: VOLUME OF TRANSACTIONS THROUGH POWER EXCHANGES (REGIONAL ENTITY*-WISE) (MUs),
FEBRUARY 2024**

Name of the Entity	Through DAM		Through GDAM		Through HP-DAM		Through RTM		Total Net***
	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase	
PUNJAB	0.00	503.34	0.00	30.62	0.00	0.00	3.82	541.75	1071.89
HARYANA	14.84	194.14	1.27	4.88	0.00	0.00	14.89	103.65	271.67
RAJASTHAN	297.24	28.42	3.86	7.12	0.00	0.00	307.22	32.05	-540.73
DELHI	126.96	32.85	0.00	13.61	0.00	0.00	81.22	33.42	-128.30
UTTAR PRADESH	740.36	231.22	6.99	6.94	0.00	0.00	176.61	174.55	-511.26
UTTARAKHAND	1.16	148.21	0.00	0.00	0.00	0.00	19.95	21.64	148.74
HIMACHAL PRADESH	44.08	16.76	7.70	0.00	0.00	0.00	9.97	30.70	-14.30
J & K	2.87	421.16	1.68	0.00	0.00	0.00	24.76	116.40	508.25
CHANDIGARH	13.77	6.55	0.00	0.00	0.00	0.00	0.28	0.78	-6.72
MP	80.13	119.96	20.39	21.29	0.00	0.00	111.39	50.08	-20.58
MAHARASHTRA	42.37	121.46	8.69	23.92	0.00	0.00	53.61	95.44	136.14
GUJARAT	175.25	618.62	0.00	4.04	0.00	0.00	15.48	89.53	521.45
CHHATTISGARH	96.64	9.13	0.00	14.38	0.00	0.00	84.49	12.52	-145.10
GOA	0.60	40.50	0.00	0.00	0.00	0.00	2.80	3.51	40.62
DD&DNH	0.00	151.66	0.00	0.00	0.00	0.00	1.12	13.71	164.25
ANDHRA PRADESH	36.83	174.88	31.45	3.66	0.00	0.00	41.97	143.63	211.91
KARNATAKA	0.00	93.71	0.00	7.10	0.00	0.00	0.15	66.80	167.46
KERALA	2.09	113.72	0.00	14.15	0.00	0.00	5.01	204.07	324.83
TAMIL NADU	50.25	308.03	0.00	29.04	0.00	0.00	22.36	149.35	413.81
PONDICHERY	33.29	0.08	0.00	0.00	0.00	0.00	14.34	0.05	-47.49
TELANGANA	161.05	626.44	2.20	0.21	0.00	0.00	74.68	172.79	561.51
WEST BENGAL	97.06	27.47	1.38	0.00	0.00	0.00	91.05	71.18	-90.84
ODISHA	218.11	29.82	0.00	0.18	0.00	0.00	190.14	30.75	-347.49
BIHAR	192.04	4.07	3.66	0.00	0.00	0.00	281.82	1.52	-471.92
JHARKHAND	0.00	9.38	0.00	7.83	0.00	0.00	79.43	3.67	-58.55
SIKKIM	0.00	1.22	0.92	0.00	0.00	0.00	6.01	0.33	-5.39
DVC	17.88	0.00	0.00	12.29	0.00	0.00	13.50	18.66	-0.43
ARUNACHAL P	0.00	6.40	0.00	0.00	0.00	0.00	0.05	7.99	14.34
ASSAM	0.00	12.50	0.00	0.00	0.00	0.00	10.12	46.34	48.72
MANIPUR	1.61	1.80	0.00	0.00	0.00	0.00	4.13	6.28	2.34
MEGHALAYA	2.35	27.02	0.00	0.00	0.00	0.00	0.21	9.94	34.40
MIZORAM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
NAGALAND	3.93	3.62	0.00	0.00	0.00	0.00	0.68	0.48	-0.51
TRIPURA	0.78	0.00	0.00	0.00	0.00	0.00	12.41	0.57	-12.62
NTPC STATIONS-NR	1.75	0.00	0.00	0.00	0.00	0.00	41.38	0.00	-43.13
NEP	0.00	34.83	0.00	0.00	0.00	0.00	0.00	0.48	35.31
AD HYDRO	10.19	0.00	0.00	0.00	0.00	0.00	0.18	0.00	-10.37
IGSTPS	0.02	0.00	0.00	0.00	0.00	0.00	1.41	0.00	-1.43
KARCHAM WANGTOO	14.93	0.00	0.00	0.00	0.00	0.00	0.27	0.00	-15.20
SHREE CEMENT	23.88	0.00	0.00	0.00	0.00	0.00	0.60	0.00	-24.48
LANCO BUDHIL	0.46	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.47
SORANG HEP	4.14	0.00	1.07	0.00	0.00	0.00	0.37	0.00	-5.57
SAINJ HEP	4.76	0.00	0.00	0.00	0.00	0.00	0.05	0.00	-4.81
ASEJTL_SLR	21.98	0.00	11.43	0.00	0.00	0.00	5.16	0.00	-38.57
SINGOLI BHATWARI HE	2.11	0.00	2.27	0.00	0.00	0.00	1.45	0.00	-5.82
NCR ALLAHABAD	0.00	20.25	0.00	3.25	0.00	0.00	0.00	2.19	25.69
RENEW_SR_SLR	34.64	0.00	6.00	0.00	0.00	0.00	3.61	0.00	-44.25
TPSL	0.00	0.00	0.00	0.00	0.00	0.00	3.65	0.00	-3.65
AMP_GREEN6	12.48	0.00	0.00	0.00	0.00	0.00	5.55	0.00	-18.03
ONEVOLT	11.65	0.00	0.00	0.00	0.00	0.00	5.70	0.00	-17.36
GRIAN	6.63	0.00	7.23	0.00	0.00	0.00	3.77	0.00	-17.62
AMPLUS_AGES	0.00	0.00	11.97	0.00	0.00	0.00	5.86	0.00	-17.83
RENEW_SPRATAP	17.11	0.00	10.16	0.00	0.00	0.00	2.78	0.00	-30.04
RENEW_SVIHAAN	8.95	0.00	5.17	0.00	0.00	0.00	1.38	0.00	-15.50
RENEW_SAAYAN	11.27	0.00	3.95	0.00	0.00	0.00	7.11	0.00	-22.33
ADEPT	4.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4.16
RENEW_ROSHNI FATEHGARH	0.00	0.00	0.00	0.00	0.00	0.00	1.52	0.00	-1.52

