Monthly Report on Short-term Transactions of Electricity in India

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Economics Division Central Electricity Regulatory Commission 36, Janpath, Chanderlok Building



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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
AZUDE DVCD
AZURE_PVGD
AZURE_SLR
AZURE34_SLR
AZURE43 SLR
BALCO
BARC
BASOCHHU HEP
BBMB
BETAM_TCN
BHADRAVATHI HVDC
BRBCL
CEA
CERC

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 Basochhu Hydropower Plant Bhutan 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

CGPL 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 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**

Coastal Gujarat Power Limited 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 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 NREL_DAYAPAR (W) **NSPCL** NTECLVallur NTPC_ANTP NTPC STATIONS NTPL **NVVN** OCF **ONGC** Platana OPGC ORANGE_TCN OSTRO OTC PARAM PVGD PARE HEP PX PXII. 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 NREL-Dayapar Wind 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 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 **RENEW ROSHNI** 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 Surya Roshni Private Limited Koppal PS 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 November 2023 is presented in the following sections.

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

2.1. During November 2023, total electricity generation, excluding generation from renewable and captive power plants in India, was 115019.46 MU (Table-1). Of the total electricity generation, 13.01% was transacted through short-term and DSM, comprising of 6.73% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)}, followed by 4.39% through bilateral¹ (through Traders and Term-Ahead contracts on power exchanges, and directly between distribution companies), and 1.89% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (14961.41 MU), 51.74% was transacted through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, followed by 33.75% through bilateral (27.62% through Traders and Term-Ahead contracts on

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, and 6.13% directly between distribution companies), and 14.51% through DSM (Table-1 & Figure-2). The daily volume of power exchange transactions is shown in Table-26. Figure-4 shows the daily volume trend for power exchange transactions and DSM volume.

2.3. Of the total volume of electricity transacted through power exchanges, 61.22% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 26.84% in RTM and 11.94% in Term Ahead Market (TAM) (including G-TAM & HP-TAM) (Figure-3).

2.4. The share of electricity traded by each trading licensee is given in Table-2 & Figure-5. 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 November 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 Manikaran Power Ltd., had a share of 80.11% 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 0.1700 for the month of November 2023, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX, PXIL and HPX was 5196.16 MU, 3.12 MU and 2.15 MU, respectively. The volume of total buy bids and sell bids was 7947.14 MU and 9552.31 MU, respectively in IEX, 28.35 MU and 64.62 MU, respectively in PXIL, while the same was 6.35 MU and 2.15 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 277.10 MU, while no volume was purchased, under

the Cross Border Trade of electricity through power exchange (Table-33(a)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.8. The volume of electricity transacted in the G-DAM of IEX was 180.27 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 1464.75 MU and 241.48 MU, respectively, in IEX. No bids were received in PXIL and HPX.

2.9. No volume was traded in the HP-DAM of IEX, PXIL or HPX. The volume of total buy bids and sell bids was 1.71 MU and 254.36 MU, respectively in IEX. No bids were received in PXIL and HPX.

2.10. The volume of electricity transacted in the RTM of IEX and HPX was 2359.07 MU and 0.10 MU, respectively. The volume of total buy bids and sell bids was 3557.28 MU and 5738.33 MU, respectively in IEX, while the same was 0.20 MU and 0.10 MU, respectively in HPX. No bids were received in PXIL. 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 10.53 MU, while no volume was purchased, under the Cross Border Trade of electricity through power exchange (Table-33(b)). No Cross Border transaction of electricity was undertaken through PXIL and HPX.

2.12. The volume of electricity transacted in the TAM of IEX, PXIL and HPX was 679.13 MU, 226.67 MU and 129.02 MU, respectively (Table-9, Table-10 & Table-11). The volume of electricity transacted in the Green Term Ahead Market (G-TAM) of IEX and HPX was 7.14 MU and 7.52 MU, respectively. No volume was traded in G-TAM of PXIL (Table-12, Table-13 & Table-14).

2.13. No volume was traded in the High Price Term Ahead Market (HP-TAM) of IEX, PXIL and HPX (Table-15, Table-16 & Table-17).

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

3.1. *Price of electricity transacted through Traders*: The minimum, maximum and weighted average sale prices for the electricity transacted through traders were ₹3.47/kWh, ₹8.43/kWh and ₹6.40/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 $\gtrless 6.46$ /kWh and $\gtrless 6.12$ /kWh, respectively. No electricity was transacted through traders during Peak periods (Table-4).

3.2. Price of electricity transacted through Power Exchanges: The minimum, maximum and weighted average prices for the electricity transacted in the DAM of IEX were ₹2.00/kWh, ₹10.00/kWh and ₹4.16/kWh, respectively. These prices in the DAM of PXIL were ₹1.00/kWh, ₹10.00/kWh and ₹9.36/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 ₹3.25/kWh, ₹10.00/kWh and ₹4.69/kWh, respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.70/kWh, ₹10.00/kWh and ₹3.93/kWh, respectively. The minimum, maximum and weighted average prices for the electricity transacted in the RTM of HPX were ₹10.00/kWh, ₹10.00/kWh and ₹10.00/kWh respectively (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹6.89/kWh, ₹8.58/kWh and ₹8.22/kWh, respectively (Table-9, Table-10 and Table-11). The weighted average price of electricity transacted in the G-TAM of IEX and HPX was ₹6.39/kWh and ₹5.36/kWh, respectively (Table-12, Table-13 and Table-14). No electricity was transacted in G-DAM of PXIL and HPX, in RTM of PXIL, in HP-DAM and HP-TAM of all power exchanges and in G-TAM of PXIL.

3.3. *DSM Charges:* The minimum, maximum and average charge under DSM was ₹2.00/kWh, ₹10.00/kWh and ₹4.36/kWh, respectively (Table-29).

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

4. Trading Margin

4.1. As per the CERC (Procedure, Terms and Conditions for grant of trading licence and other related matters) Regulations 2020, the trading licensees are allowed to charge a trading margin of not less than 0 paise/kWh and upto 7 paise/kWh. The weighted average trading

margin charged by the trading licensees for bilateral transactions during the month was ≥ 0.028 /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 36.85% of the volume, and these were Chhattisgarh, Uttar Pradesh, Adani Power Limited - Raipur TPP, DB Power and Odisha (Table-18). The top 5 regional entities/states purchased 67.52% of the volume, and these were Maharashtra, Gujarat, Telangana, Andhra Pradesh and Jammu & Kashmir (Table-19).

5.2. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 51.07% of the volume, and these were Adani Wind Energy, Adani Solar Energy Jodhpur Two Ltd., Ostro Energy Private Limited Hiriyur, Renew Surya Ravi Private Limited (Solar) and Singoli-Bhatwari Hydroelectric Project Uttarakhand (Table-20). The top 5 regional entities/states purchased 81.81% of the volume, and these were Arcelor Mittal Nippon Steel Hazira, Tamil Nadu, Bharat Aluminum Company Limited, Delhi and Rajasthan (Table-21).

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

5.4. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 47.79% of the volume, and these were Bihar, Rajasthan, Madhya Pradesh, Uttar Pradesh and NTPC Stations (Eastern Region) (Table-22). The top 5 regional entities/states purchased 59.41% of the volume, and these were Telangana, Maharashtra, Andhra Pradesh, Jammu & Kashmir and Kerala (Table-23).

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

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.

5.6. Of the total under-drawal/ over-injection volume under DSM in November 2023, the top 5 regional entities/states accounted for 28.96% of the volume, and these were NTPC Stations (Eastern Region), Rajasthan, Madhya Pradesh, NTPC Stations (Southern Region) and Gujarat (Table-30). The top 5 regional entities/states under DSM accounted for 23.23% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Eastern Region), NTPC Stations (Northern Region), West Bengal, NTPC Stations (Western Region) and NTPC Stations (Southern Region) (Table-31).

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

6.1. Power exchanges use a price discovery mechanism in which the aggregate demand and supply are matched to arrive at an unconstrained market price and volume. This process assumes that there is no congestion in the inter-State transmission system between different regions. However, in reality, the system operator (NLDC), in coordination with RLDCs, limits the flow (due to congestion) in the inter-State transmission system. In such a situation, power exchanges adopt a mechanism called "Market Splitting"⁴.

6.2. The volume of electricity that could not be cleared due to congestion & other reasons and could not be transacted through power exchanges is the difference between unconstrained cleared volume and actual cleared volume. Congestion was not experienced during the month of November 2023 (Table-25).

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

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

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

remotely located in the form of RECs. The REC mechanism is a market-based instrument to promote renewable sources of energy and the development of the electricity market.

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

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

7.4. The details of REC transactions for the month of November 2023 are shown in Table-32. The market clearing volume of RECs transacted on IEX, PXIL and HPX was 754970, 594426 and 205, respectively. The weighted average market clearing price of these RECs was ₹375/MWh in IEX, ₹375/MWh in PXIL and₹450/MWh in HPX.

7.5. The gap between the volume of buy and sell bids of RECs placed through power exchanges shows the variation in demand for the RECs. The ratio of buy bids to sell bids was 0.07, 0.11 and 0.09 in IEX, PXIL and HPX, respectively.

7.6. The volume of RECs transacted through Trading Licensees in November 2023 was 465342. The weighted average trade price for the RECs transacted through traders was ₹360/MWh.

8. Inferences:

- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 13.01%.
- b) Of the total short-term transactions and DSM volume (14961.41 MU), 51.74% was transacted through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, followed by 33.75% through bilateral (27.62% through Traders and Term-Ahead

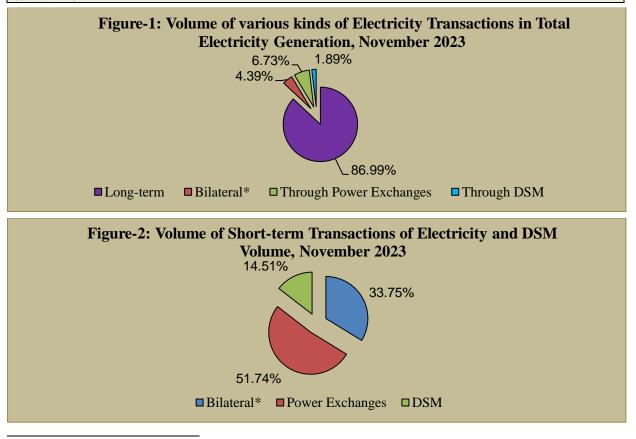
contracts on power exchanges, and 6.13% directly between distribution companies), and 14.51% through DSM.

- c) Of the total volume of electricity transacted through power exchanges, 61.22% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 26.84% in RTM and 11.94% in Term Ahead Market (TAM) (including G-TAM & HP-TAM).
- d) The top 5 trading licensees had a share of 80.11% 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 0.1700, indicating moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹6.40/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX, PXIL and HPX was ₹4.16/kWh, ₹9.36/kWh and ₹10.00/kWh. The weighted average price of electricity transacted in G-DAM of IEX was ₹4.69/kWh, while no electricity was transacted in G-DAM of PXIL and HPX. No volume was traded in HP-DAM. The weighted average price of electricity transacted in RTM of IEX and HPX was ₹3.93/kWh and ₹10.00/kWh respectively, while no electricity was transacted in RTM of PXIL.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹6.89/kWh, ₹8.58/kWh and ₹8.22/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX and HPX was ₹6.39/kWh and ₹5.36/kWh, respectively, while no electricity was transacted in G-TAM of PXIL. No volume was traded in HP-TAM in any of the power exchanges.
- i) The average charge under DSM was 4.36/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.028/kWh.
- k) The top 5 electricity selling regional entities/states of power exchange transactions were Bihar, Chhattisgarh, Rajasthan, Adani Power Limited - Raipur TPP and DB Power. The

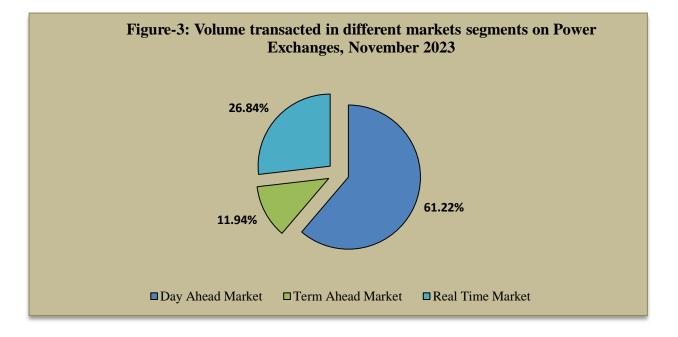
top 5 electricity purchasing regional entities/states of power exchange transactions were Maharashtra, Telangana, Andhra Pradesh, Gujarat and Jammu & Kashmir.

