

# Monthly Report on Short-term Transactions of Electricity in India

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## Abbreviations

### Abbreviation

ABSP\_ANTP  
ACBIL  
ACP  
ACV  
ACME\_SLR  
ACME\_RUMS  
ADANI GREEN  
ADANIHB\_SLR  
ADANI\_SLR 4  
ADANIHB\_WIND  
ADY1\_PVGD  
ADY2\_PVGD  
ADY3\_PVGD  
ADY6\_PVGD  
ADY10\_PVGD  
ADY13\_PVGD  
AGEMPL BHUJ  
AHEJOL\_S\_FTG2  
AHEJOL\_W\_FTG2  
AHEJ2L\_SOLAR  
AHEJ3L\_SOLAR  
AHEJ4L\_SOLAR  
AHEJ4L\_WIND  
AHSP\_ANTP  
AKS\_PVGD  
AKSP\_ANTP  
ALFANAR\_BHUJ  
AMPS Hazira  
APTEL  
ARERJL\_SLR  
ARINSUM\_RUMS  
ARS\_PVGD  
ASEJTL\_SLR  
AVAADA1\_PVGD  
AVAADA2\_PVGD  
AVADARJHN\_SLR  
AYANA\_NPKUNTA  
AZURE\_ANTP  
AZURE\_PVGD  
AZURE\_SLR  
AZURE34\_SLR  
AZURE43\_SLR  
BALCO  
BARC  
BBMB  
BETAM\_TCN  
BHADRAVATHI HVDC  
BRBCL  
CEA  
CERC  
CGPL  
CHUKHA HEP

### Expanded Version

Acme Bhiwadi Solar Power Private Limited, Anantpur  
ACB (India) Limited  
Area Clearing Price  
Area Clearing Volume  
ACME Solar Power Project  
Acme Rewa Ultra Mega Solar Project  
Adani Green Energy Limited  
Adani Hybrid Energy Jaisalmer One Limited (Solar)  
Adani Solar Energy Four Private Limited  
Adani Hybrid Energy Jaisalmer One Limited (Wind)  
Adyah Solar Energy Pvt Ltd., Block 1 Pavagada Solar Park  
Adyah Solar Energy Pvt Ltd., Block 2 Pavagada Solar Park  
Adyah Solar Energy Pvt Ltd., Block 3 Pavagada Solar Park  
Adyah Solar Energy Pvt Ltd., Block 6 Pavagada Solar Park  
Adyah Solar Energy Pvt Ltd., Block 10 Pavagada Solar Park  
Adyah Solar Energy Pvt Ltd., Block 13 Pavagada Solar Park  
Adani Green Energy (MP) Ltd., Bhuj  
Adani Hybrid Energy Jaisalmer One Limited (SOLAR)  
Adani Hybrid Energy Jaisalmer One Limited (WIND)  
Adani Hybrid Energy Jaisalmer Two Limited (Solar)  
Adani Hybrid Energy Jaisalmer Three Limited (Solar)  
Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Solar  
Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Wind  
Acme Hisar Solar Power Private Limited, Anantpur  
ACME Kurukshetra Solar Energy Pvt. Ltd  
Acme Karnal Solar Power Private Limited, Anantpur  
Alfanar Group Wind Project, Bhuj, Gujarat  
Arcelor Mittal Nippon Steel, Hazira  
Appellate Tribunal for Electricity  
Adani Renewable Energy Park Rajasthan Ltd.  
Solenergi Rewa Ultra Mega Solar Project  
ACME REWARI Solar Power Pvt Ltd.  
Adani Solar Energy Jodhpur Two Ltd.  
Avaada Solar Energy Private Ltd., Pavagada Project 1  
Avaada Solar Energy Private Ltd., Pavagada Project 2  
Avaada Rjhn Private Limited\_Solar  
Ayana Power, NP Kunta  
Azure Power, Anantpur  
Azure Power, Pavagada  
Azure Power Solar Power Project  
Azure Power 34 Pvt. Ltd. Solar Power Project  
Azure Power Forty Three Private Limited  
Bharat Aluminum Company Limited  
Bhabha Atomic Research Centre  
Bhakra Beas Management Board  
Betam Wind Energy Private Limited, Tuticorin  
Bhadravathi High Voltage Direct Current Link  
Bhartiya Rail Bijlee Company Limited  
Central Electricity Authority  
Central Electricity Regulatory Commission  
Coastal Gujarat Power Limited  
Chhukha Hydroelectric Project, Bhutan

CHUZACHEN HEP	ChuzachenHydro 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
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	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
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
G-TAM	Green Term Ahead Market
HPX	Hindustan Power Exchange Limited
HP-DAM	High Price Day Ahead Market
HVDC ALPD	Alipurduar High Voltage Direct Current Link
HVDC CHAMPA	Champa-Kurukshetra High Voltage Direct Current Link
HVDC PUS	PasauliHigh Voltage Direct Current Link
HVDC RAIGARH	Raigarh-Pugalur High Voltage Direct Current Link
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
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
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_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
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_BHUJ	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
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 **June 2023** is presented in the following sections.

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

2.1. During June 2023, total electricity generation, excluding generation from renewable and captive power plants in India, was 127173.42 MU (Table-1). Of the total electricity generation, 15.57% was transacted through short-term and DSM, comprising of 8.26% through bilateral (through traders and term-ahead contracts on power exchanges, and directly between distribution companies), followed by 5.48% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)} and 1.84% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (19801.32 MU), 53.02% was transacted through bilateral (36.45% through traders and term-ahead contracts on power exchanges, and 16.57% directly between distribution companies), followed by 35.18% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 11.80% through DSM (Table-1 & Figure-2). The daily volume of short-term transactions is shown in Table-27. 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, 43.76% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 28.96% in Term Ahead Market (TAM) (including G-TAM) and 27.28% 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 50 trading licensees as of June 2023. Of which, 30 trading licensees were engaged in short-term trading. The top 5 trading licensees, namely PTC India Ltd., Tata Power Trading Company (P) Ltd., NTPC Vidyut Vyapar Nigam Ltd., Adani Enterprises Ltd. and Manikaran Power Ltd., had a share of 77.65% 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 0.1732 for the month of June 2023, which indicates a moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX and PXIL was 4123.34 MU and 0.03 MU respectively. No electricity was transacted through DAM of HPX. The volume of total buy bids and sell bids was 7297.73 MU and 7861.64 MU, respectively, in IEX, while the same was 4.32 MU and 61.68 MU, respectively, in PXIL. No bids were received 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 68.41 MU, and the volume was sold by the neighbouring countries of India was 118.36 MU under the Cross Border Trade of electricity through power exchange (Table-34). 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 167.36 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 806.94 MU and 361.37 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 0.53 MU. The volume of total buy bids and sell bids was 1.79 MU and 211.37 MU, respectively, in IEX.

2.10. The volume of electricity transacted in the RTM of IEX was 2675.25 MU, while no electricity was transacted in the RTM of PXIL and HPX. The volume of total buy bids and sell bids was 4200.50 and 4244.64 MU, respectively in IEX. No bids were received in PXIL and 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 1117.62 MU, 761.66 MU and 758.89 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 105.98 MU, 43.12 MU and 52.08 MU, respectively (Table-12, Table-13 & Table-14).

### **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, ₹12.00/kWh and ₹8.04/kWh, respectively (Table-3). The weighted average sale prices were also computed for the electricity transacted during Round the Clock (RTC), Peak and Off-peak periods separately, and the sale prices were ₹7.80/kWh, ₹8.78/kWh and ₹8.82/kWh, respectively (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 ₹1.33/kWh, ₹10.00/kWh and ₹5.16/kWh, respectively, while the same were ₹10.00/kWh, ₹10.00/kWh and ₹10.00/kWh, respectively in DAM of PXIL (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹1.84/kWh, ₹10.00/kWh and ₹4.95/kWh, respectively (Table-6). The minimum, maximum and weighted

average prices for the electricity transacted in the HP-DAM of IEX were ₹10.00/kWh, ₹20.00/kWh and ₹11.52/kWh, respectively (Table-7). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.98/kWh, ₹10.00/kWh and ₹4.85/kWh, respectively (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹6.47/kWh, ₹6.62/kWh and ₹6.71/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 ₹5.94/kWh, ₹6.34/kWh and ₹5.19/kWh, respectively (Table-12, Table-13 and Table-14). No electricity was transacted in G-DAM & RTM of PXIL and in DAM, G-DAM and RTM of HPX.

3.3. **DSM Charges:** The minimum, maximum and average charge under DSM was ₹1.50/kWh, ₹13.71/kWh and ₹5.71/kWh, respectively (Table-30).

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-28(a), (b) & (c) and Figure-7. The daily volume and charges under DSM are shown in Table-30.

## 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 ₹0.021/kWh.

## 5. Volume of Short-term Transactions of Electricity (Regional Entity<sup>1</sup>-Wise)

5.1. Of the total bilateral transactions, the top 5 regional entities/states sold 25.79% of the volume. These were Himachal Pradesh, Raipur Energen Limited, Karnataka, Madhya Pradesh and Teesta Stage 3 Hydro Power Project (Table-15). The top 5 regional entities/states

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<sup>1</sup> 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.

purchased 53.84% of the volume, and these were Uttar Pradesh, Haryana, Delhi, Maharashtra and Punjab (Table-16).

5.2. Of the total DAM transactions at power exchanges, the top 5 regional entities/states sold 31.31% of the volume, and these were Delhi, Chhattisgarh, Rajasthan, Uttar Pradesh, and Himachal Pradesh (Table-17). The top 5 regional entities/states purchased 62.87% of the volume, and these were Maharashtra, West Bengal, Andhra Pradesh, Punjab and Gujarat (Table-18).

5.3. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 49.50% of the volume, and these were Renew Surya Ravi Private Limited (Solar), Jammu & Kashmir, Maharashtra, Adani Wind and Andhra Pradesh (Table-19). The top 5 regional entities/states purchased 70.26% of the volume, and these were Maharashtra, Damodar Valley Corporation, Tamil Nadu, Karnataka and Bharat Aluminum Company Limited (Table-20).

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 Gujarat, Simhapuri Energy Private Limited, Tamil Nadu and Coastal Energen Private Limited (Table-21). Only 1 regional entities/states purchased 100.00% of the volume, and it was Meghalaya (Table-22).

5.5. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 42.78% of the volume, and these were Madhya Pradesh, Rajasthan, Bihar, NTPC Stations (Eastern Region) and Delhi (Table-23). The top 5 regional entities/states purchased 53.83% of the volume, and these were Telangana, Maharashtra, West Bengal, Punjab and Andhra Pradesh (Table-24).

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-25 & 29. The top 5 electricity selling regional entities/states of short-term transactions were Himachal Pradesh, Raipur Energen Limited, Madhya Pradesh, Teesta Stage 3 Hydro Power Project and Karnataka. The top 5 electricity purchasing regional entities/states of short-term transactions were Maharashtra, Uttar Pradesh, West Bengal, Punjab and Haryana.

5.7. Of the total under-drawal/ over-injection volume under DSM in June 2023, the top 5 regional entities/states accounted for 27.07% of the volume, and these were Rajasthan, Gujarat, Uttar Pradesh, Madhya Pradesh and Tamil Nadu (Table-31). The top 5 regional entities/states under DSM accounted for 25.88% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Northern Region), Maharashtra, NTPC Stations (Western Region), NTPC Stations (Eastern Region) and Karnataka (Table-32).

## **6. Congestion<sup>2</sup> 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”<sup>3</sup>.

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 June 2023, congestion was experienced in DAM, HP-DAM & RTM on IEX only.

6.3. The volume of electricity that could not be cleared due to congestion in DAM, HP-DAM and RTM of IEX was 0.02%, 0.36% and 0.03% of the unconstrained cleared volume, respectively. In terms of time, congestion occurred was 0.66% in DAM, 0.14% in HP-DAM and 1.60% in RTM of IEX during the month. (Table-26).

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

<sup>3</sup> “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 June 2023 are shown in Table-33. The market clearing volume of RECs transacted on IEX and PXIL were 533392 and 122038, respectively. The weighted average market clearing price of these RECs was ₹745/MWh in IEX and ₹745/MWh in PXIL. No RECs were transacted on 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 and 0.04 in IEX and PXIL respectively. No buy bids were received at HPX.

7.6. The volume of RECs transacted through Trading Licensees in June 2023 was 36532. The weighted average trade price for the RECs transacted through traders was ₹ 837/MWh.