TESPL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.27	0.00	-5.27
NTPC STATIONS-WR	0.59	0.00	0.00	0.00	0.00	0.00	0.00	32.33	1.50	-31.42
JINDAL POWER	101.78	0.00	0.00	0.00	0.00	0.00	0.00	5.06	0.36	-106.48
ACBIL	60.90	0.00	0.00	0.00	0.00	0.00	0.00	6.74	0.28	-67.35
BALCO	4.55	0.99	0.00	8.46	0.00	0.00	0.00	9.65	3.51	-1.25
DCPP	119.78	0.00	0.00	0.00	0.00	0.00	0.00	1.47	1.62	-119.62
EMCO	12.33	0.00	0.00	0.00	0.00	0.00	0.00	5.67	0.00	-18.00
ESSAR POWER	265.18	0.00	0.00	0.00	0.00	0.00	0.00	3.84	1.84	-267.17
JINDAL STAGE-II	224.95	0.00	0.00	0.00	0.00	0.00	0.00	15.00	0.00	-239.95
DB POWER	234.92	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	-235.24
DHARIWAL POWER	19.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.37	-18.35
JAYPEE NIGRIE	59.80	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	-60.08
DGEN MEGA POWER	10.32	0.00	0.00	0.00	0.00	0.00	0.00	1.64	0.00	-11.96
MB POWER	45.61	0.00	0.00	0.00	0.00	0.00	0.00	3.05	2.46	-46.19
MARUTI COAL	5.18	0.00	0.00	0.00	0.00	0.00	0.00	2.20	0.34	-7.04
JHABUA POWER_MP	15.14	0.19	0.00	0.00	0.00	0.00	0.00	12.17	3.98	-23.14
SASAN UMPP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.20	0.00	-6.20
TRN ENERGY	2.35	0.00	0.00	0.00	0.00	0.00	0.00	20.43	0.00	-22.78
RKM POWER	16.12	0.00	0.00	0.00	0.00	0.00	0.00	11.69	0.00	-27.81
SKS POWER	11.20	0.00	0.00	0.00	0.00	0.00	0.00	1.30	18.20	5.71
INOX_BHUJ	0.00	0.00	1.33	0.00	0.00	0.00	0.00	0.00	0.00	-1.33
AMPS Hazira	0.00	22.92	0.00	49.89	0.00	0.00	0.00	0.00	13.94	86.75
RGPLL_IR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.97	0.97
ADANI_WIND	29.38	0.00	23.90	0.00	0.00	0.00	0.00	5.05	0.00	-58.34
CONTINNUM PT	0.00	0.00	11.17	0.00	0.00	0.00	0.00	0.00	0.00	-11.17
RENERGY5_WIND	4.81	0.00	3.11	0.00	0.00	0.00	0.00	0.02	0.00	-7.94
ARTPP	321.90	0.00	0.00	0.00	0.00	0.00	0.00	9.29	0.94	-330.25
MTPS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.81	0.00	-11.81
RAIGARH ADANI	182.31	0.00	0.00	0.00	0.00	0.00	0.00	2.86	4.25	-180.91
NREL_DAYAPAR (W)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.16	0.00	-5.16
KAPS 3&4 (INFIRM)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.80	0.00	-9.80
ADANI_4RE	0.37	0.00	38.81	0.00	0.00	0.00	0.00	7.13	0.00	-46.31
NTPC STATIONS-SR	13.81	0.00	1.91	0.00	0.00	0.00	0.00	10.621	0.00	-26.340
SIMHAPURI	10.88	0.00	0.00	0.00	0.00	0.00	0.00	6.90	9.11	-8.67
COASTGEN	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.00	-1.32
IL&FS	1.46	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	-1.67
NLC	0.01	0.00	0.00	0.00	0.00	0.00	0.00	4.29	0.00	-4.30
SEMBCORP	54.74	0.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	-74.24
AYANA_NPKUNTA	0.00	0.00	7.09	0.00	0.00	0.00	0.00	0.53	0.00	-7.62
OSTRO Hiriyur	4.12	0.00	11.14	0.00	0.00	0.00	0.00	0.90	0.00	-16.16
JSW_RENEW_2	0.00	0.00	2.91	0.00	0.00	0.00	0.00	0.00	0.00	-2.91
RENEW_ROSHNI	3.09	0.00	5.86	0.00	0.00	0.00	0.00	2.94	0.00	-11.89
RENEW_SOJAS	1.65	0.00	6.16	0.00	0.00	0.00	0.00	4.92	0.00	-12.73
NTPC STATIONS-ER	27.49	0.00	0.00	0.00	0.00	0.00	0.00	135.71	0.00	-163.20
NPGC	75.28	0.00	0.00	0.00	0.00	0.00	0.00	72.56	0.00	-147.84
ADHUNIK POWER LTD	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.54	0.00	-0.55
GMR KAMALANGA	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.26
JITPL	127.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-127.93
NEPAL(NVVN)	0.00	244.17	0.00	0.00	0.00	0.00	0.00	0.53	3.34	246.99
TASHIDENG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	-0.05
DGPCL Bhutan	0.00	338.24	0.00	0.00	0.00	0.00	0.00	0.00	13.91	352.15
KBUNL	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.03
IBEUL	30.17	0.38	0.00	0.00	0.00	0.00	0.00	25.21	1.15	-53.86
NTPC STATIONS-NER	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.76	0.00	-1.11
NEEPCO STATIONS	0.60	0.00	0.00	0.00	0.00	0.00	0.00	8.045	0.00	-8.642
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	-0.04
ONGC PALATANA	0.06	0.00	0.00	0.00	0.00	0.00	0.00	1.81	0.00	-1.87
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.001	0.00	-0.001