- The top 5 under-drawing/ over-injecting regional entities/states under DSM were NTPC Stations (Eastern Region), Rajasthan, Madhya Pradesh, NTPC Stations (Southern Region) and Gujarat. The top 5 over-drawing/ under-injecting regional entities/states under DSM were NTPC Stations (Eastern Region), NTPC Stations (Northern Region), West Bengal, NTPC Stations (Western Region) and NTPC Stations (Southern Region).
- m) During the month of November 2023, no congestion was experienced in power exchange transactions.
- n) The market clearing volume of RECs transacted on IEX, PXIL and HPX was 754970, 594426 and 205, respectively. The weighted average market clearing price of these RECs was ₹375/MWh in IEX, ₹375/MWh in PXIL and₹450/MWh in HPX. The volume of RECs transacted through Trading Licensees in November 2023 was 465342. The weighted average trade price for the RECs transacted through traders was ₹360/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), NOVEMBER 2023				
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
А	Short-term transactions			
1	Bilateral [*]	5049.66	33.75	4.39
	(i) Through Traders and PXs	4132.89	27.62	3.59
	(ii) Direct	916.77	6.13	0.80
2	Through Power Exchanges	7740.86	51.74	6.73
	(i) IEX			
	(a) DAM	5196.16	34.73	4.52
	(b) RTM	2359.07	15.77	2.05
	(c) GDAM	180.27	1.20	0.16
	(d) HP-DAM	0.00	0.00	0.00
	(ii) PXIL			
	(a) DAM	3.12	0.02	0.00
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	2.15	0.01	0.002
	(b) RTM	0.10	0.001	0.0001
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
В	Through DSM	2170.89	14.51	1.89
Total Short-term transactions and DSM14961.4113.01				
Total Generation 115019.46 -				
Source: NLDC				



^{*} 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.



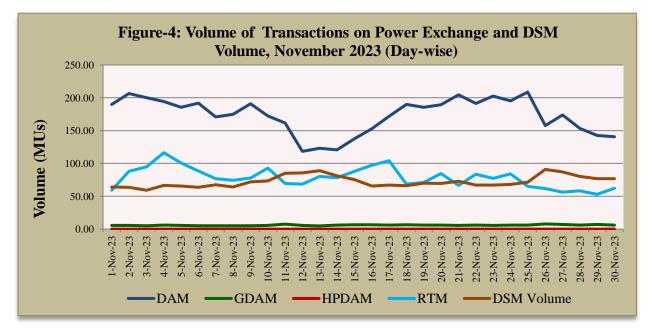


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, NOVEMBER 2023				
Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees		
1	PTC India Ltd.	29.63		
2	NTPC Vidyut Vyapar Nigam Ltd.	20.96		
3	Adani Enterprises Ltd.	10.88		
4 Tata Power Trading Company (P) Ltd.		10.55		
5	Manikaran Power Ltd.	8.10		
6	Arunachal Pradesh Power Corporation (P) Ltd	7.74		
7	GMR Energy Trading Ltd.	4.53		
8	Gita Power & Infrastructure Private Limited	1.85		
9	JSW Power Trading Company Ltd	1.13		
10	Instinct Infra & Power Ltd.	1.11		
11	RPG Power Trading Company Ltd.	0.92		
12	Kreate Energy (I) Pvt. Ltd.	0.58		
13	NLC India Ltd.	0.32		
14	Statkraft Markets Pvt. Ltd.	0.28		
15	Saranyu Power Trading Private Limited	0.24		
16 Kundan International Pvt. Ltd.		0.19		
17 Greenko Energies Pvt Ltd		0.17		
18 Ideal Energy Solution Pvt. Ltd.		0.15		
19	Abja Power Private Limited	0.11		
20	Instant Venture Pvt. Ltd.	0.11		
21	Adarsh Stainless Pvt. Ltd.	0.07		
22	Powerfull Energy Trading Pvt. Ltd.	0.07		
23	Energyedge Power Trading Pvt. Ltd.	0.07		
24	Refex Industries Ltd.	0.06		
25	SJVN Ltd.	0.05		
26	Customized Energy Solutions India (P) Ltd.	0.04		
27	Shubheksha Advisors Pvt. Ltd.	0.03		
28	Shree Cement Ltd.	0.03		
29	Phillip Commodities India (P) Ltd.	0.02		
30	Shell Energy Marketing and Trading India Pvt. Ltd.	0.01		
31	Saini Power Transactor	0.001		
	TOTAL	100.00%		
	Top 5 trading licensees	80.11%		
Herfindahl-Hirschman Index 0.1700				
transa	: Volume of electricity transacted by the trading licensees includes bi ctions undertaken through power exchanges.			

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

Figure 5: Percentage Share of Electricity Transacted by Trading Licensees, November 2023

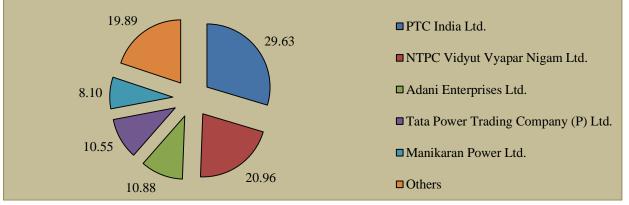


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, NOVEMBER 2023				
Sr.NoItemSale Price of Traders (₹/kWh)				
1	Minimum	3.47		
2	Maximum	8.43		
3	Weighted Average	6.40		
Source: Information submitted by trading licensees				

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), NOVEMBER 2023				
Sr.NoPeriod of TradeSale Price of Traders (₹/kWh)				
1	RTC	6.46		
2	PEAK	-		
3	OFF PEAK	6.12		

Source: Information submitted by trading licensees

Sr.NoACPPrice in IEX (₹/kWh)Price in PXIL (₹/kWh)Price in HPX (₹1Minimum2.001.0010.00	
1 Minimum 2.00 1.00 10.00	/kWh)
2 Maximum 10.00 10.00 10.00	
3 Weighted Average 4.16 9.36 10.00	

Source: IEX, PXIL and HPX

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

Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	3.25	-	-
2	Maximum	10.00	-	-
3	Weighted Average	4.69	-	-

Source: IEX, PXIL and HPX

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

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

Source: IEX, PXIL and HPX

Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER **EXCHANGES, NOVEMBER 2023** Price in HPX (₹/kWh) Sr.No ACP Price in IEX (₹/kWh) Price in PXIL (₹/kWh) Minimum 0.70 10.00 1 2 10.00 10.00 Maximum -3 Weighted Average 3.93 -10.00

Source: IEX, PXIL and HPX

Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, NOVEMBER 2023					
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)		
1	Intra-Day Contracts	0.10	10.00		
2	Day Ahead Contingency Contracts	36.07	5.25		
3	Daily Contracts	290.58	5.98		
4	Weekly Contracts	45.86	5.75		
5	Any Day Single Sided Contracts	306.52	8.12		
	Total	679.13	6.89		

Source: IEX

Table-10	Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, NOVEMBER 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	0.70	10.00	
2	Day Ahead Contingency Contracts	72.98	8.28	
3	Daily Contracts	75.97	8.22	
4	Monthly Contracts	60.08	9.43	
5	Any Day Single Sided Contracts	16.95	8.40	
	Total	226.67	8.58	
Courses DVII				

Source:	PXIL

Table-11	Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, NOVEMBER 2023			
Sr.No Term ahead contracts		Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	1.53	10.00	
2	Day Ahead Contingency Contracts	8.07	9.34	
3	Daily Contracts	42.11	5.63	
4	Any Day Single Sided Contracts	77.31	9.49	
Total 129.02 8.22				
Source: HPX				

Ta	Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, NOVEMBER 2023				
Sr. No	Sr. No Green Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWl				
1	Day Ahead Contingency Contracts	0.37	6.27		
2	Daily Contracts	6.77	6.40		
	Total	7.14	6.39		

Source: IEX

Tat	Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL,					
	NOVEMBER 2023					
Sr. No	Green Term ahead contracts	Weighted Average Price (₹/kWh)				
1	No Trade	0.00	-			
	Total 0.00 -					
<i>a</i> b						

Source: PXIL

Tal	Table-14: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, NOVEMBER 2023				
Sr. No					
1	Day Ahead Contingency Contracts	7.52	5.36		
	Total 7.52 5.36				
Source: HPX					

Source: HPX

Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF IEX, NOVEMBER 2023			
Sr. No High Price Term ahead contracts		Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	No Trade	0.00	-
	Total	0.00	-

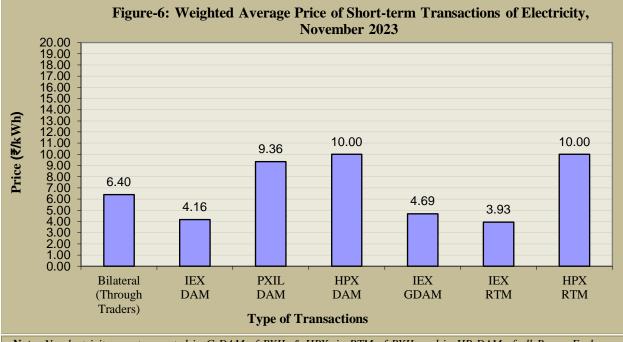
Source: IEX

Tab	Table-16: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF PXIL, NOVEMBER 2023						
Sr. No	Sr. No High Price Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWh)						
1	No Trade	0.00	-				
	Total 0.00 -						
C DV							

Source: PXIL

Tab	Table-17: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TERM AHEAD MARKET OF HPX, NOVEMBER 2023					
Sr. No	Sr. No High Price Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kW					
1	No Trade	0.00	-			
	Total 0.00 -					
Source: HI	Source: HDV					

Source: HPX



Note: No electricity was transacted in G-DAM of PXIL & HPX, in RTM of PXIL and in HP-DAM of all Power Exchanges during November 2023

