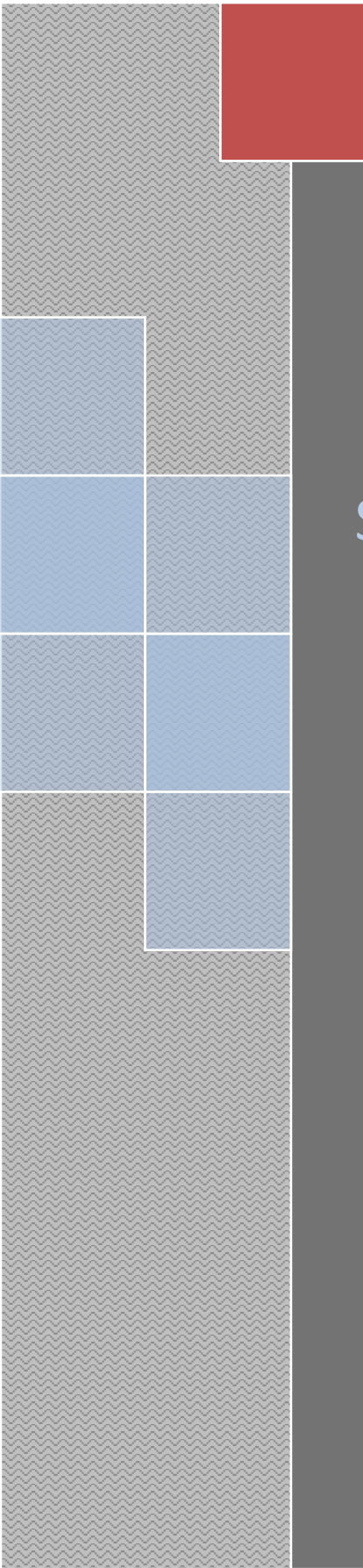




Monthly Report on Short-term Transactions of Electricity in India

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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 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)
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
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
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
CLEANSPLR	Clean Solar Jodhpur Pvt Ltd
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DAM	Day Ahead Market
DB POWER	Diligent Power Pvt. 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	Doyang Hydro 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
ESSAR STEEL	Essar Steel Ltd
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
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
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
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
MP	Madhya Pradesh
MRPL	Mahindra Renewables Private Limited
MSEPL	Masaya Solar Energy Private Limited
MTPS	TATA Power Mundra Thermal Power Station
MTPS II	Muzaffarpur Thermal Power Station – Stage II
MYTRAH_TCIN	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
NPGC	Nabinagar Power Generating Company (Pvt.) Limited
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
ONGC Platana	ONGC Tripura Power Company
OPGC	Odisha Power Generation Corporation
ORANGE_TCIN	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
PX	Power Exchange
PXIL	Power Exchange India Limited
RAIL	Indian Railways
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
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_SLR_BKN	Renew Solar Bikaner
RENEW_SR_SLR	Renew Surya Ravi Private Limited (Solar)
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
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
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
TEESTA STG3	Teesta Stage 3 Hydro Power Project
TEHRI	Tehri Hydro Electric Power Project
TAM	Term Ahead Market
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
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 **August 2023** is presented in the following sections.

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

2.1. During August 2023, total electricity generation, excluding generation from renewable and captive power plants in India, was 137504.77 MU (Table-1). Of the total electricity generation, 15.52% was transacted through short-term and DSM, comprising of 8.94% through bilateral (through Traders and Term-Ahead contracts on power exchanges, and directly between distribution companies), followed by 4.95% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)} and 1.63% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (21336.23 MU), 57.63% was transacted through bilateral (40.24% through Traders and Term-Ahead contracts on power exchanges, and 17.38% directly between distribution companies), followed by 31.89% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 10.48% through DSM (Table-1 & Figure-2). The daily volume of short-term transactions is shown in Table-28. 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, 40.14% of the volume was transacted in Term Ahead Market (TAM) (including G-TAM & HP-TAM), followed by 35.76% in DAM (including G-DAM & HP-DAM) and 24.10% 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 52 trading licensees as of August 2023. Of which, 31 trading licensees were engaged in short-term trading. The top 5 trading licensees, namely PTC India Ltd., NTPC Vidyut Vyapar Nigam Ltd., Tata Power Trading Company (P) Ltd., Adani Enterprises Ltd. and Arunachal Pradesh Power Corporation (P) Ltd., had a share of 75.63% 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 0.1373 for the month of August 2023, which indicates non-concentration of market (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX, PXIL and HPX was 3881.41 MU, 16.34 MU and 0.27 MU, respectively. The volume of total buy bids and sell bids was 10061.31 MU and 6330.60 MU, respectively in IEX, 58.89 MU and 78.52 MU, respectively in PXIL, while the same was 0.27 MU and 0.27 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 0.11 MU, and the volume was sold by the neighbouring countries of India was 269.61 MU under the Cross Border Trade of electricity through power exchange (Table-35). 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 162.71 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and

sell bids was 1332.58 MU and 221.52 MU, respectively, in IEX, while no bids were received in PXIL and HPX.

2.9. The volume of electricity transacted in the HP-DAM of IEX was 4.23 MU. The volume of total buy bids and sell bids was 25.50 MU and 752.01 MU, respectively, in IEX.

2.10. The volume of electricity transacted in the RTM of IEX, PXIL and HPX was 2738.05 MU, 0.63 MU and 1.13 MU, respectively. The volume of total buy bids and sell bids was 8671.58 MU and 3783.97 MU, respectively in IEX, 1.02 MU and 0.63 MU, respectively in PXIL, while the same was 1.38 MU and 1.13 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. The volume of electricity transacted in the TAM of IEX, PXIL and HPX was 1674.14 MU, 1103.48 MU and 1378.30 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 82.57 MU, 29.44 MU and 78.87 MU, respectively (Table-12, Table-13 & Table-14).

2.12. The High Price Term Ahead Market (HP-TAM) was introduced on HPX from 10.08.2023 for contracts up to next 3 months. The volume of electricity transacted in the HP-TAM) of HPX was 216.13 MU (Table-15).

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 ₹2.70/kWh, ₹10.25/kWh and ₹6.64/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 ₹6.64/kWh and ₹6.59/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 ₹1.98/kWh, ₹10.00/kWh and ₹6.43/kWh, respectively. These prices in the DAM of PXIL were ₹5.00/kWh, ₹10.00/kWh and ₹9.33/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 ₹1.83/kWh, ₹10.00/kWh and ₹6.19/kWh, respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the HP-DAM of IEX were ₹9.80/kWh, ₹20.00/kWh and ₹15.49/kWh, respectively (Table-7). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.50/kWh, ₹10.00/kWh and ₹6.07/kWh, respectively. These prices in the RTM of PXIL were ₹10.00/kWh, ₹10.00/kWh and ₹10.00/kWh respectively. The minimum, maximum and weighted average prices for the electricity transacted 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 ₹7.45/kWh, ₹7.65/kWh and ₹7.50/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 ₹6.53/kWh, ₹6.80/kWh and ₹6.58/kWh, respectively (Table-12, Table-13 and Table-14). The weighted average price of electricity transacted in the HP-TAM of HPX was ₹15.60/kWh (Table-15). No electricity was transacted in G-DAM of PXIL and HPX.

3.3. **DSM Charges:** The minimum, maximum and average charge under DSM was ₹1.98/kWh, ₹13.37/kWh and ₹7.40/kWh, respectively (Table-31).

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-29(a), (b) & (c) and Figure-7. The daily volume and charges under DSM are shown in Table-31.

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 ₹0.026/kWh.

5. Volume of Short-term Transactions of Electricity (Regional Entity¹-Wise)

5.1. Of the total bilateral transactions, the top 5 regional entities/states sold 30.75% of the volume. These were Himachal Pradesh, Karnataka, Teesta Stage 3 Hydro Power Project, Madhya Pradesh and Simhapuri Energy Private Limited (Table-16). The top 5 regional entities/states purchased 54.55% of the volume, and these were Punjab, Haryana, Tamil Nadu, Andhra Pradesh and Telangana (Table-17).

5.2. Of the total DAM transactions at power exchanges, the top 5 regional entities/states sold 38.88% of the volume, and these were Uttar Pradesh, Delhi, Nepal (NVVN), Madhya Pradesh and Bihar (Table-18). The top 5 regional entities/states purchased 64.91% of the volume, and these were West Bengal, Andhra Pradesh, Telangana, Gujarat and Maharashtra (Table-19).

5.3. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 59.83% of the volume, and these were Karnataka, Jammu & Kashmir, Maharashtra, Andhra Pradesh and Soft Bank Solar (Table-20). The top 5 regional entities/states purchased 53.19% of the volume, and these were Arcelor Mittal Nippon Steel Hazira, Damodar Valley Corporation, Maharashtra, Punjab and Kerala (Table-21).

5.4. Of the total HP-DAM transactions at power exchanges, only 4 regional entities/states sold 100.00% of the volume, and these were Ratnagiri Gas and Power Private Ltd., Gujarat, IL&FS and Tamil Nadu (Table-22). Only 4 regional entities/states purchased 100.00% of the volume, and these were Andhra Pradesh, Tamil Nadu, Meghalaya and Chhattisgarh (Table-23).

5.5. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 52.20% of the volume, and these were Madhya Pradesh, Bihar, Odisha, Delhi and Rajasthan (Table-24). The top 5 regional entities/states purchased 56.03% of the volume, and these were Telangana, Karnataka, Andhra Pradesh, Kerala and Rajasthan (Table-25).

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 are shown in Table-26 & 30. The top 5 electricity selling regional entities/states of short-term transactions were

¹ 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.

Madhya Pradesh, Himachal Pradesh, Teesta Hydro Power Project, Simhapuri Energy Private Limited and Jindal Power Ltd Stage II. The top 5 electricity purchasing regional entities/states of short-term transactions were Punjab, Telangana, Haryana, Andhra Pradesh and West Bengal.

5.7. Of the total under-drawal/ over-injection volume under DSM in August 2023, the top 5 regional entities/states accounted for 25.32% of the volume, and these were Madhya Pradesh, Rajasthan, Uttar Pradesh, Gujarat and Punjab (Table-32). The top 5 regional entities/states under DSM accounted for 24.69% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Eastern Region), NTPC Stations (Western Region), NTPC Stations (Southern Region), NTPC Stations (Northern Region) and Karnataka (Table-33).

6. Congestion² 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”³.

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 August 2023, congestion was experienced in RTM on IEX only.

² “Congestion” means a situation where the demand for transmission capacity exceeds the available transfer capability

³ “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.

6.3. The volume of electricity that could not be cleared due to congestion in RTM of IEX was 0.02% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.17% in RTM of IEX during the month. (Table-27).

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 August 2023 are shown in Table-34. The market clearing volume of RECs transacted on IEX, PXIL and HPX were 252661, 80779 and 477, respectively. The weighted average market clearing price of these RECs was ₹575/MWh in IEX, ₹545/MWh in PXIL and ₹590/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 0.06, 0.03 and 0.004 in IEX, PXIL and HPX, respectively.

7.6. The volume of RECs transacted through Trading Licensees in August 2023 was 169548. The weighted average trade price for the RECs transacted through traders was ₹581/MWh.

8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 15.52%.
- b) Of the total short-term transactions and DSM volume (21336.23 MU), 57.63% was transacted through bilateral (40.24% through Traders and Term-Ahead contracts on power exchanges, and 17.38% directly between distribution companies), followed by 31.89% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 10.48% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 40.14% of the volume was transacted in Term Ahead Market (TAM) (including G-TAM & HP-TAM), followed by 35.76% in DAM (including G-DAM & HP-DAM) and 24.10% in RTM.
- d) The top 5 trading licensees had a share of 75.63% 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 0.1373, indicating a non-concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹6.64/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX, PXIL and HPX was ₹6.43/kWh, ₹9.33/kWh and ₹10.00/kWh. The weighted average price of electricity transacted in G-DAM of IEX was ₹6.19/kWh, while no electricity was transacted in G-DAM of PXIL and HPX. The weighted average price of electricity transacted in HP-DAM of IEX was ₹15.49/kWh. The weighted average price of electricity transacted in RTM of IEX, PXIL and HPX was ₹6.07/kWh, ₹10.00/kWh and ₹10.00/kWh.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹7.45/kWh, ₹7.65/kWh and ₹7.50/kWh, respectively. The weighted average price of

electricity transacted in G-TAM of IEX, PXIL and HPX was ₹6.53/kWh, ₹6.80/kWh and ₹6.58/kWh, respectively. The weighted average price of electricity transacted in HP-TAM of HPX was ₹15.60/kWh.

