Monthly Report on Short-term Transactions of Electricity in India

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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
ARTPP
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

Abbreviations

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 Advah 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 RewaUltraMega Solar Project ACME REWARI Solar Power Pvt Ltd. Adani Power Limited - Raipur TPP 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

CHUKHA HEP CHUZACHEN HEP CLEAN SLR CLEANSP_SLR COASTGEN DAGACHU DAM **DB POWER** DCPP DD&DNH DGEN MEGA POWER **DGPCL Bhutan** DHARIWAL POWER DIKCHU HEP DOYANG HEP DSM DVC EDEN_SLR **EMCO** ESPL RADHANESDA ESSAR POWER ESSAR STEEL FORTUM1_PVGD FORTUM2_PVGD FRV_ANTP FRV_NPK GIPCL_RADHANESDA GIWEL_BHUJ GIWEL_TCN GMR CHHATTISGARH GMR KAMALANGA **G-DAM GSECL P-II G-TAM** HPX HP-DAM HP-TAM HVDC ALPD HVDC CHAMPA HVDC PUS HVDC RAIGARH IEX IGSTPS IL&FS INOX_BHUJ J&K JAYPEE NIGRIE JHABUA POWER MP JINDAL POWER JINDAL STAGE-II JITPL **JORETHANG** JSW_RENEW_2 **KAPP 3&4**

Chhukha Hydroelectric Project, Bhutan ChuzachenHydro Electric Power Project Clean Solar Power Pvt. Ltd Clean Solar Jodhpur Pvt Ltd **Coastal Energen Private Limited** Dagachhu Hydro Power Corporation Day Ahead Market Diligent Power Pvt. Ltd. Donga Mahua Captive Power Plant Daman and Diu & Dadar Nagar Haveli DGEN Mega Power Project Druk Green Power Corporation Ltd., Bhutan **Dhariwal Power Station** Dikchu Hydro-electric Project, Sikkim DoyangHydro Electric Project **Deviation Settlement Mechanism** Damodar Valley Corporation Eden RE Cite Private limited **EMCO** Energy Limited Electro Solaire Private Limited, Radhanesda **Essar Power Limited** Essar Steel Ltd Fortum Finnsurya Energy Private Ltd, Pavagada Project 1 Fortum Finnsurya Energy Private Ltd, Pavagada Project 2 Fotowatio Renewable Ventures, Anantapur Fotowatio Renewable Ventures, NP Kunta Gujarat Industries Power Company Ltd, Radhanesda Green infra wind energy Limited, Bhuj Green Infra Wind Energy Limited, Tuticorin GMR Chhattisgarh Energy Limited GMR Kamalanga Energy Ltd. Green Day Ahead Market GSECL Raghanesda Solar Park (Phase-II) Green Term Ahead Market Hindustan Power Exchange Limited High Price Day Ahead Market High Price Term Ahead Market Alipurduar High Voltage Direct Current Link Champa-Kurukshetra High Voltage Direct Current Link PasauliHigh Voltage Direct Current Link Raigarh-Pugalur High Voltage Direct Current Link Indian Energy Exchange Limited Indira Gandhi Super Thermal Power Station Jhajjar Infrastructure Leasing & Financial Services Limited INOX Wind Limited, Bhuj, Gujarat Jammu & Kashmir Jaypee Nigrie Super Thermal Power Project Jhabua Thermal Power Project Jindal Power Limited Jindal Power Ltd Stage II Jindal India Thermal Power Ltd. Jorethang Loop Hydroelectric Power Project JSW Renew Energy Two Limited Kakrapar Atomic Power Station Unit 3 & 4

KARCHAM WANGTOO KBUNL. KORBA WEST POWER **KOTESHWAR** KREDL_PVGD KSK MAHANADI KSMPL SLR KURICHU HEP LANKO AMK LANKO BUDHIL LANKOKONDAPALLY LOKTAK MAHINDRA RUMS MAHOBA SLR MALANA MANGDECHU HEP Maruti Coal MB POWER **MEENAKSHI** MP **MRPL MSEPL** MTPS MTPS II MYTRAH_TCN MU NAPP NCR ALLAHABAD NEEPCO NEP NFL NHPC STATIONS NJPC NLC NLDC NPGC **NSPCL** NTECLVallur NTPC_ANTP NTPC STATIONS NTPL **NVVN** OCF **ONGC** Platana OPGC ORANGE TCN OSTRO OTC PARAM_PVGD PARE HEP PX **PXIL** RAIL RAMPUR HEP

Karcham Wangtoo H.E. Project Kanti Bijlee Utpadan Nigam Limited Korba West Power Company Limited Koteshwar Hydro Power project Karnataka Renewable Energy Development Ltd, Pavagada KSK Mahanadi Power Ltd Kilaj Solar (Maharashtra) Private Limited Kurichhu Hydro-electric Power Station, Bhutan LancoAmarkantak Power Private Limited LancoBudhil Hydro Power Private Limited Lanco Kondapally Power Private Limited Loktak Power Project Mahindra Rewa Ultra Mega Solar Project Mahoba Solar Power Project Malana Hydroelectric Plant Mangdechhu Hydroelectric Project, Mangdechhu River, Bhutan Maruti Clean Coal and Power Limited MB Power Ltd Meenakshi Energy Private Limited Madhya Pradesh Mahindra Renewables Private Limited Masaya Solar Energy Private Limited TATA Power Mundra Thermal Power Station Muzaffarpur Thermal Power Station - Stage II Mytrah Energy (India) Private Limited, Tuticorin Million Units Narora Atomic Power Plant North Central Railway, Allahabad North Eastern Electric Power Corporation Limited Nepal National Fertilisers Limited National Hydro Electric Power Corporation Ltd. Stations Nathpa Jhakri Hydroelectric Power Station Nevveli Lignite Corporation Limited National Load Dispatch Centre Nabinagar Power Generating Company (Pvt.) Limited NTPC - SAIL Power Company Private Limited NTPC Tamil Nadu Energy Company Limited Vallur NTPC Anantapur National Thermal Power Corporation Ltd. Stations NLC Tamil Nadu Power Limited NTPC Vidyut Vyapar Nigam Limited Order Carry Forward **ONGC** Tripura Power Company Odisha Power Generation Corporation Orange Renewable Power Pvt. Ltd, Tuticorin Ostro Energy Private Limited Over The Counter Parampujya Solar Energy Private Ltd Pare hydroelectric project, Arunachal Pradesh Power Exchange Power Exchange India Limited Indian Railways Rampur Hydro Electric Power Project

RANGIT HEP **RANGANADI HEP** RAP-B RAP-C REC REGL **RENEW BHACHAU RENEW_BHUJ** RENEW_PVGD RENEW_SLR_BKN RENEW_SR_SLR RENEWJH_SLR RENEWURJA_SLR RGPPL IR RGPPL_OTHER RLDC RONGNICHU HEP RPREL RSTPS_FSPP RTC RTM SasanUMPP SB SLR SB6 POKARAN SBG CLEANTECH_SLR SBG_NPK SBG_PVGD SBSR SLR SEMBCORP **SIMHAPURI** SKS Power SESPL SINGOLI BHATWARI HEP SKRPL SPRNG_NPKUNTA SPRING PUGALUR SUL TALA HEP TASHIDENG HEP TATA_ANTP TATA_PVGD TATA_SLR **TEESTA STG3** TEHRI TAM THAR1_SLR THERMAL POWERTECH TPREL_RADHANESDA **TPSL** VINDHYACHAL HVDC WA YARROW PVGD

Rangit Hydroelectric power project Ranganadi Hydro Electric Power Project, Arunachal Pradesh Rajasthan Atomic Power Plant-B Rajasthan Atomic Power Plant-C Renewable Energy Certificate Raigarh Energy Generation Limited **ReNew Power Limited**, Bhachau ReNew Power Limited, Bhuj ReNew Wind Energy (TN2) Private Limited Renew Solar Bikaner Renew Surya Ravi Private Limited (Solar) Renew Solar Energy (Jharkhand Three) Private Limited ReNew Solar Urja Private Limited Ratnagiri Gas and Power Private Ltd., supply to Indian Railways Ratnagiri Gas and Power Private Limited **Regional Load Dispatch Centre** Rongnichu Hydro Electric Power Project Raipur Energen Limited NTPC Ramagundam STPS- Floating Solar PV Project Round The Clock Real Time Market Sasan Ultra Mega Power Project Soft Bank Solar SB Energy Six Private Limited, Pokaran SBG Cleantech Ltd SB Energy Solar Private Limited, NP Kunta SB Energy Solar Private Limited, Pavagada SBSR Power Cleantech Eleven Private Limited Sembcorp Gayatri Power Ltd Simhapuri Energy Private Limited SKS Power Generation Chhattisgarh Limited Srijan Energy Systems Pvt. Ltd. Singoli-Bhatwari Hydroelectric Project, Uttarakhand Sitac Kabini Renewables Pvt. Ltd. Sprng Energy, NP Kunta Spring Solar Power Private Limited, Pugalur Sikkim Urja Limited Tala Hydroelectric Project, Bhutan Tashiding Hydro Electric Project, Sikkim TATA Power Anantapur Tata Power Renewable Energy Ltd Tata Solar Teesta Stage 3 Hydro Power Project Tehri Hydro Electric Power Project Term Ahead Market Thar Surva Ravi One Pvt Ltd Thermal Powertech Corporation India Limited Tata Power Renewable Energy Limited, Radhanesda **TP Saurya Limited** Vindhyachal High Voltage Direct Current Link Weighted Average Yarrow Infra Structure Private Ltd

1. Introduction

A well-functioning electricity market requires an effective market monitoring process. 1.1. 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 October 2023 is presented in the following sections.

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

2.1. During October 2023, total electricity generation, excluding generation from renewable and captive power plants in India, was 133780.03 MU (Table-1). Of the total electricity generation, 13.20% was transacted through short-term and DSM, comprising of 6.05% through bilateral¹ (through Traders and Term-Ahead contracts on power exchanges, and directly between distribution companies), followed by 5.53% 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 (17665.51 MU), 45.79% was transacted through bilateral (37.40% through Traders and Term-Ahead contracts on power exchanges, and 8.38% directly between distribution companies), followed by 41.86% through

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

power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 12.35% through DSM (Table-1 & Figure-2). The daily volume of power exchange transactions is shown in Table-27. Figure-4 shows the daily volume trend for power exchange transactions and DSM volume.

2.3. Of the total volume of electricity transacted through power exchanges, 42.24% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 36.93% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) and 20.83% 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 54 trading licensees as of October 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., Adani Enterprises Ltd., Tata Power Trading Company (P) Ltd. and Arunachal Pradesh Power Corporation (P) Ltd., had a share of 79.18% 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 0.1449 for the month of October 2023, which indicates non-concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX, PXIL and HPX was 4688.35 MU, 21.60 MU and 36.83 MU, respectively. The volume of total buy bids and sell bids was 10207.52 MU and 7074.44 MU, respectively in IEX, 129.45 MU and 41.68 MU, respectively in PXIL, while the same was 69.45 MU and 41.25 MU, respectively in HPX.

2.7. Of the total volume of electricity transacted in the DAM of IEX, the volume sold by the neighbouring countries of India was 378.04 MU, while the volume purchased was 0.11

MU, under the Cross Border Trade of electricity through power exchange (Table-34(a)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.8. The volume of electricity transacted in the G-DAM of IEX was 183.59 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 2018.82 MU and 224.67 MU, respectively, in IEX. The volume of total buy bids was 8.88 MU in PXIL, while no sell bids were received at PXIL. No bids were received in HPX.

2.9. The volume of electricity transacted in the HP-DAM of IEX and PXIL was 15.80 MU and 6.86 MU, respectively. The volume of total buy bids and sell bids was 58.64 MU and 1543.39 MU, respectively in IEX, while the same was 6.86 MU and 6.86 MU, respectively in PXIL.

2.10. The volume of electricity transacted in the RTM of IEX, PXIL and HPX was 2402.26 MU, 25.42 MU and 14.62 MU, respectively. The volume of total buy bids and sell bids was 7844.09 MU and 3480.50 MU, respectively in IEX, 43.87 MU and 27.09 MU, respectively in PXIL, while the same was 24.59 MU and 16.08 MU, respectively in HPX. The variation in the volume of buy bids and sell bids placed through power exchanges shows variation in the demand and supply position.

2.11. Of the total volume of electricity transacted in the RTM of IEX, the volume sold by the neighbouring countries of India was 9.66 MU, while no volume was purchased, under the Cross Border Trade of electricity through power exchange (Table-34(b)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.12. The volume of electricity transacted in the TAM of IEX, PXIL and HPX was 1911.06 MU, 926.24 MU and 1107.59 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 7.24 MU, 2.95 MU and 5.82 MU, respectively (Table-12, Table-13 & Table-14).

2.13. The volume of electricity transacted in the HP-TAM of PXIL and HPX was 122.01 MU and 248.17 MU (Table-15 & Table-16).

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 \gtrless 2.70/kWh, \gtrless 10.00/kWh and \gtrless 6.77/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 \gtrless 6.94/kWh and \gtrless 4.00/kWh, respectively. No electricity was transacted through traders during Peak periods (Table-4).

Price of electricity transacted through Power Exchanges: The minimum, maximum 3.2. and weighted average prices for the electricity transacted in the DAM of IEX were ₹1.50/kWh, ₹10.00/kWh and ₹6.36/kWh, respectively. These prices in the DAM 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 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 ₹1.70/kWh, ₹10.00/kWh and ₹6.37/kWh, respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the HP-DAM of IEX were ₹12.00/kWh, ₹20.00/kWh and ₹16.95/kWh, respectively. These prices in the HP-DAM of PXIL were ₹13.00/kWh, ₹17.00/kWh and ₹16.48/kWh respectively (Table-7). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹1.75/kWh, ₹10.00/kWh and ₹5.99/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 ₹4.00/kWh, ₹10.00/kWh and ₹9.88/kWh respectively (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹8.25/kWh, ₹9.35/kWh and ₹8.85/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 ₹6.62/kWh, ₹7.61/kWh and ₹5.52/kWh, respectively (Table-12, Table-13 and Table-14). The weighted average price of electricity transacted in the HP-TAM of PXIL and HPX was ₹16.81/kWh and ₹14.81/kWh (Table-15 and Table-16). No electricity was transacted in G-DAM of PXIL and HPX, HP-TAM of IEX.

