

Monthly Report on Short-term Transactions of Electricity in India

July 2024



Economics Division Central Electricity Regulatory Commission 6th, 7th & 8th Floors, Tower B, World Trade Centre Nauroji Nagar, New Delhi- 110029

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Abbreviation ABSP_ANTP ACBIL ACP ACV ACME SLR ACME RUMS ADANI_4RE ADANI GREEN ADANIHB SLR ADANI_SLR 4 ADANIHB WIND ADEPT 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 ALTRA XERGI AMP GREEN6 AMPLUS AGES **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 **BASOCHHU HEP** BBMB

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 Renewable Energy Holding Four Limited Adani Green Energy Limited Adani Hybrid Energy Jaisalmer One Limited (Solar) Adani Solar Energy Four Private Limited Adani Hybrid Energy Jaisalmer One Limited (Wind) Adept Renewable Technologies Private Limited 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 Advah Solar Energy Pvt Ltd., Block 6 Pavagada Solar Park Advah 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 Altra Xergi Power Private Limited Amp Energy Green Six Private Limited Amplus Ages Private Limited 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 TCN BHADRAVATHI HVDC BRBCL CEA CERC CGPL CHUKHA HEP CHUZACHEN HEP CLEAN SLR CLEANSP SLR COASTGEN DAGACHU DAM DEVKOOT SLR 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 GRIAN GSECL P-II** G-TAM HPX HP-DAM HP-TAM HVDC ALPD HVDC CHAMPA HVDC PUS HVDC RAIGARH IBEUL IEX **IGSTPS** IL&FS **INOX BHUJ** J&K JAYPEE NIGRIE

Betam Wind Energy Private Limited, Tuticorin Bhadravathi High Voltage Direct Current Link Bhartiya Rail Bijlee Company Limited Central Electricity Authority Central Electricity Regulatory Commission Coastal Gujarat Power Limited Chhukha Hydroelectric Project, Bhutan Chuzachen Hydro Electric Power Project Clean Solar Power Pvt. Ltd Clean Solar Jodhpur Pvt Ltd Coastal Energen Private Limited Dagachhu Hydro Power Corporation Day Ahead Market Devkoot Solar Power Plant, NTPC Green Energy 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 Grian Energy Private Limited 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 Ind Bharat Energy Utkal Limited 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 POWER MP JINDAL POWER JINDAL STAGE-II JITPL **JORETHANG** JSW_RENEW_2 **KAPP 3&4** KARCHAM WANGTOO **KBUNL** KHURJA STPP 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** MRPL **MSEPL MSRPL MTPS** MTPS II MYTRAH TCN MU NAPP NCR ALLAHABAD NEEPCO NEP NFL NHPC STATIONS NJPC NLC **NLDC** NOKHRA_STPP NPGC NREL DAYAPAR (W) NSPCL NTECLVallur NTPC_ANTP NTPC STATIONS NTPL NVVN OCF **ONEVOLT**

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 H.E. Project Kanti Bijlee Utpadan Nigam Limited Khurja Super Thermal Power Plant 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 Mahindra Renewables Private Limited Masaya Solar Energy Private Limited Mega Solis Renewables Pvt. Ltd. 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 Nokhra Solar Power Plant, NTPC Green Energy Ltd. 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 **Onevolt Energy Private Limited**

ONGC Platana OPGC ORANGE TCN **OSTRO** OTC PARAM_PVGD PARE HEP PXII. **RAMPUR HEP** RANGIT HEP **RANGANADI HEP** RAP-B RAP-C **RAPP 7&8** REC REGL **RENEW_BHACHAU RENEW BHUJ RENEW PVGD RENEW_ROSHNI FATEHGARH RENEW_SAAYAN** RENEW_SLR_BKN **RENEW_SOJAS RENEW_SPRATAP** RENEW SR SLR **RENEW SVIHAAN** RENEW_ROSHNI RENEWJH_SLR RENEWURJA_SLR RGPPL IR **RGPPL OTHER RISING SLR** 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

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 India Limited Rampur Hydro Electric Power Project Rangit Hydroelectric power project Ranganadi Hydro Electric Power Project, Arunachal Pradesh Rajasthan Atomic Power Plant-B Rajasthan Atomic Power Plant-C Rajasthan Atomic Project 7&8 **Renewable Energy Certificate Raigarh Energy Generation Limited** ReNew Power Limited, Bhachau ReNew Power Limited, Bhuj ReNew Wind Energy (TN2) Private Limited Renew Surya Roshni Private Limited-Fatehgarh-III PS Renew Surva Aavan Private Limited Renew Solar Bikaner Renew Surva Ojas Private Limited-Wind Renew Surya Pratap Private Limited Renew Surya Ravi Private Limited (Solar) Renew Surva Vihaan Private Limited 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 Rising Sun Energy Pvt. Ltd. **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 HEP TASHIDENG HEP TATA ANTP TATA_PVGD TATA_SLR TAM **TEESTA STG3** TEHRI TESPL THAR1_SLR THERMAL POWERTECH TPREL_RADHANESDA TPSL VINDHYACHAL HVDC WA YARROW_PVGD

Tala Hydroelectric Project, Bhutan Tashiding Hydro Electric Project, Sikkim TATA Power Anantapur Tata Power Renewable Energy Ltd Tata Solar Term Ahead Market Teesta Stage 3 Hydro Power Project Tehri Hydro Electric Power Project Transition Energy Services Private Limited Thar Surya 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

1.1. A well-functioning electricity market requires an effective market monitoring process. The monthly report on short-term transactions of electricity, published by CERC since 2008 as part of its market monitoring process, provides a snapshot of key aspects of short-term transactions of electricity in India. Here, "short-term transactions of electricity" refers to the contracts of less than one year period for electricity transacted (inter-State) - through Trading Licensees, directly by the Distribution Licensees and on Power Exchanges (Indian Energy Exchange Ltd (IEX), Power Exchange India Ltd (PXIL) and Hindustan Power Exchange Ltd (HPX)). "DSM Volume" includes the volume recorded under Deviation Settlement Mechanism. The main objectives of the report are: (i) to analyse the volume and price of the short-term transactions of electricity; (ii) to assess the competition among the market players; (iii) to analyse the effect of congestion on the volume of electricity transacted through power exchanges; (iv) to provide information on volume and price of Renewable Energy Certificates (RECs) transacted through power exchanges; and (v) to disseminate all other relevant market information. The analysis of short-term transactions of electricity and DSM volume during the month of July 2024 is presented in the following sections.

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

2.1. During July 2024, total electricity generation, excluding generation from renewable and captive power plants in India, was 134849.67 MU (Table-1). Of the total electricity generation, 17.33% was transacted through short-term and DSM, comprising of 8.17% through bilateral¹ (through Traders and Term-Ahead contracts on power exchanges, and directly between entities), followed by 6.95% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)}, and 2.20% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions and DSM volume (23371.54 MU), 47.16% was transacted through bilateral (i.e. through Traders, Term-Ahead contracts on power exchanges and directly between companies), followed by 40.13% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, and 12.72% through DSM (Table-1 & Figure-2).

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.

The daily volume of power exchange transactions is shown in Table-28. 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, 53.09% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 29.35% in RTM and 17.56% 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 shows the share of top 5 trading licensees. The volume of electricity transacted by the trading licensees includes bilateral transactions and transactions undertaken through power exchanges. There were 60 trading licensees as of July 2024. Of which, 39 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 80.79% 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 0.1773 for the month of July 2024, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX was 5070.64 MU, while no electricity was transacted in the DAM of PXIL and HPX. The volume of total buy bids and sell bids was 8502.14 MU and 9762.04 MU, respectively in IEX; the same was 1.60 MU and 72.51 MU in PXIL, respectively. While the sell bids volume in HPX was 36.41 MU, no buy bids were received at 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 420.53 MU, while no volume was purchased by the neighbouring countries, under the Cross Border Trade of electricity through power exchange (Table-35(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 968.48 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 3034.85 MU and 1425.71 MU, respectively, in IEX. No bids were received in PXIL and HPX.

2.9. The volume of electricity transacted in the HP-DAM of IEX was 0.20 MU, while no electricity was transacted in the HP-DAM of PXIL and HPX. The volume of total buy bids and sell bids was 0.50 MU and 2602.89 MU, respectively, in IEX. No bids were received in PXIL and HPX.

2.10. The volume of electricity transacted in the RTM of IEX, PXIL and HPX was 3333.89 MU, 0.98 MU and 3.73 MU, respectively. The volume of total buy bids and sell bids was 6705.96 MU and 6395.80 MU, respectively in IEX, 3.98 MU and 2.62 MU in PXIL, & 16.98 MU and 5.95 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 28.79 MU, while no volume was purchased, under the Cross Border Trade of electricity through power exchange (Table-35(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 711.81 MU, 727.12 MU and 401.68 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 17.57 MU, 8.42 MU and 113.26 MU, respectively (Table-12, Table-13 & Table-14).

2.13. The volume of electricity transacted in the HP-TAM of IEX and PXIL was 2.21 MU and 16.06 MU, respectively. No electricity was transacted in HP-TAM of 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 \gtrless 2.73/kWh, \gtrless 10.00/kWh and \gtrless 6.60/kWh, respectively (Table-3). The weighted average sale prices were also computed for the electricity transacted during Round the Clock (RTC), Peak and Off-peak periods separately, and the sale prices were \gtrless 6.49/kWh, \gtrless 9.08/kWh and \gtrless 7.93/kWh, respectively (Table-4).

3.2. Price of electricity transacted through Power Exchanges: The minimum, maximum and weighted average prices for the electricity transacted in the DAM of IEX were ₹0.50/kWh, ₹10.00/kWh and ₹4.55/kWh, respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹1.01/kWh, ₹10.00/kWh and ₹4.29/kWh, respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the HP-DAM of IEX were ₹15.00/kWh, ₹15.00/kWh and ₹15.00/kWh, respectively (Table-7). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹0.30/kWh, ₹10.00/kWh and ₹4.30/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 ₹0.00/kWh, ₹10.00/kWh and ₹9.93/kWh, respectively (Table-8). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹7.40/kWh, ₹7.85/kWh and ₹7.80/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 ₹6.34/kWh, ₹4.49/kWh and ₹4.43/kWh, respectively (Table-12, Table-13) and Table-14). The weighted average price of electricity transacted in the HP-TAM of IEX and PXIL was ₹15.00/kWh and ₹15.00/kWh, respectively (Table-15 and Table-16). No electricity was transacted in DAM, G-DAM & HP-DAM of PXIL; and in DAM, G-DAM, HP-DAM & HP-TAM of HPX.