- i) The average charge under DSM was ₹7.40/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.026/kWh.
- k) The top 5 electricity selling regional entities/states of short-term transactions were Madhya Pradesh, Himachal Pradesh, Teesta Hydro Power Project, Simhapuri Energy Private Limited and Jindal Power Ltd Stage II. The top 5 electricity purchasing regional entities/states of short-term transactions were Punjab, Telangana, Haryana, Andhra Pradesh and West Bengal.
- l) The top 5 under-drawing/over-injecting regional entities/states under DSM were Madhya Pradesh, Rajasthan, Uttar Pradesh, Gujarat and Punjab. The top 5 over-drawing/under-injecting regional entities/states under DSM were NTPC Stations (Eastern Region), NTPC Stations (Western Region), NTPC Stations (Southern Region), NTPC Stations (Northern Region) and Karnataka.
- m) During the month of August 2023, congestion was experienced in RTM of IEX only. The volume of electricity that could not be cleared due to congestion in RTM of IEX was 0.02% of the unconstrained cleared volume.
- n) The market clearing volume of RECs transacted on IEX, PXIL and HPX were 252661, 80779 and 477, respectively. The weighted average market clearing price of these RECs was ₹575/MWh in IEX, ₹545/MWh in PXIL and ₹590/MWh in HPX. The volume of RECs transacted through Trading Licensees in August 2023 was 169548. The weighted average trade price for the RECs transacted through traders was ₹ 581/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), AUGUST 2023

Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
A	Short-term transactions			
1	Bilateral	12295.02	57.63	8.94
	(i) Through Traders and PXs	8586.06	40.24	6.24
	(ii) Direct	3708.96	17.38	2.70
2	Through Power Exchanges	6804.76	31.89	4.95
	(i) IEX			
	(a) DAM	3881.41	18.19	2.82
	(b) RTM	2738.05	12.83	1.99
	(c) GDAM	162.71	0.76	0.12
	(d)HP-DAM	4.23	0.020	0.0031
	(ii) PXIL			
	(a) DAM	16.34	0.08	0.01
	(b) RTM	0.63	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.27	0.00	0.00
	(b) RTM	1.13	0.01	0.00
	(c) GDAM	0.00	0.00	0.00
B	Through DSM	2236.45	10.48	1.63
	Total Short-term transactions and DSM	21336.23	-	15.52
	Total Generation	137504.77	-	-

Source: NLDC

Figure-1: Volume of various kinds of Electricity Transactions in Total Electricity Generation, August 2023

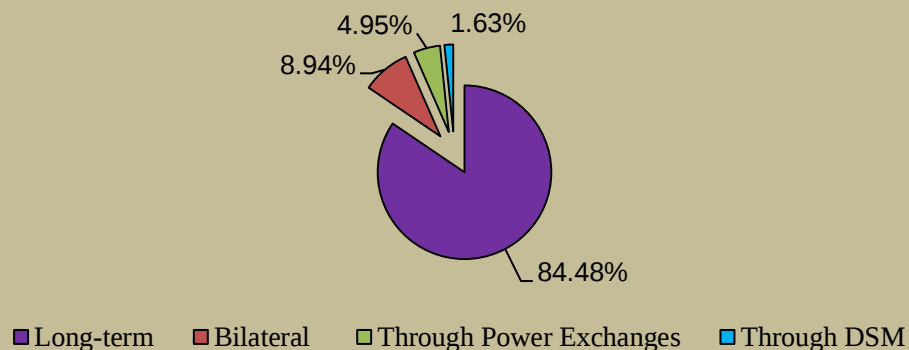


Figure-2: Volume of Short-term Transactions of Electricity and DSM Volume, August 2023

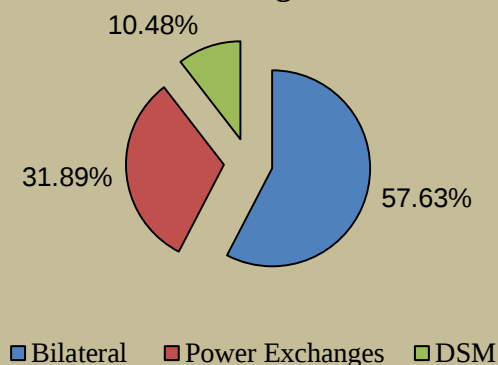


Figure-3: Volume transacted in different markets segments on Power Exchanges, August 2023

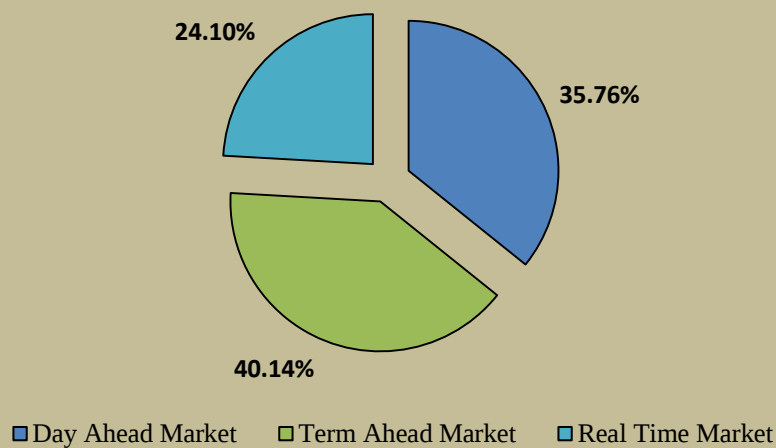


Figure-4: Volume of Short-term Transactions of Electricity and DSM Volume, August 2023 (Day-wise)

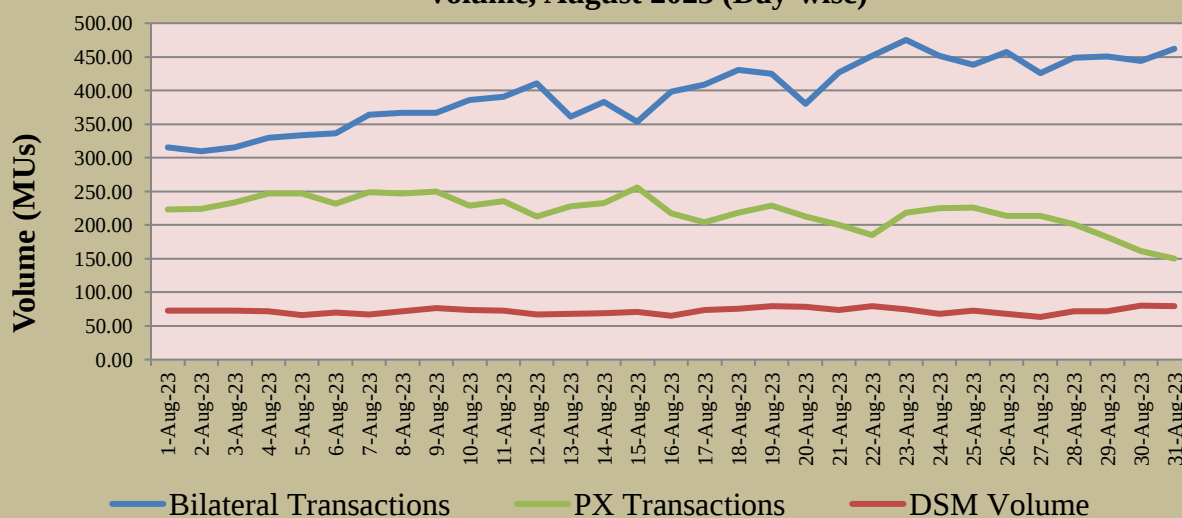


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, AUGUST 2023			
Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees	Herfindahl-Hirschman Index
1	PTC India Ltd.	25.76	0.0664
2	NTPC Vidyut Vyapar Nigam Ltd.	14.05	0.0197
3	Tata Power Trading Company (P) Ltd.	13.57	0.0184
4	Adani Enterprises Ltd.	11.18	0.0125
5	Arunachal Pradesh Power Corporation (P) Ltd	11.07	0.0123
6	Manikaran Power Ltd.	6.13	0.0038
7	GMR Energy Trading Ltd.	4.46	0.0020
8	JSW Power Trading Company Ltd	2.77	0.0008
9	Ambitious Power Trading Company Ltd.	2.20	0.0005
10	Instinct Infra & Power Ltd.	2.02	0.0004
11	Statkraft Markets Pvt. Ltd.	1.59	0.0003
12	Greenko Energies Pvt Ltd	1.06	0.0001
13	Kreate Energy (I) Pvt. Ltd.	0.99	0.0001
14	Gita Power & Infrastructure Private Limited	0.82	0.0001
15	NTPC Ltd.	0.66	0.0000
16	RPG Power Trading Company Ltd.	0.59	0.0000
17	Kundan International Pvt. Ltd.	0.34	0.0000
18	Abja Power Private Limited	0.25	0.0000
19	Shree Cement Ltd.	0.10	0.0000
20	SJVN Ltd.	0.09	0.0000
21	NLC India Ltd.	0.08	0.0000
22	Saranyu Power Trading Private Limited	0.08	0.0000
23	Instant Venture Pvt. Ltd.	0.04	0.0000
24	Ideal Energy Solution Pvt. Ltd.	0.03	0.0000
25	Customized Energy Solutions India (P) Ltd.	0.02	0.0000
26	Powerfull Energy Trading Pvt. Ltd.	0.02	0.0000
27	Phillip Commodities India (P) Ltd.	0.01	0.0000
28	Shubheksha Advisors Pvt. Ltd.	0.005	0.0000
29	Shell Energy Marketing and Trading India Pvt. Ltd.	0.002	0.0000
30	Altium Energie Private Limited	0.001	0.0000
31	Saini Power Transactor	0.0004	0.0000
TOTAL		100.00%	0.1373
Top 5 trading licensees		75.63%	
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, August 2023

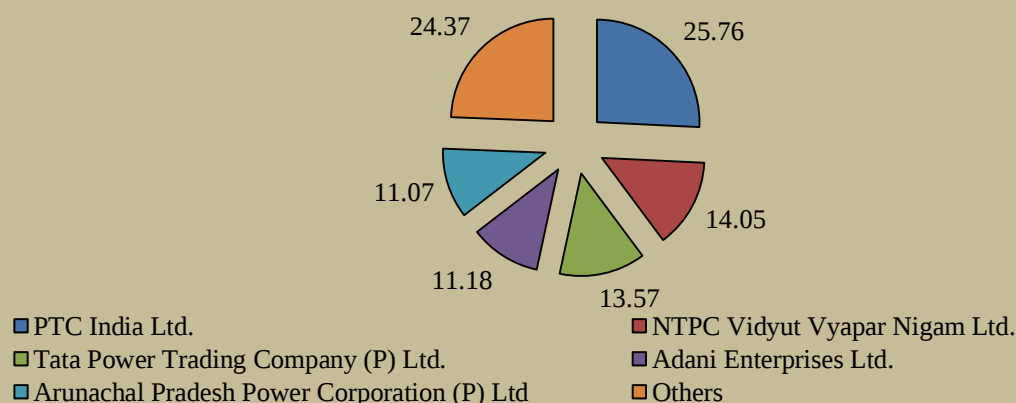


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, AUGUST 2023		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.70
2	Maximum	10.25
3	Weighted Average	6.64

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), AUGUST 2023		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	6.64
2	PEAK	-
3	OFF PEAK	6.59

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.98	5.00	10.00
2	Maximum	10.00	10.00	10.00
3	Weighted Average	6.43	9.33	10.00

Source: IEX, PXIL and HPX

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.83	-	-
2	Maximum	10.00	-	-
3	Weighted Average	6.19	-	-

Source: IEX, PXIL and HPX

Table-7: PRICE OF ELECTRICITY TRANSACTED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	9.80	-	-
2	Maximum	20.00	-	-
3	Weighted Average	15.49	-	-

Source: IEX, PXIL and HPX

Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, AUGUST 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.50	10.00	10.00
2	Maximum	10.00	10.00	10.00
3	Weighted Average	6.07	10.00	10.00

Source: IEX, PXIL and HPX

Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, AUGUST 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	8.82	9.89
2	Day Ahead Contingency Contracts	896.59	7.57
3	Daily Contracts	229.99	7.37
4	Monthly Contracts	72.06	5.04
5	Any Day Single Sided Contracts	466.68	7.57
	Total	1674.14	7.45

Source: IEX

Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, AUGUST 2023

Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	9.52	9.81
2	Day Ahead Contingency Contracts	806.61	8.03
3	Daily Contracts	0.56	10.00
4	Weekly Contracts	105.87	6.45
5	Any Day Single Sided Contracts	180.93	6.52
	Total	1103.48	7.65