3.3. *DSM Charges:* The minimum, maximum and average charge under DSM was ₹1.75/kWh, ₹15.41/kWh and ₹6.87/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 ₹0.033/kWh.

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

5.1. Of the total DAM transactions at power exchanges, the top 5 regional entities/states sold 32.84% of the volume, and these were Uttar Pradesh, Nepal (NVVN), Adani Power Limited - Raipur TPP, Essar Power Ltd. and DB Power (Table-17). The top 5 regional entities/states purchased 61.21% of the volume, and these were Maharashtra, Telangana, Gujarat, Uttar Pradesh and Andhra Pradesh (Table-18).

5.2. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 50.34% of the volume, and these were Karnataka, Jammu & Kashmir, Renew Surya Ravi Private Limited (Solar), Singoli-Bhatwari Hydroelectric Project Uttarakhand and Ostro Energy Private Limited Hiriyur (Table-19). The top 5 regional entities/states purchased 62.53% of the volume, and these were Arcelor Mittal Nippon Steel Hazira, Kerala, Bharat Aluminum Company Limited, Maharashtra and Goa (Table-20).

5.3. Of the total HP-DAM transactions at power exchanges, the top 5 regional entities/states sold 92.99% of the volume, and these were Ratnagiri Gas and Power Private Limited, Ratnagiri Gas and Power Private Ltd. (supply to Indian Railways), NTPC Stations (Northern Region), NTPC Stations (Western Region) and DGEN Mega Power Project

² In case of a State, the entities which are "selling" also include generators connected to State Grid and the entities which are "buying" also include open access consumers.

(Table-21). Only 4 regional entities/states purchased 100.00% of the volume, and these were Tamil Nadu, West Bengal, Bihar and Maharashtra (Table-22).

5.4. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 40.62% of the volume, and these were Bihar, Rajasthan, Madhya Pradesh, Odisha and Chhattisgarh (Table-23). The top 5 regional entities/states purchased 51.30% of the volume, and these were Telangana, Maharashtra, Uttar Pradesh, Karnataka and Andhra pradesh (Table-24).

5.5. The total volume of net transactions through power exchanges (Regional entity-wise), is shown in Table-25 & 29. The top 5 electricity selling regional entities/states of power exchange transactions were Chhattisgarh, Nepal (NVVN), Adani Power Limited - Raipur TPP, Essar Power Limited and DB Power. The top 5 electricity purchasing regional entities/states of power exchange transactions were Maharashtra, Telangana, Andhra Pradesh, Gujarat and West Bengal.

5.6. Of the total under-drawal/ over-injection volume under DSM in October 2023, the top 5 regional entities/states accounted for 23.47% of the volume, and these were Rajasthan, Maharashtra, Madhya Pradesh, Gujarat and Uttar Pradesh (Table-31). The top 5 regional entities/states under DSM accounted for 23.98% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Eastern Region), NTPC Stations (Southern Region), NTPC Stations (Western Region), Karnataka and Jammu & Kashmir (Table-32).

6. Congestion³ on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges

6.1. Power exchanges use a price discovery mechanism in which the aggregate demand and supply are matched to arrive at an unconstrained market price and volume. This process assumes that there is no congestion in the inter-State transmission system between different regions. However, in reality, the system operator (NLDC), in coordination with RLDCs,

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

limits the flow (due to congestion) in the inter-State transmission system. In such a situation, power exchanges adopt a mechanism called "Market Splitting"⁴.

6.2. The volume of electricity that could not be cleared due to congestion & other reasons and could not be transacted through power exchanges is the difference between unconstrained cleared volume and actual cleared volume. During the month of October 2023, congestion was experienced in DAM, G-DAM and HP-DAM on IEX.

6.3. The volume of electricity that could not be cleared due to congestion was 0.01% of the unconstrained cleared volume in DAM, 0.31% of the unconstrained cleared volume in G-DAM and 0.001% of the unconstrained cleared volume in HP-DAM of IEX. In terms of time, congestion occurred was 0.97% in DAM, 0.87% in G-DAM and 0.10% in HP-DAM of IEX during the month. (Table-26).

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.

⁴"Market Splitting" is a mechanism adopted by Power Exchanges, where the market is split in the event of transmission congestion, into predetermined (by NLDC) bid areas or zones, which are cleared individually at their respective area prices such that the energy balance in every bid area is reached based upon the demand and supply in individual bid areas and using the available transmission corridor capacity between various bid areas simultaneously. As a result of this market splitting the price of electricity in the importing region, where demand for electricity is more than supply, becomes relatively higher than the price of electricity in the exporting region.

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 October 2023 are shown in Table-33. The market clearing volume of RECs transacted on IEX and PXIL was 217023 and 96796, respectively. The weighted average market clearing price of these RECs was ₹419/MWh in IEX and ₹446/MWh in PXIL. No RECs were traded 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 0.04 and 0.07 in IEX and PXIL, respectively. No buy bids were received on HPX.

7.6. The volume of RECs transacted through Trading Licensees in October 2023 was 14609. The weighted average trade price for the RECs transacted through traders was ₹523/MWh.

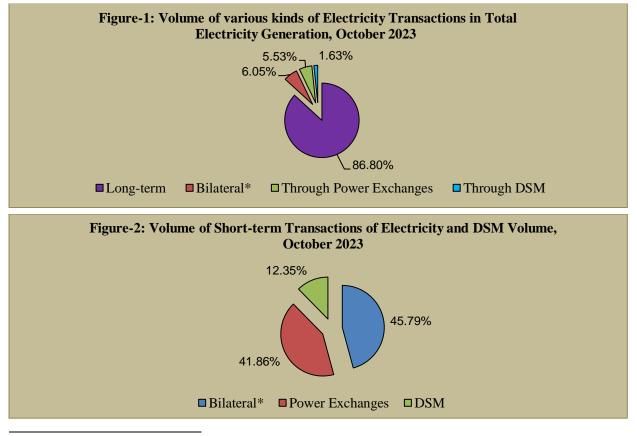
8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 13.20%.
- b) Of the total short-term transactions and DSM volume (17665.51 MU), 45.79% was transacted through bilateral (37.40% through Traders and Term-Ahead contracts on power exchanges, and 8.38% directly between distribution companies), followed by 41.86% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM} and 12.35% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 42.24% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 36.93% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) and 20.83% in RTM
- d) The top 5 trading licensees had a share of 79.18% 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 0.1449, indicating non-concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹6.77/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX, PXIL and HPX was ₹6.36/kWh, ₹10.00/kWh and ₹10.00/kWh. The weighted average price of electricity transacted in G-DAM of IEX was ₹6.37/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 and PXIL was ₹16.95/kWh and ₹16.48/kWh, respectively. The weighted average price of electricity transacted in RTM of IEX, PXIL and HPX was ₹5.99/kWh, ₹10.00/kWh and ₹9.88/kWh.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹8.25/kWh, ₹9.35/kWh and ₹8.85/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX, PXIL and HPX was ₹6.62/kWh, ₹7.61/kWh and ₹5.52/kWh, respectively. The weighted average price of electricity transacted in HP-TAM of PXIL and HPX was₹16.81/kWh and ₹14.81/kWh.
- i) The average charge under DSM was $\gtrless 6.87/kWh$.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.033/kWh.
- k) The top 5 electricity selling regional entities/states of power exchange transactions were Chhattisgarh, Nepal (NVVN), Adani Power Limited - Raipur TPP, Essar Power Limited and DB Power. The top 5 electricity purchasing regional entities/states of power exchange transactions were Maharashtra, Telangana, Andhra Pradesh, Gujarat and West Bengal.
 - The top 5 under-drawing/ over-injecting regional entities/states under DSM were Rajasthan, Maharashtra, Madhya Pradesh, Gujarat and Uttar Pradesh. The top 5 overdrawing/ under-injecting regional entities/states under DSM were NTPC Stations (Eastern Region), NTPC Stations (Southern Region), NTPC Stations (Western Region), Karnataka and Jammu & Kashmir.

- m) During the month of October 2023, congestion was experienced in DAM, G-DAM and HP-DAM on IEX. The volume of electricity that could not be cleared due to congestion was 0.01% of the unconstrained cleared volume in DAM, 0.31% of the unconstrained cleared volume in G-DAM and 0.001% of the unconstrained cleared volume in HP-DAM of IEX.
- n) The market clearing volume of RECs transacted on IEX and PXIL was 217023 and 96796, respectively. The weighted average market clearing price of these RECs was ₹419/MWh in IEX and ₹446/MWh in PXIL. No RECs were traded on HPX. The volume of RECs transacted through Trading Licensees in October 2023 was 14609. The weighted average trade price for the RECs transacted through traders was ₹523/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), OCTOBER 2023				
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
А	Short-term transactions			
1	Bilateral [*]	8088.65	45.79	6.05
	(i) Through Traders and PXs	6607.64	37.40	4.94
	(ii) Direct	1481.01	8.38	1.11
2	Through Power Exchanges	7395.33	41.86	5.53
	(i) IEX			
	(a) DAM	4688.35	26.54	3.50
	(b) RTM	2402.26	13.60	1.80
	(c) GDAM	183.59	1.04	0.14
	(d) HP-DAM	15.80	0.09	0.01
	(ii) PXIL			
	(a) DAM	21.60	0.12	0.02
	(b) RTM	25.42	0.14	0.02
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	6.86	0.04	0.01
	(ii) HPX			
	(a) DAM	36.83	0.21	0.03
	(b) RTM	14.62	0.08	0.01
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
В	Through DSM	2181.53	12.35	1.63
Total Sh	ort-term transactions and DSM	17665.51		13.20
Total Ge	neration	133780.03		-
Source: N.	LDC			



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



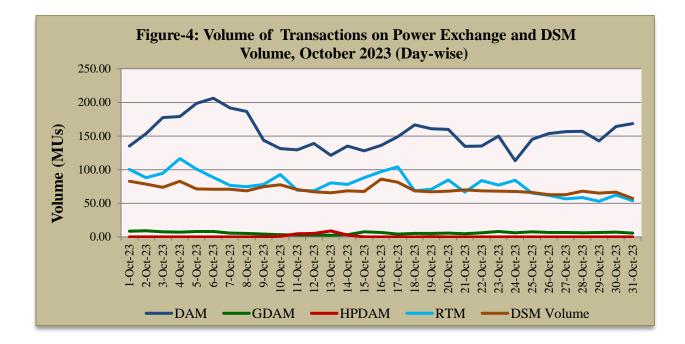


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES,OCTOBER 2023			
Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees	Herfindahl- Hirschman Index
1	PTC India Ltd.	22.17	0.0491
2	NTPC Vidyut Vyapar Nigam Ltd.	20.35	0.0414
3	Adani Enterprises Ltd.	15.99	0.0256
4	Tata Power Trading Company (P) Ltd.	12.44	0.0155
5	Arunachal Pradesh Power Corporation (P) Ltd	8.23	0.0068
6	Manikaran Power Ltd.	4.54	0.0021
7	GMR Energy Trading Ltd.	4.39	0.0019
8	JSW Power Trading Company Ltd	4.19	0.0018
9	Gita Power & Infrastructure Private Limited	2.20	0.0005
10	RPG Power Trading Company Ltd.	1.02	0.0001
11	Instinct Infra & Power Ltd.	0.83	0.0001
12	Ambitious Power Trading Company Ltd.	0.71	0.0001
13	NTPC Ltd.	0.64	0.0000
14	Kreate Energy (I) Pvt. Ltd.	0.61	0.0000
15	Greenko Energies Pvt Ltd	0.34	0.0000
16	Statkraft Markets Pvt. Ltd.	0.29	0.0000
17	Kundan International Pvt. Ltd.	0.28	0.0000
18	Abja Power Private Limited	0.19	0.0000
19	Saranyu Power Trading Private Limited	0.15	0.0000
20	Instant Venture Pvt. Ltd.	0.07	0.0000
21	NLC India Ltd.	0.06	0.0000
22	Shree Cement Ltd.	0.06	0.0000
23	Energyedge Power Trading Pvt. Ltd.	0.06	0.0000
24	Ideal Energy Solution Pvt. Ltd.	0.05	0.0000
25	SJVN Ltd.	0.05	0.0000
26	Powerfull Energy Trading Pvt. Ltd.	0.03	0.0000
27	Adarsh Stainless Pvt. Ltd.	0.03	0.0000
28	Refex Industries Ltd.	0.02	0.0000
29	Customized Energy Solutions India (P) Ltd.	0.02	0.0000
30	Phillip Commodities India (P) Ltd.	0.014	0.0000
31	Shell Energy Marketing and Trading India Pvt. Ltd.	0.002	0.0000
	TOTAL	100.00%	0.1449
	Top 5 trading licensees	79.18%	
	: Volume of electricity transacted by the trading licensees inc		e & intra-state) and the
	ctions undertaken through power exchanges.		
Note 2.	: Volume of electricity transacted by Global Energy Ltd. is not	included	

Note 2: Volume of electricity transacted by Global Energy Ltd. is not included. Source: Information submitted by trading licensees

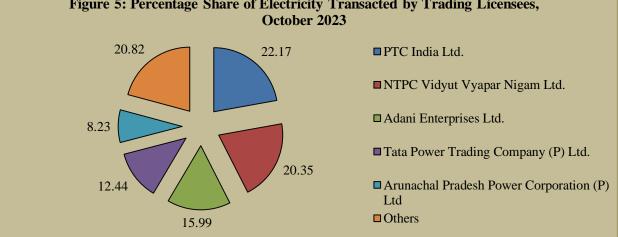


Figure 5: Percentage Share of Electricity Transacted by Trading Licensees,

Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, OCTOBER 2023					
Sr.No	Sr.NoItemSale Price of Traders (₹/kWh)				
1	Minimum	2.70			
2	Maximum	10.00			
3	3 Weighted Average 6.77				
Source: Information submitted by trading licensees					

Table-4	Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), OCTOBER 2023				
Sr.No	Sr.NoPeriod of TradeSale Price of Traders (₹/kWh)				
1	RTC	6.94			
2	PEAK	-			
3	3 OFF PEAK 4.00				

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023							
Sr.No	Sr.NoACPPrice in IEX (₹/kWh)Price in PXIL (₹/kWh)Price in HPX (₹/kWh)						
1	Minimum	1.50	10.00	10.00			
2	Maximum	10.00	10.00	10.00			
3	Weighted Average	6.36	10.00	10.00			
Source: IF	Course: IEV DVII and HDV						