3.3. *DSM Charges:* The minimum, maximum and average charge under DSM was ₹0.60/kWh, ₹10.25/kWh and ₹5.42/kWh, respectively (Table-31).

3.4. The comparison of weighted average prices of electricity transacted through trading licensees and power exchanges (collective transactions) is shown in Figure-6. The daily prices of electricity transacted through various segments at power exchanges and their comparison are

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

4. Trading Margin

4.1. As per the CERC (Procedure, Terms and Conditions for grant of trading licence and other related matters) Regulations 2020, the trading licensees are allowed to charge a trading margin of not less than 0 paise/kWh and upto 7 paise/kWh. The weighted average trading margin charged by the trading licensees for bilateral transactions during the month was ₹0.019/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 31.59% of the volume, and these were Karnataka, Nepal, Jindal Power Ltd Stage II, Uttar Pradesh and Delhi. The HHI for sellers in DAM was 0.0360, which indicates non-concentration of market (Table-18). The top 5 regional entities/states purchased 68.28% of the volume, and these were Telangana, Gujarat, Punjab, Rajasthan and West Bengal. The HHI for buyers in DAM was 0.1856, which indicates moderate concentration of market (Table-19).

5.2. Of the total G-DAM transactions at power exchanges, the top 5 regional entities/states sold 46.55% of the volume, and these were Karnataka, Adani Renewable Energy Holding Four Ltd., Renew Surya Ojas Private Limited-Wind, Himachal Pradesh and Maharashtra. The HHI for sellers in G-DAM was 0.0684, which indicates non-concentration of market (Table-20). The top 5 regional entities/states purchased 75.10% of the volume, and these were Punjab, Bihar, Odisha, Maharashtra and Arcelor Mittal Nippon Steel Hazira. The HHI for buyers in G-DAM was 0.2408, which indicates moderate concentration of market (Table-21).

5.3. The total volume of HP-DAM transactions at power exchanges was sold by only 1 regional entities/states and it was Torrent Power 1147.5 MW Sugen CCPP Kamrej. The HHI for sellers in HP-DAM was 1.00, which indicates high concentration of market (Table-22). The total volume of HP-DAM transactions at power exchanges was purchased by only 1 regional entities/states and it was West Bengal. The HHI for buyers in HP-DAM was 1.00, which indicates high concentration of market (Table-23).

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.

5.4. Of the total RTM transactions at power exchanges, the top 5 regional entities/states sold 37.02% of the volume, and these were Tamil Nadu, Karnataka, Bihar, Delhi and Odisha. The HHI for sellers in RTM was 0.0435, which indicates non-concentration of market (Table-24). The top 5 regional entities/states purchased 58.55% of the volume, and these were Punjab, Rajasthan, Telangana, West Bengal and Uttar Pradesh. The HHI for buyers in RTM was 0.0880, which indicates non-concentration of market (Table-25).

5.5. The total volume of net transactions through power exchanges (Regional entity-wise), is shown in Table-26 & 30. The top 5 electricity selling regional entities/states of power exchange transactions were Karnataka, Nepal, Jindal Power Ltd Stage II, Delhi and Essar Power Limited. The top 5 electricity purchasing regional entities/states of power exchange transactions were Telangana, Punjab, Rajasthan, Gujarat and West Bengal.

5.6. Of the total under-drawal/ over-injection volume under DSM in July 2024, the top 5 regional entities/states accounted for 23.67% of the volume, and these were Gujarat, Maharashtra, Jammu & Kashmir, Tamil Nadu and Punjab (Table-32). The top 5 regional entities/states under DSM accounted for 22.17% of the total over-drawal/ under-injection volume, and these were NTPC Stations (Northern Region), Rajasthan, Tamil Nadu, NTPC Stations (Western Region) and NTPC Stations (Eastern Region) (Table-33).

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.

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

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 July 2024, congestion was experienced in DAM, G-DAM & RTM of IEX, in RTM of PXIL and RTM of HPX.

6.3. The volume of electricity that could not be cleared due to congestion in DAM, G-DAM & RTM of IEX was 0.74%, 1.49% and 2.22% respectively, of the unconstrained cleared volume. The volume of electricity that could not be cleared due to congestion in RTM of PXIL and HPX was 20.73% and 37.33% respectively, of the unconstrained cleared volume. In terms of time, congestion occurred was 14.72% in DAM, 7.59% in G-DAM, 18.68% in RTM of IEX, 0.20% in PXIL and 1.51% in RTM of HPX during the month. (Table-27).

7. Volume and Price of Renewable Energy Certificates (RECs)

7.1. The concept of Renewable Energy Certificates (RECs) seeks to address the mismatch between the availability of renewable energy and the requirement of the obligated entities to meet their renewable purchase obligation by purchasing green attributes of renewable energy remotely located in the form of RECs. The REC mechanism is a market-based instrument to promote renewable sources of energy and the development of the electricity market.

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

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

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.

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 July 2024 are shown in Table-34. The market clearing volume of RECs transacted on IEX, PXIL and HPX was 3150109, 2176332 and 1400, respectively. The weighted average market clearing price of these RECs was ₹122/MWh in IEX, ₹122/MWh in PXIL and ₹140/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 0.51, 0.38 and 0.0005 in IEX, PXIL and HPX, respectively.

7.6. The volume of RECs transacted through Trading Licensees in July 2024 was 44460. The weighted average trade price for the RECs transacted through traders was ₹150/MWh.

8. Inferences:

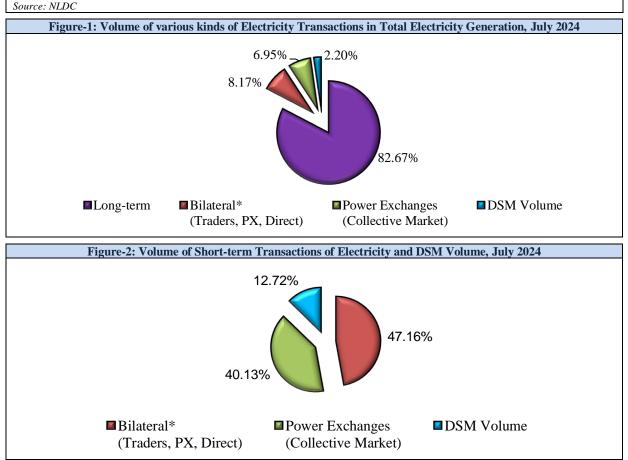
- a) The percentage of short-term transactions of electricity and DSM volume to total electricity generation was 17.33%.
- b) Of the total short-term transactions and DSM volume (23371.54 MU), 47.16% was transacted through bilateral (i.e. through Traders, Term-Ahead contracts on power exchanges and directly between entities), followed by 40.13% through power exchanges {DAM (including G-DAM & HP-DAM) and RTM}, and 12.72% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 53.09% of the volume was transacted in DAM (including G-DAM & HP-DAM), followed by 29.35% in RTM and 17.56% in Term Ahead Market (TAM) (including G-TAM & HP-TAM).
- d) The top 5 trading licensees had a share of 80.79% 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 0.1773, indicating moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹6.60/kWh.

- g) The weighted average price of electricity transacted in DAM of IEX was ₹4.55/kWh, while no electricity was transacted in DAM of PXIL and HPX. The weighted average price of electricity transacted in G-DAM of IEX was ₹4.29/kWh, while no electricity was transacted in G-DAM of PXIL and HPX. The weighted average price of electricity transacted in HP-DAM of IEX was ₹15.00/kWh, while no electricity was transacted in HP-DAM of PXIL and HPX. The weighted average price of electricity transacted in HP-DAM of PXIL and HPX. The weighted average price of electricity transacted in RTM of IEX, PXIL and HPX was ₹4.30/kWh, ₹10.00/kWh and ₹9.93/kWh, respectively.
- h) The weighted average price of electricity transacted in TAM of IEX, PXIL and HPX was ₹7.40/kWh, ₹7.85/kWh and ₹7.80/kWh, respectively. The weighted average price of electricity transacted in G-TAM of IEX, PXIL and HPX was ₹6.34/kWh, ₹4.49/kWh and ₹4.43/kWh, respectively. The weighted average price of electricity transacted in HP-TAM of IEX and PXIL was ₹15.00/kWh and ₹15.00/kWh, respectively.
- i) The average charge under DSM was ₹5.42/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.019/kWh.
- k) The top 5 electricity selling regional entities/states of power exchange transactions were Karnataka, Nepal, Jindal Power Ltd Stage II, Delhi and Essar Power Limited. The top 5 electricity purchasing regional entities/states of power exchange transactions were Telangana, Punjab, Rajasthan, Gujarat and West Bengal.
- The top 5 under-drawing/ over-injecting regional entities/states under DSM were Gujarat, Maharashtra, Jammu & Kashmir, Tamil Nadu and Punjab. The top 5 over-drawing/ underinjecting regional entities/states under DSM were NTPC Stations (Northern Region), Rajasthan, Tamil Nadu, NTPC Stations (Western Region) and NTPC Stations (Eastern Region).
- m) During the month of July 2024, congestion was experienced in DAM, G-DAM & RTM of IEX, in RTM of PXIL, and in RTM of HPX. The volume of electricity that could not be cleared due to congestion in DAM, G-DAM & RTM of IEX was 0.74%, 1.49% and 2.22% respectively, of the unconstrained cleared volume. The volume of electricity that could not