Source: PXIL

Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, AUGUST 2023

Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	10.06	9.75
2	Day Ahead Contingency Contracts	1012.90	7.71
3	Daily Contracts	113.44	6.15
4	Any Day Single Sided Contracts	241.90	7.19
	Total	1378.30	7.50

Source: HPX

Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, AUGUST 2023

Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	78.85	6.54
2	Monthly Contracts	3.72	6.20
	Total	82.57	6.53

Source: IEX

Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, AUGUST 2023

Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	29.44	6.80
	Total	29.44	6.80

Source: PXIL

Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, AUGUST 2023

Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	0.04	10.00
2	Day Ahead Contingency Contracts	78.83	6.58
	Total	78.87	6.58

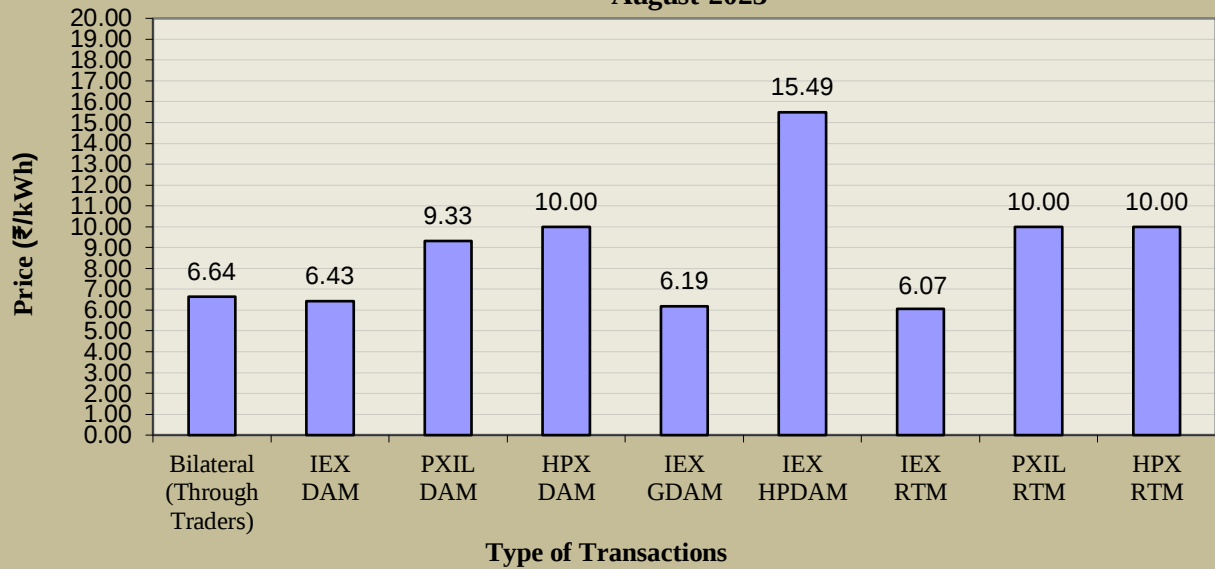
Source: HPX

Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF HPX, AUGUST 2023

Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	79.39	16.81
2	Day Ahead Contingency Contracts	72.74	15.68
3	Daily Contracts	64.00	14.00
	Total	216.13	15.60

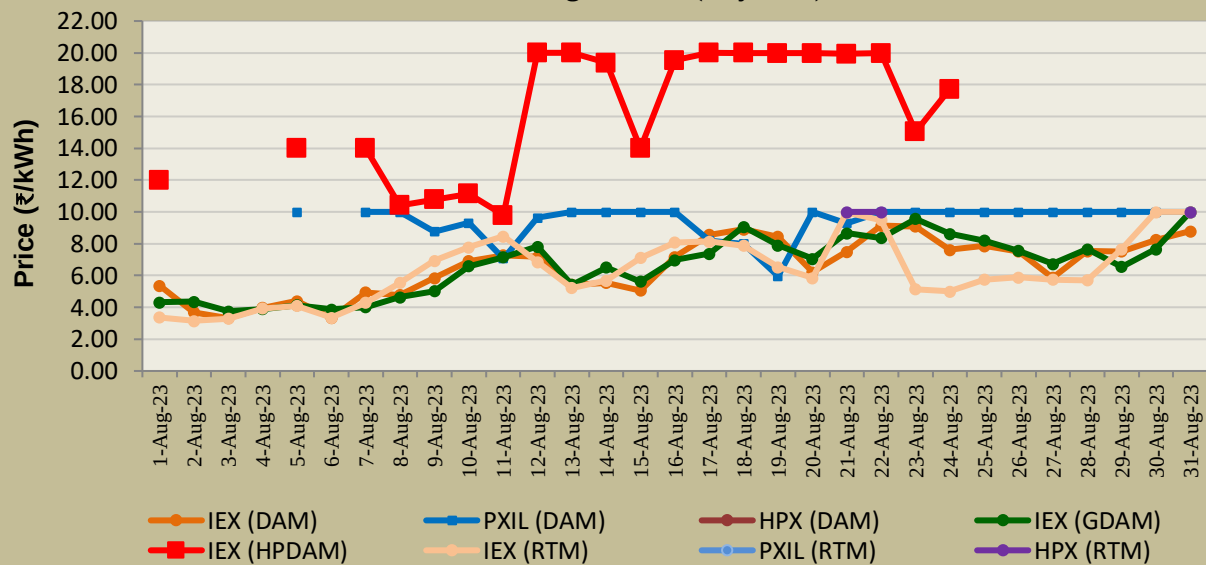
Source: HPX

Figure-6: Weighted Average Price of Short-term Transactions of Electricity, August 2023



Note: No electricity was transacted in G-DAM of PXIL and HPX during August 2023

Figure-7: Weighted Average Price of Short-term Transactions of Electricity, August 2023 (Day-wise)



Note: No electricity was transacted in G-DAM of PXIL and HPX during August 2023

Table-16: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, AUGUST 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
HIMACHAL PRADESH	955.84	7.77
KARNATAKA	745.41	6.06
TEESTA HEP	721.45	5.87
MP	684.84	5.57
SIMHAPURI	673.19	5.48
JINDAL STAGE-II	502.85	4.09
RAJASTHAN	489.59	3.98
JINDAL POWER	437.94	3.56
ARTPP	410.71	3.34
GUJARAT	391.43	3.18
MAHARASHTRA	369.81	3.01
TAMIL NADU	342.12	2.78
RKM POWER	329.30	2.68
ESSAR POWER	310.57	2.53
ANDHRA PRADESH	270.50	2.20
NEEPCO STATIONS	245.85	2.00
DB POWER	233.69	1.90
JAYPEE NIGRIE	218.03	1.77
ADHUNIK POWER LTD	211.94	1.72
JITPL	179.76	1.46
UTTARAKHAND	172.16	1.40
AHEJ4L_SOLAR	168.92	1.37
J & K	165.54	1.35
NTPC STATIONS-NR	156.58	1.27
SKS POWER	155.66	1.27
RPREL	152.23	1.24
AHEJ4L_WIND	144.26	1.17
SHREE CEMENT	138.71	1.13
MEGHALAYA	132.83	1.08
COASTGEN	132.60	1.08
KERALA	130.27	1.06
DVC	120.38	0.98
REGL	118.37	0.96
ODISHA	98.96	0.80
SEMBCORP	95.97	0.78
KOLYAT_SLR	85.25	0.69
DAGACHU	77.62	0.63
DIKCHU HEP	72.84	0.59
AD HYDRO	69.81	0.57
JHABUA POWER_MP	64.50	0.52
KARCHAM WANGTOO	64.38	0.52
ACBIL	60.75	0.49
ARUNACHAL PRADESH	60.52	0.49
GMR KAMALANGA	58.73	0.48
UTTAR PRADESH	55.20	0.45
RGPPL	53.66	0.44
WEST BENGAL	51.92	0.42
IL&FS	47.07	0.38
SIKKIM	47.01	0.38
NLC	44.19	0.36
CONTINNUM PT	41.13	0.33
DHARIWAL POWER	38.35	0.31
RENEW_SR_SLR	38.16	0.31
GOA	37.24	0.30

SAINJ HEP	34.89	0.28
TELANGANA	34.42	0.28
PUNJAB	34.08	0.28
DELHI	34.02	0.28
NTPC STATIONS-SR	29.23	0.24
NTPC STATIONS-WR	26.38	0.21
OSTRO Hiriyur	26.31	0.21
TEHRI	24.68	0.20
CHHATTISGARH	24.61	0.20
MARUTI COAL	21.64	0.18
SINGOLI BHATWARI HEP	21.04	0.17
SORANG HEP	18.99	0.15
RENERGY5_WIND	17.90	0.15
SB_SLR	16.16	0.13
MANIPUR	14.48	0.12
TRN ENERGY	13.44	0.11
ONGC PALATANA	9.36	0.08
BIHAR	7.31	0.06
TASHIDENG HEP	3.14	0.03
INOX_BHUJ	2.49	0.02
NAGALAND	2.07	0.02
JHARKHAND	0.65	0.01
JORETHANG	0.50	0.004
DD&DNH	0.36	0.003
EMCO	0.23	0.002
LANCO BUDHIL	0.04	0.0003
Total	12295.02	100.00
Volume Sold by top 5 Regional Entities	3780.73	30.75

Table-17: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, AUGUST 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	2184.53	17.77
HARYANA	1604.46	13.05
TAMIL NADU	1014.06	8.25
ANDHRA PRADESH	976.83	7.94
TELANGANA	927.21	7.54
UTTAR PRADESH	907.43	7.38
DELHI	882.92	7.18
MAHARASHTRA	743.89	6.05
RAJASTHAN	554.13	4.51
KERALA	434.53	3.53
WEST BENGAL	387.17	3.15
KARNATAKA	251.07	2.04
AMPS Hazira	218.89	1.78
GUJARAT	201.70	1.64
ODISHA	183.32	1.49
JHARKHAND	161.52	1.31
DD&DNH	103.32	0.84
ASSAM	93.22	0.76
MP	77.93	0.63
CHHATTISGARH	73.59	0.60
GOA	66.78	0.54
UTTARAKHAND	55.68	0.45
BALCO	55.05	0.45
DVC	50.95	0.41
HIMACHAL PRADESH	33.05	0.27
BIHAR	31.25	0.25
SIKKIM	12.94	0.11
MEGHALAYA	5.83	0.05
SINGOLI BHATWARI HEP	1.74	0.01
TOTAL	12295.02	100.00
Volume Purchased by top 5 Regional Entities	6707.10	54.55

Table-18: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
UTTAR PRADESH	447.11	11.47
DELHI	312.37	8.01
NEPAL(NVVN)	269.61	6.92
MP	262.41	6.73
BIHAR	224.13	5.75
CHHATTISGARH	212.99	5.46
HIMACHAL PRADESH	130.98	3.36
DB POWER	122.00	3.13
PUNJAB	117.72	3.02
DCPP	116.46	2.99
MB POWER	111.67	2.86
MAHARASHTRA	108.58	2.79
ADANI_WIND	80.55	2.07
TAMIL NADU	71.92	1.84
HARYANA	62.59	1.61
KARNATAKA	62.48	1.60
GUJARAT	62.11	1.59
KARCHAM WANGTOO	61.17	1.57
CHANDIGARH	54.71	1.40
SEMBICORP	54.56	1.40
TELANGANA	48.06	1.23
NTPC STATIONS-NR	41.21	1.06
JAYPEE NIGRIE	41.17	1.06
SAINJ HEP	40.38	1.04
ANDHRA PRADESH	36.17	0.93
PONDICHERRY	35.49	0.91
TEESTA HEP	35.11	0.90
JINDAL STAGE-II	34.95	0.90
JITPL	34.06	0.87
AD HYDRO	33.52	0.86
REGL	30.63	0.79
ACBIL	30.44	0.78
JINDAL POWER	28.44	0.73
ESSAR POWER	25.64	0.66
ODISHA	25.24	0.65
SHREE CEMENT	23.63	0.61
JHARKHAND	23.29	0.60
UTTARAKHAND	23.23	0.60
RAJASTHAN	22.66	0.58
ARTPP	21.82	0.56
MEGHALAYA	21.56	0.55
SKS POWER	21.15	0.54
ASSAM	21.05	0.54
WEST BENGAL	18.65	0.48
ARUNACHAL PRADESH	18.45	0.47
DVC	16.03	0.41
RENEW_SR_SLR	15.30	0.39
EMCO	14.33	0.37