Source: IEX, PXIL and HPX

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET THROUGH POWER **EXCHANGES, OCTOBER 2023**

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)	
1	Minimum	1.70	-	-	
2	Maximum	10.00	-	-	
3	Weighted Average	6.37	-	-	
C. IL					

Source: IEX, PXIL and HPX

Table-7: PRICE OF ELECTRICITY TRANSACTED IN HIGH PRICE DAY AHEAD MARKET THROUGH **POWER EXCHANGES, OCTOBER 2023**

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)	
1	Minimum	12.00	13.00	-	
2	Maximum	20.00	17.00	-	
3	Weighted Average	16.95	16.48	-	
Sources IEV	Source IEV DVII and HDV				

Source: IEX, PXIL and HPX

Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER **EXCHANGES, OCTOBER 2023**

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.75	10.00	4.00
2	Maximum	10.00	10.00	10.00
3	Weighted Average	5.99	10.00	9.88

Source: IEX, PXIL and HPX

Table-	Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, OCTOBER 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	4.22	9.81	
2	Day Ahead Contingency Contracts	229.85	9.15	
3	Daily Contracts	390.32	9.78	
4	Weekly Contracts	246.96	8.95	
5	Monthly Contracts	230.48	7.00	
6	Any Day Single Sided Contracts	809.24	7.39	
	Total	1911.06	8.25	
Source: IE2	Source IEX			

Source: IEX

Table-1	Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, OCTOBER 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	12.88	9.35	
2	Day Ahead Contingency Contracts	302.08	9.19	
3	Daily Contracts	392.41	9.81	
4	Weekly Contracts	41.79	9.67	
5	Any Day Single Sided Contracts	177.08	8.52	
	Total	926.24	9.35	

Source: PXIL

Table-1	Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, OCTOBER 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	8.06	9.99	
2	Day Ahead Contingency Contracts	257.15	9.18	
3	Daily Contracts	438.32	9.87	
4	Weekly Contracts	86.35	7.56	
5	Any Day Single Sided Contracts	317.71	7.50	
	Total	1107.59	8.85	

Source: HPX

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

		001022112020				
	Sr. No Green Term ahead contracts		Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)		
	1	Day Ahead Contingency Contracts	0.21	9.65		
	2	Daily Contracts	7.03	6.53		
		Total	7.24	6.62		
1						

Source: IEX

Tab	Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, OCTOBER 2023				
Sr. No Green Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/			Weighted Average Price (₹/kWh)		
1	Day Ahead Contingency Contracts	2.95	7.61		
	Total 2.95 7.61				
Sources DV					

Source: PXIL

Tal	Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, OCTOBER 2023				
Sr. No	Sr. No Green Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWh)				
1	Day Ahead Contingency Contracts	5.82	5.52		
	Total 5.82 5.52				
Courses HDV					

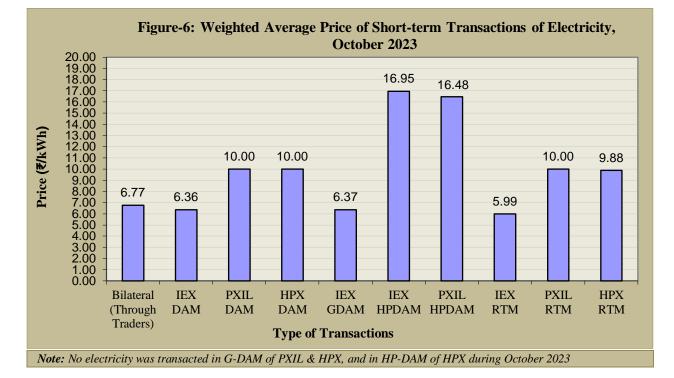
Source: HPX

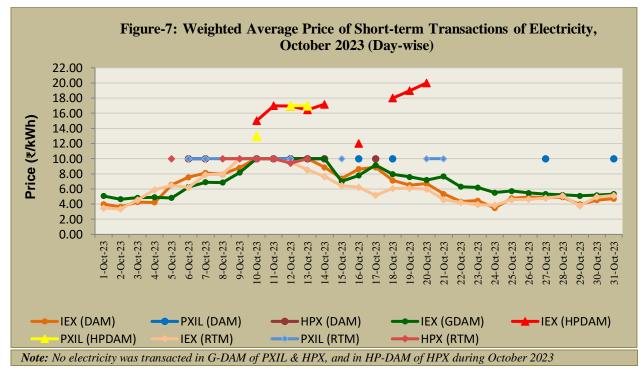
	Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF PXIL, OCTOBER 2023				
	Sr. No High Price Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWh				
	1	Intra-Day Contracts	45.80	17.67	
	2 Day Ahead Contingency Contracts		76.22	16.29	
Total 122.01		16.81			

Source: PXIL

Table-	Table-16: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF HPX,				
	OCTOBER 2023				
Sr. No	Sr. No High Price Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWh)				
1	Intra-Day Contracts	17.47	15.86		
2	Day Ahead Contingency Contracts	62.94	14.47		
3	Daily Contracts	167.76	14.83		
	Total 248.17 14.81				
Source HE	Source: HPX				

Source: HPX





Name of the Entity Volume of Sale (MUs) % of Volume ITTAR PRADESH 502.42 10.58 NEPAL(NVVN) 311.64 6.57 ARTPP 281.33 5.03 ESSAR POWER 248.12 5.23 DB POWER 215.40 4.54 CHHATTISGARH 214.14 4.51 JAYPEE NIGRE 186.51 3.93 DELHI 157.91 3.33 JITPL 146.91 3.09 ODISHA 146.28 3.08 GUARAT 141.19 2.97 REG. 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HIMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-I 80.10 1.69 TAMIL, NADU 76.66 1.61 <th colspan="3">Table-17: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023</th>	Table-17: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023		
NEPAL(NVN) 311.64 6.57 ARTPP 281.33 5.93 ESSAR POWER 248.12 5.23 DB POWER 215.40 4.54 CHHATTSGARH 214.14 4.51 JAYPEE NIGRE 186.51 3.93 DELHI 157.91 3.33 DTPL 146.91 3.09 ODISHA 146.28 3.08 GUJARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NEPCO STATIONS 73.07 1.54 MB POWER 71.11 1.20 MAHARASHTRA </th <th>Name of the Entity</th> <th>Volume of Sale (MUs)</th> <th>% of Volume</th>	Name of the Entity	Volume of Sale (MUs)	% of Volume
ARTPP 281.33 5.93 ESSAR POWER 248.12 5.23 DB POWER 215.40 4.54 CHHATTISGARH 214.14 4.51 JAYPEE NIGRIE 186.51 3.93 DELHI 157.91 3.33 JTTPL 146.91 3.09 ODISHA 146.28 3.08 GUIARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NDAL POWER 60.39 1.27 KARNATAKA 59.11 1.25 ILAFS 7.1.1 1.20 MAHARASHTRA	UTTAR PRADESH	502.42	10.58
ESSAR POWER 248.12 5.23 DB POWER 215.40 4.54 CHHATTISGARH 214.14 4.51 JAYTBE NIGRE 186.51 3.93 DELHI 157.91 3.33 JITPL 146.91 3.09 ODISHA 146.91 3.09 ODISHA 146.92 3.08 GUJARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HIMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NEPCO STATIONS 73.07 1.54 MB POWER 71.31 1.50 JINDAL POWER 60.39 1.27 KARNATAK	NEPAL(NVVN)	311.64	6.57
DB POWER 215.00 4.54 CHHATTISGARH 214.14 4.51 JAYPEE NIGRE 186.51 3.93 DELHI 157.91 3.33 DITPL 146.91 3.09 ODISHA 146.28 3.08 GUARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HIMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAML NADU 76.66 1.61 NEEPCO STATIONS 73.37 1.84 JINDAL STAGE-II 80.10 1.69 TAML NADU 76.66 1.61 NEEPCO STATIONS 73.37 1.84 JINDAL POWER 60.39 1.27 <	ARTPP	281.33	5.93
CHHATTISGARH 214.14 4.51 JAYPEE NIGRIE 186.51 3.93 DELHI 157.91 3.33 JITPL 146.91 3.09 ODISHA 146.28 3.08 GUJARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNIAB 93.61 1.97 HIMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NEEPCO STATIONS 73.07 1.54 MB POWER 71.31 1.50 JINDAL POWER 60.39 1.27 KARNATAKA 59.11 1.20 MAHARASHTRA 55.07 1.16 SELANGANA 53.63 1.13 MEGRI	ESSAR POWER	248.12	5.23
CHHATTISGARH 214.14 4.51 JAYPEE NIGRIE 186.51 3.93 DELHI 157.91 3.33 JITPL 146.91 3.09 ODISHA 146.28 3.08 GUJARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNIAB 93.61 1.97 HIMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NEEPCO STATIONS 73.07 1.54 MB POWER 71.31 1.50 JINDAL POWER 60.39 1.27 KARNATAKA 59.11 1.20 MAHARASHTRA 55.07 1.16 SELANGANA 53.63 1.13 MEGRI	DB POWER	215.40	4.54
JAYBE NIGRIE 186.51 3.93 DELHI 157.91 3.33 DTPL 146.91 3.09 ODISHA 146.28 3.08 GUJARAT 141.19 2.97 REGL 130.61 2.75 NTPC STATIONS-ER 121.17 2.55 RAJASTHAN 101.57 2.14 DCPP 97.08 2.05 PUNJAB 93.61 1.97 HMACHAL PRADESH 89.78 1.89 MP 88.18 1.86 WEST BENGAL 87.37 1.84 JINDAL STAGE-II 80.10 1.69 TAMIL NADU 76.66 1.61 NEEPCO STATIONS 73.07 1.54 MB POWER 71.31 1.50 JINDAL POWER 60.39 1.27 KARNATAKA 59.11 1.25 IL&FS 57.11 1.20 MAHARASHTRA 56.67 1.18 SEMBCORP 55.27 1.16 TELANGANA	CHHATTISGARH		4.51
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MIZORAM18.310.39BIHAR17.910.38EMCO15.840.33ADANI_WIND14.630.31SIMHAPURI14.550.31NTPC STATIONS-WR13.840.29SAINJ HEP13.330.28GOA10.140.21MARUTI COAL9.720.20NTPC STATIONS-SR9.630.20			
BIHAR17.910.38EMCO15.840.33ADANI_WIND14.630.31SIMHAPURI14.550.31NTPC STATIONS-WR13.840.29SAINJ HEP13.330.28GOA10.140.21MARUTI COAL9.720.20NTPC STATIONS-SR9.630.20			
EMCO15.840.33ADANI_WIND14.630.31SIMHAPURI14.550.31NTPC STATIONS-WR13.840.29SAINJ HEP13.330.28GOA10.140.21MARUTI COAL9.720.20NTPC STATIONS-SR9.630.20			
ADANI_WIND 14.63 0.31 SIMHAPURI 14.55 0.31 NTPC STATIONS-WR 13.84 0.29 SAINJ HEP 13.33 0.28 GOA 10.14 0.21 MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	BIHAR		
SIMHAPURI 14.55 0.31 NTPC STATIONS-WR 13.84 0.29 SAINJ HEP 13.33 0.28 GOA 10.14 0.21 MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	ЕМСО		
NTPC STATIONS-WR 13.84 0.29 SAINJ HEP 13.33 0.28 GOA 10.14 0.21 MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20			
SAINJ HEP 13.33 0.28 GOA 10.14 0.21 MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	SIMHAPURI	14.55	0.31
GOA 10.14 0.21 MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	NTPC STATIONS-WR	13.84	0.29
MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	SAINJ HEP	13.33	0.28
MARUTI COAL 9.72 0.20 NTPC STATIONS-SR 9.63 0.20	GOA	10.14	0.21
NTPC STATIONS-SR 9.63 0.20			0.20
	SHREE CEMENT	9.12	0.19

JHABUA POWER_MP	8.99	0.19
NTPC STATIONS-NER	8.83	0.19
ONGC PALATANA	8.08	0.17
DHARIWAL POWER	8.06	0.17
ARUNACHAL PRADESH	7.67	0.16
SB_SLR	6.98	0.15
J & K	6.75	0.14
DGEN MEGA POWER	6.64	0.14
JHARKHAND	6.06	0.13
ASEJTL_SLR	5.63	0.12
DVC	5.56	0.12
SORANG HEP	5.33	0.11
SIKKIM	4.25	0.09
DIKCHU HEP	4.08	0.09
NAGALAND	4.04	0.09
ADHUNIK POWER LTD	3.53	0.07
IGSTPS	2.93	0.06
UTTARAKHAND	2.74	0.06
KERALA	2.66	0.06
CONTINNUM PT	2.19	0.05
COASTGEN	2.09	0.04
SINGOLI BHATWARI HEP	2.06	0.04
RENERGY5_WIND	2.02	0.04
MANIPUR	1.96	0.04
BALCO	1.64	0.03
OSTRO Hiriyur	1.59	0.03
LANCO BUDHIL	1.53	0.03
NHPC STATIONS	1.36	0.03
NPGC	1.17	0.02
CHUZACHEN HEP	1.03	0.02
NTPC STATIONS-NR	0.98	0.02
GMR KAMALANGA	0.79	0.02
KBUNL	0.61	0.01
NLC	0.09	0.002
MTPS	0.02	0.0004
Total	4746.78	100.00
Volume sold by top 5 Regional Entities	1558.90	32.84

Table-18: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
MAHARASHTRA	828.89	17.46
TELANGANA	660.81	13.92
GUJARAT	512.64	10.80
UTTAR PRADESH	465.77	9.81
ANDHRA PRADESH	437.57	9.22
WEST BENGAL	333.10	7.02
UTTARAKHAND	178.05	3.75
TAMIL NADU	155.91	3.28
KARNATAKA	151.70	3.20
J & K	129.97	2.74
PUNJAB	127.08	2.68
AMPS Hazira	116.92	2.46
MP	106.80	2.25
RAJASTHAN	82.17	1.73
BIHAR	75.25	1.59
ODISHA	74.33	1.57
DELHI	60.18	1.27
KERALA	45.04	0.95
DD&DNH	43.31	0.91
HARYANA	35.00	0.74
DVC	22.46	0.47
NCR ALLAHABAD	22.08	0.47
JINDAL STAGE-II	20.38	0.43
GOA	15.31	0.32
JHARKHAND	9.93	0.21
BALCO	9.39	0.20
ASSAM	6.90	0.15
CHHATTISGARH	5.83	0.12
CHANDIGARH	5.83	0.12
HIMACHAL PRADESH	2.46	0.05
MEGHALAYA	2.24	0.05
TRIPURA	2.04	0.04
JHABUA POWER_MP	1.33	0.03
NEP	0.11	0.002
TOTAL	4746.78	100.00
Volume purchased by top 5 Regional Entities	2905.68	61.21