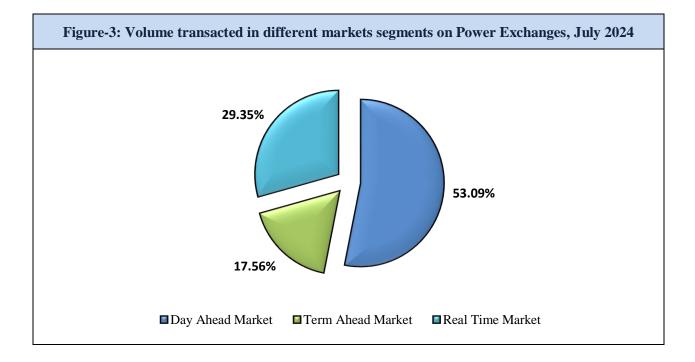
be cleared due to congestion in RTM of PXIL and HPX was 20.73% and 37.33% respectively, of the unconstrained cleared volume.

n) The market clearing volume of RECs transacted on IEX, PXIL and HPX was 3150109, 2176332 and 1400, respectively. The weighted average market clearing price of these RECs was ₹122/MWh in IEX, ₹122/MWh in PXIL and ₹140/MWh in HPX. The volume of RECs transacted through Trading Licensees in July 2024 was 44460. The weighted average trade price for the RECs transacted through traders was ₹150/MWh.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY AND DSM (ALL INDIA), JULY 2024				
Sr. No	Transaction	Volume (MU)	% to short-term transactions and DSM Volume	% to Total Generation
А	Short-term transactions			
1	Bilateral [*] (Traders, PX, Direct)	11021.06	47.16	8.17
2	Power Exchanges (Collective Market)	9377.91	40.13	6.95
	(i) IEX			
	(a) DAM	5070.64	21.70	3.76
	(b) RTM	3333.89	14.26	2.47
	(c) GDAM	968.48	4.14	0.72
	(d) HP-DAM	0.20	0.001	0.0001
	(ii) PXIL			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.98	0.004	0.0007
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	3.73	0.02	0.003
	(c) GDAM	0.00	0.00	0.00
	(d) HP-DAM	0.00	0.00	0.00
В	Through DSM	2972.57	12.72	2.20
Total Short-term transactions and DSM		23371.54	-	17.33
Fotal Ge	eneration	134849.67	-	-



^{*} 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 may be 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.



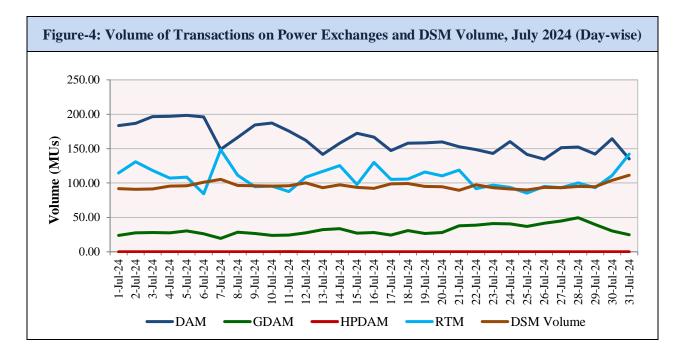


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, JULY 2024			
Sr. No	Name of the Trading Licensee	% Share in total Volume traded by Trading Licensees	
1	PTC India Ltd.	32.13	
2	NTPC Vidyut Vyapar Nigam Ltd.	19.20	
3	Adani Enterprises Ltd.	14.17	
4	Tata Power Trading Company (P) Ltd.	9.63	
5	Manikaran Power Ltd.	5.66	
6	Arunachal Pradesh Power Corporation (P) Ltd	5.14	
7	JSW Power Trading Company Ltd	2.54	
8	GMR Energy Trading Ltd.	2.51	
9	Instinct Infra & Power Ltd.	1.32	
10	Greenko Energies Pvt Ltd	1.27	
11	Statkraft Markets Pvt. Ltd.	1.01	
12	Kreate Energy (I) Pvt. Ltd.	0.92	
13	Shree Cement Ltd.	0.73	
14	Adarsh Stainless Pvt. Ltd.	0.66	
15	RPG Power Trading Company Ltd.	0.52	
16	Altilium Energie Private Limited	0.35	
17	Kundan International Pvt. Ltd.	0.31	
18	Ambitious Power Trading Company Ltd.	0.26	
19	Energyedge Power Trading Pvt. Ltd.	0.23	
20	Saranyu Power Trading Private Limited	0.21	
21	Ideal Energy Solution Pvt. Ltd.	0.16	
22	Abja Power Private Limited	0.16	
23	Refex Industries Ltd.	0.15	
24	Refex Energy Limited	0.11	
25	NLC India Ltd.	0.11	
26	SJVN Ltd.	0.09	
27	Powerfull Energy Trading Pvt. Ltd.	0.07	
28	Instant Ventures Pvt. Ltd.	0.06	
29	Elsa Consultancy	0.05	
30	Customized Energy Solutions India (P) Ltd.	0.05	
31	Shubheksha Advisors Pvt. Ltd.	0.05	
32	Gita Power & Infrastructure Private Limited	0.04	
33	Saini Power Transactor	0.04	
34	NEFA Power Trading Pvt. Ltd.	0.04	
35	Phillip Commodities India (P) Ltd.	0.03	
36	REL Power Trading LLP	0.02	
37	Shell Energy Marketing and Trading India Pvt. Ltd.	0.002	
38	Renesys Solar Pvt. Ltd.	0.002	
39	Reneurja Power LLP	0.0003	
	TOTAL	100.00%	
	Top 5 trading licensees	80.79%	
Herfindahl-Hirschman Index (HHI) 0.1773			
Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions (inter-state & intra-state) and the transactions undertaken			

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



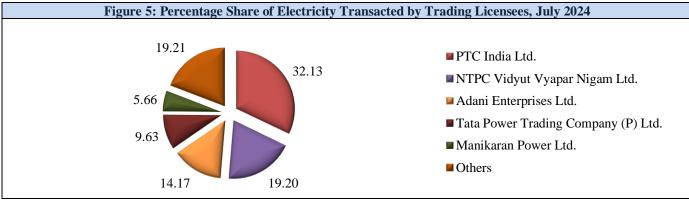


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JULY 2024				
Sr.No Item Sale Price of Traders (₹/kWh)				
1	Minimum	2.73		
2	Maximum	10.00		
3	Weighted Average	6.60		

Source: Information submitted by trading licensees

Tabl	Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JULY 2024			
Sr.No	Sr.NoPeriod of TradeSale Price of Traders (₹/kWh)			
1	RTC	6.49		
2	PEAK	9.08		
3	OFF PEAK	7.93		

Source: Information submitted by trading licensees

	Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET, JULY 2024				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)	
1	Minimum	0.50	-	-	
2	Maximum	10.00	-	-	
3	Weighted Average	4.55	-	-	
C 101		•	•		

Source: IEX, PXIL and HPX

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET, JULY 2024				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.01	-	-
2	Maximum	10.00	-	-
3	Weighted Average	4.29	-	-

Source: IEX, PXIL and HPX

Table-7: PRICE OF ELECTRICITY TRANSACTED IN HIGH PRICE DAY AHEAD MARKET, JULY 2024				
ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)	
Minimum	15.00	-	-	
Maximum	15.00	-	-	
Weighted Average	15.00	-	-	
	ACP Minimum Maximum	ACPPrice in IEX (₹/kWh)Minimum15.00Maximum15.00Weighted Average15.00	ACPPrice in IEX (₹/kWh)Price in PXIL (₹/kWh)Minimum15.00-Maximum15.00-Weighted Average15.00-	

Source: IEX, PXIL and HPX

	Table-8: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET, JULY 2024				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)	
1	Minimum	0.30	10.00	0.00	
2	Maximum	10.00	10.00	10.00	
3	Weighted Average	4.30	10.00	9.93	

Source: IEX, PXIL and HPX

Note: The Minimum ACP in RTM on HPX was Rs. 0.00/kWh on account of congestion in seller (export)side. The quantum that could be cleared after considering congestion was offered by the seller was at Rs. 0.00/kWh (Sell Bid). In the particular block, the ACP for Buyer bid area was Rs. 10/kWh (Upstream) while the ACP for Seller bid area was Rs. 0/kWh (Downstream). The difference of the Upstream and Downstream price constitutes the Congestion revenue. The particular case does not represent typical market conditions.

Tab	Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JULY 2024					
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)			
1	Intra-Day Contracts	18.85	10.00			
2	Day Ahead Contingency Contracts	355.03	8.48			
3	Daily Contracts	205.37	5.86			
4	Monthly Contracts	57.74	5.90			
5	Any Day Single Sided Contracts	74.81	7.03			
	Total	711.81	7.40			

Source: IEX

Table	Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JULY 2024		
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	63.14	9.86
2	Day Ahead Contingency Contracts	410.60	8.23
3	Daily Contracts	119.62	7.71
4	Monthly Contracts	59.78	5.90
5	Any Day Single Sided Contracts	73.97	5.84
	Total	727.12	7.85

Source: PXIL

Table	Table-11: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, JULY 2024		
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	19.78	10.00
2	Day Ahead Contingency Contracts	204.27	8.91
3	Daily Contracts	17.85	9.01
4	Any Day Single Sided Contracts	159.78	5.98
	Total	401.68	7.80

Source: HPX

	Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TAM OF IEX, JULY 2024		
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	9.39	6.33
2	Daily Contracts	8.18	6.35
	Total	17.57	6.34

Source: IEX

	Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TAM OF PXIL, JULY 2024		
Sr. No	o Green Term ahead contracts Actual Scheduled Volume (MU) Weighted Average Price (₹/kWh		
1	Day Ahead Contingency Contracts	8.42	4.49
	Total	8.42	4.49
CDV	11		

Source: PXIL

	Table-14: VOLUME AND PRICE	OF ELECTRICITY IN GREEN T.	AM OF HPX, JULY 2024
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	105.66	4.51
2	Daily Contracts	7.60	3.34
	Total	113.26	4.43

Source: HPX

	Table-15: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF IEX, JULY 2024		
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	1.11	15.00
2	Day Ahead Contingency Contracts	1.10	15.00
	Total	2.21	15.00