NTPC STATIONS-SR	13.73	0.35
J & K	12.37	0.32
MIZORAM	12.11	0.31
CHUZACHEN HEP	11.98	0.31
ASEJTL_SLR	11.61	0.30
SIMHAPURI	10.84	0.28
IL&FS	10.03	0.26
ONGC PALATANA	8.55	0.22
MARUTI COAL	8.54	0.22
JHABUA POWER_MP	8.38	0.21
RKM POWER	7.61	0.20
DHARIWAL POWER	6.95	0.18
NAGALAND	6.92	0.18
LANCO BUDHIL	6.27	0.16
NTPC STATIONS-NER	6.08	0.16
DIKCHU HEP	4.68	0.12
NEEPCO STATIONS	4.10	0.11
SINGOLI BHATWARI HEP	3.75	0.10
GOA	3.68	0.09
OSTRO Hiriyur	2.73	0.07
KERALA	2.33	0.06
NTPC STATIONS-ER	2.02	0.05
MANIPUR	1.14	0.03
IGSTPS	0.97	0.02
GMR KAMALANGA	0.96	0.02
MTPS	0.79	0.02
SIKKIM	0.36	0.01
ADHUNIK POWER LTD	0.35	0.01
RENERGY5_WIND	0.20	0.01
SB_SLR	0.12	0.003
NTPC STATIONS-WR	0.08	0.002
INOX_BHUJ	0.00	0.0001
Total	3898.01	100.00
Volume sold by top 5 Regional Entities	1515.63	38.88

Table-19: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
WEST BENGAL	729.58	18.72
ANDHRA PRADESH	491.51	12.61
TELANGANA	485.91	12.47
GUJARAT	452.57	11.61
MAHARASHTRA	370.76	9.51
RAJASTHAN	302.72	7.77
KARNATAKA	220.64	5.66
TAMIL NADU	172.84	4.43
UTTAR PRADESH	155.05	3.98
KERALA	97.51	2.50
HARYANA	66.77	1.71
ASSAM	53.41	1.37
DD&DNH	50.08	1.28
MP	49.37	1.27
ODISHA	38.57	0.99
CHHATTISGARH	25.80	0.66
DELHI	22.53	0.58
PUNJAB	19.78	0.51
JHARKHAND	18.59	0.48
AMPS Hazira	16.24	0.42
MEGHALAYA	13.95	0.36
NCR ALLAHABAD	12.74	0.33
DVC	8.98	0.23
UTTARAKHAND	7.56	0.19
BIHAR	5.38	0.14
GOA	4.27	0.11
HIMACHAL PRADESH	2.84	0.07
BALCO	0.96	0.02
TRIPURA	0.92	0.02
NEP	0.11	0.003
CHANDIGARH	0.06	0.002
PONDICHERY	0.002	0.00004
TOTAL	3898.01	100.00
Volume purchased by top 5 Regional Entities	2530.32	64.91

Table-20: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
KARNATAKA	28.98	17.81
J & K	26.94	16.56
MAHARASHTRA	16.62	10.21
ANDHRA PRADESH	12.78	7.85
SB_SLR	12.02	7.39
OSTRO Hiriyur	11.87	7.30
RENEW_SR_SLR	11.50	7.07
SINGOLI BHATWARI HEP	9.75	5.99
RENERGY5_WIND	7.24	4.45
RAJASTHAN	4.95	3.04
SIKKIM	4.68	2.88
NTPC STATIONS-SR	4.40	2.71
HIMACHAL PRADESH	3.79	2.33
INOX_BHUJ	2.84	1.74
MP	1.96	1.21
UTTAR PRADESH	1.56	0.96
CONTINNUM PT	0.52	0.32
DELHI	0.30	0.18
Total	162.71	100.00
Volume sold by top 5 Regional Entities	97.34	59.83

Table-21: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
AMPS Hazira	25.28	15.54
DVC	21.74	13.36
MAHARASHTRA	20.81	12.79
PUNJAB	10.77	6.62
KERALA	7.95	4.89
TAMIL NADU	7.82	4.81
UTTAR PRADESH	7.26	4.46
BIHAR	6.96	4.28
GOA	6.82	4.19
BALCO	6.26	3.84
KARNATAKA	5.92	3.64
JHARKHAND	5.85	3.59
GUJARAT	5.62	3.45
NCR ALLAHABAD	5.57	3.43
MP	3.45	2.12
DELHI	3.32	2.04
HARYANA	3.22	1.98
TELANGANA	2.62	1.61
ODISHA	2.36	1.45
ANDHRA PRADESH	1.70	1.04
DD&DNH	0.88	0.54
HIMACHAL PRADESH	0.46	0.28
MEGHALAYA	0.05	0.03
TOTAL	162.71	100.00
Volume purchased by top 5 Regional Entities	86.54	53.19

Table-22: VOLUME OF ELECTRICITY SOLD IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
RGPPL_IR	3.60	85.05
GUJARAT	0.44	10.35
IL&FS	0.11	2.55
TAMIL NADU	0.09	2.04
TOTAL	4.23	100.00
Volume sold by top 5 Regional Entities	4.23	100.00

Table-23: VOLUME OF ELECTRICITY PURCHASED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
ANDHRA PRADESH	3.00	70.88
TAMIL NADU	0.76	17.84
MEGHALAYA	0.42	9.84
CHHATTISGARH	0.06	1.44
TOTAL	4.23	100.00
Volume purchased by top 5 Regional Entities	4.23	100.00

Table-24: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, AUGUST 2023

Name of the Entity	Volume of Sale (MUs)	% of Volume
MP	812.85	29.67
BIHAR	239.38	8.74
ODISHA	135.09	4.93
DELHI	124.40	4.54
RAJASTHAN	118.52	4.33
CHHATTISGARH	116.46	4.25
J & K	97.05	3.54
HIMACHAL PRADESH	95.45	3.48
UTTAR PRADESH	94.97	3.47
MAHARASHTRA	80.42	2.94
WEST BENGAL	66.80	2.44
ANDHRA PRADESH	54.10	1.97
PUNJAB	48.70	1.78
NTPC STATIONS-NR	47.85	1.75
TAMIL NADU	46.43	1.69
JHARKHAND	43.63	1.59
ASSAM	34.65	1.26
GUJARAT	30.25	1.10
NTPC STATIONS-WR	28.75	1.05
KARNATAKA	23.67	0.86
TELANGANA	23.39	0.85
UTTARAKHAND	23.02	0.84
MANIPUR	22.34	0.82
HARYANA	22.32	0.81
STERLITE	21.37	0.78
MB POWER	18.86	0.69
NETCL VALLUR	18.62	0.68
ADHUNIK POWER LTD	16.46	0.60
TRIPURA	16.36	0.60
PONDICHERRY	11.40	0.42
MEENAKSHI	11.39	0.42
RKM POWER	10.84	0.40
TRN ENERGY	10.81	0.39
ESSAR POWER	9.57	0.35
DVC	9.18	0.34
DD&DNH	9.13	0.33
LANKO KONDAPALLI	8.79	0.32
LOKTAK	8.71	0.32
ACBIL	8.49	0.31
JINDAL STAGE-II	7.40	0.27
IGSTPS	7.33	0.27
GOA	6.54	0.24
NEEPCO STATIONS	6.44	0.24
SASAN UMPP	6.14	0.22
ARUNACHAL PRADESH	6.06	0.22
AD HYDRO	5.57	0.20
SHREE CEMENT	5.49	0.20
JHABUA POWER_MP	4.54	0.17

SINGOLI BHATWARI HEP	4.33	0.16
JINDAL POWER	4.02	0.15
SIKKIM	3.78	0.14
OPGC	3.75	0.14
SKS POWER	3.33	0.12
NLC	3.32	0.12
MTPS	3.24	0.12
ARTPP	3.23	0.12
SEMBCORP	3.21	0.12
RSTPS_FSPP	2.95	0.11
NAGALAND	2.94	0.11
RANGANADI HEP	2.87	0.10
DCPP	2.68	0.10
MARUTI COAL	2.54	0.09
KERALA	2.53	0.09
TEESTA HEP	2.14	0.08
CHUZACHEN HEP	1.91	0.07
SORANG HEP	1.48	0.05
EMCO	1.44	0.05
DB POWER	1.32	0.05
KARCHAM WANGTOO	1.28	0.05
REGL	1.26	0.05
NEPAL(NVVN)	0.79	0.03
MEGHALAYA	0.69	0.03
SAINJ HEP	0.58	0.02
CHANDIGARH	0.57	0.02
BALCO	0.55	0.02
DHARIWAL POWER	0.43	0.02
RENEW_SR_SLR	0.26	0.01
JAYPEE NIGRIE	0.15	0.01
MIZORAM	0.07	0.003
NTPC STATIONS-SR	0.07	0.003
JITPL	0.07	0.002
LANCO BUDHIL	0.06	0.002
DAGACHU	0.02	0.001
Total	2739.81	100.00
Volume sold by top 5 Regional Entities	1430.24	52.20

Table-25: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, AUGUST 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
TELANGANA	571.65	20.86
KARNATAKA	290.09	10.59
ANDHRA PRADESH	263.14	9.60
KERALA	236.70	8.64
RAJASTHAN	173.51	6.33
MAHARASHTRA	173.50	6.33
WEST BENGAL	153.09	5.59
UTTAR PRADESH	152.30	5.56
TAMIL NADU	105.99	3.87
ODISHA	89.14	3.25
HARYANA	87.63	3.20
PUNJAB	82.37	3.01
GUJARAT	73.02	2.67
DVC	40.07	1.46
DELHI	33.93	1.24
ASSAM	31.92	1.16
JHARKHAND	26.08	0.95
CHHATTISGARH	21.67	0.79
UTTARAKHAND	19.72	0.72
DD&DNH	18.19	0.66
AMPS Hazira	17.41	0.64
BIHAR	15.04	0.55
MP	14.32	0.52
BALCO	10.91	0.40
NCR ALLAHABAD	9.15	0.33
HIMACHAL PRADESH	8.06	0.29
MEGHALAYA	4.37	0.16
JINDAL POWER	3.11	0.11
ARUNACHAL PRADESH	2.95	0.11
TRIPURA	1.96	0.07
DCPP	1.85	0.07
GOA	1.40	0.05
MANIPUR	1.01	0.04
NTPC STATIONS-WR	0.87	0.03
SIKKIM	0.82	0.03
SKS POWER	0.75	0.03
SAINJ HEP	0.60	0.02
RGPPL_IR	0.49	0.02
SINGOLI BHATWARI HEP	0.29	0.01
REGL	0.29	0.01
JHABUA POWER_MP	0.18	0.01
CHANDIGARH	0.15	0.01
MARUTI COAL	0.06	0.002
ACBIL	0.04	0.001
PONDICHERRY	0.03	0.001
JINDAL STAGE-II	0.01	0.0004
TOTAL	2739.81	100.00
Volume purchased by top 5 Regional Entities	1535.10	56.03

Table-26: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), AUGUST 2023		
S. No.	Name of the Entity	Total volume of net short-term transactions of electricity*
1	PUNJAB	2096.95
2	TELANGANA	1881.51
3	HARYANA	1677.19
4	ANDHRA PRADESH	1362.64
5	WEST BENGAL	1132.47
6	TAMIL NADU	840.92
7	MAHARASHTRA	733.53
8	KERALA	641.56
9	UTTAR PRADESH	623.21
10	DELHI	471.61
11	RAJASTHAN	394.63
12	AMPS Hazira	277.82
13	GUJARAT	248.67
14	DD&DNH	162.99
15	JHARKHAND	144.47
16	ASSAM	122.86
17	BALCO	72.63
18	ODISHA	54.11
19	GOA	31.81
20	NCR ALLAHABAD	27.46
21	NEP	0.11
22	JORETHANG	-0.50
23	NTPC STATIONS-ER	-2.02
24	RANGANADI HEP	-2.87
25	RSTPS_FSPP	-2.95
26	RGPPL_IR	-3.11
27	TASHIDENG HEP	-3.14
28	OPGC	-3.75
29	MTPS	-4.03
30	INOX_BHUJ	-5.33
31	NTPC STATIONS-NER	-6.08
32	SASAN UMPP	-6.14
33	LANCO BUDHIL	-6.37
34	IGSTPS	-8.30
35	LOKTAK	-8.71
36	LANKO KONDAPALLI	-8.79
37	MEENAKSHI	-11.39
38	ASEJTL_SLR	-11.61
39	NAGALAND	-11.93
40	MIZORAM	-12.18
41	TRIPURA	-13.48
42	CHUZACHEN HEP	-13.89
43	EMCO	-16.01
44	ONGC PALATANA	-17.91
45	NETCL VALLUR	-18.62
46	SORANG HEP	-20.47
47	STERLITE	-21.37
48	DVC	-23.85
49	TRN ENERGY	-24.25
50	TEHRI	-24.68
51	REENERGY5_WIND	-25.34
52	SB_SLR	-28.31
53	MARUTI COAL	-32.66
54	SINGOLI BHATWARI HEP	-36.84
55	MANIPUR	-36.95
56	OSTRO Hiriyur	-40.91
57	CONTINNUM PT	-41.66
58	SIKKIM	-42.08
59	DHARIWAL POWER	-45.73
60	PONDICHERRY	-46.86
61	NTPC STATIONS-SR	-47.43
62	NLC	-47.51