Table-19: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH			
POWER EXCHA	POWER EXCHANGES, OCTOBER 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume	
KARNATAKA	24.53	13.36	
J & K	20.36	11.09	
RENEW_SR_SLR	19.79	10.78	
SINGOLI BHATWARI HEP	15.00	8.17	
OSTRO Hiriyur	12.75	6.94	
ADANI_WIND	12.15	6.62	
ASEJTL_SLR	10.84	5.91	
SB_SLR	10.44	5.69	
CONTINNUM PT	10.41	5.67	
NTPC STATIONS-SR	8.13	4.43	
SORANG HEP	7.00	3.81	
RENERGY5_WIND	5.05	2.75	
HIMACHAL PRADESH	4.82	2.62	
TELANGANA	3.42	1.86	
RAJASTHAN	3.41	1.86	
ANDHRA PRADESH	3.37	1.84	
SIKKIM	3.05	1.66	
MAHARASHTRA	2.45	1.34	
MP	2.41	1.31	
DELHI	2.37	1.29	
INOX_BHUJ	1.43	0.78	
UTTAR PRADESH	0.42	0.23	
Total	183.59	100.00	
Volume sold by top 5 Regional Entities	92.42	50.34	

Table-20: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023									
Name of the Entity	Volume of Purchase (MUs)	% of Volume							
AMPS Hazira	62.83	34.22							
KERALA	16.69	9.09							
BALCO	13.02	7.09							
MAHARASHTRA	12.26	6.68							
GOA	10.01	5.45							
PUNJAB	9.47	5.16							
RAJASTHAN	8.31	4.53							
DVC	7.16	3.90							
TAMIL NADU	6.63	3.61							
UTTAR PRADESH	5.83	3.17							
DELHI	5.68	3.10							
BIHAR	4.52	2.46							
KARNATAKA	3.81	2.08							
MP	3.78	2.06							
GUJARAT	2.87	1.56							
TELANGANA	2.82	1.53							
NCR ALLAHABAD	2.74	1.49							
JHARKHAND	2.68	1.46							
ODISHA	1.74	0.95							
ANDHRA PRADESH	0.30	0.17							
HARYANA	0.18	0.10							
ASSAM	0.11	0.06							
HIMACHAL PRADESH	0.09	0.05							
MEGHALAYA	0.04	0.02							
DD&DNH	0.04	0.02							
TOTAL	183.59	100.00							
Volume purchased by top 5 Regional Entities	114.80	62.53							

Table-21: VOLUME OF ELECTRICITY SOLD IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, OCTOBER 2023									
Name of the Entity	Volume of Sale (MUs)	% of Volume							
RATNAGIRI	6.96	30.73							
RGPPL_IR	4.04	17.84							
NTPC STATIONS-NR	3.85	16.99							
NTPC STATIONS-WR	3.40	15.01							
DGEN MEGA POWER	2.82	12.42							
GUJARAT	1.50	6.60							
KARNATAKA	0.08	0.35							
SHREE CEMENT	0.02	0.07							
Total	22.66	100.00							
Volume sold by top 5 Regional Entities	21.07	92.99							

Table-22: VOLUME OF ELECTRICITY PURCHASED IN HIGH PRICE DAY AHEADMARKET THROUGH POWER EXCHANGES, OCTOBER 2023

Name of the Entity	Volume of Purchase (MUs)	% of Volume		
TAMIL NADU	16.37	72.24		
WEST BENGAL	5.89	25.97		
BIHAR	0.40	1.75		
MAHARASHTRA	0.01	0.04		
TOTAL	22.66	100.00		
Volume purchased by top 5 Regional Entities	22.66	100.00		

Table-23: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWEREXCHANGES, OCTOBER 2023												
Name of the Entity	Name of the EntityVolume of Sale (MUs)% of Volume											
BIHAR	256.08	10.49										
RAJASTHAN	236.08	9.67										
MP	170.79	6.99										
ODISHA	168.99	6.92										
CHHATTISGARH	160.01	6.55										
ASSAM	121.61	4.98										
PUNJAB	110.83	4.54										
JHARKHAND	89.61	3.67										
WEST BENGAL	79.96	3.27										
DELHI	74.04	3.03										
UTTAR PRADESH	66.04	2.70										
ANDHRA PRADESH	64.82	2.65										
MAHARASHTRA	59.87	2.45										
GUJARAT	59.38	2.43										
NTPC STATIONS-ER	55.92	2.43										
HIMACHAL PRADESH	41.68	1.71										
HARYANA	41.08	1.70										
NTPC STATIONS-WR	35.94	1.47										
TELANGANA	30.04	1.23										
NEEPCO STATIONS		1.23										
TRIPURA	29.88 28.59	1.17										
NTPC STATIONS-NR	28.39	1.17										
TAMIL NADU	26.91	1.10										
KARNATAKA		1.04										
MB POWER	25.45	0.96										
MANIPUR	23.44	0.96										
DGEN MEGA POWER	23.39	0.90										
NTPC STATIONS-SR		0.69										
NIPC STATIONS-SK NPGC	16.81	0.69										
J & K	16.02											
SEMBCORP	15.31	0.63										
	15.18	0.62										
RKM POWER	14.29											
PONDICHERRY	13.14	0.54										
BALCO	12.27	0.50										
ESSAR POWER	11.78	0.48										
TEESTA HEP	11.60	0.48										
ARTPP	10.94	0.45										
ACBIL	9.95	0.41										
NEPAL(NVVN)	9.66	0.40										
ARUNACHAL PRADESH	9.40	0.38										
NTPC STATIONS-NER	9.00	0.37										
UTTARAKHAND	8.49	0.35										
DB POWER	8.48	0.35										
MTPS	8.24	0.34										
SASAN UMPP	8.11	0.33										
TRN ENERGY	6.88	0.28										
SIKKIM	6.05	0.25										
REGL	6.00	0.25										

Table-23. VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER

JINDAL STAGE-II JHABUA POWER_MP SIMHAPURI	5.13 4.79 4.71	0.21 0.20
		0.20
		0.19
JORETHANG	4.45	0.18
ONGC PALATANA	4.34	0.18
DVC	4.34	0.18
ADHUNIK POWER LTD	4.08	0.17
JITPL	3.95	0.16
KERALA	3.93	0.16
MEGHALAYA	3.76	0.15
IL&FS	3.62	0.15
AD HYDRO	3.12	0.13
DCPP	3.03	0.12
SKS POWER	2.92	0.12
JINDAL POWER	2.36	0.10
GOA	2.35	0.10
NLC	2.22	0.09
SINGOLI BHATWARI HEP	2.22	0.09
TASHIDENG HEP	2.16	0.09
NAGALAND	2.15	0.09
MARUTI COAL	1.59	0.07
DD&DNH	1.37	0.06
SAINJ HEP	0.80	0.03
ЕМСО	0.78	0.03
SHREE CEMENT	0.77	0.03
COASTGEN	0.76	0.03
DIKCHU HEP	0.68	0.03
DHARIWAL POWER	0.58	0.02
OSTRO Hiriyur	0.51	0.02
SORANG HEP	0.48	0.02
NETCL VALLUR	0.46	0.02
DOYANG HEP	0.35	0.01
PARE HEP	0.22	0.01
JAYPEE NIGRIE	0.21	0.01
CHANDIGARH	0.20	0.01
KARCHAM WANGTOO	0.18	0.01
GMR KAMALANGA	0.16	0.01
CHUZACHEN HEP	0.15	0.01
LANCO BUDHIL	0.11	0.004
RENEW_SR_SLR	0.01	0.0005
RANGANADI HEP	0.01	0.0004
Total	2442.30	100.00
Volume sold by top 5 Regional Entities	991.95	40.62

Table-24: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, OCTOBER 2023								
Name of the Entity	Volume of Purchase (MUs)	% of Volume						
TELANGANA	332.69	13.62						
MAHARASHTRA	331.43	13.57						
UTTAR PRADESH	218.24	8.94						
KARNATAKA	207.33	8.49						
ANDHRA PRADESH	163.27	6.68						
KERALA	136.82	5.60						
J&K	111.74	4.58						
PUNJAB	105.15	4.31						
WEST BENGAL	99.33	4.07						
TAMIL NADU	87.51	3.58						
DVC	86.25	3.53						
RAJASTHAN	85.91	3.52						
GUJARAT	67.73	2.77						
UTTARAKHAND	60.30	2.47						
ODISHA	45.99	1.88						
HARYANA	44.96	1.84						
DELHI	43.13	1.77						
MP	37.98	1.56						
BIHAR	32.93	1.35						
HIMACHAL PRADESH	29.26	1.20						
JINDAL STAGE-II	21.71	0.89						
AMPS Hazira	19.94	0.82						
ASSAM	13.41	0.55						
DD&DNH	10.27	0.33						
BALCO	7.73	0.32						
NCR ALLAHABAD	6.26	0.32						
CHHATTISGARH	6.10	0.25						
MEGHALAYA	5.18	0.23						
JHARKHAND	5.05	0.21						
SUL	3.08	0.13						
GOA	3.05	0.12						
SIMHAPURI	2.34	0.12						
NTPC STATIONS-WR	1.34	0.05						
MARUTI COAL	1.20	0.05						
ARUNACHAL PRADESH	1.18	0.05						
MANIPUR	1.17	0.05						
RGPPL_IR	1.04	0.04						
REGL	0.81	0.03						
TRIPURA	0.77	0.03						
ESSAR POWER	0.58	0.02						
SIKKIM	0.46	0.02						
DCPP	0.44	0.02						
CHANDIGARH	0.40	0.02						
ACBIL	0.35	0.01						
JHABUA POWER_MP	0.27	0.01						
PONDICHERRY	0.10	0.004						
SHREE CEMENT	0.09	0.004						
SAINJ HEP	0.02	0.001						
TOTAL	2442.30	100.00						
Volume purchased by top 5 Regional Entities	1252.96	51.30						

Table	Table-25: TOTAL VOLUME OF NET TRANSACTIONS THROUGH POWER EXCHANGES (REGIONAL ENTITY-WISE), OCTOBER 2023						
S. No.	Name of the Entity	Total volume of net transactions through Power Exchanges*					
1	MAHARASHTRA	1054.19					
2	TELANGANA	909.23					
3	ANDHRA PRADESH	503.49					
4	GUJARAT	381.17					
5	WEST BENGAL	270.98					
6	KARNATAKA	253.67					
7	UTTARAKHAND	227.11					
8	AMPS Hazira	199.69					
9	J & K	199.29					
10	KERALA	191.96					
11	TAMIL NADU	162.85					
12 13	UTTAR PRADESH DVC	120.96 105.98					
13	DD&DNH	52.24					
14	PUNJAB	32.24					
15	NCR ALLAHABAD	31.08					
10	BALCO	16.23					
18	GOA	10.23					
10	SUL	3.08					
20	RANGANADI HEP	-0.01					
21	PARE HEP	-0.22					
22	DOYANG HEP	-0.35					
23	NETCL VALLUR	-0.46					
24	KBUNL	-0.61					
25	GMR KAMALANGA	-0.95					
26	CHUZACHEN HEP	-1.19					
27	NHPC STATIONS	-1.36					
28	INOX_BHUJ	-1.43					
29 30	LANCO BUDHIL TASHIDENG HEP	-1.63 -2.16					
30	NLC	-2.10					
32	COASTGEN	-2.85					
33	RGPPL_IR	-2.05					
34	HARYANA	-4.10					
35	JORETHANG	-4.45					
36	DIKCHU HEP	-4.77					
37	NAGALAND	-6.19					
38	TRN ENERGY	-6.88					
39	RATNAGIRI	-6.96					
40	RENERGY5_WIND	-7.07					
41	ADHUNIK POWER LTD	-7.61					
42	SASAN UMPP	-8.11					
43 44	MTPS	-8.26					
	IGSTPS DHARIWAL POWER	-8.61					
45 46	SHREE CEMENT	-8.64 -9.81					
40	MARUTI COAL	-9.81					
47	JHABUA POWER MP	-10.11					
49	ONGC PALATANA	-12.13					
50	CONTINNUM PT	-12.60					
51	SORANG HEP	-12.81					
52	SIKKIM	-12.89					
53	CHANDIGARH	-13.32					
54	SAINJ HEP	-14.12					
55	OSTRO Hiriyur	-14.85					
56	ARUNACHAL PRADESH	-15.89					
57	ASEJTL_SLR	-16.47					
58	EMCO	-16.62					
59	SIMHAPURI	-16.91					
60	NPGC	-17.19					
61 62	SB_SLR NTPC STATIONS-NER	-17.42					
02	NIFUSTATIONS-NER	-17.82					

64 S 65 A	MIZORAM INGOLI BHATWARI HEP D HYDRO	-18.31 -19.28
65 A	D HYDRO	
		-23.05
	IANIPUR	-23.05 -24.17
	RIPURA	-25.79 -25.85
	OGPCL Bhutan	
	ADANI_WIND	-26.78
	OGEN MEGA POWER	-29.27
	ITPC STATIONS-NR	-33.28
	ITPC STATIONS-SR	-34.58
	CARCHAM WANGTOO	-38.63
-	IEP	-40.45
	KM POWER	-40.97
	ONDICHERRY	-41.94
	INDAL STAGE-II	-43.15
	/EGHALAYA	-43.64
	ENEW_SR_SLR	-44.81
	EESTA HEP	-46.21
	KS POWER	-49.31
	CBIL	-50.10
	TPC STATIONS-WR	-51.85
	L&FS	-60.73
	INDAL POWER	-62.74
	EMBCORP	-70.46
	HARKHAND	-78.02
	AB POWER	-94.75
	OCPP	-99.66
	SSAM	-101.19
91 N	IEEPCO STATIONS	-102.95
92 H	IIMACHAL PRADESH	-104.48
	ſP	-112.82
94 E	DELHI	-125.32
95 R	EGL	-135.80
96 J	ITPL	-150.86
97 E	IHAR	-160.90
98 F	AJASTHAN	-164.66
99 N	VTPC STATIONS-ER	-177.10
	AYPEE NIGRIE	-186.72
101 C	DISHA	-193.21
	DB POWER	-223.88
	SSAR POWER	-259.32
104 A	RTPP	-292.27
	IEPAL(NVVN)	-321.29
	CHHATTISGARH	-362.21
* Total net ind	cludes net of transactions of electricity through various segments on power ex	
	ale and (+) indicates purchase	