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 various segments on power exchanges

Table-29: VOLUME AND CHARGES UNDER DSM (DAY-WISE), FEBRUARY 2024

Date	Volume (MU)	All India Grid Charges (₹/kWh)		
		Minimum	Maximum	Average
1-Feb-24	79.02	2.93	10.00	6.52
2-Feb-24	76.96	2.72	10.00	5.92
3-Feb-24	73.56	3.08	10.00	6.19
4-Feb-24	77.40	2.50	10.00	4.45
5-Feb-24	77.54	2.09	10.00	5.61
6-Feb-24	70.10	2.40	10.00	5.69
7-Feb-24	68.95	2.86	10.00	5.80
8-Feb-24	71.89	2.59	10.00	5.99
9-Feb-24	69.05	3.26	10.00	6.38
10-Feb-24	70.14	3.18	10.00	5.87
11-Feb-24	71.34	2.90	10.00	4.29
12-Feb-24	77.42	2.59	10.00	6.31
13-Feb-24	73.18	2.85	10.00	6.06
14-Feb-24	69.95	2.90	10.00	5.47
15-Feb-24	74.27	2.73	10.00	5.01
16-Feb-24	68.15	2.52	10.00	4.80
17-Feb-24	67.59	2.96	10.00	4.52
18-Feb-24	75.97	2.85	10.00	3.88
19-Feb-24	84.43	2.76	10.00	4.06
20-Feb-24	71.98	2.90	10.00	4.77
21-Feb-24	74.10	2.77	10.00	4.45
22-Feb-24	71.30	3.26	10.00	6.20
23-Feb-24	73.76	3.31	10.00	5.94
24-Feb-24	75.70	3.24	10.00	5.34
25-Feb-24	74.04	3.13	7.22	3.98
26-Feb-24	79.47	2.98	10.00	4.86
27-Feb-24	78.30	2.84	7.44	4.05
28-Feb-24	71.05	2.62	10.00	4.08
29-Feb-24	69.11	2.71	10.00	4.78
Total	2135.74	2.09[#]	10.00[#]	5.22
<i>Source: NLDC</i>				
<i># Maximum/Minimum in the month</i>				