63	RGPPL	-53.66
64	NTPC STATIONS-WR	-54.32
65	CHANDIGARH	-55.07
66	IL&FS	-57.21
67	GMR KAMALANGA	-59.69
68	RENEW_SR_SLR	-65.21
69	SAINJ HEP	-75.25
70	JHABUA POWER_MP	-77.25
71	DIKCHU HEP	-77.52
72	DAGACHU	-77.64
73	ADANI_WIND	-80.55
74	ARUNACHAL PRADESH	-82.09
75	KOLYAT_SLR	-85.25
76	KARNATAKA	-92.81
77	ACBIL	-99.64
78	AD HYDRO	-108.89
79	DCPP	-117.28
80	KARCHAM WANGTOO	-126.83
81	MEGHALAYA	-130.46
82	MB POWER	-130.53
83	COASTGEN	-132.60
84	UTTARAKHAND	-135.44
85	AHEJ4L_WIND	-144.26
86	REGL	-149.96
87	RPREL	-152.23
88	SEMBCORP	-153.74
89	SHREE CEMENT	-167.83
90	AHEJ4L_SOLAR	-168.92
91	SKS POWER	-179.40
92	JITPL	-213.88
93	ADHUNIK POWER LTD	-228.75
94	CHHATTISGARH	-232.93
95	NTPC STATIONS-NR	-245.64
96	NEEPCO STATIONS	-256.39
97	JAYPEE NIGRIE	-259.35
98	NEPAL(NVVN)	-270.40
99	J & K	-301.90
100	ESSAR POWER	-345.78
101	RKM POWER	-347.75
102	DB POWER	-357.01
103	BIHAR	-412.19
104	ARTPP	-435.76
105	JINDAL POWER	-467.30
106	JINDAL STAGE-II	-545.19
107	SIMHAPURI	-684.03
108	TEESTA HEP	-758.69
109	HIMACHAL PRADESH	-1141.66
110	MP	-1616.98
* 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		

Table-27: DETAILS OF CONGESTION IN POWER EXCHANGES, AUGUST 2023

	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	IEX	PXIL	HPX
1	Unconstrained Cleared Volume (MUs)	3881.41	16.34	0.27	162.71	0.00	0.00	4.23	2738.67	0.63	1.13
2	Actual Cleared Volume and hence scheduled (MUs)	3881.41	16.34	0.27	162.71	0.00	0.00	4.23	2738.05	0.63	1.13
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.62	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
5	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	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%	0.17%	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%	20.00%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	40.00%	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%

* This power would have been scheduled had there been no congestion

Source: IEX, PXIL, HPX & NLDC

**Table-28: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE) (MUs),
AUGUST 2023**

Date	Bilateral		Day Ahead Market [#]			Green Day Ahead Market [#]			High Price DAM [#]	Real Time Market [#]			Total Electricity Generation (MU) *
	Through Traders and PXs**	Direct	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	IEX	PXIL	HPX	
1-Aug-23	198.80	116.26	145.05	0.00	0.00	6.24	0.00	0.00	0.00	72.05	0.00	0.00	4061.67
2-Aug-23	188.79	120.86	120.40	0.00	0.00	8.48	0.00	0.00	0.00	95.31	0.00	0.00	3959.79
3-Aug-23	197.24	118.28	107.47	0.00	0.00	8.95	0.00	0.00	0.00	117.15	0.00	0.00	4036.05
4-Aug-23	212.82	116.72	136.69	0.00	0.00	7.05	0.00	0.00	0.00	102.93	0.00	0.00	4169.60
5-Aug-23	214.93	118.41	153.66	0.47	0.00	7.00	0.00	0.00	0.00	85.89	0.00	0.00	4195.50
6-Aug-23	219.23	117.44	123.90	0.00	0.00	8.32	0.00	0.00	0.00	99.20	0.00	0.00	3948.14
7-Aug-23	238.90	125.11	142.37	0.25	0.00	6.70	0.00	0.00	0.01	99.07	0.00	0.00	4061.28
8-Aug-23	246.62	120.38	140.95	0.15	0.00	6.06	0.00	0.00	0.01	99.30	0.00	0.00	4270.98
9-Aug-23	247.95	118.80	143.56	2.06	0.00	5.45	0.00	0.00	0.02	99.14	0.00	0.00	4422.52
10-Aug-23	267.06	119.03	142.53	3.39	0.00	5.26	0.00	0.00	0.02	77.77	0.00	0.00	4541.72
11-Aug-23	270.97	119.51	145.61	0.44	0.00	3.70	0.00	0.00	0.02	85.73	0.00	0.00	4654.45
12-Aug-23	285.21	124.95	121.57	0.23	0.00	4.55	0.00	0.00	0.06	85.97	0.00	0.00	4509.08
13-Aug-23	236.07	125.00	129.88	0.16	0.00	5.80	0.00	0.00	0.01	92.45	0.00	0.00	4343.76
14-Aug-23	255.58	127.20	145.46	0.04	0.00	4.69	0.00	0.00	0.00	82.92	0.00	0.00	4527.33
15-Aug-23	234.30	119.25	143.90	0.24	0.00	5.76	0.00	0.00	0.00	105.95	0.00	0.00	4495.66
16-Aug-23	281.82	116.82	139.49	0.96	0.00	4.42	0.00	0.00	0.00	72.84	0.00	0.00	4648.06
17-Aug-23	292.63	116.32	126.13	0.40	0.00	4.10	0.00	0.00	0.02	73.66	0.00	0.00	4649.51
18-Aug-23	310.48	119.90	120.21	0.45	0.00	3.26	0.00	0.00	0.05	94.77	0.00	0.00	4607.18
19-Aug-23	299.31	125.15	124.46	0.67	0.00	4.42	0.00	0.00	0.06	98.85	0.00	0.00	4505.21
20-Aug-23	259.38	120.63	116.24	0.13	0.00	5.66	0.00	0.00	0.04	90.47	0.00	0.00	4468.02
21-Aug-23	306.84	119.83	117.68	0.48	0.00	5.77	0.00	0.00	0.05	76.13	0.00	0.09	4646.96
22-Aug-23	330.82	120.96	112.01	0.35	0.00	4.20	0.00	0.00	0.08	67.18	0.00	0.97	4684.52
23-Aug-23	347.30	127.90	76.23	0.35	0.00	3.00	0.00	0.00	3.64	135.28	0.00	0.00	4401.75
24-Aug-23	322.70	128.50	110.35	0.81	0.00	8.25	0.00	0.00	0.15	105.32	0.00	0.00	4353.76
25-Aug-23	321.06	117.00	119.50	1.10	0.00	3.48	0.00	0.00	0.00	101.95	0.00	0.00	4477.85
26-Aug-23	337.97	119.23	122.63	0.45	0.00	2.93	0.00	0.00	0.00	88.08	0.00	0.00	4520.83
27-Aug-23	307.91	117.73	124.19	0.83	0.00	4.19	0.00	0.00	0.00	84.61	0.00	0.00	4416.03
28-Aug-23	334.33	114.28	120.28	0.50	0.00	4.10	0.00	0.00	0.00	76.71	0.00	0.00	4486.25
29-Aug-23	337.38	113.23	105.87	0.63	0.00	4.07	0.00	0.00	0.00	71.89	0.00	0.00	4734.92
30-Aug-23	333.78	109.85	111.71	0.41	0.00	3.49	0.00	0.00	0.00	45.50	0.00	0.00	4823.25
31-Aug-23	347.86	114.45	91.39	0.42	0.27	3.36	0.00	0.00	0.00	53.98	0.63	0.08	4883.14
Total	8586.06	3708.96	3881.41	16.34	0.27	162.71	0.00	0.00	4.23	2738.05	0.63	1.13	137504.77

Source: NLDC

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

** The volume of bilateral through PXs represents the volume through term-ahead contracts.

Scheduled volume of all the bid areas.

Table-29(a): PRICE OF DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), AUGUST 2023												
Market Segment	Day Ahead Market of IEX			Day Ahead Market of PXIL			Day Ahead Market of HPX			High Price Day Ahead Market of IEX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Aug-23	2.50	10.00	5.36	-	-	-	-	-	-	12.00	12.00	12.00
2-Aug-23	2.08	8.50	3.69	-	-	-	-	-	-	-	-	-
3-Aug-23	2.00	6.03	3.33	-	-	-	-	-	-	-	-	-
4-Aug-23	2.19	9.95	3.98	-	-	-	-	-	-	-	-	-
5-Aug-23	2.67	10.00	4.40	10.00	10.00	10.00	-	-	-	14.00	14.00	14.00
6-Aug-23	1.98	5.51	3.32	-	-	-	-	-	-	-	-	-
7-Aug-23	2.15	10.00	4.94	10.00	10.00	10.00	-	-	-	14.00	14.00	14.00
8-Aug-23	2.38	10.00	4.78	10.00	10.00	10.00	-	-	-	10.40	10.40	10.40
9-Aug-23	3.07	10.00	5.84	5.00	10.00	8.76	-	-	-	10.40	14.00	10.77
10-Aug-23	3.58	10.00	6.90	5.33	10.00	9.30	-	-	-	10.50	20.00	11.13
11-Aug-23	3.91	10.00	7.27	5.49	10.00	7.08	-	-	-	9.80	9.80	9.80
12-Aug-23	3.97	10.00	7.17	5.49	10.00	9.62	-	-	-	20.00	20.00	20.00
13-Aug-23	2.97	10.00	5.43	10.00	10.00	10.00	-	-	-	20.00	20.00	20.00
14-Aug-23	3.37	10.00	5.54	10.00	10.00	10.00	-	-	-	14.00	20.00	19.37
15-Aug-23	2.29	10.00	5.06	10.00	10.00	10.00	-	-	-	14.00	14.00	14.00
16-Aug-23	4.77	10.00	7.17	10.00	10.00	10.00	-	-	-	14.00	20.00	19.53
17-Aug-23	5.00	10.00	8.56	5.49	10.00	8.20	-	-	-	20.00	20.00	20.00
18-Aug-23	5.62	10.00	8.90	5.49	10.00	8.00	-	-	-	20.00	20.00	20.00
19-Aug-23	5.14	10.00	8.45	5.49	6.47	5.96	-	-	-	14.00	20.00	19.98
20-Aug-23	3.42	10.00	6.22	10.00	10.00	10.00	-	-	-	14.00	20.00	19.97
21-Aug-23	4.50	10.00	7.50	7.50	10.00	9.28	-	-	-	14.00	20.00	19.93
22-Aug-23	6.00	10.00	9.14	10.00	10.00	10.00	-	-	-	14.00	20.00	19.97
23-Aug-23	5.72	10.00	9.08	10.00	10.00	10.00	-	-	-	14.00	20.00	15.04
24-Aug-23	3.93	10.00	7.63	10.00	10.00	10.00	-	-	-	15.00	18.50	17.71
25-Aug-23	4.00	10.00	7.86	10.00	10.00	10.00	-	-	-	-	-	-
26-Aug-23	3.93	10.00	7.52	10.00	10.00	10.00	-	-	-	-	-	-
27-Aug-23	2.77	10.00	5.86	10.00	10.00	10.00	-	-	-	-	-	-
28-Aug-23	4.10	10.00	7.53	10.00	10.00	10.00	-	-	-	-	-	-
29-Aug-23	4.16	10.00	7.51	10.00	10.00	10.00	-	-	-	-	-	-
30-Aug-23	4.71	10.00	8.24	10.00	10.00	10.00	-	-	-	-	-	-
31-Aug-23	5.00	10.00	8.79	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-
	1.98 [#]	10.00 [#]	6.43	5.00 [#]	10.00 [#]	9.33	10.00 [#]	10.00 [#]	10.00	9.80 [#]	20.00 [#]	15.49
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-29(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), AUGUST 2023									
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-Aug-23	2.64	10.00	4.33	-	-	-	-	-	-
2-Aug-23	2.50	10.00	4.36	-	-	-	-	-	-
3-Aug-23	1.83	9.00	3.76	-	-	-	-	-	-
4-Aug-23	3.00	8.00	3.89	-	-	-	-	-	-
5-Aug-23	2.86	8.00	4.13	-	-	-	-	-	-
6-Aug-23	2.50	6.50	3.87	-	-	-	-	-	-
7-Aug-23	2.50	7.00	4.02	-	-	-	-	-	-
8-Aug-23	3.00	10.00	4.63	-	-	-	-	-	-
9-Aug-23	3.80	10.00	5.02	-	-	-	-	-	-
10-Aug-23	4.10	10.00	6.59	-	-	-	-	-	-
11-Aug-23	5.00	10.00	7.15	-	-	-	-	-	-
12-Aug-23	4.10	10.00	7.82	-	-	-	-	-	-
13-Aug-23	2.87	10.00	5.41	-	-	-	-	-	-
14-Aug-23	4.00	10.00	6.52	-	-	-	-	-	-
15-Aug-23	3.00	10.00	5.62	-	-	-	-	-	-
16-Aug-23	3.51	10.00	6.97	-	-	-	-	-	-
17-Aug-23	4.50	10.00	7.37	-	-	-	-	-	-
18-Aug-23	7.00	10.00	9.07	-	-	-	-	-	-
19-Aug-23	5.27	10.00	7.91	-	-	-	-	-	-
20-Aug-23	4.31	10.00	7.06	-	-	-	-	-	-
21-Aug-23	5.60	10.00	8.65	-	-	-	-	-	-
22-Aug-23	6.00	10.00	8.36	-	-	-	-	-	-
23-Aug-23	8.00	10.00	9.57	-	-	-	-	-	-
24-Aug-23	5.29	10.00	8.63	-	-	-	-	-	-
25-Aug-23	4.30	10.00	8.21	-	-	-	-	-	-
26-Aug-23	4.50	10.00	7.55	-	-	-	-	-	-
27-Aug-23	4.10	10.00	6.74	-	-	-	-	-	-
28-Aug-23	5.00	10.00	7.67	-	-	-	-	-	-
29-Aug-23	4.10	10.00	6.55	-	-	-	-	-	-
30-Aug-23	5.00	10.00	7.65	-	-	-	-	-	-
31-Aug-23	10.00	10.00	10.00	-	-	-	-	-	-
	1.83[#]	10.00[#]	6.19	-	-	-	-	-	-
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-29(c): PRICE OF REAL TIME TRANSACTIONS (DAY-WISE) (₹/kWh), AUGUST 2023