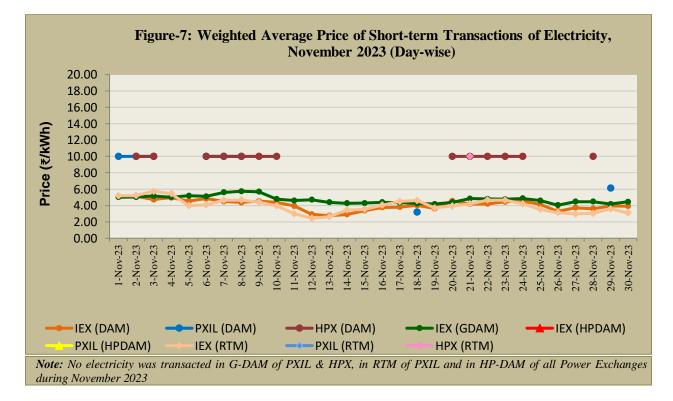


Table-18: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
CHHATTISGARH	543.89	10.46
UTTAR PRADESH	523.43	10.06
ARTPP	299.64	5.76
DB POWER	290.98	5.59
ODISHA	258.83	4.98
BIHAR	255.25	4.91
WEST BENGAL	253.93	4.88
JINDAL STAGE-II	250.79	4.82
JINDAL POWER	226.49	4.35
NEPAL(NVVN)	218.36	4.20
ESSAR POWER	179.54	3.45
JITPL	158.50	3.05
RAJASTHAN	143.02	2.75
RAIGARH ADANI	134.11	2.58
JAYPEE NIGRIE	108.29	2.08
NTPC STATIONS-ER	108.29	1.95
SKS POWER	101.52	1.95
HIMACHAL PRADESH	91.40	1.92
SEMBCORP		
	86.67	1.67
GUJARAT	84.44	1.62
DCPP	74.11	1.42
HARYANA	73.53	1.41
ACBIL	63.19	1.21
MAHARASHTRA	58.48	1.12
MP	49.47	0.95
NEP	44.31	0.85
DELHI	41.26	0.79
PONDICHERRY	40.12	0.77
ADHUNIK POWER LTD	35.05	0.67
PUNJAB	28.39	0.55
COASTGEN	28.24	0.54
KARCHAM WANGTOO	25.81	0.50
TAMIL NADU	24.14	0.46
CHANDIGARH	22.42	0.43
NTPC STATIONS-NR	21.59	0.42
RENEW_SR_SLR	21.38	0.41
SHREE CEMENT	21.01	0.40
MB POWER	18.82	0.36
ONGC PALATANA	17.98	0.35
AD HYDRO	16.60	0.32
ANDHRA PRADESH	15.77	0.30
TELANGANA	11.51	0.22
MARUTI COAL	11.02	0.21
DVC	9.42	0.18
JHABUA POWER_MP	9.03	0.17
SAINJ HEP	8.61	0.17
DGPCL Bhutan	8.43	0.16
MEGHALAYA	8.18	0.16
ADANI WIND	6.33	0.12
NAGALAND	6.08	0.12
BASOCHHU HEP	5.99	0.12
SORANG HEP	5.92	0.12
RKM POWER	5.90	0.11
SIKKIM	5.47	0.11
SHARINI	5.47	0.11

UTTARAKHAND	4.98	0.10
MIZORAM	4.62	0.09
IL&FS	3.62	0.07
NHPC STATIONS	3.50	0.07
KERALA	3.27	0.06
DHARIWAL POWER	3.23	0.06
EMCO	3.17	0.06
SINGOLI BHATWARI HEP	2.53	0.05
GOA	2.24	0.04
NTPC STATIONS-NER	2.24	0.04
MANIPUR	2.13	0.04
ASEJTL_SLR	1.89	0.04
NPGC	1.86	0.04
OSTRO Hiriyur	1.43	0.03
J & K	1.16	0.02
BALCO	1.12	0.02
SIMHAPURI	0.93	0.02
NTPC STATIONS-SR	0.84	0.02
LANCO BUDHIL	0.83	0.02
NTPC STATIONS-WR	0.58	0.01
KBUNL	0.58	0.01
ARUNACHAL PRADESH	0.55	0.01
NEEPCO STATIONS	0.47	0.01
GMR KAMALANGA	0.42	0.01
RENEW_ROSHNI	0.26	0.005
TASHIDENG HEP	0.13	0.003
CHUZACHEN HEP	0.09	0.002
JORETHANG	0.05	0.001
Total	5201.42	100.00
Volume sold by top 5 Regional Entities	1916.77	36.85

Table-19: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, NOVEMBER 2023		
THROUGH POWER F Name of the Entity	Volume of Purchase (MUs)	% of Volume
MAHARASHTRA	1085.36	20.87
GUJARAT	807.78	15.53
TELANGANA	673.54	12.95
ANDHRA PRADESH	575.08	11.06
J & K	370.32	7.12
UTTAR PRADESH	338.00	6.50
UTTARAKHAND	222.22	4.27
TAMIL NADU	220.26	4.23
MP	206.54	3.97
WEST BENGAL	111.71	2.15
PUNJAB	87.64	1.68
AMPS Hazira	78.67	1.51
KERALA	58.97	1.13
DELHI	51.53	0.99
RAJASTHAN	47.66	0.92
DD&DNH	42.11	0.81
KARNATAKA	35.82	0.69
NCR ALLAHABAD	31.16	0.60
MB POWER	27.12	0.52
HARYANA	26.99	0.52
ODISHA	21.51	0.41
MEGHALAYA	17.97	0.35
GOA	15.10	0.29
DVC	13.48	0.26
JHABUA POWER_MP	11.36	0.22
JHARKHAND	6.85	0.13
SIKKIM	6.69	0.13
ASSAM	5.50	0.11
BALCO	2.94	0.06
BIHAR	0.66	0.01
CHHATTISGARH	0.37	0.01
CHANDIGARH	0.22	0.004
HIMACHAL PRADESH	0.17	0.003
TRIPURA	0.10	0.002
TOTAL	5201.42	100.00
Volume purchased by top 5 Regional Entities	3512.09	67.52

Table-20: VOLUME OF ELECTRICITY SO POWER EXCHAN	LD IN GREEN DAY AHEAD I NGES, NOVEMBER 2023	MARKET THROUGH
Name of the Entity	Volume of Sale (MUs)	% of Volume
ADANI_WIND	29.47	16.35
ASEJTL_SLR	20.68	11.47
OSTRO Hiriyur	15.21	8.44
RENEW_SR_SLR	14.62	8.11
SINGOLI BHATWARI HEP	12.10	6.71
NTPC STATIONS-SR	10.64	5.90
CONTINNUM PT	9.15	5.07
TELANGANA	9.03	5.01
SIKKIM	8.73	4.84
J & K	6.93	3.84
RENEW_ROSHNI	6.30	3.49
ANDHRA PRADESH	6.28	3.49
HIMACHAL PRADESH	6.16	3.41
UTTAR PRADESH	5.32	2.95
RENERGY5_WIND	5.16	2.86
SORANG HEP	5.01	2.78
MP	4.04	2.24
RAJASTHAN	2.64	1.47
MAHARASHTRA	1.39	0.77
INOX_BHUJ	0.92	0.51
DELHI	0.38	0.21
HARYANA	0.07	0.04
MEGHALAYA	0.05	0.03
Total	180.27	100.00
Volume sold by top 5 Regional Entities	92.07	51.07

Table-21: VOLUME OF ELECTRICITY P THROUGH POWER EX	URCHASED IN GREEN DAY KCHANGES, NOVEMBER 202	
Name of the Entity	Volume of Purchase (MUs)	% of Volume
AMPS Hazira	78.35	43.46
TAMIL NADU	25.61	14.20
BALCO	24.41	13.54
DELHI	11.74	6.51
RAJASTHAN	7.37	4.09
DVC	7.05	3.91
MAHARASHTRA	5.17	2.87
KERALA	5.12	2.84
GOA	3.80	2.11
UTTAR PRADESH	2.85	1.58
PUNJAB	1.83	1.02
KARNATAKA	1.66	0.92
ANDHRA PRADESH	1.54	0.86
MP	1.38	0.76
NCR ALLAHABAD	0.98	0.54
GUJARAT	0.83	0.46
JHARKHAND	0.30	0.17
HARYANA	0.20	0.11
TELANGANA	0.08	0.04
ODISHA	0.01	0.01
TOTAL	180.27	100.00
Volume purchased by top 5 Regional Entities	147.48	81.81

	Table-22: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWEI EXCHANGES, NOVEMBER 2023								
Name of the Entity	Volume of Sale (MUs)	% of Volume							
BIHAR	382.13	16.20							
RAJASTHAN	252.47	10.70							
MP	206.02	8.73							
UTTAR PRADESH	151.73	6.43							
NTPC STATIONS-ER	135.21	5.73							
CHHATTISGARH	100.81	4.27							
WEST BENGAL	95.36	4.04							
ODISHA	93.28	3.95							
NTPC STATIONS-NR	84.12	3.57							
JHARKHAND	80.92	3.43							
ASSAM	80.73	3.42							
NTPC STATIONS-WR	56.59	2.40							
NLC	47.09	2.00							
TAMIL NADU	46.70	1.98							
DELHI	36.37	1.54							
MAHARASHTRA	36.01	1.53							
TRIPURA	31.61	1.34							
SEMBCORP	28.39	1.34							
SKS POWER	26.46	1.12							
NPGC	20.40	0.97							
	21.85								
KARNATAKA		0.93							
HIMACHAL PRADESH	20.19	0.86							
PUNJAB	17.71	0.75							
NTPC STATIONS-SR	17.63	0.75							
NEEPCO STATIONS	17.41	0.74							
SIKKIM	15.46	0.66							
HARYANA	15.23	0.65							
GUJARAT	13.66	0.58							
PONDICHERRY	13.39	0.57							
DVC	13.06	0.55							
ESSAR POWER	11.72	0.50							
SASAN UMPP	11.37	0.48							
ARTPP	11.22	0.48							
NEPAL(NVVN)	10.53	0.45							
UTTARAKHAND	10.03	0.43							
MB POWER	9.93	0.42							
TRN ENERGY	9.75	0.41							
RAIGARH_ADANI	9.21	0.39							
J & K	7.77	0.33							
ADHUNIK POWER LTD	7.62	0.32							
NETCL VALLUR	7.52	0.32							
IGSTPS	6.78	0.29							
JITPL	6.54	0.28							
TELANGANA	6.16	0.26							
ACBIL	5.92	0.25							
JHABUA POWER_MP	5.48	0.23							
NTPC STATIONS-NER	5.21	0.23							
NREL_DAYAPAR (W)	4.69	0.20							
ANDHRA PRADESH	4.64	0.20							
KERALA	4.04	0.18							
SIMHAPURI	3.91	0.18							
MARUTI COAL	3.84	0.16							
RKM POWER	3.80	0.16							
ONGC PALATANA	3.76	0.16							

JINDAL STAGE-II	3.38	0.14
JINDAL POWER	2.08	0.09
DCPP	1.94	0.08
ARUNACHAL PRADESH	1.81	0.08
IL&FS	1.68	0.07
MTPS	1.66	0.07
DB POWER	1.63	0.07
MANIPUR	1.09	0.05
JORETHANG	0.98	0.04
EMCO	0.98	0.04
BALCO	0.96	0.04
RGPPL_IR	0.84	0.04
RENEW_ROSHNI	0.82	0.03
SINGOLI BHATWARI HEP	0.78	0.03
GOA	0.75	0.03
AD HYDRO	0.74	0.03
OSTRO Hiriyur	0.70	0.03
NAGALAND	0.63	0.03
DD&DNH	0.61	0.03
RENEW_SR_SLR	0.53	0.02
JAYPEE NIGRIE	0.50	0.02
TASHIDENG HEP	0.49	0.02
COASTGEN	0.46	0.02
DOYANG HEP	0.22	0.01
SHREE CEMENT	0.19	0.01
KARCHAM WANGTOO	0.16	0.01
ADANI_WIND	0.16	0.01
MEGHALAYA	0.15	0.01
SORANG HEP	0.09	0.004
PARE HEP	0.08	0.004
SAINJ HEP	0.04	0.002
GMR KAMALANGA	0.03	0.001
LANCO BUDHIL	0.02	0.001
CHUZACHEN HEP	0.01	0.001
RANGANADI HEP	0.01	0.001
Total	2359.17	100.00
Volume sold by top 5 Regional Entities	1127.56	47.79