## 8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 15.57%.
- b) Of the total short-term transactions and DSM volume (19801.32 MU), 53.02% was transacted through bilateral (36.45% through traders and term-ahead contracts on power exchanges, and 16.57% directly between distribution companies), followed by 35.18% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 11.80% through DSM
- c) Of the total volume of electricity transacted through power exchanges, 43.76% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 28.96% in Term Ahead Market (TAM) (including G-TAM) and 27.28% in RTM.
- d) The top 5 trading licensees had a share of 77.65% 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 0.1732, indicating a moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹8.04/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX and PXIL was ₹5.16/kWh and ₹10.00/kWh respectively, while no electricity was transacted in DAM of HPX. The weighted average price of electricity transacted in G-DAM of IEX was ₹4.95/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 ₹11.52/kWh. The weighted average price of electricity transacted in RTM of IEX was ₹4.85/kWh. No electricity was transacted in the RTM of PXIL and HPX.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹6.47/kWh, ₹6.62/kWh and ₹6.71/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX, PXIL and HPX was ₹5.94/kWh, ₹6.34/kWh and ₹5.19/kWh, respectively.



- i) The average charge under DSM was ₹5.71/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.021/kWh.
- k) The top 5 electricity selling regional entities/states of short-term transactions were Himachal Pradesh, Raipur Energen Limited, Madhya Pradesh, Teesta Stage 3 Hydro Power Project and Karnataka. The top 5 electricity purchasing regional entities/states of short-term transactions were Maharashtra, Uttar Pradesh, West Bengal, Punjab and Haryana.
- l) The top 5 under-drawing/over-injecting regional entities/states under DSM were Rajasthan, Gujarat, Uttar Pradesh, Madhya Pradesh and Tamil Nadu. The top 5 over-drawing/under-injecting regional entities/states under DSM were NTPC Stations (Northern Region), Maharashtra, NTPC Stations (Western Region), NTPC Stations (Eastern Region) and Karnataka.
- m) During the month of June 2023, congestion was experienced in DAM, HP-DAM & RTM of IEX. The volume of electricity that could not be cleared due to congestion in DAM, HP-DAM and RTM of IEX was 0.02%, 0.36% and 0.03% of the unconstrained cleared volume, respectively.
- n) The market clearing volume of RECs transacted on IEX and PXIL were 533392 and 122038, respectively. The weighted average market clearing price of these RECs was ₹745/MWh in IEX and ₹745/MWh in PXIL. No RECs were transacted on HPX. The volume of RECs transacted through Trading Licensees in June 2023 was 36532. The weighted average trade price for the RECs transacted through traders was ₹ 837/MWh.

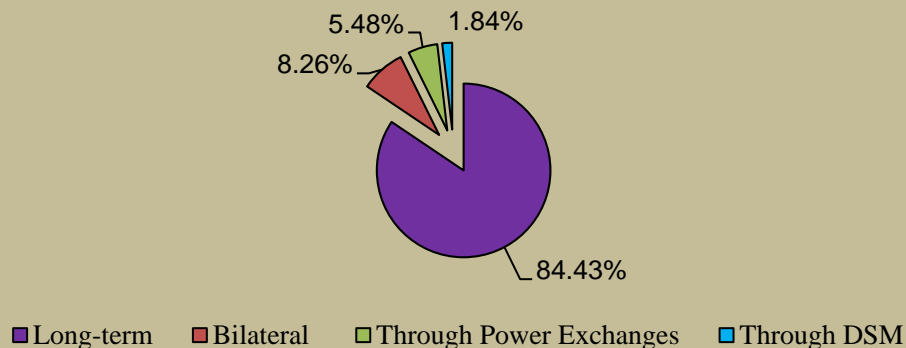
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**Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), JUNE 2023**

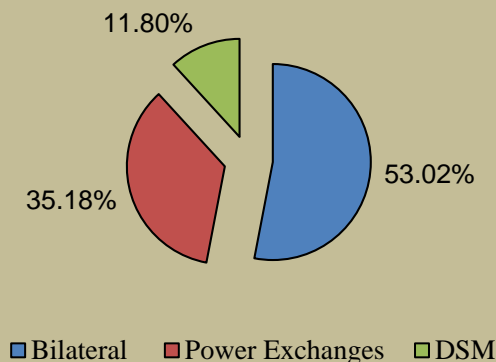
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
<b>A</b>	<b>Short-term transactions</b>			
1	Bilateral	<b>10498.78</b>	<b>53.02</b>	<b>8.26</b>
	(i) Through Traders and PXs	7216.74	36.45	5.67
	(ii) Direct	3282.04	16.57	2.58
2	Through Power Exchanges	<b>6966.51</b>	<b>35.18</b>	<b>5.48</b>
	(i) IEX			
	(a) DAM	4123.34	20.82	3.24
	(b) RTM	2675.25	13.51	2.10
	(c) GDAM	167.36	0.85	0.13
	(d)HP-DAM	0.53	0.00	0.00
	(ii) PXIL			
	(a) DAM	0.03	0.00	0.00
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
<b>B</b>	<b>Through DSM</b>	<b>2336.03</b>	<b>11.80</b>	<b>1.84</b>
	<b>Total Short-term transactions and DSM</b>	<b>19801.32</b>	<b>-</b>	<b>15.57</b>
	<b>Total Generation</b>	<b>127173.42</b>	<b>-</b>	<b>-</b>

Source: NLDC

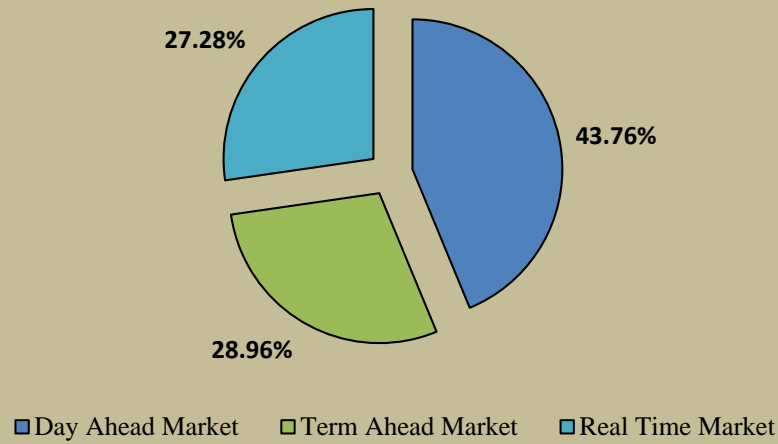
**Figure-1: Volume of various kinds of Electricity Transactions in Total Electricity Generation, June 2023**



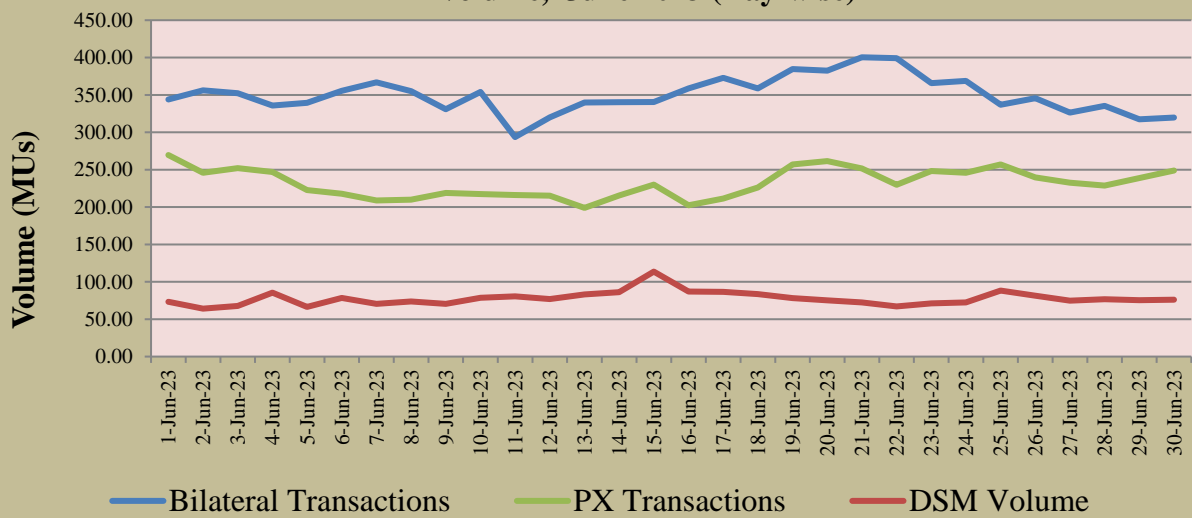
**Figure-2: Volume of Short-term Transactions of Electricity and DSM Volume, June 2023**



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

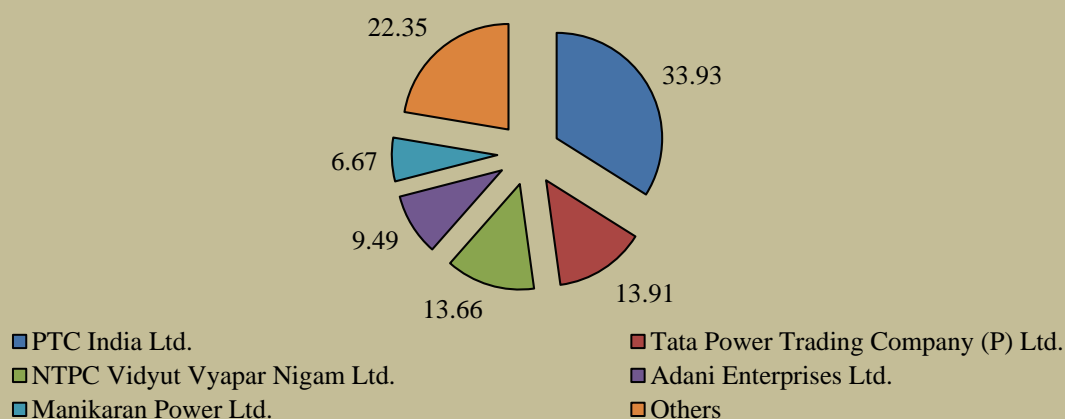


**Figure-4: Volume of Short-term Transactions of Electricity and DSM Volume, June 2023 (Day-wise)**



<b>Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, JUNE 2023</b>			
<b>Sr. No</b>	<b>Name of the Trading Licensee</b>	<b>% Share in total Volume traded by Trading Licensees</b>	<b>Herfindahl-Hirschman Index</b>
1	PTC India Ltd.	33.93	0.1151
2	Tata Power Trading Company (P) Ltd.	13.91	0.0193
3	NTPC Vidyut Vyapar Nigam Ltd.	13.66	0.0187
4	Adani Enterprises Ltd.	9.49	0.0090
5	Manikaran Power Ltd.	6.67	0.0045
6	GMR Energy Trading Ltd.	5.69	0.0032
7	Arunachal Pradesh Power Corporation (P) Ltd	4.31	0.0019
8	JSW Power Trading Company Ltd	1.87	0.0004
9	Kreate Energy (I) Pvt. Ltd.	1.73	0.0003
10	Instinct Infra & Power Ltd.	1.59	0.0003
11	Gita Power & Infrastructure Private Limited	1.49	0.0002
12	Statkraft Markets Pvt. Ltd.	1.45	0.0002
13	Greenko Energies Pvt Ltd	0.99	0.0001
14	Shree Cement Ltd.	0.73	0.0001
15	NTPC Ltd.	0.60	0.0000
16	RPG Power Trading Company Ltd.	0.53	0.0000
17	Kundan International Pvt. Ltd.	0.27	0.0000
18	Abja Power Private Limited	0.25	0.0000
19	Saranyu Power Trading Private Limited	0.16	0.0000
20	Ambitious Power Trading Company Ltd.	0.15	0.0000
21	Instant Venture Pvt. Ltd.	0.12	0.0000
22	NLC India Ltd.	0.11	0.0000
23	Ideal Energy Solution Pvt. Ltd.	0.09	0.0000
24	Customized Energy Solutions India (P) Ltd.	0.06	0.0000
25	VEH Global India Pvt. Ltd.	0.06	0.0000
26	SJVN Ltd.	0.05	0.0000
27	Powerfull Energy Trading Pvt. Ltd.	0.02	0.0000
28	Phillip Commodities India (P) Ltd.	0.01	0.0000
29	Shell Energy Marketing and Trading India Pvt. Ltd.	0.004	0.0000
30	Renurja Power LLP	0.001	0.0000
<b>TOTAL</b>		<b>100.00%</b>	<b>0.1732</b>
<b>Top 5 trading licensees</b>		<b>77.65%</b>	
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, June 2023**



<b>Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JUNE 2023</b>		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.70
2	Maximum	12.00
3	Weighted Average	8.04

Source: Information submitted by trading licensees

<b>Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JUNE 2023</b>		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	7.80
2	PEAK	8.78
3	OFF PEAK	8.82

Source: Information submitted by trading licensees

<b>Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.33	10.00	-
2	Maximum	10.00	10.00	-
3	Weighted Average	5.16	10.00	-

Source: IEX, PXIL and HPX

<b>Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.84	-	-
2	Maximum	10.00	-	-
3	Weighted Average	4.95	-	-

Source: IEX, PXIL and HPX

<b>Table-7: PRICE OF ELECTRICITY TRANSACTED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	10.00	-	-
2	Maximum	20.00	-	-
3	Weighted Average	11.52	-	-