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-Aug-23	1.00	5.55	3.37	-	-	-	-	-	-
2-Aug-23	0.99	5.00	3.16	-	-	-	-	-	-
3-Aug-23	1.66	5.60	3.28	-	-	-	-	-	-
4-Aug-23	2.00	7.50	3.92	-	-	-	-	-	-
5-Aug-23	1.92	6.50	4.09	-	-	-	-	-	-
6-Aug-23	1.52	5.82	3.35	-	-	-	-	-	-
7-Aug-23	1.90	10.00	4.30	-	-	-	-	-	-
8-Aug-23	2.60	10.00	5.54	-	-	-	-	-	-
9-Aug-23	3.25	10.00	6.93	-	-	-	-	-	-
10-Aug-23	4.68	10.00	7.78	-	-	-	-	-	-
11-Aug-23	4.95	10.00	8.45	-	-	-	-	-	-
12-Aug-23	2.73	10.00	6.86	-	-	-	-	-	-
13-Aug-23	2.22	10.00	5.21	-	-	-	-	-	-
14-Aug-23	3.29	10.00	5.69	-	-	-	-	-	-
15-Aug-23	3.06	10.00	7.12	-	-	-	-	-	-
16-Aug-23	3.60	10.00	8.08	-	-	-	-	-	-
17-Aug-23	3.84	10.00	8.15	-	-	-	-	-	-
18-Aug-23	4.25	10.00	7.88	-	-	-	-	-	-
19-Aug-23	2.92	10.00	6.53	-	-	-	-	-	-
20-Aug-23	2.42	10.00	5.84	-	-	-	-	-	-
21-Aug-23	8.00	10.00	9.95	-	-	-	10.00	10.00	10.00
22-Aug-23	0.50	10.00	9.49	-	-	-	10.00	10.00	10.00
23-Aug-23	2.10	10.00	5.14	-	-	-	-	-	-
24-Aug-23	3.06	10.00	5.00	-	-	-	-	-	-
25-Aug-23	3.16	10.00	5.75	-	-	-	-	-	-
26-Aug-23	2.90	10.00	5.89	-	-	-	-	-	-
27-Aug-23	3.00	10.00	5.74	-	-	-	-	-	-
28-Aug-23	1.90	10.00	5.70	-	-	-	-	-	-
29-Aug-23	4.73	10.00	7.65	-	-	-	-	-	-
30-Aug-23	10.00	10.00	10.00	-	-	-	-	-	-
31-Aug-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
	0.50[#]	10.00[#]	6.07	10.00[#]	10.00[#]	10.00	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-30: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE)
(MUs), AUGUST 2023**

Name of the Entity	Through Bilateral (Traders + PXs + Direct)			Through Power Exchanges (DAM + GDAM + HPDAM + RTM)			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	
PUNJAB	34.08	2184.53	2150.45	166.42	112.92	-53.50	2096.95
HARYANA	0.00	1604.46	1604.46	84.91	157.63	72.72	1677.19
RAJASTHAN	489.59	554.13	64.54	146.14	476.23	330.09	394.63
DELHI	34.02	882.92	848.91	437.07	59.77	-377.30	471.61
UTTAR PRADESH	55.20	907.43	852.23	543.63	314.61	-229.02	623.21
UTTARAKHAND	172.16	55.68	-116.48	46.25	27.28	-18.97	-135.44
HIMACHAL PRADESH	955.84	33.05	-922.79	230.23	11.36	-218.87	-1141.66
J & K	165.54	0.00	-165.54	136.36	0.00	-136.36	-301.90
CHANDIGARH	0.00	0.00	0.00	55.28	0.21	-55.07	-55.07
MP	684.84	77.93	-606.91	1077.22	67.15	-1010.07	-1616.98
MAHARASHTRA	369.81	743.89	374.08	205.62	565.07	359.45	733.53
GUJARAT	391.43	201.70	-189.73	92.80	531.21	438.40	248.67
CHHATTISGARH	24.61	73.59	48.98	329.45	47.54	-281.91	-232.93
GOA	37.24	66.78	29.54	10.22	12.49	2.27	31.81
DD&DNH	0.36	103.32	102.96	9.13	69.16	60.03	162.99
ANDHRA PRADESH	270.50	976.83	706.33	103.04	759.35	656.31	1362.64
KARNATAKA	745.41	251.07	-494.34	115.13	516.66	401.53	-92.81
KERALA	130.27	434.53	304.26	4.86	342.16	337.30	641.56
TAMIL NADU	342.12	1014.06	671.95	118.43	287.40	168.97	840.92
PONDICHERRY	0.00	0.00	0.00	46.89	0.03	-46.86	-46.86
TELANGANA	34.42	927.21	892.78	71.45	1060.18	988.72	1881.51
WEST BENGAL	51.92	387.17	335.25	85.45	882.67	797.22	1132.47
ODISHA	98.96	183.32	84.36	160.33	130.07	-30.26	54.11
BIHAR	7.31	31.25	23.95	463.51	27.38	-436.14	-412.19
JHARKHAND	0.65	161.52	160.87	66.92	50.52	-16.40	144.47
SIKKIM	47.01	12.94	-34.06	8.83	0.82	-8.01	-42.08
DVC	120.38	50.95	-69.43	25.21	70.79	45.58	-23.85
ARUNACHAL PRADESH	60.52	0.00	-60.52	24.51	2.95	-21.56	-82.09
ASSAM	0.00	93.22	93.22	55.70	85.33	29.64	122.86
MANIPUR	14.48	0.00	-14.48	23.48	1.01	-22.47	-36.95
MEGHALAYA	132.83	5.83	-127.00	22.25	18.79	-3.46	-130.46
MIZORAM	0.00	0.00	0.00	12.18	0.00	-12.18	-12.18
NAGALAND	2.07	0.00	-2.07	9.86	0.00	-9.86	-11.93
TRIPURA	0.00	0.00	0.00	16.36	2.88	-13.48	-13.48
NTPC STATIONS-NR	156.58	0.00	-156.58	89.06	0.00	-89.06	-245.64
NEP	0.00	0.00	0.00	0.00	0.11	0.11	0.11
TEHRI	24.68	0.00	-24.68	0.00	0.00	0.00	-24.68
AD HYDRO	69.81	0.00	-69.81	39.08	0.00	-39.08	-108.89
IGSTPS	0.00	0.00	0.00	8.30	0.00	-8.30	-8.30
KARCHAM WANGTOO	64.38	0.00	-64.38	62.45	0.00	-62.45	-126.83
SHREE CEMENT	138.71	0.00	-138.71	29.12	0.00	-29.12	-167.83
LANCO BUDHIL	0.04	0.00	-0.04	6.32	0.00	-6.32	-6.37
SORANG HEP	18.99	0.00	-18.99	1.48	0.00	-1.48	-20.47
SAINJ HEP	34.89	0.00	-34.89	40.96	0.60	-40.36	-75.25
SB_SLR	16.16	0.00	-16.16	12.15	0.00	-12.15	-28.31
ASEJTL_SLR	0.00	0.00	0.00	11.61	0.00	-11.61	-11.61
SINGOLI BHATWARI HEP	21.04	1.74	-19.30	17.83	0.29	-17.54	-36.84
AHEJ4L_WIND	144.26	0.00	-144.26	0.00	0.00	0.00	-144.26
AHEJ4L_SOLAR	168.92	0.00	-168.92	0.00	0.00	0.00	-168.92
NCR ALLAHABAD	0.00	0.00	0.00	0.00	27.46	27.46	27.46
RENEW_SR_SLR	38.16	0.00	-38.16	27.05	0.00	-27.05	-65.21
KOLYAT_SLR	85.25	0.00	-85.25	0.00	0.00	0.00	-85.25
NTPC STATIONS-WR	26.38	0.00	-26.38	28.82	0.87	-27.95	-54.32
JINDAL POWER	437.94	0.00	-437.94	32.46	3.11	-29.35	-467.30
ACBIL	60.75	0.00	-60.75	38.93	0.04	-38.89	-99.64
BALCO	0.00	55.05	55.05	0.55	18.13	17.58	72.63
RGPPL	53.66	0.00	-53.66	0.00	0.00	0.00	-53.66
DCPP	0.00	0.00	0.00	119.14	1.85	-117.28	-117.28