Table-30: VOLUME OF ELECTRICITY UNDER DRAWAL/ OVER INJECTION (EXPORTED) UNDER DSM, FEBRUARY 2024

Name of the Entity	Volume of Under drawal/ Over injection (MUs)	% of Volume
RAJASTHAN	136.37	6.41
UTTAR PRADESH	101.86	4.79
GUJARAT	80.06	3.76
MP	79.57	3.74
MAHARASHTRA	79.54	3.74
NTPC STATIONS-WR	77.25	3.63
PUNJAB	72.77	3.42
NTPC STATIONS-NR	62.31	2.93
HARYANA	61.01	2.87
ANDHRA PRADESH	55.11	2.59
TAMIL NADU	53.87	2.53
KARNATAKA	53.04	2.49
CHHATTISGARH	50.47	2.37
DELHI	48.74	2.29
TELANGANA	46.43	2.18
SASAN UMPP	44.51	2.09
NTPC STATIONS-SR	43.26	2.03
J & K	34.70	1.63
JINDAL STAGE-II	31.69	1.49
NHPC STATIONS	31.22	1.47
NPGC	29.97	1.41
NTPC STATIONS-ER	29.88	1.40
DVC	29.48	1.39
BIHAR	25.64	1.20
JHARKHAND	23.04	1.08
NEEPCO STATIONS	20.94	0.98
NEPAL(NVVN)	18.75	0.88
AMPS Hazira	18.63	0.88
UTTARAKHAND	16.92	0.80
JAYPEE NIGRIE	14.10	0.66
RKM POWER	13.87	0.65
NLC	13.76	0.65
HIMACHAL PRADESH	12.98	0.61
ODISHA	11.99	0.56
KAPP 3&4	11.82	0.56
KAPS 3&4 (INFIRM)	11.82	0.56
BBMB	11.54	0.54
JINDAL POWER	11.13	0.52
IGSTPS	9.76	0.46
SBESS	9.34	0.44
ESSAR POWER	8.66	0.41
AYANA_NPKUNTA	8.41	0.40
ASEJTL_SLR	8.33	0.39
AGEMPL BHUJ	8.22	0.39
GIWEL_BHUJ	8.14	0.38
LANKO_AMK	7.84	0.37
PONDICHERRY	7.60	0.36
MEGHALAYA	7.42	0.35
AZURE43_SLR	7.36	0.35
RPREL	7.00	0.33
ADANI_WIND	7.00	0.33
BRBCL,NABINAGAR	6.98	0.33
TRIPURA	6.58	0.31
CHANDIGARH	6.20	0.29
AVAADASN_SLR	6.18	0.29
KREDL_PVGD	5.99	0.28
RENEW_BHUJ	5.90	0.28
RENEW_SR_SLR	5.89	0.28
BALCO	5.89	0.28