	Table-26: DETAILS OF CONGESTION IN POWER EXCHANGES, OCTOBER 2023												
	Details of Congestion	Day Ahead Market			Gree	Green Day Ahead Market			High Price Day Ahead Market		Real Time Market		
		IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	IEX	PXIL	HPX	
1	Unconstrained Cleared Volume (MUs)	4688.68	21.60	36.83	184.16	0.00	0.00	15.799	6.86	2402.26	25.42	14.62	
2	Actual Cleared Volume and hence scheduled (MUs)	4688.35	21.60	36.83	183.59	0.00	0.00	15.798	6.86	2402.26	25.42	14.62	
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.33	0.00	0.00	0.57	0.00	0.00	0.0001	0.00	0.00	0.00	0.00	
4	Volume of electricity that could not be cleared and hence not scheduled because of reasons other than congestion (MUs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.01%	0.00%	0.00%	0.31%	0.00%	0.00%	0.001%	0.00%	0.00%	0.00%	0.00%	
6	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/ Total number of hours in the month)	0.97%	0.00%	0.00%	0.87%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	
7		Conge	estion occ	urrence (%) time b	lock wise	e			T			
	0.00 - 6.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	6.00 - 12.00 hours	41.38%	0.00%	0.00%	42.31%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
	12.00 - 18.00 hours	58.62%	0.00%	0.00%	57.69%	0.00%	0.00%	100.00%	0.00%	0.00%	0.00%	0.00%	
	18.00 - 24.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
*	* This power would have been scheduled had there been no congestion												

Source: IEX, PXIL, HPX & NLDC

Table-27: VOLUME OF TRANSACTIONS THROUGH POWER EXCHANGES IN INDIA (DAY-WISE) (MUs), OCTOBER 2023													
Date	Day A	head Ma	rket [#]	Green Day Ahead Market [#]			High Price DAM [#]		Real Time Market [#]			Total Electricity Generation	
	IEX	PXIL	HPX	IEX	PXIL	НРХ	IEX	PXIL	IEX	PXIL	НРХ	(MU) *	
1-Oct-23	135.29	0.00	0.00	8.51	0.00	0.00	0.00	0.00	100.55	0.00	0.00	4005.27	
2-Oct-23	153.53	0.00	0.00	9.06	0.00	0.00	0.00	0.00	87.83	0.00	0.00	3971.30	
3-Oct-23	177.50	0.00	0.00	7.63	0.00	0.00	0.00	0.00	94.76	0.00	0.00	4146.92	
4-Oct-23	178.88	0.00	0.00	7.24	0.00	0.00	0.00	0.00	116.38	0.00	0.00	4226.45	
5-Oct-23	198.24	0.00	0.00	8.19	0.00	0.00	0.00	0.00	100.46	0.00	0.13	4290.06	
6-Oct-23	202.87	1.20	2.02	8.09	0.00	0.00	0.00	0.00	88.41	0.23	0.00	4358.77	
7-Oct-23	188.43	0.40	2.84	5.51	0.00	0.00	0.00	0.00	76.49	0.10	0.00	4415.21	
8-Oct-23	186.43	0.00	0.00	5.38	0.00	0.00	0.00	0.00	73.89	0.34	0.36	4391.38	
9-Oct-23	143.61	0.00	0.00	4.31	0.00	0.00	0.00	0.00	73.65	2.60	1.64	4527.29	
10-Oct-23	126.38	0.15	4.80	3.16	0.00	0.00	0.01	0.90	83.14	9.46	0.33	4582.40	
11-Oct-23	120.13	3.14	5.86	2.91	0.00	0.00	4.83	0.00	52.39	9.50	7.69	4653.48	
12-Oct-23	130.49	2.54	5.98	2.69	0.00	0.00	4.35	0.56	63.00	2.43	2.88	4616.13	
13-Oct-23	107.33	5.99	7.73	2.49	0.00	0.00	3.46	5.40	78.57	0.00	1.61	4630.75	
14-Oct-23	120.78	7.29	7.20	3.04	0.00	0.00	2.76	0.00	78.19	0.00	0.00	4580.31	
15-Oct-23	127.81	0.00	0.00	7.48	0.00	0.00	0.00	0.00	87.66	0.26	0.00	4384.38	
16-Oct-23	135.80	0.20	0.00	6.73	0.00	0.00	0.00	0.00	97.13	0.00	0.00	4415.34	
17-Oct-23	148.38	0.00	0.40	4.41	0.00	0.00	0.00	0.00	104.33	0.00	0.00	4253.41	
18-Oct-23	166.44	0.10	0.00	5.30	0.00	0.00	0.00	0.00	68.55	0.00	0.00	4341.25	
19-Oct-23	160.87	0.00	0.00	5.17	0.00	0.00	0.27	0.00	70.80	0.00	0.00	4396.09	
20-Oct-23	159.77	0.00	0.00	5.57	0.00	0.00	0.12	0.00	84.23	0.20	0.00	4382.88	
21-Oct-23	134.69	0.00	0.00	4.65	0.00	0.00	0.00	0.00	66.36	0.30	0.00	4306.79	
22-Oct-23	135.26	0.00	0.00	6.30	0.00	0.00	0.00	0.00	83.70	0.00	0.00	4171.71	
23-Oct-23	149.73	0.00	0.00	7.79	0.00	0.00	0.00	0.00	77.16	0.00	0.00	4108.09	
24-Oct-23	113.27	0.00	0.00	6.07	0.00	0.00	0.00	0.00	84.27	0.00	0.00	3984.69	
25-Oct-23	145.03	0.00	0.00	7.48	0.00	0.00	0.00	0.00	64.97	0.00	0.00	4168.83	
26-Oct-23	153.55	0.00	0.00	6.59	0.00	0.00	0.00	0.00	61.68	0.00	0.00	4293.31	
27-Oct-23	156.22	0.20	0.00	6.49	0.00	0.00	0.00	0.00	56.49	0.00	0.00	4288.18	
28-Oct-23	156.85	0.00	0.00	6.23	0.00	0.00	0.00	0.00	58.25	0.00	0.00	4291.49	
29-Oct-23	142.80	0.00	0.00	6.57	0.00	0.00	0.00	0.00	52.98	0.00	0.00	4119.20	
30-Oct-23	164.11	0.00	0.00	6.83	0.00	0.00	0.00	0.00	62.29	0.00	0.00	4212.84	
31-Oct-23	167.87	0.40	0.00	5.72	0.00	0.00	0.00	0.00	53.69	0.00	0.00	4265.83	
Total	4688.35	21.60	36.83	183.59	0.00	0.00	15.80	6.86	2402.26	25.42	14.62	133780.03	
Source: NLI													
* As available on CEA Website. Gross Electricity Generation excluding electricity generation from renewables and captive power plants.													

* As available on CEA Website. Gross Electricity Generation excluding electricity generation from renewables and captive power plants. [#] Scheduled volume of all the bid areas.

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

Ta	able-28(a	a): PRIC	CE OF D	AY AHI	EAD TRA	ANSACT	IONS OI	F ELECT	RICITY	(DAY-V	VISE) (₹/	/kWh), O	CTOB	ER 2023	
Market Segment	Day A	head M of IEX	arket	Day A	head Ma PXIL	rket of	Day A	head Ma HPX	rket of		rice Day arket of I			gh Price ad Mark PXIL	
Date	Mini- mum ACP	Maxi- mum ACP	WA Price*	Mini- mum ACP	Maxi- mum ACP	WA Price*	Mini- mum ACP	Maxi- mum ACP	WA Price*	Mini- mum ACP	Maxi- mum ACP	WA Price*	Mini- mum ACP	Maxi- mum ACP	WA Price*
1-Oct-23	2.00	5.50	3.99	-	-	-	-	-	-	-	-	-	-	-	-
2-Oct-23	1.50	6.00	3.64	-	-	-	-	-	-	-	-	-	-	-	-
3-Oct-23	2.70	8.50	4.28	-	-	-	-	-	-	-	-	-	-	-	-
4-Oct-23	2.01	9.51	4.23	-	-	-	-	-	-	-	-	-	-	-	-
5-Oct-23	4.00	10.00	6.55	-	-	-	-	-	-	-	-	-	-	-	-
6-Oct-23	4.40	10.00	7.54	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
7-Oct-23	4.20	10.00	8.11	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
8-Oct-23	4.15	10.00	7.93	-	-	-	-	-	-	-	-	-	-	-	-
9-Oct-23	5.16	10.00	8.82	-	-	-	-	-	-	-	-	-	-	-	-
10-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	15.00	15.00	15.00	13.00	13.00	13.00
11-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	17.00	17.00	17.00	-	-	-
12-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	16.50	17.00	16.93	17.00	17.00	17.00
13-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	14.00	17.90	16.45	17.00	17.00	17.00
14-Oct-23	5.00	10.00	8.86	10.00	10.00	10.00	10.00	10.00	10.00	15.00	17.90	17.19	-	-	-
15-Oct-23	2.87	10.00	7.39	-	-	-	-	-	-	-	-	-	-	-	-
16-Oct-23	4.67	10.00	8.62	10.00	10.00	10.00	-	-	-	12.00	12.00	12.00	-	-	-
17-Oct-23	4.99	10.00	8.86	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
18-Oct-23	3.62	10.00	7.12	10.00	10.00	10.00	-	-	-	18.00	18.00	18.00	-	-	-
19-Oct-23	3.66	10.00	6.50	-	-	-	-	-	-	15.00	19.00	18.99	-	-	-
20-Oct-23	3.80	10.00	6.70	-	-	-	-	-	-	20.00	20.00	20.00	-	-	-
21-Oct-23	3.05	10.00	5.36	-	-	-	-	-	-	-	-	-	-	-	-
22-Oct-23	2.90	10.00	4.33	-	-	-	-	-	-	-	-	-	-	-	-
23-Oct-23	2.94	10.00	4.47	-	-	-	-	-	-	-	-	-	-	-	-
24-Oct-23	2.30	5.00	3.50	-	-	-	-	-	-	-	-	-	-	-	-
25-Oct-23	3.00	10.00	4.77	-	-	-	-	-	-	-	-	-	-	-	-
26-Oct-23	3.04	10.00	4.95	-	-	-	-	-	-	-	-	-	-	-	-
27-Oct-23	2.88	10.00	4.85	10.00	10.00	10.00	-	-	-	-	-	-	-	-	-
28-Oct-23	2.88	10.00	4.91	-	-	-	-	-	-	-	-	-	-	-	-
29-Oct-23	2.52	5.90	3.97	-	-	-	-	-	-	-	-	-	-	-	-
30-Oct-23	3.00	10.00	4.53	-	-	-	-	-	-	-	-	-	-	-	-
31-Oct-23	3.00	10.00	4.71	10.00	10.00	10.00	-	-	-	-	-	-	-	-	-
	1.50#	10.00#	6.36	10.00#	10.00#	10.00	10.00#	10.00#	10.00	12.00#	20.00#	16.95	13.00#	17.00#	16.48
Source: IE															
* Weighted													our of th	e day. He	ere,
ACV and F	ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges.														

Maximum/Minimum in the month

Market Segment	Green Day	y Ahead Mar	ket of IEX	Green D	ay Ahead M PXIL	arket of	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-Oct-23	4.00	10.00	5.07	-	-	-	-	-		
2-Oct-23	4.03	7.00	4.64	-	-	-	-	-		
3-Oct-23	3.90	8.00	4.84	-	-	-	-	-		
4-Oct-23	1.70	10.00	4.90	-	-	-	-	-		
5-Oct-23	4.00	9.10	4.81	-	-	-	-	-		
6-Oct-23	4.09	10.00	6.26	-	-	-	-	-		
7-Oct-23	4.64	10.00	6.90	-	-	-	-	-		
8-Oct-23	4.10	10.00	6.85	-	-	-	-	-		
9-Oct-23	4.80	10.00	8.16	-	-	-	-	-		
10-Oct-23	10.00	10.00	10.00	-	-	-	-	-		
11-Oct-23	10.00	10.00	10.00	-	-	-	-	-		
12-Oct-23	10.00	10.00	10.00	-	-	-	-	-		
13-Oct-23	10.00	10.00	10.00	-	-	-	-	-		
14-Oct-23	10.00	10.00	10.00	-	-	-	-	-		
15-Oct-23	4.00	10.00	7.00	-	-	-	-	-		
16-Oct-23	5.00	10.00	7.78	-	-	-	-	-		
17-Oct-23	6.00	10.00	9.16	-	-	-	-	-		
18-Oct-23	5.50	10.00	7.95	-	-	-	-	-		
19-Oct-23	4.50	10.00	7.58	-	-	-	-	-		
20-Oct-23	4.10	10.00	7.19	-	-	-	-	-		
21-Oct-23	4.60	10.00	7.66	-	-	-	-	-		
22-Oct-23	4.08	10.00	6.30	-	-	-	-	-		
23-Oct-23	4.54	10.00	6.19	-	-	-	-	-		
24-Oct-23	4.29	10.00	5.52	-	-	-	-	-		
25-Oct-23	4.30	10.00	5.72	-	-	-	-	-		
26-Oct-23	4.29	10.00	5.48	-	-	-	-	-		
27-Oct-23	4.29	10.00	5.33	-	-	-	-	-		
28-Oct-23	4.29	10.00	5.21	-	-	-	-	-		
29-Oct-23	4.18	10.00	5.09	-	-	-	-	-		
30-Oct-23	4.17	10.00	5.18	-	-	-	-	-		
31-Oct-23	4.45	10.00	5.33	-	-	-	-	-		
	1.70#	10.00#	6.37	_	-	_	-	-		