EMCO	0.23	0.00	-0.23	15.78	0.00	-15.78	-16.01
ESSAR POWER	310.57	0.00	-310.57	35.21	0.00	-35.21	-345.78
JINDAL STAGE-II	502.85	0.00	-502.85	42.35	0.01	-42.34	-545.19
DB POWER	233.69	0.00	-233.69	123.32	0.00	-123.32	-357.01
DHARIWAL POWER	38.35	0.00	-38.35	7.38	0.00	-7.38	-45.73
JAYPEE NIGRIE	218.03	0.00	-218.03	41.32	0.00	-41.32	-259.35
MB POWER	0.00	0.00	0.00	130.53	0.00	-130.53	-130.53
MARUTI COAL	21.64	0.00	-21.64	11.08	0.06	-11.02	-32.66
JHABUA POWER_MP	64.50	0.00	-64.50	12.92	0.18	-12.75	-77.25
SASAN UMPP	0.00	0.00	0.00	6.14	0.00	-6.14	-6.14
TRN ENERGY	13.44	0.00	-13.44	10.81	0.00	-10.81	-24.25
RKM POWER	329.30	0.00	-329.30	18.45	0.00	-18.45	-347.75
SKS POWER	155.66	0.00	-155.66	24.48	0.75	-23.73	-179.40
INOX_BHUJ	2.49	0.00	-2.49	2.84	0.00	-2.84	-5.33
REGL	118.37	0.00	-118.37	31.89	0.29	-31.60	-149.96
RPREL	152.23	0.00	-152.23	0.00	0.00	0.00	-152.23
AMPS Hazira	0.00	218.89	218.89	0.00	58.92	58.92	277.82
RGPPL_IR	0.00	0.00	0.00	3.60	0.49	-3.11	-3.11
ADANI WIND	0.00	0.00	0.00	80.55	0.00	-80.55	-80.55
CONTINNUM PT	41.13	0.00	-41.13	0.52	0.00	-0.52	-41.66
RENERGY5_WIND	17.90	0.00	-17.90	7.44	0.00	-7.44	-25.34
ARTPP	410.71	0.00	-410.71	25.06	0.00	-25.06	-435.76
MTPS	0.00	0.00	0.00	4.03	0.00	-4.03	-4.03
NTPC STATIONS-SR	29.23	0.00	-29.23	18.21	0.00	-18.21	-47.43
LANKO KONDAPALLI	0.00	0.00	0.00	8.79	0.00	-8.79	-8.79
SIMHAPURI	673.19	0.00	-673.19	10.84	0.00	-10.84	-684.03
MEENAKSHI	0.00	0.00	0.00	11.39	0.00	-11.39	-11.39
COASTGEN	132.60	0.00	-132.60	0.00	0.00	0.00	-132.60
IL&FS	47.07	0.00	-47.07	10.14	0.00	-10.14	-57.21
NLC	44.19	0.00	-44.19	3.32	0.00	-3.32	-47.51
SEMBCORP	95.97	0.00	-95.97	57.77	0.00	-57.77	-153.74
NETCL VALLUR	0.00	0.00	0.00	18.62	0.00	-18.62	-18.62
OSTRO Hiriya	26.31	0.00	-26.31	14.60	0.00	-14.60	-40.91
RSTPS_FSPP	0.00	0.00	0.00	2.95	0.00	-2.95	-2.95
NTPC STATIONS-ER	0.00	0.00	0.00	2.02	0.00	-2.02	-2.02
STERLITE	0.00	0.00	0.00	21.37	0.00	-21.37	-21.37
ADHUNIK POWER LTD	211.94	0.00	-211.94	16.81	0.00	-16.81	-228.75
CHUZACHEN HEP	0.00	0.00	0.00	13.89	0.00	-13.89	-13.89
GMR KAMALANGA	58.73	0.00	-58.73	0.96	0.00	-0.96	-59.69
JITPL	179.76	0.00	-179.76	34.12	0.00	-34.12	-213.88
TEESTA HEP	721.45	0.00	-721.45	37.24	0.00	-37.24	-758.69
DAGACHU	77.62	0.00	-77.62	0.02	0.00	-0.02	-77.64
JORETHANG	0.50	0.00	-0.50	0.00	0.00	0.00	-0.50
NEPAL(NVVN)	0.00	0.00	0.00	270.40	0.00	-270.40	-270.40
DIKCHU HEP	72.84	0.00	-72.84	4.68	0.00	-4.68	-77.52
TASHIDENG HEP	3.14	0.00	-3.14	0.00	0.00	0.00	-3.14
OPGC	0.00	0.00	0.00	3.75	0.00	-3.75	-3.75
NTPC STATIONS-NER	0.00	0.00	0.00	6.08	0.00	-6.08	-6.08
NEEPCO STATIONS	245.85	0.00	-245.85	10.54	0.00	-10.54	-256.39
RANGANADI HEP	0.00	0.00	0.00	2.87	0.00	-2.87	-2.87
ONGC PALATANA	9.36	0.00	-9.36	8.55	0.00	-8.55	-17.91
LOKTAK	0.00	0.00	0.00	8.71	0.00	-8.71	-8.71

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-31: VOLUME AND CHARGES UNDER DSM (DAY-WISE), AUGUST 2023				
Date	Volume (MU)	All India Grid Charges (₹/kWh)		
		Minimum	Maximum	Average
1-Aug-23	72.46	2.50	10.01	5.21
2-Aug-23	72.57	2.08	10.00	3.97
3-Aug-23	72.80	2.00	9.89	3.66
4-Aug-23	72.10	2.19	9.95	4.26
5-Aug-23	65.64	2.33	10.00	4.54
6-Aug-23	70.26	1.98	10.00	3.72
7-Aug-23	67.11	2.15	10.03	5.01
8-Aug-23	71.86	2.47	10.01	6.13
9-Aug-23	76.78	2.62	10.12	7.47
10-Aug-23	73.51	2.67	10.17	8.54
11-Aug-23	72.40	2.67	10.00	8.84
12-Aug-23	66.83	2.56	10.08	7.89
13-Aug-23	67.91	2.81	10.09	6.13
14-Aug-23	69.20	2.86	10.08	6.76
15-Aug-23	70.69	2.92	10.02	7.35
16-Aug-23	65.18	2.93	10.06	8.77
17-Aug-23	73.36	3.37	10.31	8.93
18-Aug-23	75.20	4.61	10.31	9.22
19-Aug-23	79.05	4.40	10.54	8.90
20-Aug-23	78.37	3.42	10.32	7.11
21-Aug-23	74.13	4.05	10.70	9.95
22-Aug-23	79.12	5.60	10.52	9.82
23-Aug-23	75.03	4.60	13.37	9.49
24-Aug-23	67.84	3.93	11.11	8.18
25-Aug-23	72.84	4.00	10.00	8.35
26-Aug-23	67.92	3.93	10.00	7.96
27-Aug-23	63.37	2.91	10.00	6.75
28-Aug-23	71.36	3.01	10.00	7.96
29-Aug-23	71.71	2.91	10.00	8.60
30-Aug-23	80.20	3.00	10.00	9.94
31-Aug-23	79.65	2.77	10.00	9.94
Total	2236.45	1.98[#]	13.37[#]	7.40
Source: NLDC				
[#] Maximum/Minimum in the month				

Table-32: VOLUME OF ELECTRICITY UNDER DRAWAL/ OVER INJECTION (EXPORTED) THROUGH DSM, AUGUST 2023

Name of the Entity	Volume of Under drawal/Over injection (MUs)	% of Volume
MP	122.19	5.81
RAJASTHAN	113.27	5.39
UTTAR PRADESH	105.35	5.01
GUJARAT	103.95	4.94
PUNJAB	87.56	4.16
MAHARASHTRA	86.94	4.13
J & K	72.01	3.42
CHHATTISGARH	60.20	2.86
NTPC STATIONS-WR	56.98	2.71
TAMIL NADU	56.29	2.68
HARYANA	56.02	2.66
DELHI	52.92	2.52
TELANGANA	49.98	2.38
BIHAR	48.61	2.31
ANDHRA PRADESH	47.46	2.26
KARNATAKA	46.98	2.23
NTPC STATIONS-NR	46.59	2.22
NHPC STATIONS	46.10	2.19
JHARKHAND	27.15	1.29
NTPC STATIONS-SR	26.47	1.26
NTPC STATIONS-ER	25.14	1.20
ODISHA	23.14	1.10
WEST BENGAL	22.80	1.08
AMPS Hazira	21.12	1.00
DVC	20.63	0.98
BBMB	16.20	0.77
NLC	15.92	0.76
HIMACHAL PRADESH	15.85	0.75
NEPAL(NVVN)	15.03	0.71
SASAN UMPP	15.01	0.71
NEEPCO STATIONS	14.92	0.71
UTTARAKHAND	13.90	0.66
NEP	12.29	0.58
TEESTA HEP	11.38	0.54
GIWEL_BHUJ	10.71	0.51
IGSTPS	10.48	0.50
JSW_RENEW_2	10.03	0.48
JINDAL POWER	8.32	0.40
PONDICHERRY	8.17	0.39
SKRPL	7.77	0.37
ASSAM	7.58	0.36
MEGHALAYA	7.46	0.35
JINDAL STAGE-II	7.22	0.34
GIWEL_TCN	6.95	0.33
SBESS	6.94	0.33
OSTRO	6.91	0.33
MAITHON POWER LTD	6.82	0.32
CHANDIGARH	6.73	0.32
NJPC	6.60	0.31
ASEJTL_SLR	6.52	0.31
ADANI_WIND	6.37	0.30
DD&DNH	6.33	0.30
RENEW_BHUJ	6.30	0.30
OSTRO Hiriya	6.29	0.30
RAMPUR HEP	6.19	0.29
MIZORAM	6.17	0.29
GOA	6.16	0.29
RENEW_BHACHAU	6.08	0.29
TRIPURA	6.02	0.29

DAGACHU	5.93	0.28
ORANGE_TCN	5.86	0.28
BETAM_TCN	5.82	0.28
ALFANAR_BHUJ	5.76	0.27
ESSAR POWER	5.53	0.26
TATA_ANTP	5.23	0.25
ADY1_PVGD	5.04	0.24
RPREL	5.03	0.24
AYANA_RP1	5.01	0.24
AVAADASN_SLR	4.94	0.24
ARUNACHAL PRADESH	4.69	0.22
NAGALAND	4.68	0.22
AZURE43_SLR	4.62	0.22
JAYPEE NIGRIE	4.61	0.22
DIKCHU HEP	4.53	0.22
SPRING_PUGALUR	4.52	0.21
FORTUM2_PVGD	4.51	0.21
AGEMPL BHUJ	4.51	0.21
RKM POWER	4.50	0.21
AYANA_NPKUNTA	4.44	0.21
BALCO	4.38	0.21
MYTRAH_TCN	4.32	0.21
NPGC	4.32	0.21
THAR1_SLR	4.29	0.20
ACME_SLR	4.29	0.20
MB POWER	4.21	0.20
ACME_HEERGARH	4.14	0.20
RENEWURJA_SLR	4.01	0.19
AVADARJHN_SLR	3.89	0.19
SEBMCORP	3.85	0.18
AVIKIRAN	3.84	0.18
SBG_NPK	3.84	0.18
TASHIDENG HEP	3.68	0.17
CLEAN_SLR	3.64	0.17
RAIL	3.63	0.17
MANIPUR	3.63	0.17
KARCHAM WANGTOO	3.63	0.17
TEHRI	3.62	0.17
AZURE41_SLR	3.60	0.17
MAHINDRA_RUMS	3.58	0.17
DB POWER	3.54	0.17
BARC	3.50	0.17
RSTPS_FSPP	3.50	0.17
SESP	3.38	0.16
SBSR_SLR	3.37	0.16
RENEW_SLR_BKN	3.34	0.16
SIKKIM	3.29	0.16
EDEN_SLR	3.29	0.16
ARERJL_SLR	3.28	0.16
INOX_BHUJ	3.27	0.16
LANKO_AMK	3.21	0.15
ARINSUM_RUMS	3.20	0.15
CLEANSR_SLR	3.20	0.15
APRAAVA	3.14	0.15
KOTESHWAR	3.13	0.15
YARROW_PVGD	3.12	0.15
RENEWSB	3.10	0.15
MSUPL_BHDL2	2.96	0.14
RENEW_SR_SLR	2.95	0.14
RENEWSW_SLR	2.92	0.14
NETRA WIND	2.88	0.14
ABC_BHDL2	2.88	0.14
JITPL	2.82	0.13

ACME_RUMS	2.77	0.13
NSPCL	2.77	0.13
NTPC STATIONS-NER	2.73	0.13
ESPL_RADHANESDA	2.52	0.12
SB_SLR	2.51	0.12
NTPC_ANTP	2.42	0.12
TATA_SLR	2.32	0.11
BRBCL, NABINAGAR	2.31	0.11
NETCL VALLUR	2.27	0.11
RENEWJH_SLR	2.24	0.11
AVAADA1_PVGD	2.23	0.11
KERALA	2.19	0.10
EMCO	2.15	0.10
RANGANADI HEP	2.03	0.10
TORRENT SOLARGEN	2.02	0.10
ADHUNIK POWER LTD	1.97	0.09
PARAM_PVGD	1.94	0.09
AD HYDRO	1.92	0.09
SB6_POKARAN	1.87	0.09
MRPL	1.87	0.09
GSECL_Radhanesda	1.85	0.09
AZURE_MAPLE_SLR	1.83	0.09
ACBIL	1.80	0.09
MSEPL	1.80	0.09
TPREL_RADHANESDA	1.77	0.08
AZURE_PVGD	1.71	0.08
NAPP	1.68	0.08
GIPCL_RADHANESDA	1.65	0.08
TATA_GREEN	1.63	0.08
AVAADA2_PVGD	1.63	0.08
CHUZACHEN HEP	1.61	0.08
AZURE34_SLR	1.53	0.07
ONGC PALATANA	1.48	0.07
GRT_JPL	1.40	0.07
FORTUM1_PVGD	1.28	0.06
NTPL	1.27	0.06
AZURE_SLR	1.26	0.06
KREDL_PVGD	1.25	0.06
SPRNG_NPKUNTA	1.24	0.06
JHABUA POWER_MP	1.24	0.06
GMR KAMALANGA	1.23	0.06
MTPS II	1.22	0.06
SKS POWER	1.18	0.06
BANGLADESH	1.16	0.05
DCPP	1.13	0.05
JORETHANG	1.12	0.05
GSECL P-II	1.12	0.05
CGPL	1.09	0.05
KSK MAHANADI	1.08	0.05
TRN ENERGY	1.06	0.05
Railways_ER ISTS	1.06	0.05
THERMAL POWERTECH	1.04	0.05
TEESTA STG3	1.00	0.05
POWERICA	1.00	0.05
KSMPL_SLR	0.98	0.05
AKSP_ANTP	0.93	0.04
SIMHAPURI	0.92	0.04
RAP C	0.89	0.04
SINGOLI BHATWARI HEP	0.86	0.04
ABSP_ANTP	0.82	0.04
AHSP_ANTP	0.81	0.04
RONGNICHU HEP	0.80	0.04
ARS_PVGD	0.78	0.04