SKRPL	5.87	0.28
RENEW_ROSHNI	5.82	0.27
AYANA_RP1	5.73	0.27
PARAM_PVGD	5.57	0.26
NOKHRA_STPP	5.45	0.26
ASSAM	5.42	0.25
AZURE41_SLR	5.36	0.25
TATA_PVGD	5.33	0.25
AVADARJHN_SLR	5.27	0.25
ACME_HEERGARH	5.17	0.24
RENEWURJA_SLR	5.12	0.24
ARS_PVGD	4.94	0.23
DD&DNH	4.90	0.23
GIWEL_TCN	4.78	0.22
OSTRO	4.77	0.22
RENEWSB	4.73	0.22
MAITHON POWER LTD	4.72	0.22
SPRNG_NPKUNTA	4.67	0.22
ALTRA XERGI	4.64	0.22
AZURE_PVGD	4.56	0.21
CLEAN_SLR	4.44	0.21
RENEW_BHACHAU	4.43	0.21
EDEN_SLR	4.39	0.21
ADANI_4RE	4.38	0.21
NJPC	4.29	0.20
BANGLADESH	4.25	0.20
GRT_JPL	4.25	0.20
SBG_NPK	4.25	0.20
GOA	4.20	0.20
MSUPL_BHDL2	4.17	0.20
RENEWSW_SLR	4.03	0.19
ABC_BHDL2	4.02	0.19
APRAAVA	4.01	0.19
DEVKOOT_SLR	3.99	0.19
ACME_SLR	3.98	0.19
OSTRO Hiriyur	3.90	0.18
RENEW_SLR_BKN	3.89	0.18
INOX_BHUJ	3.89	0.18
MB POWER	3.88	0.18
MIZORAM	3.85	0.18
WEST BENGAL	3.84	0.18
ALFANAR_BHUJ	3.84	0.18
AHEJ2L_SOLAR	3.81	0.18
THARI_SLR	3.81	0.18
RAIL	3.72	0.17
RENEWJH_SLR	3.69	0.17
AVIKIRAN	3.65	0.17
FORTUM1_PVGD	3.64	0.17
SIKKIM	3.64	0.17
MSRPL	3.63	0.17
ACME_RUMS	3.58	0.17
MANIPUR	3.58	0.17
ARINSUM_RUMS	3.55	0.17
KERALA	3.53	0.17
MAHINDRA_RUMS	3.46	0.16
CLEANSF_SLR	3.42	0.16
ADANIHB_SLR	3.39	0.16
SEMBCORP	3.35	0.16
ORANGE_TCN	3.29	0.15
SKS POWER	3.13	0.15
TATA_SLR	3.11	0.15
RISING_SLR	3.04	0.14
NTPC_ANTP	3.02	0.14

MSEPL	2.93	0.14
AZURE_MAPLE_SLR	2.93	0.14
ADY1_PVGD	2.90	0.14
RENEW_SPRATAP	2.86	0.13
AHEJOL_S_FTG2	2.84	0.13
AHEJ4L_SOLAR	2.78	0.13
DB POWER	2.71	0.13
NSPCL	2.71	0.13
TATA_GREEN	2.69	0.13
RAMPUR HEP	2.67	0.13
NAGALAND	2.66	0.12
JITPL	2.64	0.12
NTPC STATIONS-NER	2.62	0.12
TORRENT SOLARGEN	2.59	0.12
ARERJL_SLR	2.57	0.12
SIMHAPURI	2.27	0.11
NETRA WIND	2.26	0.11
AZURE_SLR	2.15	0.10
TEHRI	2.13	0.10
RENEW_PVGD	2.13	0.10
JSW_RENEW_2	2.13	0.10
RGPPL	2.01	0.09
CGPL	2.01	0.09
NTPL	2.00	0.09
MTPS II	1.96	0.09
GRIAN	1.94	0.09
EMCO	1.93	0.09
JHABUA POWER_MP	1.92	0.09
KARCHAM WANGTOO	1.83	0.09
ARUNACHAL PRADESH	1.81	0.09
RENEW_SVIHAAN	1.76	0.08
KOTESHWAR	1.73	0.08
SESPL	1.72	0.08
GSECL P-II	1.71	0.08
AVAADA1_PVGD	1.71	0.08
DGPCL Bhutan	1.69	0.08
GSECL_Radhnesda	1.69	0.08
AMPLUS_AGES	1.68	0.08
ONGC PALATANA	1.64	0.08
GMR KAMALANGA	1.63	0.08
NETCL VALLUR	1.58	0.07
THERMAL POWERTECH	1.56	0.07
NEP	1.53	0.07
KSK MAHANADI	1.53	0.07
AZURE34_SLR	1.49	0.07
ESPL_RADHANESDA	1.48	0.07
ONEVOLT	1.47	0.07
FRV_ANTP	1.46	0.07
DCPP	1.43	0.07
SPRING PUGALUR	1.41	0.07
AZURE_ANTP	1.39	0.07
FORTUM2_PVGD	1.39	0.07
TPSL	1.25	0.06
IL&FS	1.24	0.06
Railways_ER ISTS	1.22	0.06
RAP B	1.06	0.05
SBG_PVGD	1.06	0.05
TATA_ANTP	1.06	0.05
POWERGRID HVDC	1.01	0.05
POWERICA	0.99	0.05
ACBIL	0.98	0.05
TRN ENERGY	0.91	0.04
AHSP_ANTP	0.90	0.04