* 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

Market Segment	Real T	ime Market o	of IEX	Real Ti	ne Market o	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-Oct-23	1.80	5.50	3.49	-	-	-	-	-	
2-Oct-23	1.75	5.50	3.35	-	-	-	-	-	
3-Oct-23	2.47	10.00	4.54	-	-	-	-	-	
4-Oct-23	3.26	10.00	5.90	-	-	-	-	-	
5-Oct-23	2.99	10.00	6.48	-	-	-	10.00	10.00	10.0
6-Oct-23	3.27	10.00	6.19	10.00	10.00	10.00	-	-	
7-Oct-23	5.00	10.00	7.89	10.00	10.00	10.00	-	-	
8-Oct-23	3.90	10.00	7.94	10.00	10.00	10.00	10.00	10.00	10.0
9-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.0
10-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.0
11-Oct-23	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.0
12-Oct-23	6.49	10.00	9.55	10.00	10.00	10.00	4.00	10.00	9.4
13-Oct-23	3.81	10.00	8.52	-	-	-	10.00	10.00	10.0
14-Oct-23	2.01	10.00	7.63	-	-	-	-	-	
15-Oct-23	2.00	10.00	6.43	10.00	10.00	10.00	-	-	
16-Oct-23	3.22	10.00	6.24	-	-	-	-	-	
17-Oct-23	2.63	10.00	5.16	-	-	-	-	-	
18-Oct-23	2.20	10.00	6.07	-	-	-	-	-	
19-Oct-23	3.00	10.00	6.10	-	-	-	-	-	
20-Oct-23	3.49	10.00	5.99	10.00	10.00	10.00	-	-	
21-Oct-23	2.50	10.00	4.59	10.00	10.00	10.00	-	-	
22-Oct-23	2.38	7.00	4.22	-	-	-	-	-	
23-Oct-23	2.24	8.00	3.94	-	-	-	-	-	
24-Oct-23	2.00	5.90	3.85	-	-	-	-	-	
25-Oct-23	2.00	10.00	4.59	-	-	-	-	-	
26-Oct-23	2.35	10.00	4.66	-	-	-	-	-	
27-Oct-23	2.50	10.00	4.77	-	-	-	-	-	
28-Oct-23	2.93	10.00	5.07	-	-	-	-	-	
29-Oct-23	2.36	6.07	3.79	-	-	-	-	-	
30-Oct-23	2.00	10.00	4.94	-	-	-	-	-	
31-Oct-23	3.00	10.00	5.14	-	-	-	-	-	
	1.75#	10.00#	5.99	10.00#	10.00#	10.00	4.00 [#]	10.00#	9.8

* 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

Throng-Tube Number Throng-Tube CDAM. Throng-Tube Sale Purchase Sale Purchase Number Purchase Pu	Table-29: VOLUN	ME OF TH	RANSACTIO	NS THRO	UGH POWE		GES (REGION	AL ENTITY	(M [*] -WISE) (M	Us),
Name Parchase Sale Parchase Sale Parchase Net*** UNNAB 93.61 127.08 0.00 0.00 0.00 0.00 0.10.38 105.15 37.27 HARYANA 127.88 0.00 0.00 0.00 0.00 11.038 105.15 37.27 HARYHAN 105.79 160.18 2.37 5.68 0.00 0.00 74.04 43.13 1-25.32 UTTAR PRADISTH 502.24 465.77 0.02 0.00 0.00 0.00 8.49 106.32 104.48 IMACHAL 87.7 12.97 20.36 0.00 0.00 0.00 0.00 1.03 104.18 122.08 CHANDIGARH 19.35 5.83 0.00 0.00 0.00 0.00 1.03 10.41 15.31 10.00 0.00 1.00 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02 1.02		Through DAM				Through HP-DAM		Throug	h RTM	Total
PUNAB 93.61 127.08 0.00 9.47 0.00 110.83 105.15 372.7 RAJASTNAN 412.8 35.00 0.000 11.40 44.96 4.10 RAJASTIAN 101.57 82.17 3.41 8.31 0.00 0.00 246.04 43.13 125.32 UTTAR PRADESH 502.42 465.77 0.42 5.83 0.00 0.00 66.04 43.13 125.32 UTTAR ARHAND 27.41 77.80 0.00 0.00 0.00 66.04 127.11 199.29 HMACMALP 89.78 2.46 4.82 0.09 0.00 0.00 10.41 13.33 111.74 199.29 CHANDGARH 19.35 5.83 0.00 0.00 0.00 10.01 5.33 13.11 11.41 199.29 CHANDGARH 19.35 5.83 0.00 0.00 0.00 1.533 111.54 12.52 CHANTISGARH 1214.14 5.83 0.00 1.00<	Name of the Entity		0	U		8		6		
HARYANA 12.85 35.00 0.00 0.18 0.00 0.14.00 14.06 -14.06 DBLHI 157.91 60.18 2.37 5.68 0.00 0.00 74.04 15.31 123.05 DTTAR PRADETS 502.42 465.77 0.42 5.58 0.00 0.00 6.604 218.24 129.96 DTTAR PRADETS 57.72 176.05 0.00 0.00 0.00 8.99 6.03 227.11 IMMACILLP 89.75 2.26 0.00 0.00 0.00 1.88 222.6 1.04.84 IAAPAGARTA 56.07 128.97 2.265 1.25 0.00 0.00 9.98 73.18 105.49 CHANDIGARTA 14.19 51.284 0.00 2.45 1.25 0.00 0.00 1.32 3.05 152.23 CHANTGARTA 14.19 51.24 0.00 0.00 1.36 1.36.23 1.30 1.36.23 1.35.3 1.36.3 1.36.23 1.36.3 <td< td=""><td>PUNJAB</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	PUNJAB									
RALASTHAN 101.57 82.17 3.41 8.11 0.00 0.00 23.08 8.591 -164.65 DITHI 15701 60.18 2.37 5.68 0.00 0.00 67.04 43.13 -125.32 UTTARAKHAND 27.44 178.05 0.00 0.00 0.00 6.00 3.02 27.11 HUMACHALP 89.78 2.46 4.82 0.09 0.00 0.00 0.00 1.71 1.71 1.79 2.72 CHANDIGARH 19.35 5.83 0.00 0.00 0.00 0.00 1.70.79 3.73 9.11.23 MARARASHTRA 56.07 828.89 2.44 1.26 0.00 0.00 1.00.1 59.38 6.77.3 38.11.71 CHJARAT 14.19 51.26 0.00 0.00 0.00 1.027 52.24 MAHARASHTRA 56.61 43.31 0.00 1.001 0.00 0.00 3.38 15.02.7 52.34 MARARAKA										
DELHI 157.91 60.18 2.37 5.68 0.00 70.04 43.13 -123.32 UTTAR PRADESH 50.24 465.77 0.42 5.83 0.00 0.00 66.04 218.44 120.86 UTTAR PRADENT 2.74 178.05 0.00 0.00 0.00 41.08 72.22 1104.48 IA K 6.75 129.97 20.36 0.00 0.00 0.00 0.00 1.01 1.17.4 199.29 CIANDIGARH 18.35 5.83 0.00 0.00 0.00 0.00 1.04 -1.13.2 MAIARASHITRA 56.07 828.89 2.45 1.26 0.00 0.01 59.87 31.31 10.51 CUHART 14.19 512.64 0.00 0.00 0.00 16.01 6.10 352.13 CUHART 14.14 5.83 0.00 0.00 0.00 16.03 352.33 15.88 DNENT 0.00 14.33 10.22 52.										
UTLAR IRADESH 502.42 465.77 0.42 5.83 0.00 0.00 6.00 218.24 120.96 UTLARAKHAND 2.74 178.05 0.00 0.00 0.00 0.00 8.49 66.30 227.11 IMA 80.78 2.246 4.82 0.00 0.00 0.00 0.00 173.31 111.74 179.20 CHANDIGARH 19.55 5.83 0.00 2.41 3.78 0.00 0.00 170.79 37.9 117.84 MAHAASHTRA 56.07 82.89 2.45 12.26 0.00 0.00 59.38 67.7 38.117 CHANTISGARH 214.14 5.83 0.00 10.00 0.00 1.60.01 1.53.7 0.30 0.00 0.00 1.62.17 50.24 DABINH 0.00 43.31 0.00 0.00 0.00 6.63 1.00.7 52.24 ANDIRA 2.44.5 2.45.3 3.41 0.00 0.00 3.31 1.02.7										
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HARKHAND 6.06 9.93 0.00 2.68 0.00 0.00 89.61 5.05 -78.02 SIKKIM 4.25 0.00 3.05 0.00 0.00 0.00 6.05 0.46 -12.89 DVC 5.56 22.46 0.00 7.16 0.00 0.00 4.34 86.25 105.98 ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 0.00 9.40 1.18 -15.89 ASSAM 0.00 6.00 0.00 0.00 0.00 23.3 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.00 0.00 0.00 3.76 5.18 43.64 MIZORAM 18.31 0.00 0.00 0.00 0.00 28.59 0.77 25.79 NIPC STATIONS-NR 0.36 0.00 0.00 0.00 0.00 0.00 -40.45 AD HYDRO 19.93 0.00 0.00 0.00 0.00 -13.68 <td>ODISHA</td> <td>146.28</td> <td>74.33</td> <td>0.00</td> <td></td> <td>0.00</td> <td>0.00</td> <td>168.99</td> <td>45.99</td> <td>-193.21</td>	ODISHA	146.28	74.33	0.00		0.00	0.00	168.99	45.99	-193.21
SiKKIM 4.25 0.00 3.05 0.00 0.00 6.05 0.46 -12.89 DVC 5.56 22.46 0.00 7.16 0.00 0.00 4.34 86.25 105.98 ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 9.40 1.18 -15.89 ASSAM 0.00 6.90 0.00 0.00 0.00 121.61 13.41 -101.19 MANPUR 1.96 0.00 0.00 0.00 0.00 3.76 5.18 443.64 MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 -25.79 NTPURA 0.00 2.04 0.00 0.00 0.00 28.44 0.00 -33.28 NHP STATIONS-NR 0.98 0.00 0.00 0.00 0.00 0.00 -23.05 GSTPS 2.73 0.00 0.00 0.00 0.00 0.00 -23.05 GSTPS 2.33 0.00	BIHAR	17.91	75.25	0.00		0.00	0.40	256.08	32.93	-160.90
DVC 5.56 22.46 0.00 7.16 0.00 0.00 4.34 86.25 105.98 ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 0.00 1.18 -15.89 ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 0.00 1.13 1-101.19 MANIPUR 1.96 0.00 0.00 0.00 0.00 23.39 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.831 NAGALAND 4.04 0.00 0.00 0.00 0.00 28.59 0.77 -25.79 TRPURA 0.00 2.04 0.00 0.00 0.00 28.44 0.00 -33.28 NHPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -23.05 IGSTPS 2.93 </td <td>JHARKHAND</td> <td>6.06</td> <td>9.93</td> <td>0.00</td> <td>2.68</td> <td>0.00</td> <td>0.00</td> <td>89.61</td> <td>5.05</td> <td>-78.02</td>	JHARKHAND	6.06	9.93	0.00	2.68	0.00	0.00	89.61	5.05	-78.02
ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 9.40 1.18 -15.89 ASSAM 0.00 6.90 0.00 0.11 0.00 0.00 12.61 13.41 -101.19 MANIPUR 1.96 0.00 0.00 0.00 0.00 23.39 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -43.64 MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 0.00 -6.19 TRIPURA 0.00 2.04 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS-NR 0.98 0.00 0.00 0.00 0.00 0.00 -33.28 NHP STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 -23.05 SITS 2.93 0.00 0.00 0.00 0.00 0.00 -33.28	SIKKIM	4.25	0.00	3.05	0.00	0.00	0.00	6.05	0.46	-12.89
ARUNACHAL P 7.67 0.00 0.00 0.00 0.00 9.40 1.18 -15.89 ASSAM 0.00 6.90 0.00 0.11 0.00 0.00 12.61 13.41 -101.19 MANIPUR 1.96 0.00 0.00 0.00 0.00 23.39 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -43.64 MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 0.00 -6.19 TRIPURA 0.00 2.04 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS-NR 0.98 0.00 0.00 0.00 0.00 0.00 -33.28 NHP STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 -23.05 SITS 2.93 0.00 0.00 0.00 0.00 0.00 -33.28	DVC	5.56	22.46	0.00	7.16	0.00	0.00	4.34	86.25	105.98
ASSAM 0.00 6.90 0.00 0.11 0.00 0.00 121.61 13.41 -101.19 MANIPUR 1.96 0.00 0.00 0.00 0.00 23.39 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.831 NAGALAND 4.04 0.00 0.00 0.00 0.00 0.00 2.15 0.00 -6.19 TRPURA 0.00 2.04 0.00 0.00 0.00 2.859 0.77 -25.79 NTPC STATIONS 1.36 0.00 <	ARUNACHAL P		0.00	0.00	0.00	0.00	0.00	9.40	1.18	-15.89
MANIPUR 1.96 0.00 0.00 0.00 0.00 23.39 1.17 -24.17 MEGHALAYA 47.35 2.24 0.00 0.04 0.00 0.00 3.76 5.18 43.64 MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 0.00 0.00 1.83 43.64 NIAGALAND 4.04 0.00 0.00 0.00 0.00 2.15 0.00 -6.19 TRIPURA 0.00 2.04 0.00 0.00 0.00 28.44 0.00 -33.28 NIPC STATIONS-NR 0.98 0.00 0.00 0.00 0.00 0.00 -33.28 NIPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 -23.05 GSTPS 2.93 0.00 0.00 0.00 0.00 0.00 -23.05 GSTPS 2.93 0.00 0.00 0.00 0.00 0.00 -23.05 GSTPS 2.93 <td>ASSAM</td> <td>0.00</td> <td>6.90</td> <td>0.00</td> <td>0.11</td> <td>0.00</td> <td>0.00</td> <td>121.61</td> <td>13.41</td> <td></td>	ASSAM	0.00	6.90	0.00	0.11	0.00	0.00	121.61	13.41	
MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 0.00 -18.31 NAGALAND 4.04 0.00 0.00 0.00 0.00 2.15 0.00 -6.19 TRIPURA 0.00 2.04 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS-NR 0.98 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS 1.36 0.00 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 -25.79 AD HYDRO 19.93 0.00 0.00 0.00 0.00 0.00 -23.05 GISTPS 2.93 0.00 0.00 0.00 0.00 0.00 -38.63 SHREE CEMENT 9.12 0.00 0.00 0.00 0.00 0.00 0.00 -16.33 SORANG HEP 5.33 0.00 7.00	MANIPUR	1.96	0.00	0.00	0.00	0.00	0.00	23.39		-24.17
MIZORAM 18.31 0.00 0.00 0.00 0.00 0.00 0.00 -18.31 NAGALAND 4.04 0.00 0.00 0.00 0.00 2.15 0.00 -6.19 TRIPURA 0.00 2.04 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS-NR 0.98 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS 1.36 0.00 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 -25.79 AD HYDRO 19.93 0.00 0.00 0.00 0.00 0.00 -23.05 GISTPS 2.93 0.00 0.00 0.00 0.00 0.00 -38.63 SHREE CEMENT 9.12 0.00 0.00 0.00 0.00 0.00 0.00 -16.33 SORANG HEP 5.33 0.00 7.00	MEGHALAYA	47.35	2.24	0.00	0.04	0.00	0.00	3.76	5.18	-43.64
NAGALAND 4.04 0.00 0.00 0.00 0.00 2.15 0.00 -6.19 TRPURA 0.00 2.04 0.00 0.00 0.00 28.59 0.77 -25.79 NTPC STATIONS-NR 0.98 0.00 0.00 0.00 0.00 28.44 0.00 -33.28 NHPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 0.00 0.00 -33.28 NHPC STATIONS 1.36 0.00 0.00 0.00 0.00 0.00 0.00 -40.45 AD HYDRO 19.93 0.00 0.00 0.00 0.00 0.00 -23.05 IGSTPS 2.93 0.00 0.00 0.00 0.00 0.00 -38.63 SHREE CEMENT 9.12 0.00 0.00 0.00 0.00 0.00 0.11 0.00 -16.3 SORANG HEP 5.33 0.00 7.00 0.00 0.00 0.00 0.00 0.00 0.00	MIZORAM			0.00	0.00	0.00	0.00			
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ESSAR POWER248.120.000.000.000.000.0011.780.58-259.32JINDAL STAGE-II80.1020.380.000.000.000.005.1321.71-43.15DB POWER215.400.000.000.000.000.008.480.00-223.88	EMCO	15.84	0.00	0.00	0.00	0.00	0.00	0.78	0.00	-16.62
JINDAL STAGE-II 80.10 20.38 0.00 0.00 0.00 0.00 5.13 21.71 -43.15 DB POWER 215.40 0.00 0.00 0.00 0.00 8.48 0.00 -223.88	ESSAR POWER		0.00	0.00	0.00	0.00	0.00		0.58	-259.32
DB POWER 215.40 0.00 0.00 0.00 0.00 8.48 0.00 -223.88	JINDAL STAGE-II									
	DHARIWAL POWER	8.06	0.00	0.00	0.00	0.00	0.00	0.58	0.00	-8.64