DHARIWAL POWER	0.77	0.04
SHREE CEMENT	0.76	0.04
RGPPL	0.76	0.04
RENEW_PVGD	0.75	0.04
AKS_PVGD	0.74	0.04
SAINJ HEP	0.74	0.04
AZURE_ANTP	0.71	0.03
ADANI GREEN	0.70	0.03
SORANG HEP	0.67	0.03
TATA_PVGD	0.64	0.03
RENEW_SLR	0.63	0.03
PARE HEP	0.60	0.03
SRSSFPL	0.60	0.03
FRV_NPK	0.59	0.03
RANGIT HEP	0.58	0.03
RAP B	0.56	0.03
IL&FS	0.53	0.03
SBG_PVGD	0.52	0.02
LOKTAK	0.47	0.02
FRV_ANTP	0.46	0.02
TPSL	0.41	0.02
LANCO BUDHIL	0.30	0.01
COASTGEN	0.27	0.01
DOYANG HEP	0.20	0.01
VINDHYACHAL HVDC	0.12	0.01
NFF	0.09	0.004
HVDC PUS	0.09	0.004
HVDC CHAMPA	0.09	0.004
HVDC ALPD	0.07	0.003
HVDC RAIGARH	0.03	0.001
BHADRAVATHI HVDC	0.002	0.0001
Total	2102.64	100.00
Volume Exported by top 5 Regional Entities	532.32	25.32

Table-33: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) THROUGH DSM, AUGUST 2023		
Name of the Entity	Volume of Over drawal/ Under Injection (MUs)	% of Volume
NTPC STATIONS-ER	144.81	6.11
NTPC STATIONS-WR	138.57	5.85
NTPC STATIONS-SR	108.21	4.57
NTPC STATIONS-NR	98.46	4.15
KARNATAKA	95.28	4.02
TAMIL NADU	87.62	3.70
ANDHRA PRADESH	82.41	3.48
RAJASTHAN	73.26	3.09
TELANGANA	68.68	2.90
WEST BENGAL	67.42	2.84
GUJARAT	67.38	2.84
UTTAR PRADESH	51.58	2.18
MAHARASHTRA	47.31	2.00
BIHAR	46.68	1.97
KERALA	44.96	1.90
ASSAM	44.69	1.89
ODISHA	43.23	1.82
HARYANA	43.12	1.82
MP	34.01	1.43
UTTARAKHAND	28.94	1.22
AGEMPL BHUJ	27.28	1.15
CGPL	26.19	1.10
DVC	24.93	1.05
AMPS Hazira	22.28	0.94
JHARKHAND	22.26	0.94
J & K	22.14	0.93
PUNJAB	19.49	0.82
HIMACHAL PRADESH	18.18	0.77
CHHATTISGARH	17.98	0.76
IGSTPS	17.71	0.75
NEPAL(NVVN)	17.40	0.73
INOX_BHUJ	16.32	0.69
THERMAL POWERTECH	15.93	0.67
NPGC	15.72	0.66
GIWEL_BHUJ	14.25	0.60
NHPC STATIONS	13.81	0.58
SBESS	13.48	0.57
GIWEL_TCN	13.47	0.57
NETCL VALLUR	13.41	0.57
MYTRAH_TCN	13.27	0.56
JSW_RENEW_2	13.13	0.55
GOA	12.96	0.55
NLC	12.35	0.52
RAIL	11.04	0.47
ORANGE_TCN	10.94	0.46
OSTRO Hiriya	10.89	0.46
BALCO	10.55	0.45
BETAM_TCN	10.25	0.43
JINDAL STAGE-II	10.01	0.42
AVAADASN_SLR	9.83	0.41
DELHI	9.62	0.41
JHABUA POWER_MP	8.91	0.38
AVADARJHN_SLR	8.82	0.37
OSTRO	8.73	0.37
TEESTA STG3	8.25	0.35
TEHRI	7.89	0.33
NTPC STATIONS-NER	7.58	0.32
ALFANAR_BHUJ	7.51	0.32
RENEW_BHACHAU	7.09	0.30
AZURE43_SLR	6.71	0.28
TRIPURA	6.59	0.28
ACME_RUMS	6.58	0.28
SB6_POKARAN	6.57	0.28
TATA_ANTP	6.53	0.28

ARUNACHAL PRADESH	6.41	0.27
MAHINDRA_RUMS	6.40	0.27
BRBCL,NABINAGAR	6.25	0.26
SHREE CEMENT	6.08	0.26
MB POWER	6.05	0.26
ARINSUM_RUMS	6.03	0.25
MTPS II	5.60	0.24
CHANDIGARH	5.57	0.23
DD&DNH	5.55	0.23
SEBMCORP	5.39	0.23
RENEW_BHUI	5.28	0.22
SKRPL	5.25	0.22
ESPL_RADHANESDA	5.15	0.22
SBG_NPK	5.11	0.22
SESP	5.10	0.22
ADANI_WIND	5.07	0.21
AZURE41_SLR	5.06	0.21
RENEWJH_SLR	4.71	0.20
RENEW_SR_SLR	4.56	0.19
BANGLADESH	4.55	0.19
KARCHAM WANGTOO	4.51	0.19
TATA_SLR	4.49	0.19
SPRING_PUGALUR	4.48	0.19
JITPL	4.46	0.19
RENEWSB	4.44	0.19
AZURE_MAPLE_SLR	4.43	0.19
NTPL	4.32	0.18
ASEJTL_SLR	4.21	0.18
ADY1_PVGD	4.19	0.18
BBMB	4.18	0.18
ABC_BHDL2	4.17	0.18
AYANA_NPKUNTA	4.07	0.17
TATA_GREEN	3.97	0.17
EDEN_SLR	3.96	0.17
NTPC_ANTP	3.90	0.16
CLEAN_SLR	3.86	0.16
SIKKIM	3.85	0.16
RENEWSW_SLR	3.83	0.16
RGPL	3.76	0.16
KAPP 3&4	3.71	0.16
RSTPS_FSPP	3.65	0.15
YARROW_PVGD	3.62	0.15
RENEWURJA_SLR	3.42	0.14
MSEPL	3.40	0.14
AVIKIRAN	3.37	0.14
PONDICHERRY	3.17	0.13
APRAAVA	3.12	0.13
COASTGEN	3.11	0.13
AZURE_SLR	3.07	0.13
AVAADA2_PVGD	3.05	0.13
AYANA_RP1	3.00	0.13
FORTUM2_PVGD	2.98	0.13
THAR1_SLR	2.91	0.12
TORRENT SOLARGEN	2.91	0.12
CLEANSR_SLR	2.91	0.12
NAPP	2.83	0.12
GRT_JPL	2.81	0.12
SBSR_SLR	2.75	0.12
TPSL	2.74	0.12
DHARIWAL POWER	2.73	0.12
SINGOLI BHATWARI HEP	2.70	0.11
NETRA WIND	2.69	0.11
NEEPCO STATIONS	2.68	0.11
AVAADA1_PVGD	2.65	0.11
NEP	2.63	0.11
ACBIL	2.62	0.11
RPREL	2.62	0.11
SASAN UMPP	2.61	0.11
MSUPL_BHDL2	2.61	0.11
SIMHAPURI	2.61	0.11

DB POWER	2.60	0.11
NSPCL	2.57	0.11
RENEW_SLR_BKN	2.50	0.11
PARAM_PVGD	2.47	0.10
RKM POWER	2.46	0.10
GIPCL_RADHANESDA	2.39	0.10
ACME_HEERGARH	2.27	0.10
SB_SLR	2.23	0.09
JAYPEE NIGRIE	2.14	0.09
MRPL	2.10	0.09
ADHUNIK POWER LTD	2.08	0.09
TPREL_RADHANESDA	2.07	0.09
MANIPUR	2.06	0.09
ACME_SLR	2.01	0.08
NJPC	1.88	0.08
FORTUM1_PVGD	1.86	0.08
SPRNG NPKUNTA	1.86	0.08
ARERJL_SLR	1.84	0.08
POWERICA	1.73	0.07
IL&FS	1.66	0.07
MEGHALAYA	1.65	0.07
JINDAL POWER	1.56	0.07
SKS POWER	1.47	0.06
AD HYDRO	1.45	0.06
AZURE_PVGD	1.45	0.06
JORETHANG	1.44	0.06
RENEW_PVGD	1.34	0.06
Railways_ER ISTS	1.33	0.06
GSECL P-II	1.31	0.06
SRSSFPL	1.27	0.05
FRV_ANTP	1.24	0.05
KSK MAHANADI	1.22	0.05
ESSAR POWER	1.19	0.05
LANKO_AMK	1.15	0.05
FRV_NPK	1.15	0.05
RAP C	1.08	0.05
AZURE34_SLR	1.08	0.05
DGEN MEGA POWER	1.01	0.04
MAITHON POWER LTD	0.99	0.04
TATA_PVGD	0.98	0.04
SORANG HEP	0.93	0.04
ADANI GREEN	0.92	0.04
CHUZACHEN HEP	0.91	0.04
ABSP_ANTP	0.90	0.04
ARS_PVGD	0.89	0.04
AKS_PVGD	0.88	0.04
AHSP_ANTP	0.87	0.04
DCPP	0.82	0.03
AZURE_ANTP	0.82	0.03
TASHIDENG HEP	0.80	0.03
RANGIT HEP	0.78	0.03
AKSP_ANTP	0.77	0.03
RAP B	0.74	0.03
KSMPL_SLR	0.67	0.03
SBG_PVGD	0.65	0.03
RENEW_SLR	0.63	0.03
GMR KAMALANGA	0.63	0.03
DAGACHU	0.61	0.03
GSECL_Radhanesda	0.60	0.03
KREDL_PVGD	0.55	0.02
EMCO	0.52	0.02
MIZORAM	0.39	0.02
RANGANADI HEP	0.39	0.02
LANKO KONDAPALLI	0.37	0.02
HVDC RAIGARH	0.31	0.01
KOTESHWAR	0.31	0.01
MEENAKSHI	0.30	0.01
RONGNICHU HEP	0.30	0.01
NAGALAND	0.29	0.01
PARE HEP	0.28	0.01

SAINJ HEP	0.27	0.01
TEESTA HEP	0.24	0.01
LANCO BUDHIL	0.21	0.01
RAMPUR HEP	0.20	0.01
LOKTAK	0.19	0.01
TRN ENERGY	0.18	0.01
BHADRAVATHI HVDC	0.17	0.01
DOYANG HEP	0.16	0.01
NFF	0.13	0.01
HVDC ALPD	0.09	0.004
HVDC PUS	0.05	0.002
HVDC CHAMPA	0.02	0.001
DIKCHU HEP	0.01	0.0003
ONGC PALATANA	0.01	0.0003
TOTAL	2370.26	100.00
Volume Imported by top 5 Regional Entities	585.33	24.69

Table-34: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, AUGUST 2023

Sr. No	Details of REC Transactions	Through Power Exchange			Bilateral through Traders
		IEX	PXIL	HPX	
1	Volume of Buy Bid	559374	93141	477	-
2	Volume of Sell Bid	9957366	3084081	113466	-
3	Ratio of Buy Bid to Sell Bid Volume	0.06	0.03	0.004	-
4	Traded Volume (MWh)	252661	80779	477	169548
5	Weighted average Price (₹/MWh)	575.00	545.00	590.00	581.08

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-35: VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, AUGUST 2023

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	269.61	0.11	-269.50	6.98	3.63
2	Bhutan	0.00	0.00	0.00	-	-
	Total	269.61	0.11	-269.50	-	-

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



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