NAPP	0.89	0.04
AMP_GREEN6	0.88	0.04
RENEW_SLR	0.83	0.04
BETAM_TCN	0.79	0.04
GIPCL_RADHANESDA	0.77	0.04
AVAADA2_PVGD	0.75	0.04
RAP C	0.71	0.03
DGEN MEGA POWER	0.70	0.03
BARC	0.68	0.03
YARROW_PVGD	0.68	0.03
RANGANADI HEP	0.68	0.03
COASTGEN	0.66	0.03
AKS_PVGD	0.65	0.03
AKSP_ANTP	0.65	0.03
TPREL_RADHANESDA	0.61	0.03
RANGIT HEP	0.60	0.03
ABSP_ANTP	0.58	0.03
ADANI_SLR 4	0.56	0.03
ADANI GREEN	0.56	0.03
ADHUNIK POWER LTD	0.53	0.03
DAGACHU	0.48	0.02
SAINJ HEP	0.47	0.02
SHREE CEMENT	0.45	0.02
FRV_NPK	0.45	0.02
TASHIDENG HEP	0.40	0.02
PARE HEP	0.37	0.02
SRSSFPL	0.35	0.02
RSTPS_FSPP	0.33	0.02
SINGOLI BHATWARI HEP	0.30	0.01
LOKTAK	0.27	0.01
IBEUL	0.25	0.01
SORANG HEP	0.24	0.01
RONGNICHU HEP	0.23	0.01
DOYANG HEP	0.22	0.01
MYTRAH_TCN	0.20	0.01
LANCO BUDHIL	0.17	0.01
DHARIWAL POWER	0.16	0.01
CHUZACHEN HEP	0.14	0.01
AD HYDRO	0.13	0.01
NFF	0.11	0.005
HVDC ALPD	0.01	0.0004
HVDC PUS	0.002	0.0001
Total	2128.28	100.00
Volume Exported by top 5 Regional Entities	477.41	22.43

Table-31: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) UNDER DSM, FEBRUARY 2024

Name of the Entity	Volume of Over drawal/ Under Injection (MUs)	% of Volume
NTPC STATIONS-NR	99.39	4.64
NTPC STATIONS-WR	97.49	4.55
NTPC STATIONS-ER	84.61	3.95
ADANIHB_SLR	78.22	3.65
NTPC STATIONS-SR	73.78	3.44
UTTAR PRADESH	68.73	3.21
KARNATAKA	65.83	3.07
TAMIL NADU	61.08	2.85
WEST BENGAL	60.91	2.84
MAHARASHTRA	60.24	2.81
ODISHA	55.74	2.60
GUJARAT	53.41	2.49
MP	51.42	2.40
BIHAR	48.00	2.24
ANDHRA PRADESH	45.25	2.11
RAJASTHAN	34.33	1.60
PUNJAB	32.56	1.52
HARYANA	32.28	1.51
NLC	32.08	1.50
KERALA	31.87	1.49
TELANGANA	31.84	1.49
J & K	31.13	1.45
AGEMPL BHUJ	26.16	1.22
HIMACHAL PRADESH	25.92	1.21
GIWEL_BHUJ	25.48	1.19
JHARKHAND	24.29	1.13
KAPP 3&4	23.74	1.11
KAPS 3&4 (INFIRM)	23.74	1.11
ASSAM	22.86	1.07
AMPS Hazira	21.14	0.99
UTTARAKHAND	19.49	0.91
CGPL	18.17	0.85
DVC	16.93	0.79
OSTRO	16.73	0.78
RENEW_BHUJ	16.68	0.78
PARAM_PVGD	16.29	0.76
SBESS	15.66	0.73
INOX_BHUJ	15.23	0.71
RENEW_BHACHAU	14.59	0.68
ALFANAR_BHUJ	14.35	0.67
SKRPL	14.34	0.67
RENEW_ROSHNI	14.17	0.66
CHHATTISGARH	14.17	0.66
SPRING_PUGALUR	13.54	0.63
AYANA_NPKUNTA	13.33	0.62
NPGC	12.76	0.60
ADANI_WIND	12.35	0.58
IGSTPS	11.24	0.52
ARUNACHAL PRADESH	10.77	0.50
SHREE CEMENT	10.53	0.49
GRT_JPL	10.19	0.48
KREDL_PVGD	9.50	0.44
FORTUM1_PVGD	9.27	0.43
GOA	8.82	0.41
AVAADASN_SLR	8.51	0.40
ADANI_4RE	8.35	0.39
BRBCL,NABINAGAR	7.76	0.36
DGPCL Bhutan	7.61	0.36
OSTRO Hiriyur	7.42	0.35