	Table-23: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, NOVEMBER 2023									
Name of the Entity	Volume of Purchase (MUs)	% of Volume								
TELANGANA	572.15	24.25								
MAHARASHTRA	261.68	11.09								
ANDHRA PRADESH	229.46	9.73								
J & K	175.55	7.44								
KERALA	162.84	6.90								
MP	123.75	5.25								
UTTAR PRADESH	122.02	5.17								
KARNATAKA	74.92	3.18								
DVC	74.68	3.17								
PUNJAB	73.48	3.11								
GUJARAT	64.44	2.73								
TAMIL NADU	57.58	2.44								
WEST BENGAL	53.44	2.27								
ODISHA	44.46	1.88								
DELHI	39.95	1.69								
UTTARAKHAND	39.95	1.69								
RAJASTHAN	32.06	1.36								
AMPS Hazira	19.83	0.84								
MB POWER	16.94	0.72								
HARYANA	16.30	0.69								
DD&DNH	13.02	0.55								
CHHATTISGARH	10.60	0.45								
JINDAL STAGE-II	10.14	0.43								
MEGHALAYA	9.88	0.42								
ESSAR POWER	8.63	0.37								
JHABUA POWER_MP	8.07	0.34								
SIMHAPURI	7.94	0.34								
BALCO	6.17	0.26								
JINDAL POWER	5.94	0.25								
MANIPUR	2.71	0.11								
HIMACHAL PRADESH	2.58	0.11								
ASSAM	2.32	0.10								
NCR ALLAHABAD	2.24	0.09								
ARTPP	2.03	0.09								
RGPPL_IR	1.94	0.08								
GOA	1.92	0.08								
JHARKHAND	1.78	0.08								
NTPC STATIONS-WR	1.66	0.07								
BIHAR	1.49	0.06								
DCPP	1.32	0.06								
TRIPURA	0.49	0.02								
MARUTI COAL	0.46	0.02								
ARUNACHAL PRADESH	0.43	0.02								
SIKKIM	0.09	0.004								
NLC	0.03	0.001								
ACBIL	0.02	0.001								
TOTAL	2359.17	100.00								
Volume purchased by top 5 Regional Entities	1401.68	59.41								
volume purchased by top 5 Kegional Entitles	1401.00	37.41								

Table	2-24: TOTAL VOLUME OF NET TRANSACTIO ENTITY-WISE), N	
S. No.	Name of the Entity	Total volume of net transactions through Power Exchanges*
1	MAHARASHTRA	1256.33
2	TELANGANA	1219.06
3	ANDHRA PRADESH	779.40
4	GUJARAT	774.96
5	J & K	530.02
6	UTTARAKHAND	246.98
7	TAMIL NADU	232.60
8	KERALA	219.45
9	AMPS Hazira	176.85
10	PUNJAB	116.84
11	KARNATAKA	90.55
12	DVC	72.72
13	MP	72.13
14	DD&DNH	54.53
15	NCR ALLAHABAD	34.38
16	BALCO	31.44
17	DELHI	25.21
18	MEGHALAYA	19.47
19	GOA	17.82
20 21	MB POWER JHABUA POWER_MP	<u> </u>
21	SIMHAPURI	3.10
22	RGPPL IR	5.10
23	RANGANADI HEP	-0.01
24	PARE HEP	-0.01
25	CHUZACHEN HEP	-0.10
20	DOYANG HEP	-0.22
28	GMR KAMALANGA	-0.44
29	MANIPUR	-0.51
30	KBUNL	-0.58
31	TASHIDENG HEP	-0.63
32	LANCO BUDHIL	-0.85
33	INOX_BHUJ	-0.92
34	JORETHANG	-1.03
35	MTPS	-1.66
36	ARUNACHAL PRADESH	-1.93
37	DHARIWAL POWER	-3.23
38	NHPC STATIONS	-3.50
39	EMCO	-4.15
40	MIZORAM	-4.62
41	NREL_DAYAPAR (W)	-4.69
42	RENERGY5_WIND	-5.16
43 44	IL&FS BASOCHHU HEP	-5.30 -5.99
44 45	NAGALAND	-5.99 -6.71
45 46	IGSTPS	-6.78
40	RENEW_ROSHNI	-0.78
47	NTPC STATIONS-NER	-7.45
49	NETCL VALLUR	-7.52
50	DGPCL Bhutan	-8.43
51	SAINJ HEP	-8.65
52	CONTINNUM PT	-9.15
53	RKM POWER	-9.69
54	TRN ENERGY	-9.75
55	SORANG HEP	-11.02
56	SASAN UMPP	-11.37
57	MARUTI COAL	-14.40
58	SINGOLI BHATWARI HEP	-15.41
59	OSTRO Hiriyur	-17.33
60	AD HYDRO	-17.34
61	NEEPCO STATIONS	-17.89
62	SHREE CEMENT	-21.20

64 CHA 65 ASI 66 SIK 67 NPC	GC PALATANA ANDIGARH EJTL_SLR KIM GC	-21.74 -22.20 -22.57 -22.89
65 ASE 66 SIK 67 NPC	EJTL_SLR KIM	-22.57
66 SIK 67 NPC	KIM	
67 NPC		
		-24.63
68 KAI	RCHAM WANGTOO	-25.97
	ASTGEN	-28.70
	PC STATIONS-SR	-29.11
	PURA	-31.02
-	ANI_WIND	-35.96
	NEW_SR_SLR	-36.53
	HUNIK POWER LTD	-42.66
74 AD		-44.31
	RYANA	-45.34
70 III.		-47.07
	NDICHERRY	-53.50
	PC STATIONS-WR	-55.51
80 ACI		-69.09
	ARKHAND	-71.99
	SAM	-72.90
83 DCI		-74.73
	PC STATIONS-NR	-105.71
	/PEE NIGRIE	-108.78
	ACHAL PRADESH	-115.01
	MBCORP	-115.06
	S POWER	-126.52
	IGARH_ADANI	-143.32
90 JITH		-165.04
91 ESS	SAR POWER	-182.63
	ST BENGAL	-184.14
	TAR PRADESH	-217.61
94 JIN	DAL POWER	-222.63
95 NEI	PAL(NVVN)	-228.89
	PC STATIONS-ER	-236.73
	DAL STAGE-II	-244.03
	ISHA	-286.13
	POWER	-292.61
100 AR		-308.83
101 RAJ	JASTHAN	-311.06
	HATTISGARH	-633.73
103 BIH		-635.23
* Total net inclu	des net of transactions of electricity through various segments on power exch	langes
	and (+) indicates purchase	

	Table-25: DI	ETAILS	OF CON	GESTI	ON IN P	OWER	EXCHA	NGES, NO	OVEMB	ER 2023		
	Details of Congestion	Day Ahead Market			Gree	en Day A Market		High Pri Ahead N		Real	Time M	arket
		IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	IEX	PXIL	HPX
1	Unconstrained Cleared Volume (MUs)	5196.16	3.12	2.15	180.27	0.00	0.00	0.000	0.00	2359.07	0.00	0.10
2	Actual Cleared Volume and hence scheduled (MUs)	5196.16	3.12	2.15	180.27	0.00	0.00	0.000	0.00	2359.07	0.00	0.10
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.000%	0.00%	0.00%	0.00%	0.00%
6	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/ Total number of hours in the month)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
7		Conge	estion occ	urrence (%) time b	lock wise	e			•		
	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	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	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 sc	heduled ha	nd there b	een no cor	ngestion							

Source: IEX, PXIL, HPX & NLDC

Ta	ble-26: VC	OLUME (OF TRA	NSACTI			POWER BER 202		ANGES	IN INDI	A (DAY-V	VISE) (MU	Js),
Date	Day Al	iead Mar	·ket [#]		Green Day Ahead Market [#]			High Price DAM [#]			Real Time Market [#]		
	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	НРХ	Generation (MU) *
1-Nov-23	189.36	0.60	0.00	5.72	0.00	0.00	0.00	0.00	0.00	59.45	0.00	0.00	4273.35
2-Nov-23	205.73	0.60	0.26	5.55	0.00	0.00	0.00	0.00	0.00	63.99	0.00	0.00	4282.41
3-Nov-23	199.32	0.80	0.28	5.03	0.00	0.00	0.00	0.00	0.00	67.91	0.00	0.00	4278.13
4-Nov-23	194.53	0.00	0.00	6.09	0.00	0.00	0.00	0.00	0.00	80.59	0.00	0.00	4222.09
5-Nov-23	185.76	0.00	0.00	5.66	0.00	0.00	0.00	0.00	0.00	58.18	0.00	0.00	4003.13
6-Nov-23	191.49	0.40	0.09	5.32	0.00	0.00	0.00	0.00	0.00	60.71	0.00	0.00	4092.11
7-Nov-23	170.84	0.20	0.10	5.32	0.00	0.00	0.00	0.00	0.00	60.95	0.00	0.00	4123.36
8-Nov-23	174.65	0.19	0.16	5.13	0.00	0.00	0.00	0.00	0.00	72.25	0.00	0.00	4143.59
9-Nov-23	190.59	0.00	0.14	5.33	0.00	0.00	0.00	0.00	0.00	60.03	0.00	0.00	4121.38
10-Nov-23	172.27	0.00	0.14	5.78	0.00	0.00	0.00	0.00	0.00	57.68	0.00	0.00	3964.72
11-Nov-23	161.71	0.00	0.00	7.47	0.00	0.00	0.00	0.00	0.00	71.04	0.00	0.00	3675.12
12-Nov-23	118.45	0.00	0.00	5.68	0.00	0.00	0.00	0.00	0.00	93.33	0.00	0.00	3317.08
13-Nov-23	123.04	0.00	0.00	4.86	0.00	0.00	0.00	0.00	0.00	89.01	0.00	0.00	3232.43
14-Nov-23	120.50	0.00	0.00	5.99	0.00	0.00	0.00	0.00	0.00	81.28	0.00	0.00	3434.31
15-Nov-23	138.03	0.00	0.00	6.50	0.00	0.00	0.00	0.00	0.00	82.85	0.00	0.00	3543.46
16-Nov-23	152.92	0.00	0.00	6.54	0.00	0.00	0.00	0.00	0.00	89.25	0.00	0.00	3673.17
17-Nov-23	172.15	0.00	0.00	5.89	0.00	0.00	0.00	0.00	0.00	95.54	0.00	0.00	3768.98
18-Nov-23	189.60	0.24	0.00	6.45	0.00	0.00	0.00	0.00	0.00	78.17	0.00	0.00	3879.63
19-Nov-23	185.65	0.00	0.00	6.09	0.00	0.00	0.00	0.00	0.00	70.32	0.00	0.00	3747.21
20-Nov-23	189.49	0.00	0.09	6.15	0.00	0.00	0.00	0.00	0.00	79.97	0.00	0.00	3842.24
21-Nov-23	204.38	0.00	0.18	5.60	0.00	0.00	0.00	0.00	0.00	77.91	0.00	0.10	3939.94
22-Nov-23	191.22	0.00	0.21	6.10	0.00	0.00	0.00	0.00	0.00	92.25	0.00	0.00	4000.14
23-Nov-23	202.72	0.00	0.14	5.73	0.00	0.00	0.00	0.00	0.00	77.99	0.00	0.00	3983.52
24-Nov-23	195.34	0.00	0.16	5.87	0.00	0.00	0.00	0.00	0.00	76.24	0.00	0.00	3899.65
25-Nov-23	208.74	0.00	0.00	6.15	0.00	0.00	0.00	0.00	0.00	76.98	0.00	0.00	3791.02
26-Nov-23	157.55	0.00	0.00	7.86	0.00	0.00	0.00	0.00	0.00	88.63	0.00	0.00	3561.17
27-Nov-23	173.66	0.00	0.00	7.02	0.00	0.00	0.00	0.00	0.00	113.71	0.00	0.00	3528.92
28-Nov-23	153.26	0.00	0.19	6.31	0.00	0.00	0.00	0.00	0.00	94.00	0.00	0.00	3564.46
29-Nov-23	142.62	0.09	0.00	7.05	0.00	0.00	0.00	0.00	0.00	89.30	0.00	0.00	3600.23
30-Nov-23	140.59	0.00	0.00	6.05	0.00	0.00	0.00	0.00	0.00	99.57	0.00	0.00	3532.51
Total	5196.16	3.12	2.15	180.27	0.00	0.00	0.00	0.00	0.00	2359.07	0.00	0.10	115019.46
Source: NLL		TT7 1 * . A	~			1 1.	1 . • •.		C	1.1	1		

* 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 1^{st} 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.