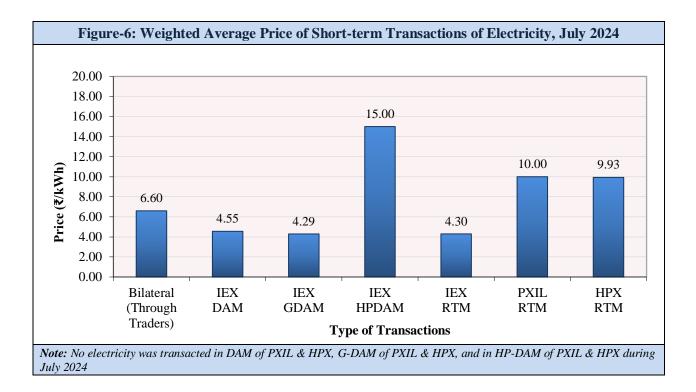
Source: IEX

	Table-16: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF PXIL, JULY 2024		
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	15.05	15.00
2	Day Ahead Contingency Contracts	1.01	15.00
	Total	16.06	15.00

Source: PXIL

	Table-17: VOLUME AND PRICE OF ELECTRICITY IN HIGH PRICE TAM OF HPX, JULY 2024		ГАМ OF HPX, JULY 2024
Sr. No	High Price Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
	No trade	0.00	-
	Total	0.00	-
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Source: HPX



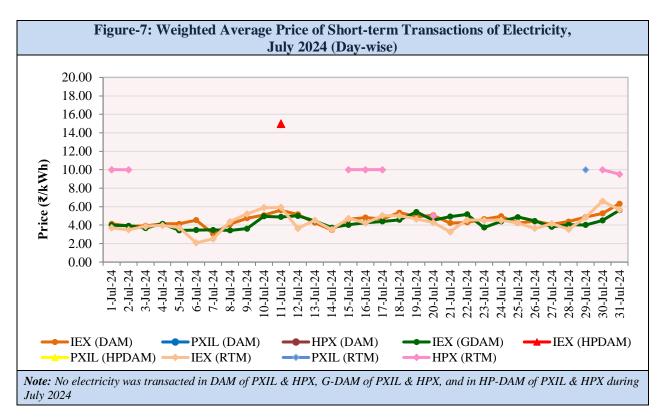


Table-18: VOLUME OF ELECTF	ICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Sale (MUs)	% of Volume	
KARNATAKA	578.66	11.41	
NEPAL(NVVN)	332.86	6.56	
JINDAL STAGE-II	252.89	4.99	
UTTAR PRADESH	238.06	4.69	
DELHI	199.48	3.93	
ESSAR POWER	198.67	3.92	
ODISHA	181.19	3.57	
ASSAM	170.15	3.36	
NTPC STATIONS-ER	154.07	3.04	
HIMACHAL PRADESH	145.16	2.86	
JINDAL POWER	140.73	2.78	
KARCHAM WANGTOO	117.48	2.32	
JAYPEE NIGRIE	113.90	2.25	
DB POWER	106.21	2.09	
AD HYDRO	104.52	2.06	
ARTPP	100.88	1.99	
CHHATTISGARH	100.70	1.99	
HARYANA	88.93	1.75	
GUJARAT	86.59	1.71	
ANDHRA PRADESH	85.98	1.70	
RAIGARH ADANI	79.11	1.56	
DCPP	67.25	1.33	
NPGC	65.07	1.28	
SKS POWER	63.47	1.25	
MP	61.00	1.20	
RAJASTHAN	57.95	1.14	
SEMBCORP	57.40	1.14	
ADANI WIND	46.41	0.92	
MAHARASHTRA	40.41	0.92	
		0.89	
RENEW_SPRATAP	42.98		
RENEW_SOJAS	42.12	0.83	
BASOCHHU HEP	38.58	0.76	
SAINJ HEP	38.28	0.75	
BIHAR	38.22	0.75	
SORANG HEP	37.67	0.74	
TAMIL NADU	36.68	0.72	
ACBIL	36.03	0.71	
SHREE CEMENT	35.45	0.70	
IBEUL	33.29	0.66	
ASEJTL_SLR	32.28	0.64	
ADANI_4RE	31.39	0.62	
RENEW_SR_SLR	30.98	0.61	
RKM POWER	28.82	0.57	
ADEPT	28.54	0.56	
NEP	27.77	0.55	
MIZORAM	25.59	0.50	
JITPL	22.97	0.45	
NTPC STATIONS-NR	22.27	0.44	
NIKACHHU HEP	21.32	0.42	
DEVKOOT_SLR	20.97	0.41	
NTPC STATIONS-SR	20.58	0.41	
DVC	20.06	0.40	
KBUNL	19.86	0.39	
MARUTI COAL	19.40	0.38	

ARUNACHAL PRADESH	18.27	0.36
ONEVOLT	17.42	0.34
ADANI GREEN_25B (INFIRM)	16.13	0.32
WEST BENGAL	15.35	0.30
CHANDIGARH	14.27	0.28
OSTRO Hiriyur	12.79	0.25
BALCO	12.49	0.25
MEGHALAYA	11.82	0.23
SIMHAPURI	10.12	0.20
BRBCL,NABINAGAR	9.28	0.18
ADANI S RJ2	8.96	0.18
LANCO BUDHIL	8.66	0.17
GOA	8.54	0.17
TELANGANA	7.96	0.16
KERALA	7.62	0.15
NTPC STATIONS-NER	7.18	0.14
PONDICHERRY	7.07	0.14
RENERGY5 WIND	6.56	0.13
SINGOLI BHATWARI HEP	6.27	0.12
ADANIRE 41 (INFIRM)	6.07	0.12
IL&FS	5.45	0.11
NHPC STATIONS	5.39	0.11
MB POWER	5.10	0.10
EMCO	4.34	0.09
IGSTPS	4.05	0.08
NAGALAND	3.98	0.08
ADANI W KUTCHH4 (INFIRM)	3.95	0.08
J&K	3.84	0.08
ONGC PALATANA	3.56	0.07
TPSL BANDERWALA	3.50	0.07
ADANI GREEN 26B (INFIRM)	3.43	0.07
ADANIRE_55 (INFIRM)	3.42	0.07
UTTARAKHAND	3.30	0.07
ADANI GREEN 25A (INFIRM)	2.80	0.06
TESPL	2.66	0.05
DHARIWAL POWER	2.17	0.04
SIKKIM	1.62	0.03
NLC	0.83	0.02
NTPC STATIONS-WR	0.68	0.01
JHABUA POWER_MP	0.60	0.01
DGEN MEGA POWER	0.52	0.01
SERENTICA RE1 (INFIRM)	0.20	0.004
GMR KAMALANGA	0.14	0.003
NANI VIRANI_W	0.13	0.003
ADANI GREEN_26A (INFIRM)	0.11	0.002
COASTGEN	0.11	0.002
MTPS	0.11	0.002
JHARKHAND	0.04	0.001
NEEPCO STATIONS	0.02	0.0003
Total	5070.64	100.00
Volume sold by top 5 Regional Entities	1601.95	31.59
Herfindahl-Hirschman		0.0360
	пписа	0.0500

Cable-19: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGHPOWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
TELANGANA	1985.26	39.15
GUJARAT	522.56	10.31
PUNJAB	380.15	7.50
RAJASTHAN	290.92	5.74
WEST BENGAL	283.28	5.59
UTTAR PRADESH	261.52	5.16
DD&DNH	259.10	5.11
TAMIL NADU	196.60	3.88
ANDHRA PRADESH	153.90	3.04
HARYANA	114.01	2.25
CHHATTISGARH	91.38	1.80
KERALA	85.48	1.69
UTTARAKHAND	85.10	1.68
MAHARASHTRA	77.46	1.53
MP	46.75	0.92
HIMACHAL PRADESH	38.10	0.75
KARNATAKA	34.77	0.69
ODISHA	26.70	0.53
BIHAR	22.33	0.44
NCR ALLAHABAD	21.99	0.43
DELHI	18.30	0.36
AMPS Hazira	14.11	0.28
GOA	14.10	0.28
ASSAM	10.98	0.22
SIKKIM	10.53	0.21
JHARKHAND	9.04	0.18
CHANDIGARH	7.10	0.14
TRIPURA	4.88	0.10
MEGHALAYA	1.66	0.03
DVC	1.36	0.03
BALCO	0.99	0.02
PONDICHERRY	0.14	0.00
JHABUA POWER_MP	0.09	0.00
TOTAL	5070.64	100.00
Volume purchased by top 5 Regional Entities	3462.17	68.28
Herfindahl-Hirschma	nn Index	0.1856

Name of the Entity	Volume of Sale (MUs)	% of Volume
KARNATAKA	176.23	18.20
ADANI 4RE	90.77	9.37
RENEW_SOJAS	79.42	8.20
HIMACHAL PRADESH	52.78	5.45
MAHARASHTRA	51.64	5.33
ASEJTL SLR	46.75	4.83
ADANI GREEN_25B (INFIRM)	46.09	4.76
ADANI WIND	38.03	3.93
MEGHALAYA	34.35	3.55
ANDHRA PRADESH	30.97	3.20
TPSL BANDERWALA	30.37	3.14
OSTRO Hiriyur	24.70	2.55
MP	23.81	2.46
RISING SLR	21.11	2.18
UTTAR PRADESH	17.95	1.85
UTTARAKHAND	17.64	1.82
AYANA RP3	17.36	1.79
ADANIRE_41 (INFIRM)	17.31	1.79
J&K	15.15	1.56
WEST BENGAL	14.10	1.46
TESPL	12.33	1.40
ADANIRE_55 (INFIRM)	10.35	1.07
SINGOLI BHATWARI HEP	9.64	1.00
ADANI GREEN_26B (INFIRM)	9.52	0.98
AMPLUS AGES	9.49	0.98
SIKKIM	8.84	0.90
ADANI_W_KUTCHH4 (INFIRM)	8.55	0.88
CONTINNUM PT	7.70	0.80
RENEW_SR_SLR	7.65	0.79
RAJASTHAN	7.45	0.77
JSW RENEW 2	6.96	0.72
ADANI GREEN 25A (INFIRM)	6.47	0.67
RENERGY5_WIND	5.30	0.55
NANI VIRANI W	4.14	0.43
DELHI	2.41	0.25
NTPC STATIONS-SR	2.29	0.23
SERENTICA RE1 (INFIRM)	1.26	0.13
SORANG HEP	1.20	0.13
ADANI GREEN_26A (INFIRM)	0.37	0.04
Total	968.48	100.00
Volume sold by top 5 Regional Entities	450.85	46.55
* * 0		
Herfindahl-Hirschman	n Index	0.0684

Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	448.10	46.27
BIHAR	80.62	8.32
ODISHA	74.35	7.68
MAHARASHTRA	62.16	6.42
AMPS Hazira	62.13	6.42
JHARKHAND	34.01	3.51
TAMIL NADU	33.71	3.48
DVC	31.98	3.30
GUJARAT	19.41	2.00
NCR ALLAHABAD	19.26	1.99
KARNATAKA	18.22	1.88
CHHATTISGARH	16.61	1.71
HARYANA	12.06	1.25
UTTAR PRADESH	11.89	1.23
TELANGANA	11.30	1.17
KERALA	9.65	1.00
ANDHRA PRADESH	9.23	0.95
DELHI	6.45	0.67
MP	5.35	0.55
BALCO	1.87	0.19
DD&DNH	0.10	0.01
GOA	0.01	0.001
TOTAL	968.48	100.00
Volume purchased by top 5 Regional Entities	727.36	75.10
Herfindahl-Hi	rschman Index	0.2408

Table-21: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKETTHROUGH POWER EXCHANGES, JULY 2024

Table-22: VOLUME OF ELECTRICITY SOLD IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Sale (MUs)	% of Volume
GUJARAT (Torrent Power 1147.5 MW Sugen CCPP Kamrej)	0.20	100.00
TOTAL	0.20	100.00
Volume sold by top 5 Regional Entities	0.20	100.00
Herfindahl-Hirschman Index 1.0000		

Source: NLDC & IEX

Table-23: VOLUME OF ELECTRICITY PURCHASED IN HIGH PRICE DAY AHEAD MARKET THROUGH POWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
WEST BENGAL	0.20	100.00
TOTAL	0.20	100.00
Volume purchased by top 5 Regional Entities	0.20	100.00
Herfindahl-Hirschman Index1.0000		1.0000

Table-24: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Sale (MUs)	% of Volume
TAMIL NADU	419.44	12.56
KARNATAKA	280.27	8.39
BIHAR	204.31	6.12
DELHI	167.63	5.02
ODISHA	164.38	4.92
HARYANA	154.82	4.64
ANDHRA PRADESH	137.54	4.12
UTTAR PRADESH	117.25	3.51
MP	102.74	3.08
CHHATTISGARH	102.24	3.06
NTPC STATIONS-WR	89.00	2.67
HIMACHAL PRADESH	83.30	2.50
TELANGANA	73.36	2.20
NTPC STATIONS-NR	57.71	1.73
MAHARASHTRA	56.45	1.69
NTPC STATIONS-ER	54.10	1.62
ASSAM	53.49	1.60
WEST BENGAL	44.22	1.32
GUJARAT	42.95	1.32
RENEW_SOJAS	41.24	1.24
NTPC STATIONS-SR	40.25	1.24
RAJASTHAN	38.91	1.17
J & K	32.92	0.99
JHARKHAND	32.92	0.97
PUNJAB	30.37	0.91
ARUNACHAL PRADESH	28.62	0.86
UTTARAKHAND	28.02	0.84
MTPS	27.93	0.81
ADANI_4RE	26.79	0.80
DVC	25.14	0.75
TESPL	23.14	0.73
SEMBCORP	24.74	0.68
NEPAL(NVVN)	22.54	0.68
ADANI GREEN 25B (INFIRM)	21.20	0.63
NLC	21.18	
ESSAR POWER		0.63
	20.46	0.61
ARTPP	19.22	0.58
JINDAL STAGE-II	18.87	0.57
KERALA SKS DOWED	18.20	0.54
SKS POWER	17.61	0.53
RENEW_ROSHNI	16.80	0.50
ADHUNIK POWER LTD	16.50	0.49
SERENTICA RE1 (INFIRM)	16.12	0.48
RKM POWER	15.62	0.47
BALCO	14.96	0.45
MEENAKSHI	14.87	0.45
NPGC	13.65	0.41
PONDICHERRY	12.21	0.37
MANIPUR	10.85	0.32
NREL_DAYAPAR (W)	10.15	0.30
AD HYDRO	9.87	0.30
ADANI_WIND	9.76	0.29
DB POWER	8.67	0.26
SORANG HEP	8.55	0.26
OSTRO Hiriyur	8.37	0.25
ADANIRE_41 (INFIRM)	8.31	0.25
SASAN UMPP	8.11	0.24
SHREE CEMENT	7.34	0.22
KARCHAM WANGTOO	6.96	0.21
NEP	6.82	0.20

RAIGARH_ADANI	6.79	0.20
RENEW_SR_SLR	6.70	0.20
DCPP	6.66	0.20
TRIPURA	6.50	0.19
NETCL VALLUR	5.99	0.18
DEVKOOT_SLR	5.93	0.18
NTPC STATIONS-NER	5.88	0.18
ACBIL	5.81	0.17
MB POWER	5.69	0.17
SIKKIM	5.67	0.17
ASEJTL_SLR	5.00	0.15
NEEPCO STATIONS JINDAL POWER	4.75	0.14 0.14
NOKHRA_STPP	4.72	0.14
GRIAN	4.68	0.14
ONGC PALATANA	4.64	0.14
IGSTPS	4.50	0.14
SERENTICA RE4	4.35	0.13
RAPP 7&8	4.13	0.12
AMP_GREEN6	3.70	0.12
TPSL BANDERWALA	3.18	0.10
TRN ENERGY	2.84	0.09
GOA	2.64	0.08
NAGALAND	2.59	0.08
MAITHON POWER LTD	2.47	0.07
SIMHAPURI	2.35	0.07
AYANA_RP3	2.08	0.06
ADANIRE_55 (INFIRM)	2.06	0.06
JITPL	1.96	0.06
CHANDIGARH	1.92	0.06
MARUTI COAL	1.87	0.06
JORETHANG	1.61	0.05
SINGOLI BHATWARI HEP	1.59	0.05
ALTRA XERGI	1.43	0.04
BRBCL,NABINAGAR	1.41	0.04
DGEN MEGA POWER SAINJ HEP	1.38	0.04
DD&DNH	1.37	0.04
MEGHALAYA	1.20	0.04
AMPLUS_AGES	1.13	0.03
LANCO BUDHIL	0.94	0.03
DHARIWAL POWER	0.93	0.03
IBEUL	0.86	0.03
TASHIDENG HEP	0.73	0.02
RENEW_SPRATAP	0.58	0.02
BASOCHHU HEP	0.58	0.02
JHABUA POWER_MP	0.51	0.02
IL&FS	0.46	0.01
EMCO	0.35	0.01
RENERGY5_WIND	0.29	0.01
JAYPEE NIGRIE	0.20	0.01
NANI VIRANI_W	0.15	0.004
CHUZACHEN HEP	0.13	0.004
NIKACHHU HEP	0.13	0.004
ADANI GREEN_25A (INFIRM)	0.11	0.003
MIZORAM GMR KAMALANGA	0.09	0.003
GMR KAMALANGA ADANI_W_KUTCHH4 (INFIRM)	0.06	0.002
Total	3338.59	100.00
Volume sold by top 5 Regional Entities	1236.03	37.02
Herfindahl-Hirschma	n Index	0.0435
Source: NLDC		

Table-25: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JULY 2024		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	604.97	18.12
RAJASTHAN	489.19	14.65
TELANGANA	365.77	10.96
WEST BENGAL	259.54	7.77
UTTAR PRADESH	235.16	7.04
MAHARASHTRA	129.31	3.87
TAMIL NADU	124.32	3.72
KERALA	121.32	3.63
BIHAR	115.60	3.46
GUJARAT	95.92	2.87
HIMACHAL PRADESH	92.31	2.76
HARYANA	91.54	2.74
ANDHRA PRADESH	87.17	2.61
DELHI	79.21	2.37
ASSAM	79.21	2.37
ASSAM MP	62.27	2.18
UTTARAKHAND	61.25	1.83
ODISHA CHILLATTING CADIL	47.18	1.41
CHHATTISGARH	32.60	0.98
DVC	31.58	0.95
JHARKHAND	24.99	0.75
DD&DNH	19.28	0.58
TRIPURA	15.62	0.47
KARNATAKA	10.45	0.31
AMPS Hazira	9.10	0.27
LANKO KONDAPALLI	8.13	0.24
ESSAR POWER	7.78	0.23
MANIPUR	6.34	0.19
SKS POWER	5.32	0.16
BALCO	4.36	0.13
NCR ALLAHABAD	4.22	0.13
MB POWER	3.58	0.11
MEGHALAYA	3.56	0.11
GOA	3.55	0.11
RAIGARH_ADANI	2.70	0.08
DCPP	2.70	0.08
CHANDIGARH	1.64	0.05
NTPC STATIONS-WR	1.22	0.04
JHABUA POWER_MP	1.11	0.03
SIKKIM	1.07	0.03
SAINJ HEP	0.88	0.03
RGPPL_IR	0.60	0.02
J & K	0.57	0.02
ACBIL	0.51	0.02
PONDICHERRY	0.44	0.01
JINDAL POWER	0.05	0.002
ARUNACHAL PRADESH	0.02	0.001
TOTAL	3338.59	100.00
Volume purchased by top 5 Regional		
Entities	1954.62	58.55
Herfindahl-Hirsch	mon Indov	0.0880
Source: NLDC	inan muex	0.0000