Source: IEX, PXIL and HPX

<b>Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	0.98	-	-
2	Maximum	10.00	-	-
3	Weighted Average	4.85	-	-

Source: IEX, PXIL and HPX

<b>Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JUNE 2023</b>			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	18.98	9.76
2	Day Ahead Contingency Contracts	776.15	6.28
3	Daily Contracts	75.26	6.35
4	Any Day Single Sided Contracts	247.23	6.85
	<b>Total</b>	<b>1117.62</b>	<b>6.47</b>

Source: IEX

<b>Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JUNE 2023</b>			
<b>Sr.No</b>	<b>Term ahead contracts</b>	<b>Actual Scheduled Volume (MU)</b>	<b>Weighted Average Price (₹/kWh)</b>
1	Intra-Day Contracts	20.27	9.41
2	Day Ahead Contingency Contracts	568.59	6.77
3	Any Day Single Sided Contracts	172.80	5.80
	<b>Total</b>	<b>761.66</b>	<b>6.62</b>

Source: PXIL

<b>Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, JUNE 2023</b>			
<b>Sr.No</b>	<b>Term ahead contracts</b>	<b>Actual Scheduled Volume (MU)</b>	<b>Weighted Average Price (₹/kWh)</b>
1	Intra-Day Contracts	12.08	9.75
2	Day Ahead Contingency Contracts	651.57	6.71
3	Daily Contracts	11.72	6.80
4	Any Day Single Sided Contracts	83.52	6.22
	<b>Total</b>	<b>758.89</b>	<b>6.71</b>

Source: HPX

<b>Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, JUNE 2023</b>			
<b>Sr. No</b>	<b>Green Term ahead contracts</b>	<b>Actual Scheduled Volume (MU)</b>	<b>Weighted Average Price (₹/kWh)</b>
1	Day Ahead Contingency Contracts	69.03	5.67
2	Daily Contracts	5.27	5.91
3	Monthly Contracts	3.60	6.80
4	Any Day Single Sided Contracts	28.08	6.50
	<b>Total</b>	<b>105.98</b>	<b>5.94</b>

Source: IEX

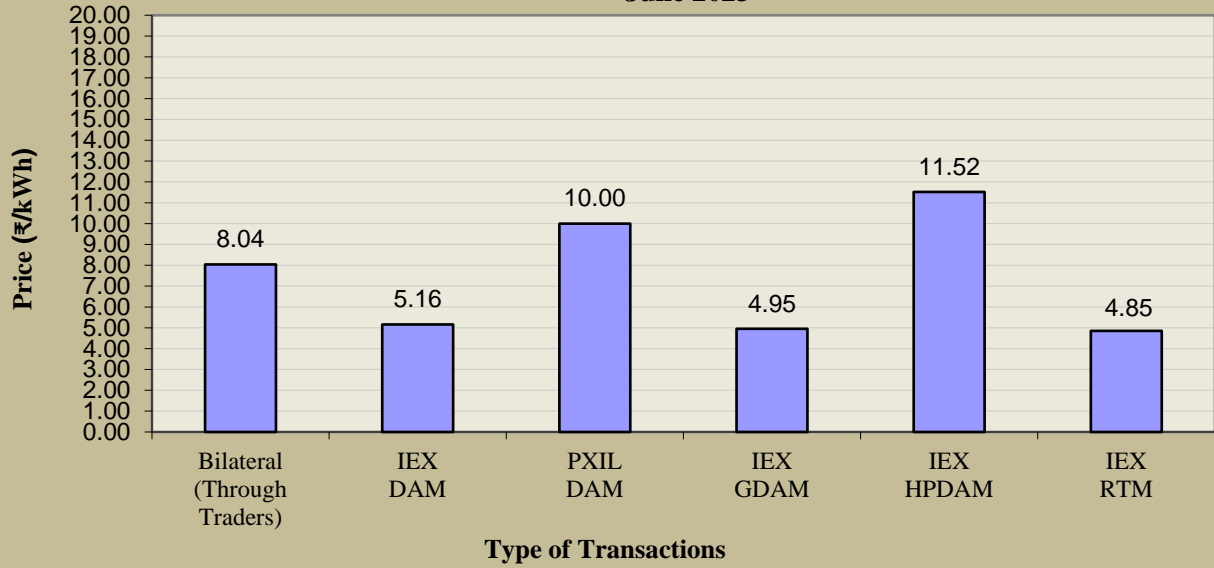
<b>Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, JUNE 2023</b>			
<b>Sr. No</b>	<b>Green Term ahead contracts</b>	<b>Actual Scheduled Volume (MU)</b>	<b>Weighted Average Price (₹/kWh)</b>
1	Day Ahead Contingency Contracts	41.65	6.33
2	Any Day Single Sided Contracts	1.47	6.45
	<b>Total</b>	<b>43.12</b>	<b>6.34</b>

Source: PXIL

<b>Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, JUNE 2023</b>			
<b>Sr. No</b>	<b>Green Term ahead contracts</b>	<b>Actual Scheduled Volume (MU)</b>	<b>Weighted Average Price (₹/kWh)</b>
1	Day Ahead Contingency Contracts	52.08	5.19
	<b>Total</b>	<b>52.08</b>	<b>5.19</b>

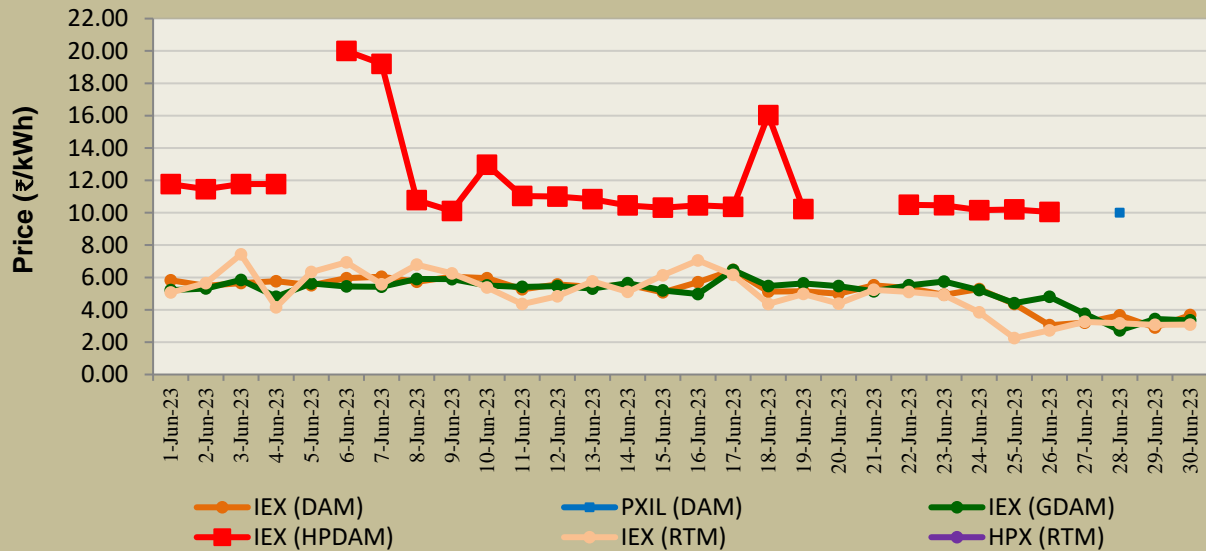
Source: HPX

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



*Note: No electricity was transacted in G-DAM & RTM of PXIL and in DAM, G-DAM & RTM of HPX during June 2023*

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



*Note: No electricity was transacted in G-DAM & RTM of PXIL and in DAM, G-DAM & RTM of HPX during June 2023.*

<b>Table-15: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
HIMACHAL PRADESH	639.58	6.09
RPREL	590.77	5.63
KARNATAKA	537.42	5.12
MP	482.84	4.60
TEESTA HEP	457.22	4.35
TAMIL NADU	449.00	4.28
JINDAL STAGE-II	440.24	4.19
ESSAR POWER	427.63	4.07
RKM POWER	417.13	3.97
JAYPEE NIGRIE	385.30	3.67
RAJASTHAN	370.75	3.53
JINDAL POWER	342.26	3.26
IL&FS	314.18	2.99
JITPL	308.06	2.93
NTPC STATIONS-SR	266.15	2.54
J & K	256.94	2.45
SIMHAPURI	177.73	1.69
DB POWER	163.26	1.56
MAHARASHTRA	163.15	1.55
AHEJ4L_SOLAR	159.95	1.52
DVC	137.47	1.31
ADHUNIK POWER LTD	136.87	1.30
AHEJ4L_WIND	131.44	1.25
SKS POWER	130.20	1.24
SHREE CEMENT	123.26	1.17
NEEPCO STATIONS	120.67	1.15
TELANGANA	117.96	1.12
GUJARAT	116.54	1.11
NTPC STATIONS-NR	107.53	1.02
MEGHALAYA	104.46	1.00
SEMBICORP	102.99	0.98
MB POWER	96.72	0.92
KOLYAT_SLR	89.48	0.85
ANDHRA PRADESH	80.79	0.77
CHHATTISGARH	78.23	0.75
KERALA	76.76	0.73
ODISHA	75.95	0.72
JHABUA POWER_MP	75.72	0.72
WEST BENGAL	71.91	0.68
AVAADASN_SLR	71.18	0.68
ABC_BHDL2	67.58	0.64
ACBIL	59.03	0.56
ACME_HEERGARH	55.52	0.53
THARI_SLR	54.67	0.52
GMR KAMALANGA	53.96	0.51
DIKCHU HEP	53.13	0.51
COASTGEN	52.96	0.50
AD HYDRO	52.29	0.50
TATA_GREEN	48.85	0.47
KARCHAM WANGTOO	43.37	0.41
UTTARAKHAND	40.53	0.39
DELHI	38.03	0.36
SORANG HEP	36.41	0.35
NLC	33.60	0.32
DAGACHU	31.61	0.30



SINGOLI BHATWARI HEP	31.26	0.30
SAINJ HEP	29.47	0.28
DHARIWAL POWER	29.41	0.28
RENEW_SR_SLR	23.29	0.22
SIKKIM	22.42	0.21
ARUNACHAL PRADESH	21.73	0.21
ADANI_WIND	21.29	0.20
CONTINNUM PT	20.23	0.19
OSTRO Hiriyur	18.78	0.18
HARYANA	18.21	0.17
TEHRI	16.80	0.16
GOA	16.20	0.15
BIHAR	15.16	0.14
SB_SLR	13.33	0.13
MARUTI COAL	12.76	0.12
UTTAR PRADESH	12.55	0.12
TRN ENERGY	12.06	0.11
LANKO_AMK	9.72	0.09
REGL	7.59	0.07
EMCO	5.40	0.05
REENERGY5_WIND	5.14	0.05
ONGC PALATANA	4.03	0.04
TASHIDENG HEP	3.63	0.03
INOX_BHUI	3.17	0.03
DGEN MEGA POWER	2.59	0.02
NTPC STATIONS-WR	1.76	0.02
JORETHANG	1.66	0.02
PUNJAB	1.30	0.01
MANIPUR	0.60	0.01
<b>Total</b>	<b>10498.78</b>	<b>100.00</b>
<b>Volume Sold by top 5 Regional Entities</b>	<b>2707.82</b>	<b>25.79</b>

<b>Table-16: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
UTTAR PRADESH	1624.60	15.47
HARYANA	1139.83	10.86
DELHI	1095.13	10.43
MAHARASHTRA	930.42	8.86
PUNJAB	862.10	8.21
WEST BENGAL	707.54	6.74
GUJARAT	667.98	6.36
TAMIL NADU	601.68	5.73
RAJASTHAN	493.55	4.70
KERALA	342.28	3.26
TELANGANA	339.52	3.23
ANDHRA PRADESH	299.66	2.85
ODISHA	258.23	2.46
AMPS Hazira	241.37	2.30
JHARKHAND	157.32	1.50
UTTARAKHAND	138.17	1.32
DD&DNH	138.07	1.32
MP	137.40	1.31
CHHATTISGARH	73.50	0.70
GOA	61.52	0.59
ASSAM	51.08	0.49
DVC	30.09	0.29
PONDICHERRY	22.53	0.21
HIMACHAL PRADESH	22.29	0.21
SIKKIM	15.48	0.15
BALCO	12.05	0.11
KARNATAKA	11.60	0.11
BIHAR	11.38	0.11
J & K	4.45	0.04
NAGALAND	4.11	0.04
MEGHALAYA	3.85	0.04
<b>TOTAL</b>	<b>10498.78</b>	<b>100.00</b>
<b>Volume Purchased by top 5 Regional Entities</b>	<b>5652.08</b>	<b>53.84</b>