Tal	ble-27(a)	: PRIC	E OF DA	AY AHE	AD TRA	NSACTI	ONS OF	ELECT	RICITY	(DAY-W	ISE) (₹/k	xWh), NG	OVEMI	BER 2023	3
Market Segment	Day A	head M of IEX		t Day Ahead Market of Day Ahead Market of High Price Day Ahead PXIL HPX Head Market of IEX						gh Price ead Marl 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-Nov-23	3.32	10.00	5.05	10.00	10.00	10.00	-	-	-	-	-	-	-	-	-
2-Nov-23	3.35	10.00	5.13	10.00	10.00	10.00	10.00	10.00	10.00	-	-	1	-	-	-
3-Nov-23	3.10	10.00	4.72	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
4-Nov-23	3.54	10.00	4.96	-	-	-	-	-	-	-	-	-	-	-	-
5-Nov-23	3.10	9.97	4.52	-	-	-	-	-	-	-	-	-	-	-	-
6-Nov-23	3.25	10.00	4.83	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
7-Nov-23	3.02	10.00	4.48	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
8-Nov-23	2.85	10.00	4.38	10.00	10.00	10.00	10.00	10.00	10.00	-	-	-	-	-	-
9-Nov-23	3.25	10.00	4.52	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
10-Nov-23	2.95	10.00	4.36	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
11-Nov-23	2.51	10.00	3.94	-	-	-	-	-	-	-	-	-	-	-	-
12-Nov-23	2.00	3.77	2.93	-	-	-	-	-	-	-	-	-	-	-	-
13-Nov-23	2.00	4.00	2.75	-	-	-	-	-	-	-	-	-	-	-	-
14-Nov-23	2.10	4.48	2.91	-	-	-	-	-	-	-	-	-	-	-	-
15-Nov-23	2.70	6.00	3.38	-	-	-	-	-	-	-	-	-	-	-	-
16-Nov-23	2.55	10.00	3.75	-	-	-	-	-	-	-	-	-	-	-	-
17-Nov-23	2.38	10.00	3.79	-	-	-	-	-	-	-	-	-	-	-	-
18-Nov-23	2.75	10.00	4.03	2.45	3.48	3.18	-	-	-	-	-	-	-	-	-
19-Nov-23	2.70	6.50	3.62	-	-	-	-	-	-	-	-	-	-	-	-
20-Nov-23	2.73	10.00	4.57	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
21-Nov-23	2.69	10.00	4.18	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
22-Nov-23	2.81	10.00	4.20	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
23-Nov-23	3.00	10.00	4.44	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
24-Nov-23	3.10	10.00	4.55	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
25-Nov-23	3.00	10.00	4.12	-	-	-	-	-	-	-	-	-	-	-	-
26-Nov-23	2.13	5.60	3.30	-	-	-	-	-	-	-	-	-	-	-	-
27-Nov-23	2.14	10.00	3.72	-	-	-	-	-	-	-	-	-	-	-	-
28-Nov-23	2.00	10.00	3.60	-	-	-	10.00	10.00	10.00	-	-	-	-	-	-
29-Nov-23	2.50	10.00	3.96	1.00	6.53	6.13	-	-	-	-	-	-	-	-	-
30-Nov-23	2.40	10.00	3.92	-	-	-	-	-	-	-	-	-	-	-	-
	2.00#	10.00#	4.16	1.00#	10.00#	9.36	10.00#	10.00#	10.00	-	-	-	-	-	-
Source: IE									<i>c</i> :		(1.67)			1	
* Weighted	a average	e price c	computed	based on	i Area Cle	earing Vo	tume (AC	V) and A	rea Clear	ing Price	(ACP) fo	or each he	our of th	e day. He	ere,

* 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

Morbot				NOVEM		onkat of			
Market Segment	Green Day	y Ahead Mar	ket of IEX	Green D	ay Ahead M PXIL	arket of	Green Day	Ahead Marl	ket of HP
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighte Averag Price*
1-Nov-23	4.04	10.00	5.02	-	-	-	-	-	
2-Nov-23	4.10	10.00	5.03	-	-	-	-	-	
3-Nov-23	4.04	10.00	5.16	-	-	-	-	-	
4-Nov-23	4.13	10.00	5.00	-	-	-	-	-	
5-Nov-23	4.13	10.00	5.18	-	-	-	-	-	
6-Nov-23	4.13	10.00	5.11	-	-	-	-	-	
7-Nov-23	4.50	10.00	5.61	-	-	-	-	-	
8-Nov-23	4.43	10.00	5.74	-	-	-	-	-	
9-Nov-23	4.13	10.00	5.67	-	-	-	-	-	
10-Nov-23	4.06	10.00	4.77	-	-	-	-	-	
11-Nov-23	4.00	10.00	4.59	-	-	-	-	-	
12-Nov-23	3.49	10.00	4.70	-	-	-	-	-	
13-Nov-23	3.80	6.90	4.39	-	-	-	-	-	
14-Nov-23	3.80	5.85	4.27	-	-	-	-	-	
15-Nov-23	3.79	5.85	4.29	-	-	-	-	-	
16-Nov-23	3.78	10.00	4.40	-	-	-	-	-	
17-Nov-23	3.50	10.00	4.35	-	-	-	-	-	
18-Nov-23	3.79	10.00	4.25	-	-	-	-	-	
19-Nov-23	3.59	6.10	4.18	-	-	-	-	-	
20-Nov-23	4.00	10.00	4.39	-	-	-	-	-	
21-Nov-23	4.01	10.00	4.84	-	-	-	-	-	
22-Nov-23	4.00	10.00	4.81	-	-	-	-	-	
23-Nov-23	4.00	10.00	4.76	-	-	-	-	-	
24-Nov-23	3.80	10.00	4.85	-	-	-	-	-	
25-Nov-23	3.56	10.00	4.60	-	-	-	-	-	
26-Nov-23	3.78	6.69	4.04	-	-	-	-	-	
27-Nov-23	3.50	10.00	4.46	-	-	-	-	-	
28-Nov-23	3.80	10.00	4.47	-	-	-	-	-	
29-Nov-23	3.25	10.00	4.17	-	-	-	-	-	
30-Nov-23	3.76	10.00	4.45	-	-	-	-	-	
	3.25#	10.00#	4.69	-	_	_	_	_	

* 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 Time Market of IEX			Real Time Market of PXIL			Real Time Market of HPX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Nov-23	3.42	10.00	5.19	-	-	-	-	-	
2-Nov-23	3.43	10.00	5.20	-	-	-	-	-	
3-Nov-23	3.78	10.00	5.75	-	-	-	-	-	
4-Nov-23	3.21	10.00	5.44	-	-	-	-	-	
5-Nov-23	2.10	6.39	3.97	-	-	-	-	-	
6-Nov-23	2.43	9.50	4.07	-	-	-	-	-	
7-Nov-23	2.89	10.00	4.64	-	-	-	-	-	
8-Nov-23	3.22	10.00	4.66	-	-	-	-	-	
9-Nov-23	3.00	10.00	4.42	-	-	-	-	-	
10-Nov-23	2.50	10.00	3.96	-	-	-	-	-	
11-Nov-23	1.00	5.00	2.99	-	-	-	-	-	
12-Nov-23	0.70	3.99	2.43	-	-	-	-	-	
13-Nov-23	1.30	4.37	2.62	-	-	-	-	-	
14-Nov-23	2.00	5.51	3.44	-	-	-	-	-	
15-Nov-23	1.74	10.00	3.52	-	-	-	-	-	
16-Nov-23	2.13	10.00	4.04	-	-	-	-	-	
17-Nov-23	2.50	10.00	4.48	-	-	-	-	-	
18-Nov-23	2.92	10.00	4.61	-	-	-	-	-	
19-Nov-23	1.50	10.00	3.70	-	-	-	-	-	
20-Nov-23	1.20	10.00	3.95	-	-	-	-	-	
21-Nov-23	1.76	10.00	4.20	-	-	-	10.00	10.00	10.0
22-Nov-23	3.00	10.00	4.67	-	-	-	-	-	
23-Nov-23	2.82	10.00	4.64	-	-	-	-	-	
24-Nov-23	2.00	10.00	4.21	-	-	-	-	-	
25-Nov-23	1.74	9.80	3.52	-	-	-	-	-	
26-Nov-23	1.20	4.00	3.14	-	-	-	-	-	
27-Nov-23	1.20	8.51	2.96	-	-	-	-	-	
28-Nov-23	1.52	5.00	3.03	-	-	-	-	-	
29-Nov-23	1.80	10.00	3.58	-	-	-	-	-	
30-Nov-23	1.53	9.50	3.09	-	-	-	-	-	
	0.70#	10.00 [#]	3.93	-	-	-	10.00#	10.00#	10.0