Tal	Table-26: TOTAL VOLUME OF NET TRANSACTIONS THROUGH POWER EXCHANGES (REGIONAL ENTITY-WISE), JULY 2024		
S. No.	S. Name of the Entity. Total volume of net transactions th		
1	TELANGANA	2281.01	
2	PUNJAB	1402.85	
3	RAJASTHAN	675.80	
4	GUJARAT	508.15	
5	WEST BENGAL	469.34	
6	DD&DNH	277.22	
7	KERALA	190.54	
8	UTTAR PRADESH	135.31	
9	MAHARASHTRA	115.95	
10	UTTARAKHAND	97.46	
11	AMPS Hazira	85.34	
12	NCR ALLAHABAD	45.47	
13	JHARKHAND	35.58	
14	DVC	19.72	
15	TRIPURA	13.99	
16	LANKO KONDAPALLI	8.13	
17	GOA	6.48	
18	RGPPL IR	0.60	
19	JHABUA POWER_MP	0.09	
20	COASTGEN	-0.11	
21	CHUZACHEN HEP	-0.13	
22	GMR KAMALANGA	-0.20	
23	ADANI GREEN 26A (INFIRM)	-0.49	
24	TASHIDENG HEP	-0.73	
25	ALTRA XERGI	-1.43	
26	JORETHANG	-1.61	
27	DGEN MEGA POWER	-1.90	
28	MAITHON POWER LTD	-2.47	
29	TRN ENERGY	-2.84	
30	DHARIWAL POWER	-3.10	
31	AMP GREEN6	-3.70	
32	RAPP 7&8	-4.13	
33	ANDHRA PRADESH	-4.19	
34	SERENTICA RE4	-4.35	
35	NANI VIRANI W	-4.42	
36	MANIPUR	-4.50	
37	SIKKIM	-4.53	
38	GRIAN	-4.68	
39	NOKHRA STPP	-4.69	
40	EMCO	-4.70	
40	NEEPCO STATIONS	-4.77	
42	NHPC STATIONS	-5.39	
43	IL&FS	-5.91	
44	NETCL VALLUR	-5.99	
45	NAGALAND	-6.57	
46	JSW RENEW_2	-6.96	
40	MB POWER	-0.90	
48	CHANDIGARH	-7.45	
49	CONTINNUM PT	-7.70	
50	SASAN UMPP	-7.70	
51	ONGC PALATANA	-8.19	
52	IGSTPS	-8.55	
53	ADANI_S_RJ2	-8.96	
54	ADANI_S_KJ2 ADANI GREEN_25A (INFIRM)	-8.20	
55	LANCO BUDHIL	-9.38 -9.59	
55		-9.39	

50		10.15
56	NREL_DAYAPAR (W)	-10.15
57	AMPLUS_AGES	-10.62
58	BRBCL,NABINAGAR	-10.69
59	RENERGY5_WIND	-12.16
60	SIMHAPURI	-12.47
61	ADANI_W_KUTCHH4 (INFIRM)	-12.50
62	ADANI GREEN_26B (INFIRM)	-12.95
63	NTPC STATIONS-NER	-13.06
64	MEENAKSHI	-14.87
65	ADANIRE_55 (INFIRM)	-15.82
66	ADHUNIK POWER LTD	-16.50
67	RENEW_ROSHNI	-16.80
68	ONEVOLT	-17.42
69	SINGOLI BHATWARI HEP	-17.50
70	SERENTICA RE1 (INFIRM)	-17.58
71	PONDICHERRY	-18.70
72	AYANA_RP3	-19.45
73	KBUNL	-19.86
74	BALCO	-20.24
75	RISING_SLR	-21.11
76	MARUTI COAL	-21.28
77	NIKACHHU HEP	-21.45
78	NLC	-21.72
79	BIHAR	-23.98
80	JITPL	-24.93
81	MIZORAM	-25.68
82	HARYANA	-26.14
83	DEVKOOT_SLR	-26.90
84	MTPS ADEPT	-27.20
85		-28.54
86	ADANIRE_41 (INFIRM)	-31.69
87 88	IBEUL NEP	-34.15
89	TPSL BANDERWALA	-34.59
<u>89</u> 90	SAINJ HEP	-37.06 -38.76
90 91	BASOCHHU HEP	-39.16
91	TESPL	-39.73
92	ACBIL	
		-41.34
94	MEGHALAYA SUBEE CEMENT	-42.13
95 96	SHREE CEMENT RENEW SPRATAP	-42.79 -43.56
97 98	RKM POWER RENEW_SR_SLR	-44.45 -45.33
98 99	OSTRO Hiriyur	-45.86
100	ARUNACHAL PRADESH	-45.80 -46.86
100	SORANG HEP	-40.80
101	J & K	-47.42 -51.34
102	CHHATTISGARH	-51.54 -62.35
103	NTPC STATIONS-SR	-62.55
104	DCPP	-65.12 -71.21
105	MP MP	-71.21 -73.18
100	SKS POWER	-75.76
107	NPGC	-73.70 -78.73
108	SEMBCORP	-78.75
1109	NTPC STATIONS-NR	-79.94 -79.98
110	RAIGARH_ADANI	-79.98 -83.21
111	ADANI GREEN_25B (INFIRM)	-83.40
112	ADANI GREEN_23B (INFIRM) ASEJTL_SLR	-85.40 -84.03
113	NTPC STATIONS-WR	-84.05 -88.46
114	ADANI_WIND	
115		-94.21

116 TAMIL NADU -101.48 117 JAYPEE NIGRIE -114.10 118 AD HYDRO -114.39 119 DB POWER -114.88 120 ARTPP -120.10 121 KARCHAM WANGTOO -124.44 122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -146.78 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges (-) indicates sule and (+) indicates purchase									
118 AD HYDRO -114.39 119 DB POWER -114.88 120 ARTPP -120.10 121 KARCHAM WANGTOO -124.44 122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -201.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72	116	TAMIL NADU	-101.48						
119 DB POWER -114.88 120 ARTPP -120.10 121 KARCHAM WANGTOO -124.44 122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -145.40 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72	117	JAYPEE NIGRIE	-114.10						
120 ARTPP -120.10 121 KARCHAM WANGTOO -124.44 122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -145.40 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -201.34	118	AD HYDRO	-114.39						
121 KARCHAM WANGTOO -124.44 122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -271.76	119	DB POWER	-114.88						
122 ASSAM -139.97 123 JINDAL POWER -145.40 124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -	120	ARTPP	-120.10						
123 JINDAL POWER -145.40 124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -208.17	121	KARCHAM WANGTOO	-124.44						
124 ADANI_4RE -148.95 125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -	122	ASSAM	-139.97						
125 HIMACHAL PRADESH -150.83 126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -	123	JINDAL POWER	-145.40						
126 RENEW_SOJAS -162.78 127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -	124	ADANI_4RE	-148.95						
127 ODISHA -197.34 128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -271.76	125	HIMACHAL PRADESH	-150.83						
128 NTPC STATIONS-ER -208.17 129 ESSAR POWER -211.34 130 DELHI -265.55 131 JINDAL STAGE-II -271.76 132 NEPAL(NVVN) -354.13 133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -	126	RENEW_SOJAS	-162.78						
129ESSAR POWER-211.34130DELHI-265.55131JINDAL STAGE-II-271.76132NEPAL(NVVN)-354.13133KARNATAKA-971.72* Total net includes net of transactions of electricity through various segments on power exchanges	127	ODISHA	-197.34						
130DELHI-265.55131JINDAL STAGE-II-271.76132NEPAL(NVVN)-354.13133KARNATAKA-971.72* Total net includes net of transactions of electricity through various segments on power exchanges	128	NTPC STATIONS-ER	-208.17						
131JINDAL STAGE-II-271.76132NEPAL(NVVN)-354.13133KARNATAKA-971.72* Total net includes net of transactions of electricity through various segments on power exchanges	129	ESSAR POWER	-211.34						
132NEPAL(NVVN)-354.13133KARNATAKA-971.72* Total net includes net of transactions of electricity through various segments on power exchanges	130	DELHI	-265.55						
133 KARNATAKA -971.72 * Total net includes net of transactions of electricity through various segments on power exchanges -971.72	131	JINDAL STAGE-II	-271.76						
* Total net includes net of transactions of electricity through various segments on power exchanges	132	NEPAL(NVVN)	-354.13						
	133	133 KARNATAKA -971.72							
(-) indicates sale and (+) indicates purchase	* Total	* Total net includes net of transactions of electricity through various segments on power exchanges							
	(-) indie	(-) indicates sale and (+) indicates purchase							

	Table-27: DETAILS OF CONGESTION IN POWER EXCHANGES, JULY 2024												
	Details of Congestion	Day Ahead Market		1	Green Day Ahead Market		Hig	h Price l ead Mar	Day	Real Time Market			
	,	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX
1	Unconstrained Cleared Volume (MUs)	5108.28	0.00	0.00	983.14	0.00	0.00	0.20	0.00	0.00	3409.63	1.23	5.95
2	Actual Cleared Volume and hence scheduled (MUs)	5070.64	0.00	0.00	968.48	0.00	0.00	0.20	0.00	0.00	3333.89	0.98	3.73
3	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	37.65	0.00	0.00	14.66	0.00	0.00	0.00	0.00	0.00	75.74	0.26	2.22
4	Volume of electricity that could not be cleared and hence not scheduled because of reasons other than congestion (MUs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.74%	0.00%	0.00%	1.49%	0.00%	0.00%	0.00%	0.00%	0.00%	2.22%	20.73%	37.33%
6	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/ Total number of hours in the month)	14.72%	0.00%	0.00%	7.59%	0.00%	0.00%	0.00%	0.00%	0.00%	18.68%	0.20%	1.51%
7	Congestion occurrence (%)	time bloc	k wise	1	1		1	1	1	1	1	1	1
	0.00 - 6.00 hours	52.05%	0.00%	0.00%	41.59%	0.00%	0.00%	0.00%	0.00%	0.00%	52.88%	33.33%	22.22%
	6.00 - 12.00 hours	6.39%	0.00%	0.00%	16.37%	0.00%	0.00%	0.00%	0.00%	0.00%	8.63%	0.00%	0.00%
	12.00 - 18.00 hours	30.14%	0.00%	0.00%	33.19%	0.00%	0.00%	0.00%	0.00%	0.00%	5.40%	0.00%	0.00%
	18.00 - 24.00 hours	11.42%	0.00%	0.00%	8.85%	0.00%	0.00%	0.00%	0.00%	0.00%	33.09%	66.67%	77.78%
* 2	* This power would have been scheduled had there been no congestion												