JAYPEE NIGRIE	186.51	0.00	0.00	0.00	0.00	0.00	0.21	0.00	-186.72
DGEN MEGA POWER	6.64	0.00	0.00	0.00	2.82	0.00	19.82	0.00	-29.27
MB POWER	71.31	0.00	0.00	0.00	0.00	0.00	23.44	0.00	-94.75
MARUTI COAL	9.72	0.00	0.00	0.00	0.00	0.00	1.59	1.20	-10.11
JHABUA POWER MP	8.99	1.33	0.00	0.00	0.00	0.00	4.79	0.27	-12.18
SASAN UMPP	0.00	0.00	0.00	0.00	0.00	0.00	8.11	0.00	-8.11
TRN ENERGY	0.00	0.00	0.00	0.00	0.00	0.00	6.88	0.00	-6.88
RKM POWER	26.68	0.00	0.00	0.00	0.00	0.00	14.29	0.00	-40.97
SKS POWER	46.40	0.00	0.00	0.00	0.00	0.00	2.92	0.00	-49.31
INOX_BHUJ	0.00	0.00	1.43	0.00	0.00	0.00	0.00	0.00	-1.43
REGL	130.61	0.00	0.00	0.00	0.00	0.00	6.00	0.81	-135.80
AMPS Hazira	0.00	116.92	0.00	62.83	0.00	0.00	0.00	19.94	199.69
RGPPL_IR	0.00	0.00	0.00	0.00	4.04	0.00	0.00	1.04	-3.01
ADANI_WIND	14.63	0.00	12.15	0.00	0.00	0.00	0.00	0.00	-26.78
CONTINNUM PT	2.19	0.00	10.41	0.00	0.00	0.00	0.00	0.00	-12.60
RENERGY5_WIND	2.02	0.00	5.05	0.00	0.00	0.00	0.00	0.00	-7.07
ARTPP	281.33	0.00	0.00	0.00	0.00	0.00	10.94	0.00	-292.27
MTPS	0.02	0.00	0.00	0.00	0.00	0.00	8.24	0.00	-8.26
RATNAGIRI	0.00	0.00	0.00	0.00	6.96	0.00	0.00	0.00	-6.96
NTPC STATIONS-SR	9.63	0.00	8.13	0.00	0.00	0.00	16.81	0.00	-34.58
SIMHAPURI	14.55	0.00	0.00	0.00	0.00	0.00	4.71	2.34	-16.91
COASTGEN	2.09	0.00	0.00	0.00	0.00	0.00	0.76	0.00	-2.85
IL&FS	57.11	0.00	0.00	0.00	0.00	0.00	3.62	0.00	-60.73
NLC	0.09	0.00	0.00	0.00	0.00	0.00	2.22	0.00	-2.31
SEMBCORP	55.27	0.00	0.00	0.00	0.00	0.00	15.18	0.00	-70.46
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	-0.46
OSTRO Hiriyur	1.59	0.00	12.75	0.00	0.00	0.00	0.51	0.00	-14.85
NTPC STATIONS-ER	121.17	0.00	0.00	0.00	0.00	0.00	55.92	0.00	-177.10
NPGC	1.17	0.00	0.00	0.00	0.00	0.00	16.02	0.00	-17.19
ADHUNIK POWER LTD	3.53	0.00	0.00	0.00	0.00	0.00	4.08	0.00	-7.61
CHUZACHEN HEP	1.03	0.00	0.00	0.00	0.00	0.00	0.15	0.00	-1.19
GMR KAMALANGA	0.79	0.00	0.00	0.00	0.00	0.00	0.16	0.00	-0.95
JITPL	146.91	0.00	0.00	0.00	0.00	0.00	3.95	0.00	-150.86
TEESTA HEP	34.60	0.00	0.00	0.00	0.00	0.00	11.60	0.00	-46.21
JORETHANG	0.00	0.00	0.00	0.00	0.00	0.00	4.45	0.00	-4.45
NEPAL(NVVN)	311.64	0.00	0.00	0.00	0.00	0.00	9.66	0.00	-321.29
DIKCHU HEP	4.08	0.00	0.00	0.00	0.00	0.00	0.68	0.00	-4.77
TASHIDENG HEP	0.00	0.00	0.00	0.00	0.00	0.00	2.16	0.00	-2.16
DGPCL Bhutan	25.85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-25.85
KBUNL	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.61
SUL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.08	3.08
NTPC STATIONS-NER	8.83	0.00	0.00	0.00	0.00	0.00	9.00	0.00	-17.82
NEEPCO STATIONS	73.07	0.00	0.00	0.00	0.00	0.00	29.88	0.00	-102.95
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.01
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.00	-0.35
ONGC PALATANA	8.08	0.00	0.00	0.00	0.00	0.00	4.34	0.00	-12.42
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	-0.22
Source: NLDC									
* in case of a state, the entit	ties which a	re "selling" al	lso include g	enerators con	nected to state	grid and the enti	ties which are	"buying" also i	nclude
open access consumers.		Ŭ	Ū						

open access consumers. ** (-) indicates sale and (+) indicates purchase, *** Total net includes net of transactions through various segments on power exchanges

		All Ind	All India Grid Charges (₹/kWh)								
Date	Volume (MU)	Minimum	Maximum	Average							
1-Oct-23	82.50	2.01	6.51	4.0							
2-Oct-23	78.34	1.75	6.00	3.82							
3-Oct-23	73.58	2.70	10.00	4.6							
4-Oct-23	82.55	3.26	10.00	6.0							
5-Oct-23	71.39	3.93	10.00	6.9							
6-Oct-23	70.71	3.51	10.00	7.5							
7-Oct-23	70.69	5.00	10.00	8.6							
8-Oct-23	68.57	4.20	10.00	8.5							
9-Oct-23	74.79	4.53	10.00	9.92							
10-Oct-23	77.69	5.00	11.14	10.0							
11-Oct-23	70.14	10.00	14.05	10.1							
12-Oct-23	66.92	10.00	14.80	10.1							
13-Oct-23	65.52	7.91	15.41	10.3							
14-Oct-23	68.23	5.00	14.01	9.2							
15-Oct-23	67.56	3.04	10.00	7.5							
16-Oct-23	85.85	3.57	10.00	8.7							
17-Oct-23	81.07	3.57	10.00	8.9							
18-Oct-23	68.45	3.57	10.01	7.7							
19-Oct-23	66.90	3.57	10.30	7.5							
20-Oct-23	68.06	3.57	10.33	7.4							
21-Oct-23	69.80	2.87	10.00	5.8							
22-Oct-23	68.38	2.87	10.00	4.6							
23-Oct-23	67.97	2.87	10.00	4.6							
24-Oct-23	67.63	2.30	10.00	4.0							
25-Oct-23	65.83	2.30	10.00	5.0							
26-Oct-23	62.60	2.30	10.00	5.2							
27-Oct-23	62.97	2.50	10.00	5.2							
28-Oct-23	68.01	2.50	10.00	5.3							
29-Oct-23	65.00	2.50	10.00	4.2							
30-Oct-23	66.64	2.50	10.00	5.1							
31-Oct-23	57.18	2.50	10.00	5.3							
Total	2181.53	1.75#	15.41#	6.8							

Table-31: VOLUME OF ELECTRICIT	Y UNDER DRAWAL/ OVER INJECTION (EXP OCTOBER 2023	ORTED) UNDER DSM,
Name of the Entity	Volume of Under drawal/ Over injection (MUs)	% of Volume
RAJASTHAN	116.90	5.49
MAHARASHTRA	101.85	4.78
MP	99.39	4.67
GUJARAT	92.93	4.36
UTTAR PRADESH	89.00	4.18
TELANGANA	88.42	4.15
PUNJAB	77.63	3.64
HARYANA NTPC STATIONS-NR	75.86	<u>3.56</u> 3.51
NTPC STATIONS-NR NTPC STATIONS-WR	64.77	3.04
CHHATTISGARH	61.20	2.87
KARNATAKA	55.85	2.62
NHPC STATIONS	53.26	2.50
ANDHRA PRADESH	50.38	2.36
DELHI	49.46	2.32
TAMIL NADU	45.41	2.13
NTPC STATIONS-SR	44.02	2.07
NTPC STATIONS-ER	40.70	1.91
DVC	39.86	1.87
BIHAR	38.43	1.80
HIMACHAL PRADESH	35.11	1.65
SASAN UMPP	34.23	1.61
AMPS Hazira	21.65	1.02
JHARKHAND	21.54	1.01
J & K	17.85	0.84
WEST BENGAL	16.24	0.76
UTTARAKHAND	16.12	0.76
BBMB	16.01	0.75
JINDAL STAGE-II	15.68	0.74
NEEPCO STATIONS IGSTPS	14.92	0.70 0.70
NLC	12.32	0.58
ODISHA	12.32	0.58
NJPC	12.51	0.58
RKM POWER	10.54	0.49
JAYPEE NIGRIE	9.62	0.45
JINDAL POWER	9.31	0.44
LANKO AMK	9.15	0.43
PONDICHERRY	8.72	0.41
DD&DNH	8.65	0.41
TATA_PVGD	8.30	0.39
RAMPUR HEP	7.66	0.36
ASSAM	7.58	0.36
ESSAR POWER	7.55	0.35
TEHRI	7.51	0.35
MEGHALAYA	7.46	0.35
BALCO	7.35	0.34
SEMBCORP	7.16	0.34
KARCHAM WANGTOO AZURE43 SLR	7.16	0.34 0.33
AZURE43_SLR GOA	6.83	0.33
MAITHON POWER LTD	6.64	0.32
NPGC	6.51	0.31
RPREL	6.44	0.30
MIZORAM	6.17	0.30
ASEJTL_SLR	6.11	0.29
TRIPURA	6.02	0.28
NEPAL(NVVN)	5.92	0.28
SBESS	5.82	0.27

ARERJL_SLR	4.96	0.23
SIKKIM	4.93	0.23
SPRNG_NPKUNTA	4.88	0.23
CHANDIGARH	4.71	0.22
ARUNACHAL PRADESH	4.69	0.22
NAGALAND	4.68	0.22
AGEMPL BHUJ	4.60	0.22
ADANI_WIND	4.50	0.21
TASHIDENG HEP	4.42	0.21
MB POWER	4.40	0.21
CLEAN_SLR	4.35	0.20
GIWEL_BHUJ	4.26	0.20
SKRPL	4.16	0.20
KREDL_PVGD	4.15	0.19
NETCL VALLUR	4.10	0.19
AZURE41_SLR	4.06	0.19
NTPL	4.01	0.19
THAR1_SLR	3.98	0.19
AYANA_RP1	3.90	0.18
ARINSUM_RUMS	3.84	0.18
AVAADASN_SLR	3.83	0.18
ACME_HEERGARH	3.76	0.18
PARAM_PVGD	3.72	0.17
KERALA	3.71	0.17
RENEWURJA_SLR	3.69	0.17
MANIPUR	3.63	0.17
NEP	3.57	0.17
ACME_SLR	3.55	0.17
AZURE_PVGD	3.53	0.17
NSPCL	3.52	0.17
BARC	3.52	0.17
NTPC_ANTP	3.48	0.16
MSUPL_BHDL2	3.47	0.16
RAIL	3.47	0.16
RENEWSB	3.40	0.16
GIWEL_TCN	3.31	0.16
MAHINDRA_RUMS	3.31	0.16
ALFANAR_BHUJ	3.31	0.16
ORANGE_TCN	3.29	0.15
ARS_PVGD	3.29	0.15
EDEN_SLR	3.29	0.15
JORETHANG	3.20	0.15
DB POWER	3.18	0.15
KOTESHWAR	3.14	0.15
ACME_RUMS	3.10	0.15
DAGACHU	3.08	0.14
RENEW_BHUJ	3.01	0.14
JITPL	2.90	0.14
CLEANSP_SLR	2.87	0.13
ADHUNIK POWER LTD	2.86	0.13
EMCO	2.85	0.13
SBG_NPK	2.82	0.13
BRBCL,NABINAGAR	2.78	0.13
RENEW_SR_SLR	2.77	0.13
ABC_BHDL2	2.76	0.13
NTPC STATIONS-NER	2.73	0.13
RENEW_SLR_BKN	2.69	0.13
RENEW_BHACHAU	2.69	0.13
RENEWSW_SLR	2.65	0.12
OSTRO	2.60	0.12
GRT_JPL	2.58	0.12
ADY1_PVGD	2.56	0.12
AVADARJHN_SLR	2.55	0.12