NHPC STATIONS	7.06	0.33
AVIKIRAN	6.86	0.32
IBEUL	6.79	0.32
AVADARJHN_SLR	6.78	0.32
BANGLADESH	6.69	0.31
SESPL	6.68	0.31
MB POWER	5.81	0.27
AZURE43_SLR	5.75	0.27
NETCL VALLUR	5.71	0.27
BALCO	5.68	0.26
RAIL	5.65	0.26
APRAAVA	5.25	0.24
THERMAL POWERTECH	5.24	0.24
CLEAN_SLR	5.18	0.24
NETRA WIND	5.07	0.24
CHANDIGARH	5.04	0.24
NTPC STATIONS-NER	4.84	0.23
TORRENT SOLARGEN	4.79	0.22
SEMBCORP	4.51	0.21
DELHI	4.50	0.21
DD&DNH	4.12	0.19
TEHRI	4.10	0.19
MANIPUR	4.06	0.19
NOKHRA_STPP	4.03	0.19
NEEPCO STATIONS	3.88	0.18
RPREL	3.87	0.18
MSEPL	3.83	0.18
ESSAR POWER	3.71	0.17
MAHINDRA_RUMS	3.64	0.17
ACME_RUMS	3.63	0.17
ACBIL	3.56	0.17
AHEJOL_S_FTG2	3.53	0.16
SIKKIM	3.45	0.16
ASEJTL_SLR	3.44	0.16
ARINSUM_RUMS	3.44	0.16
COASTGEN	3.43	0.16
JHABUA POWER_MP	3.36	0.16
ABC_BHDL2	3.32	0.16
TRIPURA	3.32	0.15
ALTRA XERGI	3.32	0.15
RKM POWER	3.30	0.15
AYANA_RP1	3.18	0.15
AHEJ2L_SOLAR	3.14	0.15
TATA_SLR	3.11	0.15
NEP	3.09	0.14
AZURE41_SLR	3.02	0.14
JSW_RENEW_2	2.84	0.13
NTPC_ANTP	2.81	0.13
MTPS II	2.77	0.13
CLEANSPL_SLR	2.62	0.12
ACME_HEERGARH	2.60	0.12
THARI_SLR	2.59	0.12
RENEWJH_SLR	2.58	0.12
ACME_SLR	2.53	0.12
RENEW_SLR_BKN	2.48	0.12
RENEW_SR_SLR	2.46	0.11
ARERJL_SLR	2.46	0.11
MSRPL	2.45	0.11
DEVKOOT_SLR	2.45	0.11
RENEWSW_SLR	2.41	0.11
EDEN_SLR	2.36	0.11
AZURE_SLR	2.32	0.11
JITPL	2.30	0.11

DGEN MEGA POWER	2.29	0.11
POWERICA	2.26	0.11
RISING_SLR	2.22	0.10
DB POWER	2.19	0.10
RENEW_SPRATAP	2.16	0.10
MAITHON POWER LTD	2.16	0.10
MSUPL_BHDL2	2.16	0.10
AZURE_MAPLE_SLR	2.15	0.10
RENEWSB	2.13	0.10
NSPCL	2.12	0.10
JAYPEE NIGRIE	2.09	0.10
TATA_GREEN	2.03	0.09
RGPPL	1.99	0.09
FRV_ANTP	1.94	0.09
ADHUNIK POWER LTD	1.93	0.09
RENEWURJA_SLR	1.92	0.09
AHEJ4L_SOLAR	1.91	0.09
PONDICHERRY	1.88	0.09
ESPL_RADHANESDA	1.87	0.09
ONEVOLT	1.82	0.08
SASAN UMPP	1.80	0.08
AMPLUS_AGES	1.72	0.08
GRIAN	1.72	0.08
SIMHAPURI	1.69	0.08
NEPAL(NVVN)	1.68	0.08
AMP_GREEN6	1.60	0.07
AZURE34_SLR	1.47	0.07
KHURJA STPP	1.40	0.07
NAPP	1.39	0.06
ORANGE_TCN	1.33	0.06
TATA_PVGD	1.31	0.06
MIZORAM	1.31	0.06
TRN ENERGY	1.31	0.06
ARS_PVGD	1.31	0.06
RAP C	1.28	0.06
BBMB	1.26	0.06
JINDAL POWER	1.25	0.06
RAP B	1.24	0.06
Railways_ER ISTS	1.24	0.06
SPRNG_NPKUNTA	1.24	0.06
AZURE_PVGD	1.20	0.06
SBG_NPK	1.15	0.05
NTPL	1.13	0.05
KARCHAM WANGTOO	1.11	0.05
KSK MAHANADI	1.11	0.05
RANGANADI HEP	1.08	0.05
DHARIWAL POWER	1.03	0.05
TPSL	1.02	0.05
ADY1_PVGD	1.01	0.05
SBG_PVGD	1.01	0.05
TPREL_RADHANESDA	0.99	0.05
RENEW_PVGD	0.95	0.04
MEGHALAYA	0.91	0.04
RENEW_SVIHAAN	0.91	0.04
GIPCL_RADHANESDA	0.88	0.04
JINDAL STAGE-II	0.87	0.04
BETAM_TCN	0.74	0.03
GIWEL_TCN	0.67	0.03
KOTESHWAR	0.65	0.03
RENEW_SLR	0.64	0.03
SKS POWER	0.63	0.03
NJPC	0.61	0.03
SRSSFPL	0.59	0.03