Source: IEX, PXIL, HPX & NLDC

Tal	Table-28: VOLUME OF TRANSACTIONS THROUGH POWER EXCHANGES (DAY-WISE) (MUs), JULY 2024												
Date	Day Ahead Market [#]			Green Day Ahead Market [#]		High Price DAM [#]		Real Time Market [#]			Total Electricity - Generation		
	IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	нрх	IEX	PXIL	HPX	(MU) *
1-Jul-24	183.67	0.00	0.00	23.60	0.00	0.00	0.00	0.00	0.00	113.83	0.00	0.53	4182.87
2-Jul-24	186.64	0.00	0.00	27.40	0.00	0.00	0.00	0.00	0.00	130.85	0.00	0.25	4070.39
3-Jul-24	196.37	0.00	0.00	27.79	0.00	0.00	0.00	0.00	0.00	118.38	0.00	0.00	4070.04
4-Jul-24	196.89	0.00	0.00	27.53	0.00	0.00	0.00	0.00	0.00	107.09	0.00	0.00	4170.67
5-Jul-24	198.35	0.00	0.00	30.21	0.00	0.00	0.00	0.00	0.00	108.41	0.00	0.00	4692.09
6-Jul-24	196.18	0.00	0.00	26.32	0.00	0.00	0.00	0.00	0.00	84.31	0.00	0.00	3871.87
7-Jul-24	149.13	0.00	0.00	19.47	0.00	0.00	0.00	0.00	0.00	148.40	0.00	0.00	3881.37
8-Jul-24	166.05	0.00	0.00	28.66	0.00	0.00	0.00	0.00	0.00	111.23	0.00	0.00	4380.96
9-Jul-24	184.61	0.00	0.00	26.41	0.00	0.00	0.00	0.00	0.00	94.59	0.00	0.00	4513.68
10-Jul-24	187.43	0.00	0.00	23.86	0.00	0.00	0.00	0.00	0.00	95.33	0.00	0.00	4549.51
11-Jul-24	175.36	0.00	0.00	24.51	0.00	0.00	0.20	0.00	0.00	87.70	0.00	0.00	4513.07
12-Jul-24	162.21	0.00	0.00	27.57	0.00	0.00	0.00	0.00	0.00	108.59	0.00	0.00	4277.47
13-Jul-24	141.56	0.00	0.00	32.34	0.00	0.00	0.00	0.00	0.00	117.07	0.00	0.00	4230.39
14-Jul-24	157.83	0.00	0.00	33.38	0.00	0.00	0.00	0.00	0.00	125.29	0.00	0.00	4207.55
15-Jul-24	172.50	0.00	0.00	27.16	0.00	0.00	0.00	0.00	0.00	97.06	0.00	0.65	4522.85
16-Jul-24	166.80	0.00	0.00	27.91	0.00	0.00	0.00	0.00	0.00	128.41	0.00	1.50	4495.28
17-Jul-24	147.30	0.00	0.00	24.29	0.00	0.00	0.00	0.00	0.00	105.45	0.00	0.04	4532.26
18-Jul-24	157.81	0.00	0.00	30.58	0.00	0.00	0.00	0.00	0.00	105.59	0.00	0.00	4517.07
19-Jul-24	158.21	0.00	0.00	26.66	0.00	0.00	0.00	0.00	0.00	116.13	0.00	0.00	4430.32
20-Jul-24	159.60	0.00	0.00	27.90	0.00	0.00	0.00	0.00	0.00	110.62	0.00	0.00	4504.19
21-Jul-24	152.93	0.00	0.00	37.98	0.00	0.00	0.00	0.00	0.00	118.91	0.00	0.00	4323.76
22-Jul-24	148.49	0.00	0.00	38.56	0.00	0.00	0.00	0.00	0.00	91.82	0.00	0.00	4432.50
23-Jul-24	142.85	0.00	0.00	40.82	0.00	0.00	0.00	0.00	0.00	97.11	0.00	0.00	4370.09
24-Jul-24	160.13	0.00	0.00	40.70	0.00	0.00	0.00	0.00	0.00	93.75	0.00	0.00	4261.65
25-Jul-24	141.62	0.00	0.00	36.66	0.00	0.00	0.00	0.00	0.00	85.19	0.00	0.00	4235.49
26-Jul-24	134.63	0.00	0.00	41.53	0.00	0.00	0.00	0.00	0.00	95.00	0.00	0.00	4218.14
27-Jul-24	151.54	0.00	0.00	44.56	0.00	0.00	0.00	0.00	0.00	93.27	0.00	0.00	4264.14
28-Jul-24	152.43	0.00	0.00	49.52	0.00	0.00	0.00	0.00	0.00	100.10	0.00	0.00	4295.80
29-Jul-24	141.87	0.00	0.00	39.51	0.00	0.00	0.00	0.00	0.00	92.16	0.98	0.00	4581.69
30-Jul-24	164.43	0.00	0.00	30.27	0.00	0.00	0.00	0.00	0.00	110.60	0.00	0.25	4687.10
31-Jul-24	135.21	0.00	0.00	24.84	0.00	0.00	0.00	0.00	0.00	141.64	0.00	0.51	4565.41
Total	5070.64	0.00	0.00	968.48	0.00	0.00	0.20	0.00	0.00	3333.89	0.98	3.73	134849.67
Source: NLI		117 1 ·				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 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.

Market Segment	Day Al	nead Market	of IEX	Day Ah	ead Market o	of PXIL	Day Ah	ead Market o	of HPX
Date	Minimum ACP	Maximum ACP	WA Price*	Minimum ACP	Maximum ACP	WA Price*	Minimum ACP	Maximum ACP	WA Price*
1-Jul-24	2.00	10.00	4.15	-	-	-	-	-	
2-Jul-24	1.50	10.00	3.91	-	-	-	-	-	
3-Jul-24	1.50	10.00	3.91	-	-	-	-	-	
4-Jul-24	1.50	10.00	4.14	-	-	-	-	-	
5-Jul-24	2.00	10.00	4.14	-	-	-	-	-	
6-Jul-24	1.58	10.00	4.54	-	-	-	-	-	
7-Jul-24	0.90	7.30	3.06	-	-	-	-	-	
8-Jul-24	1.20	10.00	4.11	-	-	-	-	-	
9-Jul-24	1.33	10.00	4.74	-	-	-	-	-	
10-Jul-24	2.01	10.00	5.08	-	-	-	-	-	
11-Jul-24	2.50	10.00	5.61	-	-	-	-	-	
12-Jul-24	2.92	10.00	5.17	-	-	-	-	-	
13-Jul-24	1.50	10.00	4.27	-	-	-	-	-	
14-Jul-24	1.00	10.00	3.49	-	-	-	-	-	
15-Jul-24	2.62	10.00	4.63	-	-	-	-	-	
16-Jul-24	3.10	10.00	4.83	-	-	-	-	-	
17-Jul-24	1.87	10.00	4.66	-	-	-	-	-	
18-Jul-24	3.37	10.00	5.36	-	-	_	_	-	
19-Jul-24	2.00	10.00	4.91	-	-	-	-	-	
20-Jul-24	1.50	10.00	5.07	-	-	-	-	-	
21-Jul-24	0.50	10.00	4.23	-	-	_	_	-	
22-Jul-24	1.00	10.00	4.29	-	-	_	-	-	
23-Jul-24	1.00	10.00	4.65	-	-	_	-	_	
24-Jul-24	2.00	10.00	4.96	-	-	_	-	_	
25-Jul-24	1.85	10.00	4.22	-	-	_	-	-	
26-Jul-24	1.50	10.00	4.43	-	-	_	_	_	
27-Jul-24	1.00	10.00	4.07	-	-	-	-	-	
28-Jul-24	0.60	10.00	4.40	-	-	-	-	-	
29-Jul-24	2.00	10.00	4.87	-	-	-	-	-	
30-Jul-24	2.09	10.00	5.27	-	-	-	-	-	
31-Jul-24	2.88	10.00	6.33	-	-	-	-	_	
	0.50#		4.55	_		-	_		

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

Table-29(b	Table-29(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), JULY 2024									
Market Segment	Green Day	y Ahead Mar	ket of IEX		Ahead Marl	xet of PXIL	Green Day	Ahead Marl	xet 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-Jul-24	2.00	10.00	3.99	-	-	-	-	-	-	
2-Jul-24	2.00	10.00	3.93	-	-	-	-	-	-	
3-Jul-24	2.00	10.00	3.67	-	-	-	-	-	-	
4-Jul-24	1.90	10.00	4.14	-	-	-	-	-	-	
5-Jul-24	1.90	10.00	3.43	-	-	-	-	-	-	
6-Jul-24	2.25	10.00	3.46	-	-	-	-	-	-	
7-Jul-24	1.80	9.99	3.48	-	-	-	-	-	-	
8-Jul-24	2.00	10.00	3.43	-	-	-	-	-	-	
9-Jul-24	2.00	10.00	3.62	-	-	-	-	-	-	
10-Jul-24	1.80	10.00	4.97	-	-	-	-	-	-	
11-Jul-24	2.80	10.00	4.90	-	-	-	-	-	-	
12-Jul-24	3.60	10.00	5.01	-	-	-	-	-	-	
13-Jul-24	3.00	10.00	4.45	-	-	-	-	-	-	
14-Jul-24	2.00	10.00	3.73	-	-	-	-	-	-	
15-Jul-24	1.85	10.00	4.04	-	-	-	-	-	-	
16-Jul-24	2.55	10.00	4.27	-	-	-	-	-	-	
17-Jul-24	2.95	10.00	4.40	-	-	-	-	-	-	
18-Jul-24	2.35	10.00	4.58	-	-	-	-	-	-	
19-Jul-24	3.30	10.00	5.43	-	-	-	-	-	-	
20-Jul-24	2.50	10.00	4.54	-	-	-	-	-	-	
21-Jul-24	1.95	10.00	4.93	-	-	-	-	-	-	
22-Jul-24	1.80	10.00	5.16	-	-	-	-	-	-	
23-Jul-24	1.01	10.00	3.75	-	-	-	-	-	-	
24-Jul-24	1.50	10.00	4.41	-	-	-	-	-	-	
25-Jul-24	2.50	10.00	4.87	-	-	-	-	-	-	
26-Jul-24	2.18	10.00	4.46	-	-	-	-	-	-	
27-Jul-24	1.85	10.00	3.82	-	-	-	-	-	-	
28-Jul-24	1.50	10.00	4.05	-	-	-	-	-	-	
29-Jul-24	1.90	10.00	4.03	-	-	-	-	-	-	
30-Jul-24	2.50	10.00	4.50	-	-	-	-	-	-	
31-Jul-24	3.34	10.00	5.61	-	-	-	-	-	-	
	1.01#	10.00#	4.29	-	-	-	-	-	-	
Source: IEX, P.	XIL and HPX									