RENEWH SLR 2.53 0.12 INABUA POWER MP 2.49 0.12 IHABUA POWER MP 2.40 0.11 TATA SLR 2.39 0.11 AZURE, SLR 2.30 0.11 MERN 2.14 0.10 SIMHAPUR 2.14 0.10 ROSINCHU HEP 2.12 0.10 RNGANADH FP 2.03 0.10 ESPL, RADHANESDA 1.98 0.09 CCPI 1.83 0.09 AZURESA SLR 1.81 0.09 AZURESA SLR 1.81 0.09 AZURESA SLR 1.83 0.09 AZURESA SLR 1.83 0.07 MARNANA 1.67 0.08 RENEW, PVGD 1.63 0.07 MARAVA 1.59 0.07 APKAAVA 1.57 0.07 CASTGEN 1.57 0.07 CAVACACHEN HEP 1.57 0.07 COASTGEN 1.52 0.07 NAVAN, NFKUNTA			
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SAINJ HEP 0.79 0.04			
0.70 0.04			
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OMR RAMALANOA 0.08 0.05 RENEW_SLR 0.66 0.03			
AHSP_ANTP 0.64 0.03 AKSP_ANTP 0.62 0.02			
AKSP_ANTP 0.63 0.03	ANJY_ANIY	0.03	0.03

Volume Exported by top 5 Regional Entities	500.07	23.47
Total	2130.43	100.00
BHADRAVATHI HVDC	0.0001	0.00001
HVDC RAIGARH	0.001	0.00003
VINDHYACHAL HVDC	0.01	0.0003
HVDC CHAMPA	0.01	0.001
HVDC PUS	0.03	0.001
KSMPL_SLR	0.04	0.002
SBSR_SLR	0.06	0.00
GSECL P-II	0.06	0.00
SB6_POKARAN	0.06	0.00
SB_SLR	0.09	0.00
DOYANG HEP	0.20	0.01
FRV_NPK	0.24	0.01
HVDC ALPD	0.28	0.01
DIKCHU HEP	0.29	0.01
SRSSFPL	0.37	0.02
POWERICA	0.37	0.02
RSTPS_FSPP	0.38	0.02
AD HYDRO	0.45	0.02
YARROW_PVGD	0.47	0.02
LOKTAK	0.47	0.02
JSW_RENEW_2	0.47	0.02
DGEN MEGA POWER	0.49	0.02
SHREE CEMENT NFF	0.49 0.49	0.02
BETAM_TCN	0.52	0.02
SORANG HEP	0.53	0.02
AKS_PVGD	0.60	0.03
PARE HEP	0.60	0.03
TPSL	0.61	0.03
ABSP_ANTP	0.61	0.03
AVAADA2_PVGD	0.61	0.03

Table-32: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) UNDER DSM, OCTOBER 2023					
Name of the Entity	Volume of Over drawal/ Under Injection (MUs)	% of Volume			
NTPC STATIONS-ER	115.83	5.19			
NTPC STATIONS-SR	114.25	5.12			
NTPC STATIONS-WR	108.68	4.87			
KARNATAKA	100.78	4.51			
J & K	95.94	4.30			
NTPC STATIONS-NR	91.76	4.11			
WEST BENGAL	75.94	3.40			
UTTAR PRADESH	62.57	2.80			
ODISHA	58.41	2.62			
ANDHRA PRADESH	57.02	2.55			
BIHAR	54.77	2.45			
TAMIL NADU	54.65	2.45			
RAJASTHAN	49.72	2.23			
ASSAM	44.69	2.00			
MP	43.25	1.94			
MAHARASHTRA	38.91	1.74			
KERALA	38.55	1.73			
GUJARAT	37.93	1.70			
TELANGANA	37.85	1.70			
PUNJAB	34.31	1.54			
UTTARAKHAND	29.13	1.30			
AGEMPL BHUJ	28.00	1.25			
NEPAL(NVVN)	27.10	1.21			
HARYANA	26.23	1.17			
JHARKHAND	24.29	1.09			
NLC	21.76	0.97			
GIWEL_BHUJ	21.66	0.97			
SPRING_PUGALUR	20.18	0.90			
CGPL	19.11	0.86			
AMPS Hazira	18.33	0.82			
IGSTPS	17.06	0.76			
GRT_JPL	16.17	0.72			
GOA	16.16	0.72			
INOX_BHUJ	15.66	0.70			
SBESS	15.59	0.70			
PARAM_PVGD	15.58	0.70			
CHHATTISGARH	14.93	0.67			
OSTRO Hiriyur	14.75	0.66			
OSTRO	14.67	0.66			
FORTUM1_PVGD	14.40	0.65			
DVC	13.56	0.61			
KREDL_PVGD	13.07	0.59			
RENEW_BHUJ	12.81	0.57			
HIMACHAL PRADESH	12.53	0.56			
RENEW_BHACHAU	11.75	0.53			
ALFANAR_BHUJ	11.74	0.53			
SKRPL	11.11	0.50			
SHREE CEMENT	10.02	0.45			
NPGC	9.07	0.41			
NETCL VALLUR	8.57	0.38			
AVAADASN_SLR	8.02	0.36			
RAIL	7.94	0.36			
NHPC STATIONS	7.72	0.35			
ADANI_WIND	7.67	0.34			
NTPC STATIONS-NER	7.58	0.34			
MB POWER	7.28	0.33			
AVIKIRAN	7.24	0.32			
JINDAL STAGE-II	7.10	0.32			

NTPC_ANTP	7.03	0.31
AVADARJHN_SLR	6.82	0.31
TRIPURA	6.59	0.30
ARUNACHAL PRADESH	6.41	0.29
JHABUA POWER MP	6.29	0.28
SESPL	6.15	0.28
JINDAL POWER	5.98	0.27
ARS_PVGD	5.95	0.27
JITPL	5.94	0.27
TORRENT SOLARGEN	5.89	0.26
TEESTA STG3	5.88	0.26
BRBCL,NABINAGAR	5.80	0.26
APRAAVA	5.78	0.26
THERMAL POWERTECH	5.75	0.26
AZURE43_SLR	5.59	0.25
BANGLADESH	5.49	0.25
CHANDIGARH	5.40	0.24
NETRA WIND	5.34	0.24
DELHI	5.24	0.23
TEHRI	4.89	0.22
BALCO	4.80	0.22
SIMHAPURI	4.55	0.20
AZURE_PVGD	4.51	0.20
CLEAN_SLR	4.48	0.20
GIWEL_TCN	4.22	0.19
SPRNG_NPKUNTA	4.20	0.19
NTPL	4.19	0.19
DD&DNH	4.13	0.19
FRV_ANTP	4.12	0.18
SBG_NPK	3.92	0.18
ADY1_PVGD	3.88	0.17
RENEW_SR_SLR	3.63	0.16
ACBIL	3.62	0.16
ASEJTL_SLR	3.51	0.16
TATA_SLR	3.48	0.16
TATA_PVGD	3.48	0.16
EDEN_SLR	3.36	0.15
KAPP 3&4	3.32	0.15
RENEWJH_SLR	3.31	0.15
RENEWSW_SLR	3.31	0.15
MSEPL	3.25	0.15
MTPS II	3.21	0.14
AVAADA1_PVGD	3.08	0.14
TATA_GREEN	3.02	0.14
RKM POWER	3.00	0.13
RENEWSB	2.95	0.13
ARINSUM_RUMS	2.90	0.13
ORANGE_TCN	2.90	0.13
ABC_BHDL2	2.85	0.13
AYANA_RP1	2.84	0.13
MAHINDRA_RUMS THAR1 SLR	2.79 2.77	0.13
-		0.12
SIKKIM	2.75	0.12
NEP	2.74	0.12
ACME_RUMS	2.69 2.68	0.12 0.12
NEEPCO STATIONS RGPPL	2.68	0.12
AZURE_MAPLE_SLR KARCHAM WANGTOO	2.61 2.60	0.12 0.12
RAP B ARERJL_SLR	2.60 2.59	0.12 0.12
PONDICHERRY	2.59	0.12
RENEW_PVGD	2.57	0.12
	2.30	0.11

AYANA NPKUNTA	2.55	0.11
ACME HEERGARH	2.40	0.11
DHARIWAL POWER	2.37	0.11
RENEWURJA_SLR	2.37	0.11
CLEANSP_SLR	2.33	0.10
AZURE41_SLR	2.23	0.10
MRPL	2.22	0.10
POWERICA	2.22	0.10
ACME_SLR	2.22	0.10
MSUPL BHDL2	2.19	0.10
NAPP	2.19	0.10
SEMBCORP	2.14	0.09
	2.11	
DGEN MEGA POWER		0.09
FORTUM2_PVGD	2.07	0.09
RENEW_SLR_BKN	2.07	0.09
MANIPUR	2.06	0.09
BBMB	1.96	0.09
AZURE_ANTP	1.88	0.08
DB POWER	1.71	0.08
NSPCL	1.69	0.08
MEGHALAYA	1.65	0.07
GSECL P-II	1.60	0.07
COASTGEN	1.59	0.07
MAITHON POWER LTD	1.57	0.07
ADHUNIK POWER LTD	1.54	0.07
KSK MAHANADI	1.47	0.07
AZURE_SLR	1.43	0.06
TPSL	1.35	0.06
DCPP	1.33	0.06
DIKCHU HEP	1.35	0.06
Railways_ER ISTS	1.31	0.06
	1.29	
GMR KAMALANGA		0.06
RSTPS_FSPP	1.28 1.22	0.06
TATA_ANTP		0.05
FRV_NPK	1.16	0.05
SBG_PVGD	1.11	0.05
YARROW_PVGD	1.05	0.05
NJPC	0.99	0.04
JSW_RENEW_2	0.97	0.04
AKSP_ANTP	0.96	0.04
RPREL	0.95	0.04
AHSP_ANTP	0.95	0.04
ESPL_RADHANESDA	0.93	0.04
AVAADA2_PVGD	0.90	0.04
ESSAR POWER	0.88	0.04
AKS_PVGD	0.88	0.04
ABSP_ANTP	0.87	0.04
AZURE34_SLR	0.86	0.04
BETAM_TCN	0.80	0.04
ADANI GREEN	0.73	0.03
IL&FS	0.72	0.03
SRSSFPL	0.72	0.03
RAP C	0.60	0.03
JORETHANG	0.60	0.03
	0.54	0.03
KOTESHWAR		
LANKO_AMK	0.53	0.02
RENEW_SLR	0.52	0.02
RANGIT HEP	0.52	0.02
JAYPEE NIGRIE	0.48	0.02
MEENAKSHI	0.43	0.02
MYTRAH_TCN	0.42	0.02
TPREL RADHANESDA	0.42	0.02
TRN ENERGY	0.40	0.02

MIZORAM	0.39	0.02
RANGANADI HEP	0.39	0.02
GIPCL_RADHANESDA	0.37	0.02
CHUZACHEN HEP	0.35	0.02
LANKO KONDAPALLI	0.34	0.02
SORANG HEP	0.32	0.01
SASAN UMPP	0.31	0.01
NAGALAND	0.29	0.01
PARE HEP	0.28	0.01
SAINJ HEP	0.27	0.01
RONGNICHU HEP	0.26	0.01
SKS POWER	0.25	0.01
GSECL_Radhanesda	0.25	0.01
EMCO	0.25	0.01
LANCO BUDHIL	0.20	0.01
LOKTAK	0.19	0.01
SBSR_SLR	0.18	0.01
DOYANG HEP	0.16	0.01
SB6_POKARAN	0.13	0.01
NFF	0.12	0.01
RAMPUR HEP	0.10	0.00
TASHIDENG HEP	0.10	0.00
SINGOLI BHATWARI HEP	0.08	0.00
AD HYDRO	0.08	0.003
DAGACHU	0.07	0.003
VINDHYACHAL HVDC	0.04	0.002
HVDC PUS	0.04	0.002
SB_SLR	0.03	0.001
KSMPL_SLR	0.01	0.0003
ONGC PALATANA	0.01	0.0003
HVDC RAIGARH	0.002	0.0001
BHADRAVATHI HVDC	0.001	0.00005
HVDC ALPD	0.0004	0.00002
TOTAL	2232.62	100.00
Volume Imported by top 5 Regional Entities	535.48	23.98

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

OCTOBER 2023					
Sr.	Details of REC Transactions	Thro	Bilateral		
No		IEX	PXIL	HPX	through Traders
1	Volume of Buy Bid	676259	428075	-	-
2	Volume of Sell Bid	17722777	5948615	208811	-
3	Ratio of Buy Bid to Sell Bid Volume	0.04	0.07	-	-
4	Traded Volume (MWh)	217023	96796	-	14609
5	Weighted Average Price (₹/MWh)	419	446	-	523

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(a): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, OCTOBER 2023						
Sr. Neighbouring		Volume (MU)			Weighted Average Price (₹/kWh)	
No.	Country	Sale	Purchase	Net*	Sale	Purchase
1	Nepal	352.19	0.11	-352.08	6.44	1.85
2	Bhutan	25.85	0.00	-25.85	6.70	-
	Total	378.04	0.11	-377.94	-	-

Source: IEX

* Net indicates difference of volume purchased and sold by the respective neighbouring country Note: No Cross Border transactions were recorded in DAM at PXIL and HPX

Table-34(b): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH REALTIME MARKET AT IEX, OCTOBER 2023						
Sr. No.	Neighbouring Country		Volume (MU)		Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	9.66	0.00	-9.66	7.13	-
2	Bhutan	0.00	0.00	0.00	-	-
	Total	9.66	0.00	-9.66	-	-

Source: IEX

* Net indicates difference of volume purchased and sold by the respective neighbouring country Note: No Cross Border transactions were recorded in RTM at PXIL and HPX



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