<b>Table-17: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
DELHI	295.43	7.16
CHHATTISGARH	289.92	7.03
RAJASTHAN	274.29	6.65
UTTAR PRADESH	219.15	5.31
HIMACHAL PRADESH	212.38	5.15
PUNJAB	198.84	4.82
HARYANA	181.57	4.40
JITPL	157.12	3.81
TEESTA HEP	141.92	3.44
MB POWER	129.72	3.15
BIHAR	119.44	2.90
NEPAL(NVVN)	118.36	2.87
RPREL	116.26	2.82
JAYPEE NIGRIE	106.08	2.57
SEMBICORP	101.20	2.45
ESSAR POWER	91.38	2.22
MP	90.94	2.21
JINDAL STAGE-II	88.39	2.14
DCPP	87.00	2.11
KARNATAKA	73.76	1.79
ASSAM	60.62	1.47
DB POWER	59.35	1.44
JINDAL POWER	57.09	1.38
TAMIL NADU	53.85	1.31
SKS POWER	50.58	1.23
AD HYDRO	49.94	1.21
ACBIL	49.51	1.20
GUJARAT	45.12	1.09
MAHARASHTRA	43.49	1.05
TELANGANA	42.73	1.04
RKM POWER	35.93	0.87
ANDHRA PRADESH	35.79	0.87
ODISHA	31.38	0.76
CHANDIGARH	30.50	0.74
KARCHAM WANGTOO	28.36	0.69
JHABUA POWER_MP	27.52	0.67
UTTARAKHAND	26.94	0.65
DVC	25.46	0.62
COASTGEN	23.42	0.57
SAINJ HEP	21.69	0.53
PONDICHERRY	20.51	0.50
RENEW_SR_SLR	19.94	0.48
MARUTI COAL	13.46	0.33
SHREE CEMENT	13.45	0.33
ARUNACHAL PRADESH	12.05	0.29
ASEJTL_SLR	10.99	0.27
JHARKHAND	10.13	0.25
EMCO	10.04	0.24
J & K	9.97	0.24
MEGHALAYA	9.63	0.23
REGL	7.91	0.19
DHARIWAL POWER	7.87	0.19
SIKKIM	7.75	0.19
GOA	7.46	0.18

DIKCHU HEP	7.24	0.18
CHUZACHEN HEP	6.49	0.16
MIZORAM	6.37	0.15
TRN ENERGY	5.78	0.14
LANCO BUDHIL	4.96	0.12
OSTRO Hiriyur	4.41	0.11
SINGOLI BHATWARI HEP	4.33	0.10
NTPC STATIONS-SR	4.05	0.10
KSK MAHANADI	3.57	0.09
ADHUNIK POWER LTD	3.41	0.08
SORANG HEP	3.33	0.08
ONGC PALATANA	3.08	0.07
KERALA	3.00	0.07
NAGALAND	2.92	0.07
WEST BENGAL	2.02	0.05
MANIPUR	1.55	0.04
NTPC STATIONS-NER	1.24	0.03
SIMHAPURI	1.09	0.03
GMR KAMALANGA	0.71	0.02
SB_SLR	0.16	0.004
NTPC STATIONS-ER	0.02	0.001
<b>Total</b>	<b>4123.36</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>1291.17</b>	<b>31.31</b>

<b>Table-18: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
MAHARASHTRA	817.83	19.83
WEST BENGAL	710.08	17.22
ANDHRA PRADESH	382.26	9.27
PUNJAB	354.76	8.60
GUJARAT	327.28	7.94
TELANGANA	187.53	4.55
TAMIL NADU	169.76	4.12
UTTAR PRADESH	162.75	3.95
ASSAM	159.62	3.87
KERALA	128.45	3.12
DD&DNH	114.24	2.77
JHARKHAND	98.82	2.40
HARYANA	50.39	1.22
UTTARAKHAND	48.52	1.18
GOA	48.28	1.17
NEPAL(NVVN)	46.16	1.12
HIMACHAL PRADESH	43.91	1.06
J & K	34.93	0.85
ODISHA	32.35	0.78
RAJASTHAN	31.58	0.77
MEGHALAYA	31.17	0.76
MP	23.46	0.57
NEP	22.25	0.54
AMPS Hazira	21.90	0.53
NCR ALLAHABAD	16.00	0.39
KARNATAKA	15.16	0.37
BIHAR	13.60	0.33
DVC	8.26	0.20
TRIPURA	7.93	0.19
CHHATTISGARH	7.37	0.18
CHANDIGARH	1.98	0.05
DELHI	1.44	0.03
ARUNACHAL PRADESH	1.36	0.03
BALCO	1.12	0.03
NAGALAND	0.85	0.02
PONDICHERRY	0.04	0.001
<b>TOTAL</b>	<b>4123.36</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>2592.20</b>	<b>62.87</b>

<b>Table-19: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
RENEW_SR_SLR	19.79	11.82
J & K	16.64	9.95
MAHARASHTRA	16.63	9.94
ADANI_WIND	14.94	8.93
ANDHRA PRADESH	14.84	8.87
RENERGY5_WIND	13.45	8.04
KARNATAKA	12.93	7.73
SINGOLI BHATWARI HEP	11.15	6.67
OSTRO Hiriyur	9.34	5.58
NTPC STATIONS-SR	8.84	5.28
RAJASTHAN	8.77	5.24
CONTINNUM PT	7.78	4.65
TELANGANA	2.80	1.67
SB_SLR	2.30	1.38
UTTAR PRADESH	2.24	1.34
INOX_BHUJ	1.97	1.18
HIMACHAL PRADESH	1.01	0.60
WEST BENGAL	0.87	0.52
MP	0.87	0.52
SORANG HEP	0.18	0.11
<b>Total</b>	<b>167.36</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>82.85</b>	<b>49.50</b>

<b>Table-20: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
MAHARASHTRA	42.54	25.42
DVC	33.85	20.23
TAMIL NADU	15.31	9.15
KARNATAKA	15.23	9.10
BALCO	10.64	6.36
PUNJAB	7.33	4.38
DD&DNH	6.85	4.09
KERALA	6.63	3.96
UTTAR PRADESH	5.58	3.33
GUJARAT	4.52	2.70
AMPS Hazira	4.22	2.52
NCR ALLAHABAD	3.75	2.24
WEST BENGAL	2.69	1.61
MP	1.64	0.98
DELHI	1.37	0.82
ODISHA	1.34	0.80
JHARKHAND	1.29	0.77
HARYANA	0.87	0.52
ANDHRA PRADESH	0.78	0.47
TELANGANA	0.49	0.29
MEGHALAYA	0.31	0.19
ASSAM	0.12	0.07
<b>TOTAL</b>	<b>167.36</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>117.58</b>	<b>70.26</b>

<b>Table-21: VOLUME OF ELECTRICITY SOLD IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
GUJARAT	0.37	68.82
SIMHAPURI	0.07	12.42
TAMIL NADU	0.05	9.39
COASTGEN	0.05	9.37
<b>Total</b>	<b>0.53</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>0.53</b>	<b>100.00</b>

<b>Table-22: VOLUME OF ELECTRICITY PURCHASED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
MEGHALAYA	0.53	100.00
<b>TOTAL</b>	<b>0.53</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>0.53</b>	<b>100.00</b>

<b>Table-23: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
MP	324.83	12.14
RAJASTHAN	314.25	11.75
BIHAR	177.00	6.62
NTPC STATIONS-ER	167.11	6.25
DELHI	161.17	6.02
KAPP 3&4	157.27	5.88
HIMACHAL PRADESH	127.67	4.77
J & K	116.66	4.36
PUNJAB	102.68	3.84
HARYANA	78.13	2.92
CHHATTISGARH	69.89	2.61
WEST BENGAL	61.95	2.32
ODISHA	60.59	2.26
KARNATAKA	51.22	1.91
JHARKHAND	50.28	1.88
UTTARAKHAND	49.44	1.85
ASSAM	45.46	1.70
MAHARASHTRA	43.24	1.62
ANDHRA PRADESH	42.48	1.59
UTTAR PRADESH	36.09	1.35
TEESTA HEP	34.96	1.31
TELANGANA	28.89	1.08
TAMIL NADU	25.75	0.96
SASAN UMPP	22.25	0.83
NEEPCO STATIONS	20.59	0.77
JHABUA POWER_MP	18.90	0.71
RKM POWER	18.03	0.67
SKS POWER	16.64	0.62
NTPC STATIONS-NR	15.55	0.58
MANIPUR	15.35	0.57
TRN ENERGY	12.95	0.48
GUJARAT	12.58	0.47
MB POWER	12.02	0.45
PONDICHERRY	10.15	0.38
ESSAR POWER	10.03	0.37
ONGC PALATANA	9.06	0.34
SAINJ HEP	9.05	0.34
RPREL	8.86	0.33
DVC	8.79	0.33
TRIPURA	8.11	0.30
ARUNACHAL PRADESH	6.52	0.24
NTPC STATIONS-WR	6.45	0.24
SIKKIM	6.42	0.24
SEMBCORP	6.15	0.23
SINGOLI BHATWARI HEP	5.87	0.22
SORANG HEP	5.11	0.19
AD HYDRO	5.00	0.19
JINDAL STAGE-II	4.91	0.18
ACBIL	4.81	0.18
KARCHAM WANGTOO	4.70	0.18
KERALA	4.56	0.17
NLC	4.26	0.16
SHREE CEMENT	4.20	0.16
SIMHAPURI	3.85	0.14



EMCO	3.66	0.14
DCPP	3.58	0.13
OSTRO Hiriyur	3.45	0.13
DIKCHU HEP	3.08	0.12
NTPC STATIONS-SR	3.06	0.11
NAGALAND	2.63	0.10
TASHIDENG HEP	2.55	0.10
NPGC	2.55	0.10
JINDAL POWER	2.51	0.09
DGEN MEGA POWER	2.28	0.09
JORETHANG	2.12	0.08
MARUTI COAL	2.04	0.08
ADHUNIK POWER LTD	1.99	0.07
BALCO	1.94	0.07
DD&DNH	1.64	0.06
NTPC STATIONS-NER	1.47	0.05
DB POWER	1.03	0.04
CHANDIGARH	0.95	0.04
RENEW_SR_SLR	0.93	0.03
MEGHALAYA	0.69	0.03
CHUZACHEN HEP	0.35	0.01
CGPL	0.35	0.01
LANCO BUDHIL	0.34	0.01
IL&FS	0.32	0.01
JITPL	0.26	0.01
REGL	0.24	0.01
GOA	0.21	0.01
COASTGEN	0.14	0.01
JAYPEE NIGRIE	0.11	0.004
GMR KAMALANGA	0.05	0.002
<b>Total</b>	<b>2675.25</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>1144.35</b>	<b>42.78</b>

<b>Table-24: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
TELANGANA	443.52	16.58
MAHARASHTRA	380.36	14.22
WEST BENGAL	248.18	9.28
PUNJAB	188.15	7.03
ANDHRA PRADESH	179.88	6.72
UTTAR PRADESH	150.00	5.61
ODISHA	129.17	4.83
KERALA	101.61	3.80
GUJARAT	98.87	3.70
TAMIL NADU	91.23	3.41
RAJASTHAN	75.53	2.82
ASSAM	69.39	2.59
KARNATAKA	57.19	2.14
HARYANA	40.79	1.52
BIHAR	39.43	1.47
JHARKHAND	39.37	1.47
TRIPURA	31.50	1.18
DD&DNH	29.22	1.09
J & K	28.96	1.08
MP	27.07	1.01
DELHI	26.62	1.00
MEGHALAYA	25.80	0.96
DVC	25.66	0.96
CHHATTISGARH	23.78	0.89
HIMACHAL PRADESH	22.56	0.84
BALCO	20.08	0.75
AMPS Hazira	19.41	0.73
JINDAL STAGE-II	14.03	0.52
GOA	9.60	0.36
NCR ALLAHABAD	7.36	0.27
UTTARAKHAND	7.34	0.27
NAGALAND	3.73	0.14
MANIPUR	3.17	0.12
DCPP	2.81	0.10
SKS POWER	2.50	0.09
JINDAL POWER	2.36	0.09
SIKKIM	2.17	0.08
SIMHAPURI	1.34	0.05
ARUNACHAL PRADESH	1.24	0.05
SHREE CEMENT	1.24	0.05
NTPC STATIONS-WR	0.81	0.03
CHANDIGARH	0.62	0.02
JHABUA POWER_MP	0.34	0.01
SAINJ HEP	0.32	0.01
RGPPL_IR	0.31	0.01
ACBIL	0.26	0.01
PONDICHERRY	0.25	0.01
ESSAR POWER	0.12	0.004
<b>TOTAL</b>	<b>2675.25</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>1440.09</b>	<b>53.83</b>