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

Table-28: VOLUN	ME OF TH	RANSACTIO	NS THRO	UGH POWE NOVEMBER		GES (REGION	AL ENTITY	(*-WISE) (M	Us),
	Throu	gh DAM	Throug	h GDAM		HP-DAM	Throug	h RTM	Total
Name of the Entity	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase	Net***
PUNJAB	28.39	87.64	0.00	1.83	0.00	0.00	17.71	73.48	116.84
HARYANA	73.53	26.99	0.07	0.20	0.00	0.00	15.23	16.30	-45.34
RAJASTHAN	143.02	47.66	2.64	7.37	0.00	0.00	252.47	32.06	-311.06
DELHI	41.26	51.53	0.38	11.74	0.00	0.00	36.37	39.95	25.21
UTTAR P	523.43	338.00	5.32	2.85	0.00	0.00	151.73	122.02	-217.61
UTTARAKHAND	4.98	222.22	0.00	0.00	0.00	0.00	10.03	39.77	246.98
HIMACHAL P	91.40	0.17	6.16	0.00	0.00	0.00	20.19	2.58	-115.01
J & K	1.16	370.32	6.93	0.00	0.00	0.00	7.77	175.55	530.02
CHANDIGARH	22.42	0.22	0.93	0.00	0.00	0.00	0.00	0.00	-22.20
MP	49.47	206.54	4.04	1.38	0.00	0.00	206.02	123.75	72.13
				5.17		0.00			
MAHARASHTRA	58.48	1085.36	1.39		0.00		36.01	261.68	1256.33
GUJARAT	84.44	807.78	0.00	0.83	0.00	0.00	13.66	64.44	774.96
CHHATTISGARH	543.89	0.37	0.00	0.00	0.00	0.00	100.81	10.60	-633.73
GOA	2.24	15.10	0.00	3.80	0.00	0.00	0.75	1.92	17.82
DD&DNH	0.00	42.11	0.00	0.00	0.00	0.00	0.61	13.02	54.53
ANDHRA P	15.77	575.08	6.28	1.54	0.00	0.00	4.64	229.46	779.40
KARNATAKA	0.00	35.82	0.00	1.66	0.00	0.00	21.85	74.92	90.55
KERALA	3.27	58.97	0.00	5.12	0.00	0.00	4.20	162.84	219.45
TAMIL NADU	24.14	220.26	0.00	25.61	0.00	0.00	46.70	57.58	232.60
PONDICHERRY	40.12	0.00	0.00	0.00	0.00	0.00	13.39	0.00	-53.50
TELANGANA	11.51	673.54	9.03	0.08	0.00	0.00	6.16	572.15	1219.06
WEST BENGAL	253.93	111.71	0.00	0.00	0.00	0.00	95.36	53.44	-184.14
ODISHA	258.83	21.51	0.00	0.01	0.00	0.00	93.28	44.46	-286.13
BIHAR	255.25	0.66	0.00	0.00	0.00	0.00	382.13	1.49	-635.23
JHARKHAND	0.00	6.85	0.00	0.30	0.00	0.00	80.92	1.78	-71.99
SIKKIM	5.47	6.69	8.73	0.00	0.00	0.00	15.46	0.09	-22.89
DVC	9.42	13.48	0.00	7.05	0.00	0.00	13.06	74.68	72.72
ARUNACHAL P	0.55	0.00	0.00	0.00	0.00	0.00	1.81	0.43	-1.93
ASSAM	0.00	5.50	0.00	0.00	0.00	0.00	80.73	2.32	-72.90
MANIPUR	2.13	0.00	0.00	0.00	0.00	0.00	1.09	2.52	-0.51
MANIOR MEGHALAYA	8.18	17.97	0.00	0.00	0.00	0.00	0.15	9.88	19.47
MIZORAM	4.62	0.00	0.00	0.00	0.00	0.00	0.13	0.00	-4.62
NAGALAND				0.00		0.00			
	6.08	0.00	0.00		0.00		0.63	0.00	-6.71
TRIPURA	0.00	0.10	0.00	0.00	0.00	0.00	31.61	0.49	-31.02
NTPC STATIONS-NR	21.59	0.00	0.00	0.00	0.00	0.00	84.12	0.00	-105.71
NHPC STATIONS	3.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.50
NEP	44.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-44.31
AD HYDRO	16.60	0.00	0.00	0.00	0.00	0.00	0.74	0.00	-17.34
IGSTPS	0.00	0.00	0.00	0.00	0.00	0.00	6.78	0.00	-6.78
KARCHAM WANGTOO	25.81	0.00	0.00	0.00	0.00	0.00	0.16	0.00	-25.97
SHREE CEMENT	21.01	0.00	0.00	0.00	0.00	0.00	0.19	0.00	-21.20
LANCO BUDHIL	0.83	0.00	0.00	0.00	0.00	0.00	0.02	0.00	-0.85
SORANG HEP	5.92	0.00	5.01	0.00	0.00	0.00	0.09	0.00	-11.02
SAINJ HEP	8.61	0.00	0.00	0.00	0.00	0.00	0.04	0.00	-8.65
ASEJTL_SLR	1.89	0.00	20.68	0.00	0.00	0.00	0.00	0.00	-22.57
SINGOLI BHATWARI HE	2.53	0.00	12.10	0.00	0.00	0.00	0.78	0.00	-15.41
NCR ALLAHABAD	0.00	31.16	0.00	0.98	0.00	0.00	0.00	2.24	34.38
RENEW_SR_SLR	21.38	0.00	14.62	0.00	0.00	0.00	0.53	0.00	-36.53
NTPC STATIONS-WR	0.58	0.00	0.00	0.00	0.00	0.00	56.59	1.66	-55.51
JINDAL POWER	226.49	0.00	0.00	0.00	0.00	0.00	2.08	5.94	-222.63
ACBIL	63.19	0.00	0.00	0.00	0.00	0.00	5.92	0.02	-69.09
BALCO	1.12	2.94	0.00	24.41	0.00	0.00	0.96	6.17	31.44
DCPP	74.11	0.00	0.00	0.00	0.00	0.00	1.94	1.32	-74.73
EMCO	3.17	0.00	0.00	0.00	0.00	0.00	0.98	0.00	-4.15
ESSAR POWER	179.54	0.00	0.00	0.00	0.00	0.00	11.72	8.63	-4.13
JINDAL STAGE-II	250.79	0.00	0.00	0.00	0.00	0.00	3.38	10.14	-244.03
DB POWER	290.98	0.00	0.00	0.00	0.00	0.00	1.63	0.00	-292.61
DHARIWAL POWER	3.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-3.23
JAYPEE NIGRIE	108.29	0.00	0.00	0.00	0.00	0.00	0.50	0.00	-108.78

MB POWER	18.82	27.12	0.00	0.00	0.00	0.00	9.93	16.94	15.31
MARUTI COAL	11.02	0.00	0.00	0.00	0.00	0.00	3.84	0.46	-14.40
JHABUA POWER_MP	9.03	11.36	0.00	0.00	0.00	0.00	5.48	8.07	4.92
SASAN UMPP	0.00	0.00	0.00	0.00	0.00	0.00	11.37	0.00	-11.37
TRN ENERGY	0.00	0.00	0.00	0.00	0.00	0.00	9.75	0.00	-9.75
RKM POWER	5.90	0.00	0.00	0.00	0.00	0.00	3.80	0.00	-9.69
SKS POWER	100.06	0.00	0.00	0.00	0.00	0.00	26.46	0.00	-126.52
INOX_BHUJ	0.00	0.00	0.92	0.00	0.00	0.00	0.00	0.00	-0.92
AMPS Hazira	0.00	78.67	0.00	78.35	0.00	0.00	0.00	19.83	176.85
RGPPL_IR	0.00	0.00	0.00	0.00	0.00	0.00	0.84	1.94	1.11
ADANI_WIND	6.33	0.00	29.47	0.00	0.00	0.00	0.16	0.00	-35.96
CONTINNUM PT	0.00	0.00	9.15	0.00	0.00	0.00	0.00	0.00	-9.15
RENERGY5_WIND	0.00	0.00	5.16	0.00	0.00	0.00	0.00	0.00	-5.16
ARTPP	299.64	0.00	0.00	0.00	0.00	0.00	11.22	2.03	-308.83
MTPS	0.00	0.00	0.00	0.00	0.00	0.00	1.66	0.00	-1.66
RAIGARH_ADANI	134.11	0.00	0.00	0.00	0.00	0.00	9.21	0.00	-143.32
NREL_DAYAPAR (W)	0.00	0.00	0.00	0.00	0.00	0.00	4.69	0.00	-4.69
NTPC STATIONS-SR	0.84	0.00	10.64	0.00	0.00	0.00	17.63	0.00	-29.11
SIMHAPURI	0.93	0.00	0.00	0.00	0.00	0.00	3.91	7.94	3.10
COASTGEN	28.24	0.00	0.00	0.00	0.00	0.00	0.46	0.00	-28.70
IL&FS	3.62	0.00	0.00	0.00	0.00	0.00	1.68	0.00	-5.30
NLC	0.00	0.00	0.00	0.00	0.00	0.00	47.09	0.03	-47.07
SEMBCORP	86.67	0.00	0.00	0.00	0.00	0.00	28.39	0.00	-115.06
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	7.52	0.00	-7.52
OSTRO Hiriyur	1.43	0.00	15.21	0.00	0.00	0.00	0.70	0.00	-17.33
RENEW_ROSHNI	0.26	0.00	6.30	0.00	0.00	0.00	0.82	0.00	-7.38
	101.52	0.00	0.00	0.00	0.00	0.00	135.21	0.00	-236.73
NPGC	1.86	0.00	0.00	0.00	0.00	0.00	22.77	0.00	-24.63
ADHUNIK POWER LTD	35.05	0.00	0.00	0.00	0.00	0.00	7.62	0.00	-42.66
CHUZACHEN HEP	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.00	-0.10
GMR KAMALANGA	0.42	0.00	0.00	0.00	0.00	0.00	0.03	0.00	-0.44
JITPL	158.50	0.00	0.00	0.00	0.00	0.00	6.54	0.00	-165.04
JORETHANG	0.05	0.00	0.00	0.00	0.00	0.00	0.98	0.00	-1.03
NEPAL(NVVN)	218.36	0.00	0.00	0.00	0.00	0.00	10.53	0.00	-228.89
TASHIDENG HEP	0.13	0.00	0.00	0.00	0.00	0.00	0.49	0.00	-0.63
DGPCL Bhutan	8.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.43
KBUNL	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.58
BASOCHHU HEP	5.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.99
NTPC STATIONS-NER	2.24	0.00	0.00	0.00	0.00	0.00	5.21	0.00	-7.45
NEEPCO STATIONS	0.47	0.00	0.00	0.00	0.00	0.00	17.41	0.00	-17.89
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	0.22	0.00	-0.22
ONGC PALATANA	17.98	0.00	0.00	0.00	0.00	0.00	3.76	0.00	-21.74
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	-0.08
Source: NLDC									

* in case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.
 ** (-) indicates sale and (+) indicates purchase,
 *** Total net includes net of transactions through various segments on power exchanges

Data	Volume (MII)	All Indi	ia Grid Charges (₹/kWh)
Date	Volume (MU)	Minimum	Maximum	Average
1-Nov-23	64.29	2.50	10.00	5.5
2-Nov-23	63.54	2.50	10.00	5.5
3-Nov-23	59.21	2.50	10.00	5.8
4-Nov-23	66.56	2.50	10.00	5.6
5-Nov-23	65.37	2.50	10.00	4.5
6-Nov-23	63.48	2.50	10.00	4.8
7-Nov-23	67.52	3.21	10.00	4.6
8-Nov-23	64.26	3.20	10.00	4.8
9-Nov-23	71.79	3.25	10.00	4.6
10-Nov-23	73.30	2.95	10.00	4.3
11-Nov-23	84.98	2.51	10.00	3.9
12-Nov-23	85.45	2.00	10.00	3.
13-Nov-23	88.87	2.00	10.00	3.0
14-Nov-23	80.98	2.33	10.00	3.:
15-Nov-23	75.15	2.70	10.00	3.2
16-Nov-23	65.67	2.55	10.00	4.0
17-Nov-23	66.89	2.63	10.00	4.:
18-Nov-23	66.05	2.90	10.00	4.0
19-Nov-23	69.87	2.78	10.00	3.3
20-Nov-23	69.54	2.70	10.00	4.:
21-Nov-23	73.03	2.69	10.00	4.4
22-Nov-23	66.93	3.00	10.00	4.'
23-Nov-23	67.24	3.04	10.00	4.9
24-Nov-23	67.92	3.16	10.00	4.0
25-Nov-23	71.52	3.00	10.00	4.
26-Nov-23	90.97	2.50	10.00	3.4
27-Nov-23	87.03	2.14	10.00	3.
28-Nov-23	80.13	2.00	10.00	3.:
29-Nov-23	76.75	2.60	10.00	3.8
30-Nov-23	76.60	2.40	10.00	3.
Total	2170.89	2.00#	10.00#	4.3