AVAADA1_PVGD	0.59	0.03
ADANI GREEN	0.58	0.03
GSECL_Radhnesda	0.57	0.03
GSECL P-II	0.55	0.03
DCPP	0.53	0.02
MEENAKSHI	0.50	0.02
ADANI_SLR 4	0.48	0.02
FRV_NPK	0.48	0.02
MYTRAH_TCN	0.48	0.02
AVAADA2_PVGD	0.46	0.02
TATA_ANTP	0.46	0.02
AZURE_ANTP	0.44	0.02
NAGALAND	0.42	0.02
LANKO KONDAPALLI	0.39	0.02
FORTUM2_PVGD	0.36	0.02
RSTPS_FSPP	0.35	0.02
AKSP_ANTP	0.33	0.02
EMCO	0.31	0.01
GMR KAMALANGA	0.29	0.01
IL&FS	0.28	0.01
AHSP_ANTP	0.25	0.01
DOYANG HEP	0.25	0.01
YARROW_PVGD	0.24	0.01
ABSP_ANTP	0.24	0.01
AKS_PVGD	0.22	0.01
SAINJ HEP	0.17	0.01
RAMPUR HEP	0.13	0.01
HVDC PUS	0.13	0.01
PARE HEP	0.11	0.01
TASHIDENG HEP	0.11	0.01
SORANG HEP	0.10	0.005
LOKTAK	0.09	0.004
RONGNICHU HEP	0.08	0.004
HVDC ALPD	0.07	0.003
NFF	0.07	0.003
SINGOLI BHATWARI HEP	0.07	0.003
RANGIT HEP	0.06	0.003
CHUZACHEN HEP	0.06	0.003
AD HYDRO	0.05	0.002
BARC	0.04	0.002
LANCO BUDHIL	0.03	0.001
DAGACHU	0.01	0.001
JORETHANG	0.01	0.0004
LANKO_AMK	0.01	0.0004
ONGC PALATANA	0.002	0.0001
RAPP 7&8	0.00004	0.000002
TOTAL	2143.20	100.00
Volume Imported by top 5 Regional Entities	433.50	20.23

Table-32: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES AND THROUGH TRADERS (BILATERAL), FEBRUARY 2024

Sr. No	Details of REC Transactions	Through Power Exchange			Bilateral through Traders
		IEX	PXIL	HPX	
1	Volume of Buy Bid	614500	271208	285	-
2	Volume of Sell Bid	13647594	9665070	879279	-
3	Ratio of Buy Bid to Sell Bid Volume	0.05	0.03	0.0003	-
4	Traded Volume (MWh)	614270	261208	285	595355
5	Weighted Average Price (₹/MWh)	348.44	360.00	360.00	353.86

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-33(a): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, FEBRUARY 2024

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	0.00	279.00	279.00	-	4.40
2	Bhutan	0.00	338.24	338.24	-	3.77
	Total	0.00	617.25	617.25	-	-

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-33(b): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH REAL TIME MARKET AT IEX, FEBRUARY 2024

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	0.53	3.82	3.30	5.63	8.39
2	Bhutan	0.00	13.91	13.91	-	4.64
	Total	0.53	17.73	17.21	-	-

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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