<b>Table-25: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), JUNE 2023</b>		
<b>S. No.</b>	<b>Name of the Entity</b>	<b>Total volume of net short-term transactions of electricity*</b>
1	MAHARASHTRA	1904.65
2	UTTAR PRADESH	1672.89
3	WEST BENGAL	1531.74
4	PUNJAB	1109.52
5	HARYANA	953.97
6	GUJARAT	924.04
7	TELANGANA	778.67
8	ANDHRA PRADESH	688.67
9	DELHI	629.93
10	KERALA	494.65
11	TAMIL NADU	349.34
12	AMPS Hazira	286.90
13	DD&DNH	286.75
14	ODISHA	253.18
15	JHARKHAND	236.38
16	ASSAM	174.13
17	GOA	95.53
18	UTTARAKHAND	77.10
19	BALCO	41.96
20	TRIPURA	31.32
21	NCR ALLAHABAD	27.10
22	NEP	22.25
23	NAGALAND	3.13
24	RGPPL_IR	0.31
25	CGPL	-0.35
26	NPGC	-2.55
27	NTPC STATIONS-NER	-2.71
28	KSK MAHANADI	-3.57
29	JORETHANG	-3.78
30	DGEN MEGA POWER	-4.87
31	INOX_BHUI	-5.14
32	LANCO BUDHIL	-5.30
33	TASHIDENG HEP	-6.19
34	MIZORAM	-6.37
35	CHUZACHEN HEP	-6.84
36	NTPC STATIONS-WR	-7.40
37	PONDICHERRY	-7.85
38	LANKO_AMK	-9.72
39	ASEJTL_SLR	-10.99
40	MANIPUR	-14.33
41	REGL	-15.75
42	SB_SLR	-15.79
43	ONGC PALATANA	-16.17
44	TEHRI	-16.80
45	RENERGY5_WIND	-18.59
46	SIKKIM	-18.94
47	EMCO	-19.11
48	SASAN UMPP	-22.25
49	CONTINNUM PT	-28.01
50	MARUTI COAL	-28.26
51	CHANDIGARH	-28.84
52	TRN ENERGY	-30.79
53	DAGACHU	-31.61
54	OSTRO Hiriyur	-35.98
55	ADANI_WIND	-36.23
56	DHARIWAL POWER	-37.29
57	ARUNACHAL PRADESH	-37.71
58	NLC	-37.86
59	SORANG HEP	-45.03
60	TATA_GREEN	-48.85
61	SINGOLI BHATWARI HEP	-52.61
62	MEGHALAYA	-53.11

63	THARI_SLR	-54.67
64	GMR KAMALANGA	-54.72
65	ACME_HEERGARH	-55.52
66	SAINJ HEP	-59.89
67	DIKCHU HEP	-63.45
68	RENEW_SR_SLR	-63.95
69	ABC_BHDL2	-67.58
70	AVAADASN_SLR	-71.18
71	NEPAL(NVVN)	-72.20
72	DVC	-73.85
73	KARCHAM WANGTOO	-76.44
74	COASTGEN	-76.56
75	DCPP	-87.78
76	KOLYAT_SLR	-89.48
77	AD HYDRO	-107.24
78	ACBIL	-113.09
79	JHABUA POWER_MP	-121.81
80	NTPC STATIONS-NR	-123.08
81	AHEJ4L_WIND	-131.44
82	SHREE CEMENT	-139.67
83	NEEPCO STATIONS	-141.26
84	ADHUNIK POWER LTD	-142.26
85	KAPP 3&4	-157.27
86	AHEJ4L_SOLAR	-159.95
87	NTPC STATIONS-ER	-167.13
88	SIMHAPURI	-181.39
89	SKS POWER	-194.93
90	SEBPCORP	-210.34
91	DB POWER	-223.65
92	MB POWER	-238.46
93	BIHAR	-247.19
94	NTPC STATIONS-SR	-282.09
95	IL&FS	-314.50
96	J & K	-331.88
97	CHHATTISGARH	-333.39
98	RAJASTHAN	-367.39
99	JINDAL POWER	-399.50
100	JITPL	-465.44
101	RKM POWER	-471.09
102	JAYPEE NIGRIE	-491.48
103	JINDAL STAGE-II	-519.52
104	ESSAR POWER	-528.92
105	KARNATAKA	-576.15
106	TEESTA HEP	-634.09
107	MP	-709.90
108	RPREL	-715.90
109	HIMACHAL PRADESH	-891.88
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral and power exchange		
(-) indicates sale and (+) indicates purchase		

**Table-26: DETAILS OF CONGESTION IN POWER EXCHANGES, JUNE 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)	4123.98	0.03	0.00	167.36	0.00	0.00	0.54	2675.93	0.00	0.00
2	Actual Cleared Volume and hence scheduled (MUs)	4123.34	0.03	0.00	167.36	0.00	0.00	0.53	2675.25	0.00	0.00
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.64	0.00	0.00	0.00	0.00	0.00	0.002	0.68	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	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.36%	0.03%	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)	0.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.14%	1.60%	0.00%	0.00%
7	Congestion occurrence (%) time block wise										
	0.00 - 6.00 hours	63.16%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	13.04%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	19.57%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	50.00%	0.00%	0.00%
	18.00 - 24.00 hours	36.84%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	17.39%	0.00%	0.00%
* This power would have been scheduled had there been no congestion											
Source: IEX, PXIL, HPX & NLDC											

**Table-27: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE) (MUs),  
JUNE 2023**

Date	Bilateral		Day Ahead Market <sup>#</sup>			Green Day Ahead Market <sup>#</sup>			High Price DAM <sup>#</sup>	Real Time Market <sup>#</sup>			Total Electricity Generation (MU) *
	Through Traders and PXs**	Direct	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	IEX	PXIL	HPX	
1-Jun-23	243.87	100.19	156.41	0.00	0.00	6.79	0.00	0.00	0.02	106.41	0.00	0.00	4088.43
2-Jun-23	255.91	100.35	170.59	0.00	0.00	5.45	0.00	0.00	0.03	69.74	0.00	0.00	4173.98
3-Jun-23	252.84	99.55	161.03	0.00	0.00	3.91	0.00	0.00	0.02	87.06	0.00	0.00	4328.38
4-Jun-23	234.27	101.47	155.37	0.00	0.00	7.10	0.00	0.00	0.01	84.56	0.00	0.00	3989.73
5-Jun-23	242.72	96.81	161.75	0.00	0.00	4.75	0.00	0.00	0.00	56.33	0.00	0.00	4238.81
6-Jun-23	250.85	104.71	130.21	0.00	0.00	5.03	0.00	0.00	0.00	82.68	0.00	0.00	4355.88
7-Jun-23	264.71	102.25	133.08	0.00	0.00	5.22	0.00	0.00	0.02	70.44	0.00	0.00	4391.52
8-Jun-23	252.20	102.97	139.28	0.00	0.00	3.79	0.00	0.00	0.03	66.92	0.00	0.00	4437.96
9-Jun-23	226.10	104.90	135.36	0.00	0.00	4.86	0.00	0.00	0.02	78.71	0.00	0.00	4422.69
10-Jun-23	245.14	108.95	126.29	0.00	0.00	5.64	0.00	0.00	0.04	85.49	0.00	0.00	4288.79
11-Jun-23	189.06	104.60	128.04	0.00	0.00	6.62	0.00	0.00	0.01	81.54	0.00	0.00	4126.52
12-Jun-23	211.14	108.81	138.43	0.00	0.00	5.09	0.00	0.00	0.02	71.68	0.00	0.00	4310.99
13-Jun-23	233.81	106.05	123.28	0.00	0.00	3.88	0.00	0.00	0.02	71.77	0.00	0.00	4329.09
14-Jun-23	235.25	105.19	128.00	0.00	0.00	4.84	0.00	0.00	0.03	82.64	0.00	0.00	4245.93
15-Jun-23	238.81	101.78	114.91	0.00	0.00	5.48	0.00	0.00	0.02	109.71	0.00	0.00	4304.13
16-Jun-23	252.12	106.58	117.13	0.00	0.00	5.17	0.00	0.00	0.04	80.04	0.00	0.00	4410.83
17-Jun-23	263.42	109.56	123.60	0.00	0.00	2.72	0.00	0.00	0.05	85.01	0.00	0.00	4424.49
18-Jun-23	252.90	105.87	120.16	0.00	0.00	4.63	0.00	0.00	0.03	101.27	0.00	0.00	4222.77
19-Jun-23	270.76	113.81	138.75	0.00	0.00	5.46	0.00	0.00	0.05	112.78	0.00	0.00	4363.13
20-Jun-23	264.58	117.99	144.08	0.00	0.00	6.82	0.00	0.00	0.00	110.72	0.00	0.00	4408.28
21-Jun-23	270.50	129.90	148.60	0.00	0.00	5.08	0.00	0.00	0.00	97.97	0.00	0.00	4469.87
22-Jun-23	268.99	130.18	142.18	0.00	0.00	3.17	0.00	0.00	0.03	84.51	0.00	0.00	4483.31
23-Jun-23	235.13	130.74	147.81	0.00	0.00	6.34	0.00	0.00	0.02	94.14	0.00	0.00	4481.98
24-Jun-23	244.04	124.83	152.69	0.00	0.00	4.55	0.00	0.00	0.03	88.57	0.00	0.00	4352.20
25-Jun-23	218.91	117.91	143.31	0.00	0.00	6.50	0.00	0.00	0.00	107.32	0.00	0.00	3954.63
26-Jun-23	231.15	114.48	130.68	0.00	0.00	5.92	0.00	0.00	0.00	102.99	0.00	0.00	3912.53
27-Jun-23	217.27	109.19	130.15	0.00	0.00	6.39	0.00	0.00	0.00	96.06	0.00	0.00	4012.92
28-Jun-23	227.36	108.06	127.56	0.03	0.00	11.81	0.00	0.00	0.00	89.32	0.00	0.00	3971.02
29-Jun-23	210.36	107.14	130.55	0.00	0.00	7.55	0.00	0.00	0.00	100.82	0.00	0.00	3884.32
30-Jun-23	212.59	107.21	124.03	0.00	0.00	6.79	0.00	0.00	0.00	118.06	0.00	0.00	3788.31
<b>Total</b>	<b>7216.74</b>	<b>3282.04</b>	<b>4123.34</b>	<b>0.03</b>	<b>0.00</b>	<b>167.36</b>	<b>0.00</b>	<b>0.00</b>	<b>0.53</b>	<b>2675.25</b>	<b>0.00</b>	<b>0.00</b>	<b>127173.42</b>

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.

<sup>#</sup> Scheduled volume of all the bid areas.

Table-28(a): PRICE OF DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), JUNE 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-Jun-23	2.89	10.00	5.82	-	-	-	-	-	-	11.77	11.77	11.77
2-Jun-23	2.64	10.00	5.48	-	-	-	-	-	-	10.00	11.77	11.45
3-Jun-23	2.83	10.00	5.65	-	-	-	-	-	-	11.77	11.77	11.77
4-Jun-23	2.70	10.00	5.77	-	-	-	-	-	-	11.77	11.77	11.77
5-Jun-23	3.15	10.00	5.52	-	-	-	-	-	-	-	-	-
6-Jun-23	3.40	10.00	5.95	-	-	-	-	-	-	20.00	20.00	20.00
7-Jun-23	3.29	10.00	6.04	-	-	-	-	-	-	10.00	20.00	19.20
8-Jun-23	3.32	10.00	5.73	-	-	-	-	-	-	10.00	20.00	10.78
9-Jun-23	3.65	10.00	6.05	-	-	-	-	-	-	10.00	11.27	10.10
10-Jun-23	3.55	10.00	5.95	-	-	-	-	-	-	10.00	20.00	12.96
11-Jun-23	2.76	10.00	5.27	-	-	-	-	-	-	10.00	11.27	11.03
12-Jun-23	2.96	10.00	5.57	-	-	-	-	-	-	11.00	11.00	11.00
13-Jun-23	2.00	10.00	5.41	-	-	-	-	-	-	10.00	11.00	10.84
14-Jun-23	2.00	10.00	5.56	-	-	-	-	-	-	10.00	10.50	10.45
15-Jun-23	2.00	10.00	5.08	-	-	-	-	-	-	10.00	10.50	10.31
16-Jun-23	2.00	10.00	5.71	-	-	-	-	-	-	10.00	10.50	10.45
17-Jun-23	3.00	10.00	6.46	-	-	-	-	-	-	10.00	20.00	10.37
18-Jun-23	1.33	10.00	5.12	-	-	-	-	-	-	10.05	20.00	16.03
19-Jun-23	1.86	10.00	5.14	-	-	-	-	-	-	10.00	10.50	10.22
20-Jun-23	2.11	10.00	5.00	-	-	-	-	-	-	-	-	-
21-Jun-23	2.78	10.00	5.52	-	-	-	-	-	-	-	-	-
22-Jun-23	2.73	10.00	5.34	-	-	-	-	-	-	10.05	10.50	10.49
23-Jun-23	2.10	10.00	4.93	-	-	-	-	-	-	10.00	10.50	10.46
24-Jun-23	2.70	10.00	5.28	-	-	-	-	-	-	10.00	10.50	10.16
25-Jun-23	1.50	10.00	4.36	-	-	-	-	-	-	10.00	10.50	10.20
26-Jun-23	1.50	10.00	3.05	-	-	-	-	-	-	10.05	10.05	10.05
27-Jun-23	1.99	6.50	3.20	-	-	-	-	-	-	-	-	-
28-Jun-23	1.99	9.16	3.66	10.00	10.00	10.00	-	-	-	-	-	-
29-Jun-23	2.00	5.00	2.90	-	-	-	-	-	-	-	-	-
30-Jun-23	2.00	9.06	3.67	-	-	-	-	-	-	-	-	-
	<b>1.33<sup>#</sup></b>	<b>10.00<sup>#</sup></b>	<b>5.16</b>	<b>10.00<sup>#</sup></b>	<b>10.00<sup>#</sup></b>	<b>10.00</b>	-	-	-	<b>10.00<sup>#</sup></b>	<b>20.00<sup>#</sup></b>	<b>11.52</b>
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.												
<sup>#</sup> Maximum/Minimum in the month												