Name of the Entity Volume of Under drawal/ Over injection (MUs) % of Volume NTPC STATIONS-ER 189.83 8.32 RAASTHAN 129.78 5.69 MP 124.67 5.47 NTPC STATIONS-SR 111.45 4.89 GUJARAT 104.90 4.60 KARNATAKA 101.25 4.44 NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADESH 89.50 3.92 NTPC STATIONS-WR 78.53 3.44 PUNIAB 59.33 2.60 HARY ANA 56.49 2.48 TAMIL NADU 55.65 2.44 CHHATTISGARH 55.21 2.42 ANDIRA PRADESH 53.13 2.33 TELANGANA 44.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DELH 38.61 1.69 DWC 23.59 1.55 HIMACHAL PRADESH	Table-30: VOLUME OF ELECTRICITY UNDER DRAWAL/ OVER INJECTION (EXPORTED) UNDER DSM, NOVEMBER 2023				
INTEC STATIONS-ER 189.83 8.32 RAIASTHAN 129.78 5.69 MP 124.67 5.47 NTIC STATIONS-SR 111.45 4.83 GUJARAT 104.90 4.60 KARNATAKA 101.25 4.44 NTIC STATIONS-NR 95.71 4.20 MAHARASHITRA 95.03 4.17 UTTAR PRADESH 89.50 3.92 NITC STATIONS-WR 78.53 3.44 UNTAR PRADESH 56.69 2.48 TAMIL NADU 55.65 2.44 CHHATTISGARH 55.21 2.42 ANDIRA PRADESH 53.13 2.33 TELANGANA 49.80 2.18 NHIC STATIONS 41.60 1.82 NHOR STATIONS 22.62 0.99 ASASU MPP 41.01 1.80 DEUH 38.61 1.69 DVC 35.39 1.55 HIMACHAL PRADESH 27.46 1.30 NEEPCO STATIONS 22.62 0.99 </th <th>Name of the Entity</th> <th></th> <th>% of Volume</th>	Name of the Entity		% of Volume		
MP 124.67 5.47 NTPC STATIONS-SR 111.45 4.49 GUJARAT 104.90 4.60 KARNATAKA 101.25 4.44 NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADISH 89.50 3.52 NTPC STATIONS-WR 78.53 3.44 PUNJAB 50.33 2.60 HARYANA 56.49 2.48 CHHATTISGARH 55.21 2.42 CHHATTISGARH 55.11 2.42 ANDIRA PRADESH 55.65 2.44 CHHATTISGARH 55.13 2.33 TELANGANA 49.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DELH 38.61 1.09 DVC 35.39 1.55 HMACHAL PRADESH 27.46 1.20 MAR SHARIAND 18.17 0.80 JINDAL STAGE-II 15.14 0.68	NTPC STATIONS-ER		8.32		
NTPC STATIONS-SR 111.45 4.89 CUJARAT 104.90 4.60 KARNATAKA 101.25 4.44 NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADESH 89.50 3.92 NTPC STATIONS-WR 78.53 3.44 PUNJAB 59.33 2.60 HARYANA 56.69 2.48 TAMIL NADU 55.65 2.44 CHIATTISGARA 49.80 2.18 TAMIL NADU 55.65 2.41 INPC STATIONS-WR 41.60 1.82 SASAN UMPP 41.01 1.80 DELHI 38.61 1.69 DVC 35.39 1.55 HMACHAL PRADESH 27.46 1.20 DELHI 38.61 1.69 DVC 35.39 1.55 HAKHAND 18.17 0.80 JINDAL STAGE-II 15.44 0.66 INTARKHAND 18.17 0.80	RAJASTHAN	129.78	5.69		
GUARAT 104.90 4.60 KARNATAKA 101.25 4.44 NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADESH 89.50 3.52 NTPC STATIONS-WR 78.53 3.44 PUNJAB 59.33 2.60 HARYANA 56.69 2.44 CHHATTSGARH 55.21 2.42 ANDIRA PRADESH 55.31 2.33 TELANGANA 49.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DELHI 38.61 1.69 DVC 33.39 1.55 HMACHAL PRADESH 27.46 1.20 NEEPCO STATIONS 22.62 0.99 AMPS Hazina 19.47 0.85 JHARKHAND 18.17 0.80 NINDAL STAGE-IT 15.44 0.66 IGSTPS 44.90 0.65 NLC 13.46 0.59	MP	124.67	5.47		
KARNATAKA 101.25 4.44 NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADESH 89.50 3.92 INTPC STATIONS-WR 78.53 3.344 PUNJAB 59.33 2.60 HARYANA 56.69 2.48 TAMIL NADU 55.65 2.44 CHHATTISOARH 55.21 2.42 ANDIRA PRADESH 53.13 2.33 TELANGANA 49.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DVC 35.39 1.55 HIMACHAL PRADESH 22.62 0.99 AMPS STATIONS 22.62 0.99 AMPS Hazia 19.47 0.85 JINAL STAGE-II 15.44 0.68 BHAR 15.14 0.68 BHAR 15.14 0.65 UTTARAKHAND 13.46 0.59 MATHON POWER LTD 13.17 0.58					
NTPC STATIONS-NR 95.71 4.20 MAHARASHTRA 95.03 4.17 UTTAR PRADESH 89.50 3.92 NTPC STATIONS-WR 78.53 3.44 PUNJAB 59.33 2.60 HARYANA 56.49 2.48 CHHATTISGARH 55.65 2.44 CHHATTISGARH 55.11 2.42 ANDIRA PRADESH 53.13 2.33 TELANGANA 40.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DELHI 38.61 1.69 DVC 35.99 1.55 HMACHAL PRADESH 27.46 1.20 NEEPCO STATIONS 22.62 0.99 AMPS Hazina 19.47 0.85 JHARKHAND 18.17 0.85 JHARKHAND 14.90 0.65 UTTAR RKHAND 14.40 0.66 INDAL STAGE-II 15.44 0.68 BBMB 11.39 0.50					
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ITTAR PRADESH 89.50 3.92 NTPC STATIONS-WR 78.53 3.44 PUNIAB 59.33 2.60 HARYANA 56.49 2.48 CHHATTISGARH 55.65 2.44 CHHATTISGARH 55.13 2.33 TELANGANA 49.80 2.18 NHPC STATIONS 41.60 1.82 SASAN UMPP 41.01 1.80 DELHI 38.61 1.69 DVC 35.39 1.55 HMACHAL PRADESH 27.46 1.20 NEEPCO STATIONS 22.62 0.99 MMPS 22.62 0.99 MMPS Hazina 19.47 0.85 HARKHAND 18.17 0.80 JINDAL STAGE-II 15.14 0.66 IGSTPS 14.90 0.65 NLC 13.46 0.59 NLC 13.46 0.59 NLARKHAND 14.90 0.65 NLC 13.46 0.59 NLC					
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AMPS Hazira 19.47 0.85 JHARKHAND 18.17 0.80 JINDAL STAGE-II 15.44 0.68 BHAR 15.14 0.66 IGSTPS 14.90 0.65 UTTARAKHAND 14.86 0.65 NLC 13.46 0.59 MAITHON POWER LTD 13.17 0.58 BBMB 11.39 0.50 J & K 11.07 0.49 LANKO_AMK 10.60 0.46 ODISHA 10.18 0.45 PONDICHERRY 9.80 0.43 NIPC 8.83 0.39 TRIPURA 8.62 0.38 RKM POWER 7.99 0.35 NPGC 7.92 0.35 NPGC 7.92 0.35 NPGC 7.38 0.32 JINDAL POWER 7.36 0.32 JINDAL POWER 7.36 0.32 JINDAL POWER 7.36 0.32 JAYPEE NIGRIE 7.06 <					
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TATA_PVGD6.240.27MEGHALAYA6.160.27GIWEL_BHUJ6.030.26PARAM_PVGD5.960.26KREDL_PVGD5.920.26					
MEGHALAYA 6.16 0.27 GIWEL_BHUJ 6.03 0.26 PARAM_PVGD 5.96 0.26 KREDL_PVGD 5.92 0.26					
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PARAM_PVGD 5.96 0.26 KREDL_PVGD 5.92 0.26					
KREDL_PVGD 5.92 0.26					
GOA 5.80 0.25	GOA	5.80	0.25		
RENEW_BHUJ 5.74 0.25					
MTPS II 5.72 0.25					
RPREL 5.64 0.25					
SBESS 5.42 0.24					

TEHRI	5.05	0.22
SKRPL	5.00	0.22
MIZORAM	4.82	0.22
KERALA	4.74	0.21
RAPC	4.72	0.21
CHANDIGARH	4.64	0.20
MB POWER	4.61	0.20
RAMPUR HEP	4.49	0.20
NTPL	4.34	0.19
ASEJTL SLR	4.13	0.18
DB POWER	4.02	0.18
NETCL VALLUR	3.81	0.17
OSTRO	3.75	0.16
RENEW_BHACHAU	3.74	0.16
NTPC_ANTP	3.72	0.16
AYANA_RP1	3.66	0.16
NTPC STATIONS-NER	3.65	0.16
BARC	3.63	0.16
KARCHAM WANGTOO	3.58	0.16
JITPL	3.55	0.16
CLEAN_SLR	3.50	0.15
ACME_SLR	3.50	0.15
RAIL	3.43	0.15
ARS_PVGD	3.37	0.15
RENEWSB	3.35	0.15
SPRNG_NPKUNTA	3.35	0.15
KOTESHWAR	3.33	0.15
AVAADASN_SLR	3.32	0.15
 GRT_JPL	3.26	0.14
AVIKIRAN	3.20	0.14
NSPCL	3.20	0.14
SEMBCORP	3.18	0.14
APRAAVA	3.12	0.14
ACME_HEERGARH	3.02	0.13
SKS POWER	3.01	0.13
AZURE_PVGD	2.95	0.13
GIWEL_TCN	2.86	0.13
ALFANAR_BHUJ	2.85	0.13
INOX_BHUJ	2.85	0.12
NAGALAND	2.79	0.12
AZURE43_SLR	2.78	0.12
FORTUM1_PVGD	2.68	0.12
TORRENT SOLARGEN	2.63	0.12
BANGLADESH	2.61	0.11
ORANGE_TCN	2.57	0.11
SBG_NPK	2.55	0.11
EDEN_SLR	2.52	0.11
MSUPL_BHDL2	2.51	0.11
MANIPUR	2.39	0.10
IL&FS	2.36	0.10
AZURE41_SLR	2.35	0.10
ADY1_PVGD	2.32	0.10
ARINSUM_RUMS	2.31	0.10
RENEWURJA_SLR	2.30	0.10
TATA_SLR	2.27	0.10
OSTRO Hiriyur	2.22	0.10
NEP	2.19	0.10
FRV_ANTP	2.14	0.09
AYANA_NPKUNTA	2.09	0.09
NETRA WIND	2.08	0.09
SIKKIM	2.04	0.09
RENEW_SLR_BKN	1.98	0.09
CLEANSP_SLR	1.98	0.09

	1.00	0.00
ABC_BHDL2	<u> </u>	0.09 0.08
RENEW_SR_SLR RENEWSW_SLR	1.90	0.08
EMCO	1.87	0.08
SIMHAPURI	1.81	0.08
CGPL	1.72	0.08
ESPL_RADHANESDA	1.72	0.07
MRPL	1.69	0.07
WEST BENGAL	1.67	0.07
AVADARJHN_SLR	1.67	0.07
RENEWJH_SLR	1.65	0.07
RENEW_PVGD	1.62	0.07
ACME_RUMS	1.60	0.07
TATA_GREEN	1.59	0.07
AVAADA1_PVGD	1.58	0.07
MSEPL	1.56	0.07
SBG_PVGD	1.53	0.07
ADHUNIK POWER LTD	1.52	0.07
ARERJL_SLR	1.51	0.07
JHABUA POWER MP	1.49	0.07
MAHINDRA RUMS	1.49	0.07
ONGC PALATANA	1.46	0.06
ARUNACHAL PRADESH	1.43	0.06
THAR1_SLR	1.39	0.06
TATA_ANTP	1.37	0.06
DAGACHU	1.33	0.06
SESPL	1.22	0.05
AZURE_ANTP	1.20	0.05
DCPP	1.17	0.05
SPRING_PUGALUR	1.16	0.05
GIPCL_RADHANESDA	1.16	0.05
AZURE_SLR	1.12	0.05
ACBIL	1.09	0.05
DHARIWAL POWER	1.08	0.05
GMR KAMALANGA	1.06	0.05
RENEW_ROSHNI	1.02	0.04
TPREL_RADHANESDA	0.98	0.04
FORTUM2_PVGD	0.98	0.04
KSK MAHANADI	0.93	0.04
Railways_ER ISTS	0.93	0.04
GSECL_Radhanesda	0.93	0.04
RANGIT HEP	0.91	0.04
AZURE_MAPLE_SLR	0.91	0.04
AZURE34_SLR	0.89	0.04
POWERGRID HVDC	0.87	0.04
SHREE CEMENT	0.86	0.04
TASHIDENG HEP	0.86	0.04
POWERICA	0.84	0.04
JORETHANG	0.83	0.04
THERMAL POWERTECH	0.82	0.04
TPSL DONCHULUED	0.78	0.03
RONGNICHU HEP	0.78	0.03
COASTGEN	0.75	0.03
RANGANADI HEP	0.70	
JSW_RENEW_2	0.67	0.03
MYTRAH_TCN TDN ENERCY	0.66	0.03
TRN ENERGY	0.64	0.03
SINGOLI BHATWARI HEP	0.64	0.03
RENEW_SLR	0.63	0.03
PARE HEP AKSP_ANTP	0.60 0.58	0.03 0.03
AKSP_ANIP BETAM_TCN	0.58	0.03
ABSP_ANTP	0.54	0.02
ADSF_ANTP	0.33	0.02

AKS_PVGD	0.53	0.02
FRV_NPK	0.50	0.02
AHSP_ANTP	0.50	0.02
AVAADA2_PVGD	0.50	0.02
CHUZACHEN HEP	0.48	0.02
YARROW_PVGD	0.45	0.02
RSTPS_FSPP	0.44	0.02
SAINJ HEP	0.42	0.02
LOKTAK	0.39	0.02
RAP B	0.39	0.02
LANCO BUDHIL	0.36	0.02
DOYANG HEP	0.32	0.01
ADANI GREEN	0.31	0.01
NFF	0.28	0.01
NAPP	0.27	0.01
SRSSFPL	0.26	0.01
SORANG HEP	0.24	0.01
AD HYDRO	0.23	0.01
RGPPL	0.23	0.01
GSECL P-II	0.22	0.01
HVDC ALPD	0.03	0.001
HVDC PUS	0.001	0.0001
Total	2280.87	100.00
Volume Exported by top 5 Regional Entities	660.63	28.96

Table-31: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) UNDER DSM, NOVEMBER 2023				
Name of the Entity	Volume of Over drawal/ Under Injection (MUs)	% of Volume		
NTPC STATIONS-ER	114.95	5.57		
NTPC STATIONS-NR	108.68	5.27		
WEST BENGAL	90.59	4.39		
NTPC STATIONS-WR	86.57	4.20		
NTPC STATIONS-SR	78.23	3.79		
J & K	73.95	3.59		
KARNATAKA	59.18	2.87		
ODISHA	57.31	2.78		
BIHAR	52.35	2.54		
MAHARASHTRA	50.16	2.43		
UTTAR PRADESH	48.65	2.36		
GUJARAT	43.87	2.13		
RAJASTHAN	39.84	1.93		
NLC	39.03	1.89		
ANDHRA PRADESH	38.43	1.86		
TELANGANA	38.42	1.86		
TAMIL NADU	36.25	1.76		
KERALA	35.90	1.74		
AGEMPL BHUJ	30.37	1.47		
JHARKHAND MP	25.77 25.56	<u>1.25</u> 1.24		
GIWEL BHUJ	25.29	1.24		
PUNJAB	25.29	1.25		
HARYANA	25.25	1.22		
UTTARAKHAND	21.37	1.04		
AMPS Hazira	19.95	0.97		
SBESS	19.95	0.97		
INOX_BHUJ	19.14	0.93		
CGPL	18.24	0.88		
SPRING_PUGALUR	17.75	0.86		
ALFANAR_BHUJ	16.36	0.79		
OSTRO	16.07	0.78		
IGSTPS	15.85	0.77		
PARAM_PVGD	14.49	0.70		
DVC	14.30	0.69		
SKRPL	14.21	0.69		
RENEW_BHUJ	14.02	0.68		
RENEW_BHACHAU	13.39	0.65		
ASSAM	12.27	0.60		
GRT_JPL	12.25	0.59		
AZURE43_SLR	11.69	0.57		
NETCL VALLUR	11.25	0.55		
FORTUM1_PVGD	10.87	0.53		
AVAADASN_SLR	10.86	0.53		
KREDL_PVGD	10.37	0.50		
ADANI_WIND	10.37	0.50		
OSTRO Hiriyur	10.34	0.50		
AVADARJHN_SLR	10.02	0.49		
CHHATTISGARH	9.83	0.48		
ARUNACHAL PRADESH	9.82	0.48		
MB POWER	9.78	0.47		
NPGC	9.58	0.46		
SHREE CEMENT	8.94	0.43		
SESPL DANCE ADESIL	8.64	0.42		
BANGLADESH	8.16	0.40		
JHABUA POWER_MP	8.02	0.39		
AVIKIRAN	8.01	0.39		
NHPC STATIONS	7.99	0.39		
GOA	7.97	0.39		

ARS_PVGD	7.76	0.38
JINDAL STAGE-II	7.13	0.35
TATA PVGD	6.76	0.33
AZURE PVGD	6.66	0.32
HIMACHAL PRADESH	6.59	0.32
NTPC_ANTP	6.42	0.31
RENEW_SR_SLR	6.33	0.31
BALCO	6.24	0.30
SBG_NPK	6.23	0.30
 NEPAL(NVVN)	6.16	0.30
SEMBCORP	6.07	0.29
SPRNG_NPKUNTA	6.02	0.29
BRBCL,NABINAGAR	5.99	0.29
CLEAN_SLR	5.90	0.29
APRAAVA	5.61	0.27
RAP B	5.50	0.27
BBMB	5.44	0.26
JINDAL POWER	5.30	0.26
NETRA WIND	5.15	0.25
THAR1_SLR	5.13	0.25
TORRENT SOLARGEN	5.11	0.25
TEHRI	5.09	0.25
RAIL	5.09	0.25
ADY1 PVGD	4.97	0.24
NAPP	4.93	0.24
AZURE41 SLR	4.92	0.24
NTPC STATIONS-NER	4.89	0.24
GIWEL_TCN	4.89	0.24
AYANA_RP1	4.68	0.23
ASEJTL_SLR	4.59	0.22
ORANGE_TCN	4.39	0.21
THERMAL POWERTECH	4.20	0.20
CHANDIGARH	3.99	0.19
DELHI	3.89	0.19
ABC_BHDL2	3.85	0.19
TATA_SLR	3.79	0.18
ACME HEERGARH	3.79	0.18
DD&DNH	3.79	0.18
KAPP 3&4	3.66	0.18
RENEW_SLR_BKN	3.61	0.18
RENEW_PVGD	3.60	0.17
ARERJL SLR	3.55	0.17
AZURE_MAPLE_SLR	3.52	0.17
CLEANSP_SLR	3.39	0.16
FRV_ANTP	3.38	0.16
RENEWJH_SLR	3.31	0.16
AVAADA1_PVGD	3.30	0.16
	3.30	0.16
JITPL	3.25	0.16
RENEWURJA_SLR	3.25	0.16
MSUPL_BHDL2	3.18	0.15
EDEN_SLR	3.06	0.15
SIKKIM	3.05	0.15
ACME_RUMS	3.03	0.15
TATA_GREEN	3.03	0.15
AYANA_NPKUNTA	3.01	0.15
MRPL	2.93	0.14
MANIPUR	2.92	0.14
ACME_SLR	2.82	0.14
RENEWSB	2.81	0.14
RENEWSW_SLR	2.80	0.14
AZURE_SLR	2.70	0.13
RPREL	2.67	0.13
	2.07	0.10

NTPL	2.59	0.13
MSEPL	2.52	0.12
AZURE_ANTP	2.50	0.12
FORTUM2_PVGD	2.35	0.11
NSPCL	2.34	0.11
POWERICA	2.34	0.11
ARINSUM_RUMS	2.16	0.10
DHARIWAL POWER	2.11	0.10
SIMHAPURI	2.07	0.10
RKM POWER	2.00	0.10
NEEPCO STATIONS	1.99	0.10
ESSAR POWER	1.97	0.10
SBG_PVGD	1.94	0.09
TATA_ANTP	1.91	0.09
ESPL_RADHANESDA	1.90	0.09
ACBIL	1.78	0.09
MEGHALAYA	1.76	0.09
MTPS II	1.75	0.08
AHSP_ANTP	1.75	0.08
GSECL P-II	1.63	0.08
RSTPS FSPP	1.63	
AVAADA2_PVGD	1.62	0.08
		0.08
AZURE34_SLR COASTGEN	1.59	0.08 0.08
AKSP_ANTP	1.53	0.07
TPSL	1.51	0.07
PONDICHERRY	1.50	0.07
TRIPURA	1.48	0.07
ADANI GREEN	1.45	0.07
BETAM_TCN	1.44	0.07
YARROW_PVGD	1.38	0.07
KARCHAM WANGTOO	1.36	0.07
RENEW_ROSHNI	1.32	0.06
GMR KAMALANGA	1.30	0.06
RAP C	1.30	0.06
Railways_ER ISTS	1.26	0.06
ABSP_ANTP	1.26	0.06
AKS_PVGD	1.26	0.06
FRV_NPK	1.25	0.06
MYTRAH_TCN	1.21	0.06
KSK MAHANADI	1.20	0.06
DB POWER	1.17	0.06
RGPPL	1.14	0.06
JAYPEE NIGRIE	1.14	0.06
JSW_RENEW_2	1.13	0.05
TPREL_RADHANESDA	1.03	0.05
GIPCL_RADHANESDA	1.03	0.05
DGEN MEGA POWER	0.98	0.05
RANGANADI HEP	0.92	0.04
SKS POWER	0.90	0.04
NEP	0.83	0.04
RENEW_SLR	0.77	0.04
SRSSFPL	0.74	0.04
ADHUNIK POWER LTD	0.66	0.03
DCPP	0.42	0.02
MEENAKSHI	0.41	0.02
NJPC	0.41	0.02
MIZORAM	0.41	0.02
GSECL_Radhanesda	0.39	0.02
MAITHON POWER LTD	0.38	0.02
RANGIT HEP	0.36	0.02
LANKO KONDAPALLI	0.34	0.02
NAGALAND	0.28	0.01

DOYANG HEP	0.28	0.01
TRN ENERGY	0.27	0.01
KOTESHWAR	0.20	0.01
EMCO	0.20	0.01
PARE HEP	0.19	0.01
SAINJ HEP	0.16	0.01
RAMPUR HEP	0.14	0.01
RONGNICHU HEP	0.13	0.01
AD HYDRO	0.13	0.01
IL&FS	0.13	0.01
LOKTAK	0.11	0.01
CHUZACHEN HEP	0.10	0.005
HVDC PUS	0.10	0.005
SASAN UMPP	0.07	0.003
NFF	0.06	0.003
JORETHANG	0.04	0.002
SINGOLI BHATWARI HEP	0.04	0.002
SORANG HEP	0.04	0.002
LANCO BUDHIL	0.03	0.002
DAGACHU	0.02	0.001
HVDC ALPD	0.02	0.001
ONGC PALATANA	0.01	0.0004
LANKO_AMK	0.003	0.0002
TASHIDENG HEP	0.003	0.0001
POWERGRID HVDC	0.0001	0.00001
TOTAL	2061.93	100.00
Volume Imported by top 5 Regional Entities	479.01	23.23

Table-32: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES AND THROUGH TRADERS (BILATERAL), NOVEMBER 2023

NOVEMBER 2023							
Sr. No	Details of REC Transactions	Thro	Bilateral				
		IEX	PXIL	HPX	through Traders		
1	Volume of Buy Bid	1036954	810810	205	-		
2	Volume of Sell Bid	14459642	7418330	2282	-		
3	Ratio of Buy Bid to Sell Bid Volume	0.07	0.11	0.09	-		
4	Traded Volume (MWh)	754970	594426	205.0	465342		
5	Weighted Average Price (₹/MWh)	375.00	375.00	450.00	360.00		

Source: Power Exchanges & Grid-India REC Report

Note: 1 REC = 1 MWh

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

Table-33(a): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAYAHEAD MARKET AT IEX, NOVEMBER 2023							
Sr.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)		
No.		Sale	Purchase	Net*	Sale	Purchase	
1	Nepal	262.68	0.00	-262.68	4.02	-	
2	Bhutan	14.42	0.00	-14.42	4.14	-	
	Total	277.10	0.00	-277.10	-	-	

Source: IEX

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

Table-33(b): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH REALTIME MARKET AT IEX, NOVEMBER 2023							
Sr.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)		
No.		Sale	Purchase	Net*	Sale	Purchase	
1	Nepal	10.53	0.00	-10.53	3.53	-	
2	Bhutan	0.00	0.00	0.00	-	-	
	Total	10.53	0.00	-10.53	-	-	

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



Economics Division Central Electricity Regulatory Commission 36, Janpath, Chanderlok Building