Table-28(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), JUNE 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-Jun-23	3.40	10.00	5.22	-	-	-	-	-	-
2-Jun-23	3.60	10.00	5.31	-	-	-	-	-	-
3-Jun-23	3.75	10.00	5.84	-	-	-	-	-	-
4-Jun-23	2.20	10.00	4.81	-	-	-	-	-	-
5-Jun-23	3.70	10.00	5.63	-	-	-	-	-	-
6-Jun-23	3.50	10.00	5.44	-	-	-	-	-	-
7-Jun-23	3.75	10.00	5.42	-	-	-	-	-	-
8-Jun-23	4.10	10.00	5.91	-	-	-	-	-	-
9-Jun-23	4.00	10.00	5.90	-	-	-	-	-	-
10-Jun-23	3.50	10.00	5.50	-	-	-	-	-	-
11-Jun-23	3.10	10.00	5.42	-	-	-	-	-	-
12-Jun-23	3.55	10.00	5.46	-	-	-	-	-	-
13-Jun-23	3.50	10.00	5.31	-	-	-	-	-	-
14-Jun-23	3.50	10.00	5.65	-	-	-	-	-	-
15-Jun-23	3.51	10.00	5.20	-	-	-	-	-	-
16-Jun-23	3.00	10.00	4.98	-	-	-	-	-	-
17-Jun-23	4.10	10.00	6.46	-	-	-	-	-	-
18-Jun-23	3.00	10.00	5.47	-	-	-	-	-	-
19-Jun-23	3.16	10.00	5.63	-	-	-	-	-	-
20-Jun-23	3.30	10.00	5.46	-	-	-	-	-	-
21-Jun-23	3.30	10.00	5.14	-	-	-	-	-	-
22-Jun-23	3.60	10.00	5.52	-	-	-	-	-	-
23-Jun-23	3.30	10.00	5.75	-	-	-	-	-	-
24-Jun-23	3.30	10.00	5.22	-	-	-	-	-	-
25-Jun-23	3.00	10.00	4.41	-	-	-	-	-	-
26-Jun-23	3.00	10.00	4.80	-	-	-	-	-	-
27-Jun-23	2.87	6.46	3.76	-	-	-	-	-	-
28-Jun-23	1.84	6.26	2.73	-	-	-	-	-	-
29-Jun-23	2.50	6.30	3.43	-	-	-	-	-	-
30-Jun-23	2.00	5.50	3.35	-	-	-	-	-	-
	<b>1.84<sup>#</sup></b>	<b>10.00<sup>#</sup></b>	<b>4.95</b>	-	-	-	-	-	-
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.									
<sup>#</sup> Maximum/Minimum in the month									



**Table-28(c): PRICE OF REAL TIME TRANSACTIONS (DAY-WISE) (₹/kWh), JUNE 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-Jun-23	1.37	10.00	5.07	-	-	-	-	-	-
2-Jun-23	2.00	10.00	5.65	-	-	-	-	-	-
3-Jun-23	3.50	10.00	7.42	-	-	-	-	-	-
4-Jun-23	1.78	10.00	4.15	-	-	-	-	-	-
5-Jun-23	2.74	10.00	6.34	-	-	-	-	-	-
6-Jun-23	3.10	10.00	6.93	-	-	-	-	-	-
7-Jun-23	2.00	10.00	5.58	-	-	-	-	-	-
8-Jun-23	3.10	10.00	6.79	-	-	-	-	-	-
9-Jun-23	2.26	10.00	6.25	-	-	-	-	-	-
10-Jun-23	1.70	10.00	5.38	-	-	-	-	-	-
11-Jun-23	1.00	10.00	4.35	-	-	-	-	-	-
12-Jun-23	1.74	10.00	4.84	-	-	-	-	-	-
13-Jun-23	2.00	10.00	5.75	-	-	-	-	-	-
14-Jun-23	1.24	10.00	5.11	-	-	-	-	-	-
15-Jun-23	1.96	10.00	6.13	-	-	-	-	-	-
16-Jun-23	1.50	10.00	7.05	-	-	-	-	-	-
17-Jun-23	1.90	10.00	6.16	-	-	-	-	-	-
18-Jun-23	1.50	10.00	4.36	-	-	-	-	-	-
19-Jun-23	1.50	10.00	4.98	-	-	-	-	-	-
20-Jun-23	1.97	10.00	4.38	-	-	-	-	-	-
21-Jun-23	1.58	10.00	5.24	-	-	-	-	-	-
22-Jun-23	2.00	10.00	5.11	-	-	-	-	-	-
23-Jun-23	2.00	10.00	4.91	-	-	-	-	-	-
24-Jun-23	1.80	6.80	3.85	-	-	-	-	-	-
25-Jun-23	0.98	4.51	2.25	-	-	-	-	-	-
26-Jun-23	1.10	6.45	2.73	-	-	-	-	-	-
27-Jun-23	1.80	5.75	3.26	-	-	-	-	-	-
28-Jun-23	1.50	5.50	3.16	-	-	-	-	-	-
29-Jun-23	1.30	5.00	3.07	-	-	-	-	-	-
30-Jun-23	1.38	5.50	3.08	-	-	-	-	-	-
	<b>0.98#</b>	<b>10.00#</b>	<b>4.85</b>	-	-	-	-	-	-

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: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY\*-WISE)  
(MUs), JUNE 2023**

Name of the Entity	Through Bilateral (Traders + PXs + Direct)			Through Power Exchange (DAM + GDAM + HPDAM + RTM)			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	
PUNJAB	1.30	862.10	860.80	301.52	550.24	248.72	1109.52
HARYANA	18.21	1139.83	1121.62	259.71	92.05	-167.66	953.97
RAJASTHAN	370.75	493.55	122.80	597.31	107.12	-490.19	-367.39
DELHI	38.03	1095.13	1057.09	456.60	29.43	-427.17	629.93
UTTAR PRADESH	12.55	1624.60	1612.05	257.49	318.32	60.84	1672.89
UTTARAKHAND	40.53	138.17	97.63	76.38	55.85	-20.53	77.10
HIMACHAL PRADESH	639.58	22.29	-617.29	341.05	66.47	-274.59	-891.88
J & K	256.94	4.45	-252.49	143.27	63.88	-79.39	-331.88
CHANDIGARH	0.00	0.00	0.00	31.44	2.60	-28.84	-28.84
MP	482.84	137.40	-345.43	416.64	52.16	-364.47	-709.90
MAHARASHTRA	163.15	930.42	767.28	103.36	1240.73	1137.37	1904.65
GUJARAT	116.54	667.98	551.44	58.07	430.66	372.60	924.04
CHHATTISGARH	78.23	73.50	-4.73	359.81	31.16	-328.65	-333.39
GOA	16.20	61.52	45.32	7.67	57.88	50.21	95.53
DD&DNH	0.00	138.07	138.07	1.64	150.32	148.68	286.75
ANDHRA PRADESH	80.79	299.66	218.86	93.11	562.92	469.81	688.67
KARNATAKA	537.42	11.60	-525.82	137.91	87.58	-50.33	-576.15
KERALA	76.76	342.28	265.51	7.56	236.69	229.13	494.65
TAMIL NADU	449.00	601.68	152.68	79.65	276.31	196.66	349.34
PONDICHERRY	0.00	22.53	22.53	30.67	0.29	-30.38	-7.85
TELANGANA	117.96	339.52	221.56	74.42	631.54	557.11	778.67
WEST BENGAL	71.91	707.54	635.63	64.84	960.96	896.12	1531.74
ODISHA	75.95	258.23	182.28	91.97	162.86	70.89	253.18
BIHAR	15.16	11.38	-3.78	296.44	53.03	-243.41	-247.19
JHARKHAND	0.00	157.32	157.32	60.41	139.47	79.06	236.38
SIKKIM	22.42	15.48	-6.94	14.17	2.17	-12.00	-18.94
DVC	137.47	30.09	-107.38	34.25	67.77	33.52	-73.85
ARUNACHAL PRADESH	21.73	0.00	-21.73	18.57	2.59	-15.97	-37.71
ASSAM	0.00	51.08	51.08	106.07	229.13	123.06	174.13
MANIPUR	0.60	0.00	-0.60	16.90	3.17	-13.73	-14.33
MEGHALAYA	104.46	3.85	-100.61	10.32	57.82	47.50	-53.11
MIZORAM	0.00	0.00	0.00	6.37	0.00	-6.37	-6.37
NAGALAND	0.00	4.11	4.11	5.55	4.57	-0.98	3.13
TRIPURA	0.00	0.00	0.00	8.11	39.43	31.32	31.32
NTPC STATIONS-NR	107.53	0.00	-107.53	15.55	0.00	-15.55	-123.08
NEP	0.00	0.00	0.00	0.00	22.25	22.25	22.25
TEHRI	16.80	0.00	-16.80	0.00	0.00	0.00	-16.80
AD HYDRO	52.29	0.00	-52.29	54.95	0.00	-54.95	-107.24
KARCHAM WANGTOO	43.37	0.00	-43.37	33.06	0.00	-33.06	-76.44
SHREE CEMENT	123.26	0.00	-123.26	17.65	1.24	-16.41	-139.67
LANCO BUDHIL	0.00	0.00	0.00	5.30	0.00	-5.30	-5.30
SORANG HEP	36.41	0.00	-36.41	8.63	0.00	-8.63	-45.03
SAINJ HEP	29.47	0.00	-29.47	30.74	0.32	-30.42	-59.89
SB_SLR	13.33	0.00	-13.33	2.46	0.00	-2.46	-15.79
ASEJTL_SLR	0.00	0.00	0.00	10.99	0.00	-10.99	-10.99
SINGOLI BHATWARI HEP	31.26	0.00	-31.26	21.35	0.00	-21.35	-52.61
AHEJ4L_WIND	131.44	0.00	-131.44	0.00	0.00	0.00	-131.44
AHEJ4L_SOLAR	159.95	0.00	-159.95	0.00	0.00	0.00	-159.95
AVAADASN_SLR	71.18	0.00	-71.18	0.00	0.00	0.00	-71.18
NCR ALLAHABAD	0.00	0.00	0.00	0.00	27.10	27.10	27.10
RENEW_SR_SLR	23.29	0.00	-23.29	40.67	0.00	-40.67	-63.95
THARI_SLR	54.67	0.00	-54.67	0.00	0.00	0.00	-54.67
ACME_HEERGARH	55.52	0.00	-55.52	0.00	0.00	0.00	-55.52
ABC_BHDL2	67.58	0.00	-67.58	0.00	0.00	0.00	-67.58
KOLYAT_SLR	89.48	0.00	-89.48	0.00	0.00	0.00	-89.48
TATA_GREEN	48.85	0.00	-48.85	0.00	0.00	0.00	-48.85
NTPC STATIONS-WR	1.76	0.00	-1.76	6.45	0.81	-5.64	-7.40
JINDAL POWER	342.26	0.00	-342.26	59.60	2.36	-57.24	-399.50

LANKO_AMK	9.72	0.00	-9.72	0.00	0.00	0.00	-9.72
ACBIL	59.03	0.00	-59.03	54.33	0.26	-54.06	-113.09
BALCO	0.00	12.05	12.05	1.94	31.85	29.91	41.96
CGPL	0.00	0.00	0.00	0.35	0.00	-0.35	-0.35
DCPP	0.00	0.00	0.00	90.58	2.81	-87.78	-87.78
EMCO	5.40	0.00	-5.40	13.71	0.00	-13.71	-19.11
KSK MAHANADI	0.00	0.00	0.00	3.57	0.00	-3.57	-3.57
ESSAR POWER	427.63	0.00	-427.63	101.41	0.12	-101.29	-528.92
JINDAL STAGE-II	440.24	0.00	-440.24	93.30	14.03	-79.28	-519.52
DB POWER	163.26	0.00	-163.26	60.39	0.00	-60.39	-223.65
DHARIWAL POWER	29.41	0.00	-29.41	7.87	0.00	-7.87	-37.29
JAYPEE NIGRIE	385.30	0.00	-385.30	106.18	0.00	-106.18	-491.48
DGEN MEGA POWER	2.59	0.00	-2.59	2.28	0.00	-2.28	-4.87
MB POWER	96.72	0.00	-96.72	141.74	0.00	-141.74	-238.46
MARUTI COAL	12.76	0.00	-12.76	15.50	0.00	-15.50	-28.26
JHABUA POWER_MP	75.72	0.00	-75.72	46.42	0.34	-46.08	-121.81
SASAN UMPP	0.00	0.00	0.00	22.25	0.00	-22.25	-22.25
TRN ENERGY	12.06	0.00	-12.06	18.74	0.00	-18.74	-30.79
RKM POWER	417.13	0.00	-417.13	53.96	0.00	-53.96	-471.09
SKS POWER	130.20	0.00	-130.20	67.22	2.50	-64.73	-194.93
KAPP 3&4	0.00	0.00	0.00	157.27	0.00	-157.27	-157.27
INOX_BHUJ	3.17	0.00	-3.17	1.97	0.00	-1.97	-5.14
REGL	7.59	0.00	-7.59	8.15	0.00	-8.15	-15.75
RPREL	590.77	0.00	-590.77	125.13	0.00	-125.13	-715.90
AMPS Hazira	0.00	241.37	241.37	0.00	45.53	45.53	286.90
RGPL IR	0.00	0.00	0.00	0.00	0.31	0.31	0.31
ADANI_WIND	21.29	0.00	-21.29	14.94	0.00	-14.94	-36.23
CONTINNUM PT	20.23	0.00	-20.23	7.78	0.00	-7.78	-28.01
RENERGY5_WIND	5.14	0.00	-5.14	13.45	0.00	-13.45	-18.59
NTPC STATIONS-SR	266.15	0.00	-266.15	15.94	0.00	-15.94	-282.09
SIMHAPURI	177.73	0.00	-177.73	5.00	1.34	-3.66	-181.39
COASTGEN	52.96	0.00	-52.96	23.60	0.00	-23.60	-76.56
IL&FS	314.18	0.00	-314.18	0.32	0.00	-0.32	-314.50
NLC	33.60	0.00	-33.60	4.26	0.00	-4.26	-37.86
SEMBCORP	102.99	0.00	-102.99	107.35	0.00	-107.35	-210.34
OSTRO Hiriyur	18.78	0.00	-18.78	17.20	0.00	-17.20	-35.98
NTPC STATIONS-ER	0.00	0.00	0.00	167.13	0.00	-167.13	-167.13
NPGC	0.00	0.00	0.00	2.55	0.00	-2.55	-2.55
ADHUNIK POWER LTD	136.87	0.00	-136.87	5.40	0.00	-5.40	-142.26
CHUZACHEN HEP	0.00	0.00	0.00	6.84	0.00	-6.84	-6.84
GMR KAMALANGA	53.96	0.00	-53.96	0.76	0.00	-0.76	-54.72
JITPL	308.06	0.00	-308.06	157.38	0.00	-157.38	-465.44
TEESTA HEP	457.22	0.00	-457.22	176.88	0.00	-176.88	-634.09
DAGACHU	31.61	0.00	-31.61	0.00	0.00	0.00	-31.61
JORETHANG	1.66	0.00	-1.66	2.12	0.00	-2.12	-3.78
NEPAL(NVVN)	0.00	0.00	0.00	118.36	46.16	-72.20	-72.20
DIKCHU HEP	53.13	0.00	-53.13	10.32	0.00	-10.32	-63.45
TASHIDENG HEP	3.63	0.00	-3.63	2.55	0.00	-2.55	-6.19
NTPC STATIONS-NER	0.00	0.00	0.00	2.71	0.00	-2.71	-2.71
NEEPCO STATIONS	120.67	0.00	-120.67	20.59	0.00	-20.59	-141.262
ONGC PALATANA	4.03	0.00	-4.03	12.14	0.00	-12.14	-16.17

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-30: VOLUME AND CHARGES UNDER DSM (DAY-WISE), JUNE 2023				
Date	Volume (MU)	All India Grid Charges (₹/kWh)		
		Minimum	Maximum	Average
1-Jun-23	73.39	2.00	10.05	6.12
2-Jun-23	64.14	2.66	10.13	6.19
3-Jun-23	67.76	2.83	10.07	7.05
4-Jun-23	85.50	2.70	10.01	5.76
5-Jun-23	66.53	2.74	10.00	6.46
6-Jun-23	78.34	3.40	10.64	7.09
7-Jun-23	70.62	3.29	11.88	6.62
8-Jun-23	73.83	3.34	10.20	6.79
9-Jun-23	70.57	3.40	10.04	6.78
10-Jun-23	78.76	3.40	13.71	6.59
11-Jun-23	80.54	2.76	10.01	5.32
12-Jun-23	76.95	2.76	10.13	5.78
13-Jun-23	83.21	2.50	10.05	6.03
14-Jun-23	86.21	2.37	10.40	5.96
15-Jun-23	113.67	2.00	10.04	6.30
16-Jun-23	86.95	2.00	10.05	7.00
17-Jun-23	86.61	3.00	10.32	6.89
18-Jun-23	83.51	1.60	10.46	5.65
19-Jun-23	78.28	1.86	10.03	5.93
20-Jun-23	75.16	2.13	10.00	5.79
21-Jun-23	72.35	2.78	10.00	6.26
22-Jun-23	67.04	2.73	10.03	5.89
23-Jun-23	71.09	2.70	10.02	5.35
24-Jun-23	72.35	2.70	10.06	5.61
25-Jun-23	88.23	1.50	10.01	4.23
26-Jun-23	81.42	1.52	10.00	3.45
27-Jun-23	74.82	2.00	6.50	3.52
28-Jun-23	76.66	1.95	9.16	3.86
29-Jun-23	75.45	2.00	5.31	3.25
30-Jun-23	76.10	2.00	9.06	3.86
<b>Total</b>	<b>2336.03</b>	<b>1.50<sup>#</sup></b>	<b>13.71<sup>#</sup></b>	<b>5.71</b>
Source: NLDC				
<sup>#</sup> Maximum/Minimum in the month				

<b>Table-31: VOLUME OF ELECTRICITY UNDER DRAVAL (EXPORTED) THROUGH DSM, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Under drawal (MUs)</b>	<b>% of Volume</b>
RAJASTHAN	160.66	6.66
GUJARAT	141.40	5.86
UTTAR PRADESH	128.61	5.33
MP	117.16	4.86
TAMIL NADU	105.19	4.36
PUNJAB	98.03	4.06
NTPC STATIONS-NR	70.96	2.94
MAHARASHTRA	70.69	2.93
HARYANA	69.08	2.86
KARNATAKA	62.67	2.60
ANDHRA PRADESH	60.69	2.52
DELHI	60.34	2.50
NTPC STATIONS-WR	56.99	2.36
CHHATTISGARH	53.03	2.20
TELANGANA	48.16	2.00
NHPC STATIONS	44.04	1.83
ODISHA	43.56	1.81
NTPC STATIONS-SR	37.53	1.56
J & K	32.87	1.36
NTPC STATIONS-ER	32.31	1.34
BIHAR	31.38	1.30
DVC	27.77	1.15
SASAN UMPP	25.12	1.04
KAPP 3&4	22.69	0.94
JHARKHAND	22.61	0.94
AMPS Hazira	21.83	0.90
UTTARAKHAND	21.53	0.89
IGSTPS	16.78	0.70
NEPAL(NVVN)	15.62	0.65
JINDAL STAGE-II	15.43	0.64
NEEPCO STATIONS	14.37	0.60
BBMB	14.33	0.59
TEESTA STG3	14.09	0.58
NLC	13.58	0.56
ASSAM	11.79	0.49
WEST BENGAL	11.70	0.49
HIMACHAL PRADESH	11.41	0.47
TEESTA HEP	10.96	0.45
DD&DNH	10.92	0.45
SBESS	10.85	0.45
PONDICHERRY	10.70	0.44
RKM POWER	10.37	0.43
AGEMPL BHUJ	9.95	0.41
GIWEL_TCN	9.82	0.41
NJPC	9.78	0.41
GOA	9.42	0.39
JSW_RENEW_2	9.27	0.38
MAITHON POWER LTD	9.16	0.38
LANKO_AMK	9.06	0.38
GIWEL_BHUJ	8.83	0.37
OSTRO Hiriyur	8.69	0.36
JINDAL POWER	8.64	0.36
ORANGE_TCN	8.58	0.36
AZURE43_SLR	8.11	0.34
MEGHALAYA	7.79	0.32
NPGC	7.59	0.31
RAMPUR HEP	7.49	0.31
AVAADASN_SLR	7.45	0.31
GMR KAMALANGA	7.18	0.30
MYTRAH_TCN	7.08	0.29

SKRPL	6.69	0.28
KARCHAM WANGTOO	6.66	0.28
OSTRO	6.59	0.27
MIZORAM	6.46	0.27
ARUNACHAL PRADESH	6.40	0.27
BETAM_TCN	6.15	0.25
ACME_HEERGARH	6.13	0.25
CHANDIGARH	5.94	0.25
JITPL	5.86	0.24
RENEW_BHACHAU	5.56	0.23
TATA_ANTP	5.53	0.23
ESSAR POWER	5.53	0.23
TRIPURA	5.50	0.23
ALFANAR_BHUJ	5.48	0.23
GSECL_Radhanesda	5.46	0.23
INOX_BHUJ	5.40	0.22
RENEW_BHUJ	5.35	0.22
SPRING_PUGALUR	5.28	0.22
CLEAN_SLR	5.15	0.21
BALCO	5.09	0.21
ARINSUM_RUMS	5.07	0.21
ASEJTL_SLR	4.91	0.20
ABC_BHDL2	4.59	0.19
THAR1_SLR	4.57	0.19
RENEWSB	4.54	0.19
AYANA_RP1	4.49	0.19
AVADARJHN_SLR	4.41	0.18
MSUPL_BHDL2	4.29	0.18
AZURE41_SLR	4.27	0.18
NAPP	4.23	0.18
FORTUM2_PVGD	4.17	0.17
MANIPUR	4.16	0.17
DAGACHU	4.10	0.17
AYANA_NPKUNTA	4.06	0.17
KERALA	4.05	0.17
BRBCL,NABINAGAR	3.90	0.16
ACME_RUMS	3.90	0.16
ADANI_WIND	3.88	0.16
ACME_SLR	3.86	0.16
SBG_NPK	3.84	0.16
SBSR_SLR	3.81	0.16
MB POWER	3.81	0.16
SESPL	3.76	0.16
RPREL	3.74	0.16
RENEW_SR_SLR	3.72	0.15
ADY1_PVGD	3.68	0.15
RENEW_SLR_BKN	3.59	0.15
TASHIDENG HEP	3.54	0.15
NAGALAND	3.52	0.15
AVIKIRAN	3.34	0.14
NETCL VALLUR	3.34	0.14
RENEWURJA_SLR	3.27	0.14
EDEN_SLR	3.24	0.13
CLEANSPL_SLR	3.12	0.13
JHABUA POWER_MP	3.12	0.13
JAYPEE NIGRIE	3.10	0.13
MAHINDRA_RUMS	3.09	0.13
NTPC_ANTP	3.05	0.13
SIKKIM	3.03	0.13
JORETHANG	2.95	0.12
SB6_POKARAN	2.77	0.11
DB POWER	2.75	0.11
BANGLADESH	2.67	0.11

RENEWSW_SLR	2.64	0.11
NTPL	2.61	0.11
APRAAVA	2.60	0.11
MRPL	2.59	0.11
CHUZACHEN HEP	2.56	0.11
TEHRI	2.56	0.11
RONGNICHU HEP	2.50	0.10
BARC	2.50	0.10
ESPL_RADHANESDA	2.48	0.10
SB_SLR	2.47	0.10
AVAADA1_PVGD	2.43	0.10
RAIL	2.43	0.10
NTPC STATIONS-NER	2.39	0.10
ARERJL_SLR	2.37	0.10
RENEWJH_SLR	2.28	0.09
YARROW_PVGD	2.21	0.09
PARAM_PVGD	2.21	0.09
ADHUNIK POWER LTD	2.14	0.09
CGPL	2.13	0.09
NSPCL	2.10	0.09
RANGANADI HEP	2.07	0.09
KSK MAHANADI	2.07	0.09
AD HYDRO	2.05	0.09
DIKCHU HEP	2.01	0.08
RSTPS_FSPP	1.98	0.08
MTPS II	1.92	0.08
TATA_GREEN	1.91	0.08
NEP	1.91	0.08
TRN ENERGY	1.89	0.08
AVAADA2_PVGD	1.86	0.08
SINGOLI BHATWARI HEP	1.85	0.08
SENBCORP	1.77	0.07
AZURE_SLR	1.75	0.07
NETRA WIND	1.62	0.07
KOTESHWAR	1.58	0.07
SPRNG_NPKUNTA	1.52	0.06
AZURE_MAPLE_SLR	1.52	0.06
DCPP	1.47	0.06
AZURE_PVGD	1.47	0.06
SHREE CEMENT	1.42	0.06
SKS POWER	1.38	0.06
ONGC PALATANA	1.37	0.06
FORTUM1_PVGD	1.36	0.06
TPREL_RADHANESDA	1.32	0.05
GIPCL_RADHANESDA	1.31	0.05
TATA_SLR	1.31	0.05
ACBIL	1.27	0.05
POWERICA	1.26	0.05
KREDL_PVGD	1.24	0.05
THERMAL POWERTECH	1.16	0.05
GRT_JPL	1.16	0.05
RGPPL	1.16	0.05
SORANG HEP	1.09	0.05
EMCO	1.07	0.04
RAP C	1.07	0.04
SAINJ HEP	1.06	0.04
ADANI GREEN	0.96	0.04
ABSP_ANTP	0.95	0.04
RANGIT HEP	0.93	0.04
COASTGEN	0.87	0.04
RENEW_SLR	0.86	0.04
AKSP_ANTP	0.80	0.03
KSMPL_SLR	0.79	0.03

DHARIWAL POWER	0.78	0.03
AZURE34_SLR	0.77	0.03
AHSP_ANTP	0.75	0.03
FRV_NPK	0.75	0.03
AKS_PVGD	0.71	0.03
TATA_PVGD	0.69	0.03
ARS_PVGD	0.68	0.03
RENEW_PVGD	0.64	0.03
AZURE_ANTP	0.61	0.03
FRV_ANTP	0.59	0.02
TP SAURYA	0.58	0.02
DGEN MEGA POWER	0.56	0.02
IL&FS	0.51	0.02
RAP B	0.48	0.02
PARE HEP	0.46	0.02
LANCO BUDHIL	0.41	0.02
SIMHAPURI	0.41	0.02
SBG_PVGD	0.37	0.02
DOYANG HEP	0.28	0.01
HVDC CHAMPA	0.20	0.01
NFF	0.16	0.01
VINDHYACHAL HVDC	0.13	0.01
LOKTAK	0.10	0.004
Railways_ER ISTS	0.09	0.004
HVDC PUS	0.08	0.003
HVDC ALPD	0.07	0.003
HVDC RAIGARH	0.04	0.002
SRSSFPL	0.03	0.001
BHADRAVATHI HVDC	0.01	0.0002
<b>Total</b>	<b>2412.78</b>	<b>100.00</b>
<b>Volume Exported by top 5 Regional Entities</b>	<b>653.02</b>	<b>27.07</b>



<b>Table-32: VOLUME OF ELECTRICITY OVER DRAVAL (IMPORTED) THROUGH DSM, JUNE 2023</b>		
<b>Name of the Entity</b>	<b>Volume of Over drawal (MUs)</b>	<b>% of Volume</b>
NTPC STATIONS-NR	133.33	5.90
MAHARASHTRA	124.61	5.52
NTPC STATIONS-WR	123.09	5.45
NTPC STATIONS-ER	110.87	4.91
KARNATAKA	92.77	4.11
WEST BENGAL	83.52	3.70
GUJARAT	78.95	3.49
NTPC STATIONS-SR	65.63	2.90
ANDHRA PRADESH	63.30	2.80
BIHAR	53.93	2.39
UTTAR PRADESH	52.71	2.33
HARYANA	50.61	2.24
RAJASTHAN	48.41	2.14
TELANGANA	42.87	1.90
TAMIL NADU	40.85	1.81
DVC	39.78	1.76
KERALA	38.59	1.71
ODISHA	34.11	1.51
JHARKHAND	34.01	1.51
J & K	26.87	1.19
CGPL	25.17	1.11
UTTARAKHAND	23.25	1.03
ASSAM	22.41	0.99
AGEMPL BHUJ	21.48	0.95
PUNJAB	21.16	0.94
AMPS Hazira	20.30	0.90
HIMACHAL PRADESH	18.36	0.81
INOX_BHUJ	17.05	0.75
GIWEL_BHUJ	16.28	0.72
NHPC STATIONS	16.06	0.71
CHHATTISGARH	15.96	0.71
MP	15.28	0.68
BALCO	15.20	0.67
IGSTPS	15.17	0.67
NLC	14.59	0.65
NEP	13.01	0.58
NEPAL(NVVN)	12.66	0.56
GOA	12.41	0.55
SBESS	11.47	0.51
TRIPURA	11.29	0.50
MYTRAH_TCN	10.95	0.48
OSTRO Hiriyur	10.93	0.48
GIWEL_TCN	10.88	0.48
THERMAL POWERTECH	10.79	0.48
ESSAR POWER	10.63	0.47
NETCL VALLUR	10.42	0.46
ASEJTL_SLR	9.99	0.44
JSW_RENEW_2	9.83	0.44
SKRPL	9.69	0.43
BETAM_TCN	9.68	0.43
AVAADASN_SLR	9.19	0.41
ORANGE_TCN	9.03	0.40
ALFANAR_BHUJ	9.03	0.40
OSTRO	8.88	0.39
THAR1_SLR	8.86	0.39
JINDAL STAGE-II	8.78	0.39
TEESTA STG3	8.24	0.36
NPGC	8.00	0.35
KAPP 3&4	7.95	0.35
RENEW_BHACHAU	7.86	0.35

TATA_ANTP	7.74	0.34
RENEW_BHUI	7.59	0.34
BRBCL,NABINAGAR	7.53	0.33
AVADARJHN_SLR	7.52	0.33
DELHI	7.14	0.32
ARUNACHAL PRADESH	6.57	0.29
NTPL	6.57	0.29
SHREE CEMENT	6.46	0.29
ADANI_WIND	6.39	0.28
CHANDIGARH	6.37	0.28
AZURE43_SLR	6.30	0.28
TATA_GREEN	6.28	0.28
AVIKIRAN	6.19	0.27
NTPC STATIONS-NER	6.04	0.27
SEBPCORP	5.22	0.23
RENEW_SR_SLR	5.19	0.23
RAIL	5.09	0.23
DB POWER	5.04	0.22
RKM POWER	4.85	0.21
ADY1_PVGD	4.63	0.20
KARCHAM WANGTOO	4.60	0.20
JHABUA POWER_MP	4.48	0.20
SESPL	4.46	0.20
AZURE_MAPLE_SLR	4.45	0.20
ACME_RUMS	4.41	0.19
NJPC	4.39	0.19
MAHINDRA_RUMS	4.34	0.19
MB POWER	4.34	0.19
SBG_NPK	4.32	0.19
MEGHALAYA	4.17	0.18
DAGACHU	4.14	0.18
SIKKIM	4.14	0.18
APRAAVA	4.10	0.18
RENEWJH_SLR	4.08	0.18
RENEWSW_SLR	4.06	0.18
MTPS II	4.00	0.18
Railways_ER ISTS	3.99	0.18
ABC_BHDL2	3.94	0.17
YARROW_PVGD	3.82	0.17
AYANA_RP1	3.72	0.16
EDEN_SLR	3.69	0.16
FORTUM2_PVGD	3.61	0.16
AYANA_NPKUNTA	3.57	0.16
CLEAN_SLR	3.51	0.16
NEEPCO STATIONS	3.48	0.15
DD&DNH	3.46	0.15
PONDICHERRY	3.43	0.15
RENEWURJA_SLR	3.42	0.15
ESPL_RADHANESDA	3.41	0.15
ARINSUM_RUMS	3.36	0.15
BANGLADESH	3.32	0.15
SPRING_PUGALUR	3.31	0.15
CLEANSR_SLR	3.30	0.15
RENEWSB	3.12	0.14
SB6_POKARAN	3.12	0.14
TATA_SLR	3.08	0.14
RENEW_SLR_BKN	3.07	0.14
SBSR_SLR	3.03	0.13
NSPCL	2.98	0.13
AZURE_SLR	2.96	0.13
RPREL	2.95	0.13
NAPP	2.86	0.13
AZURE41_SLR	2.82	0.12

ACME_SLR	2.78	0.12
MRPL	2.66	0.12
DGEN MEGA POWER	2.61	0.12
ADHUNIK POWER LTD	2.42	0.11
RGPPL	2.42	0.11
NTPC_ANTP	2.41	0.11
ARERJL_SLR	2.41	0.11
ACME_HEERGARH	2.40	0.11
MAITHON POWER LTD	2.39	0.11
AVAADA2_PVGD	2.26	0.10
SIMHAPURI	2.26	0.10
AVAADA1_PVGD	2.25	0.10
PARAM_PVGD	2.23	0.10
MSUPL_BHDL2	2.23	0.10
IL&FS	2.21	0.10
SB_SLR	2.20	0.10
NETRA WIND	2.18	0.10
TPREL_RADHANESDA	2.06	0.09
GRT_JPL	2.03	0.09
RSTPS_FSPP	2.03	0.09
MANIPUR	2.01	0.09
JITPL	2.00	0.09
POWERICA	2.00	0.09
AZURE34_SLR	1.98	0.09
SASAN UMPP	1.90	0.08
SPRNG_NPKUNTA	1.78	0.08
DHARIWAL POWER	1.75	0.08
TP SAURYA	1.75	0.08
GIPCL_RADHANESDA	1.74	0.08
ACBIL	1.71	0.08
EMCO	1.63	0.07
DIKCHU HEP	1.60	0.07
FORTUM1_PVGD	1.56	0.07
COASTGEN	1.54	0.07
AZURE_PVGD	1.50	0.07
RAP C	1.37	0.06
RENEW_PVGD	1.32	0.06
RONGNICHU HEP	1.27	0.06
RANGANADI HEP	1.26	0.06
CHUZACHEN HEP	1.19	0.05
TEHRI	1.17	0.05
JINDAL POWER	1.09	0.05
FRV_ANTP	1.07	0.05
SORANG HEP	1.04	0.05
SKS POWER	1.02	0.05
GMR KAMALANGA	1.00	0.04
AD HYDRO	1.00	0.04
ARS_PVGD	0.93	0.04
TASHIDENG HEP	0.92	0.04
AHSP_ANTP	0.89	0.04
AKS_PVGD	0.89	0.04
TATA_PVGD	0.88	0.04
RAP B	0.86	0.04
AKSP_ANTP	0.84	0.04
FRV_NPK	0.84	0.04
BBMB	0.81	0.04
KSMPL_SLR	0.76	0.03
ABSP_ANTP	0.75	0.03
ADANI GREEN	0.74	0.03
JORETHANG	0.69	0.03
AZURE_ANTP	0.67	0.03
DCPP	0.66	0.03
KSK MAHANADI	0.65	0.03

SBG_PVGD	0.64	0.03
TRN ENERGY	0.63	0.03
RENEW_SLR	0.59	0.03
ONGC PALATANA	0.55	0.02
JAYPEE NIGRIE	0.52	0.02
KREDL_PVGD	0.51	0.02
RAMPUR HEP	0.51	0.02
PARE HEP	0.50	0.02
MIZORAM	0.45	0.02
SINGOLI BHATWARI HEP	0.45	0.02
NAGALAND	0.40	0.02
LANKO KONDAPALLI	0.38	0.02
GSECL_Radhanesda	0.37	0.02
SAINJ HEP	0.36	0.02
MEENAKSHI	0.31	0.01
LANCO BUDHIL	0.31	0.01
KOTESHWAR	0.27	0.01
TEESTA HEP	0.25	0.01
DOYANG HEP	0.20	0.01
HVDC RAIGARH	0.19	0.01
RANGIT HEP	0.19	0.01
SRSSFPL	0.14	0.01
BHADRAVATHI HVDC	0.12	0.01
LOKTAK	0.10	0.004
NFF	0.08	0.004
LANKO_AMK	0.08	0.004
BARC	0.06	0.003
HVDC ALPD	0.03	0.001
HVDC CHAMPA	0.02	0.001
HVDC PUS	0.01	0.0003
<b>TOTAL</b>	<b>2259.29</b>	<b>100.00</b>
<b>Volume Imported by top 5 Regional Entities</b>	<b>584.68</b>	<b>25.88</b>

**Table-33: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, JUNE 2023**

Sr. No	Details of REC Transactions	Through Power Exchange			Bilateral through Traders
		IEX	PXIL	HPX	
1	Volume of Buy Bid	533392	122038	0	-
2	Volume of Sell Bid	11106687	3485608	181368	-
3	Ratio of Buy Bid to Sell Bid Volume	0.05	0.04	0.00	-
4	Traded Volume (MWh)	533392	122038	0	36532
5	Weighted average Price (₹/MWh)	745.00	745.00	-	837.39

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-34: VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, JUNE 2023**

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	118.36	68.41	-49.96	5.07	4.43
2	Bhutan	0.00	0.00	0.00	-	-
	<b>Total</b>	<b>118.36</b>	<b>68.41</b>	<b>-49.96</b>	<b>-</b>	<b>-</b>

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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