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

Market Segment	Real	Fime Market	of IEX	Real Ti	me Market	of PXIL	Real T	'ime 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-Jul-24	1.40	10.00	3.71	-	-	-	10.00	10.00	10.00
2-Jul-24	0.70	10.00	3.50	-	-	-	10.00	10.00	10.00
3-Jul-24	1.68	10.00	3.86	-	-	-	-	-	-
4-Jul-24	0.52	10.00	3.96	-	-	-	-	-	-
5-Jul-24	1.40	10.00	3.73	-	-	-	-	-	-
6-Jul-24	0.40	4.74	2.08	-	-	-	-	-	-
7-Jul-24	0.92	5.39	2.52	-	-	-	-	-	-
8-Jul-24	2.81	10.00	4.38	-	-	-	-	-	-
9-Jul-24	2.60	10.00	5.22	-	-	-	-	-	-
10-Jul-24	3.06	10.00	5.89	-	-	-	-	-	-
11-Jul-24	2.80	10.00	5.92	-	-	-	-	-	-
12-Jul-24	1.20	10.00	3.66	-	-	-	-	-	-
13-Jul-24	1.29	10.00	4.51	-	-	-	-	-	-
14-Jul-24	1.73	10.00	3.52	-	-	-	-	-	-
15-Jul-24	2.12	10.00	4.74	-	-	-	10.00	10.00	10.00
16-Jul-24	0.70	10.00	4.23	-	-	-	10.00	10.00	10.00
17-Jul-24	2.00	10.00	5.03	-	-	-	10.00	10.00	10.00
18-Jul-24	1.50	10.00	5.01	-	-	-	-	-	-
19-Jul-24	0.60	10.00	4.66	-	-	-	-	-	-
20-Jul-24	0.70	10.00	4.27	-	-	-	0.00	10.00	5.00
21-Jul-24	0.30	10.00	3.27	-	-	-	-	-	-
22-Jul-24	1.84	10.00	4.56	-	-	-	-	-	-
23-Jul-24	1.79	10.00	4.52	-	-	-	-	-	-
24-Jul-24	1.00	10.00	4.53	-	-	-	-	-	-
25-Jul-24	1.93	10.00	4.24	-	-	-	-	-	-
26-Jul-24	1.10	10.00	3.64	-	-	-	-	-	-
27-Jul-24	0.50	10.00	4.17	-	-	-	-	-	-
28-Jul-24	0.50	10.00	3.55	-	-	-	-	-	-
29-Jul-24	2.01	10.00	4.83	10.00	10.00	10.00	-	-	-
30-Jul-24	2.27	10.00	6.60	-	-	-	10.00	10.00	10.00
31-Jul-24	1.50	10.00	5.68	-	-	-	2.21	10.00	9.52
	0.30#	10.00 [#]	4.30	10.00#	10.00#	10.00	0.00#	10.00 [#]	9.93

Source: IEX, PXIL and HPX

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

Maximum/Minimum in the month

Note: The Minimum ACP in RTM on HPX was Rs. 0.00/kWh on account of congestion in seller (export)side. The quantum that could be cleared after considering congestion was offered by the seller was at Rs. 0.00/kWh (Sell Bid). In the particular block, the ACP for Buyer bid area was Rs. 10/kWh (Upstream) while the ACP for Seller bid area was Rs. 0/kWh (Downstream). The difference of the Upstream and Downstream price constitutes the Congestion revenue. The particular case does not represent typical market conditions.

Table-29(d	I): PRICE O	F HIGH PRI	CE DAY AH			S OF ELEC	TRICITY (DAY-WISE) (₹/kWh),			
Market Segment	High Pric	e Day Ahead IEX	Market of	JULY : High Price	2024 2 Day Ahead PXIL	Market of	High Pric	e Day Ahead HPX	l Market of			
Date	Minimum ACP	Maximum ACP	Weighted Average Price	Minimum ACP	Maximum ACP	Weighted Average Price	Minimum ACP	Maximum ACP	Weighted Average Price			
1-Jul-24	-	-	-	-	-	-	-	-	-			
2-Jul-24	-	-	-	-	-	-	-	-	-			
3-Jul-24	-	-	-	-	-	-	-	-	-			
4-Jul-24	-	-	-	-	-	-	-	-	-			
5-Jul-24	-	-	-	-	-	-	-	-	-			
6-Jul-24	-	-	-	-	-	-	-	-	-			
7-Jul-24	-	-	-	-	-	-	-	-	-			
8-Jul-24	-	-	-	-	-	-	-	-	-			
9-Jul-24	-	-	-	-	-	-	-	-	-			
10-Jul-24	-	-	-	-	-	-	-	-	-			
11-Jul-24	15.00	15.00	15.00	-	-	-	_	-	-			
12-Jul-24	-	-	-	-	-	-	_	-	-			
13-Jul-24	-	-	-	-	-	-	_	-	-			
14-Jul-24	-	-	-	-	-	-	_	-	_			
15-Jul-24	-	-	-	-	-	-	_	-	_			
16-Jul-24	-	-	-	-	-	-	_	-	_			
17-Jul-24	-	-	-	-	-	-	_	-	_			
18-Jul-24	-	-	-	-	-	-	_	-	-			
19-Jul-24	-	-	-	-	-	-	_	-	-			
20-Jul-24	-	-	-	-	-	-	_	-	-			
21-Jul-24	-	-	-	-	-	-	-	-	-			
22-Jul-24	-	-	-	-	-	-	-	-	-			
23-Jul-24	-	-	-	-	-	-	-	-	-			
24-Jul-24	-	-	-									
25-Jul-24	-	-	-	-	-	-	-	-	-			
26-Jul-24	-	-	-	-	-	-	-	-	-			
27-Jul-24	-	-	-	-	-	-	-	-	-			
28-Jul-24	-	-	_	-	-	-	-	-	-			
29-Jul-24	-	-	_	-	-	-	-	-	-			
30-Jul-24	-	-	-	-	-	-	-	-	-			
31-Jul-24	_	-	_	-	-	-	-	-	-			
	15.00 [#]	15.00 [#]	15.00	-	-	-	-	-	-			
Source: IEX, P.		20100	20.00									
	# Maximum/Minimum in the month											

Table-30: VOLUME OF TRANSACTIONS THROUGH POWER EXCHANGES (REGIONAL ENTITY*-WISE) (MUs), JULY 2024									
Name of the Entity	Throug	gh DAM		n GDAM		ugh HP- DAM	Throug	gh RTM	Total
· ·	Sale	Purchase	Sale	Purchase	Sale	Purchase	Sale	Purchase	Net***
PUNJAB	0.00	380.15	0.00	448.10	0.00	0.00	30.37	604.97	1402.85
HARYANA	88.93	114.01	0.00	12.06	0.00	0.00	154.82	91.54	-26.14
RAJASTHAN	57.95	290.92	7.45	0.00	0.00	0.00	38.91	489.19	675.80
DELHI	199.48	18.30	2.41	6.45	0.00	0.00	167.63	79.21	-265.55
UTTAR PRADESH	238.06	261.52	17.95	11.89	0.00	0.00	117.25	235.16	135.31
UTTARAKHAND	3.30	85.10	17.64	0.00	0.00	0.00	27.95	61.25	97.46
HP	145.16	38.10	52.78	0.00	0.00	0.00	83.30	92.31	-150.83
J & K	3.84	0.00	15.15	0.00	0.00	0.00	32.92	0.57	-51.34
CHANDIGARH	14.27	7.10	0.00	0.00	0.00	0.00	1.92	1.64	-7.45
MP	61.00	46.75	23.81	5.35	0.00	0.00	102.74	62.27	-73.18
MAHARASHTRA	44.88	77.46	51.64	62.16	0.00	0.00	56.45	129.31	115.95
GUJARAT	86.59	522.56	0.00	19.41	0.200	0.00	42.95	95.92	508.15
CHHATTISGARH	100.70	91.38	0.00	16.61	0.00	0.00	102.24	32.60	-62.35
GOA	8.54	14.10	0.00	0.01	0.00	0.00	2.64	3.55	6.48
DD&DNH	0.00	259.10	0.00	0.10	0.00	0.00	1.26	19.28	277.22
ANDHRA P	85.98	153.90	30.97	9.23	0.00	0.00	137.54	87.17	-4.19
KARNATAKA	578.66	34.77	176.23	18.22	0.00	0.00	280.27	10.45	-971.72
KERALA TAMIL NADU	7.62	85.48 196.60	0.00	9.65 33.71	0.00	0.00 0.00	18.20	121.24 124.32	190.54
	7.07	0.14	0.00		0.00	0.00	419.44	0.44	-101.48
PONDICHERRY TELANGANA	7.96	1985.26	0.00	0.00	0.00	0.00	<u>12.21</u> 73.36	365.77	-18.70 2281.01
WEST BENGAL	15.35	283.28	14.10	0.00	0.00	0.00	44.22	259.54	469.34
ODISHA	181.19	265.28	0.00	74.35	0.00	0.20	164.38	47.18	-197.34
BIHAR	38.22	20.70	0.00	80.62	0.00	0.00	204.31	115.60	-197.34
JHARKHAND	0.04	9.04	0.00	34.01	0.00	0.00	32.41	24.99	35.58
SIKKIM	1.62	10.53	8.84	0.00	0.00	0.00	5.67	1.07	-4.53
DVC	20.06	1.36	0.00	31.98	0.00	0.00	25.14	31.58	19.72
ARUNACHAL P	18.27	0.00	0.00	0.00	0.00	0.00	28.62	0.02	-46.86
ASSAM	170.15	10.98	0.00	0.00	0.00	0.00	53.49	72.70	-139.97
MANIPUR	0.00	0.00	0.00	0.00	0.00	0.00	10.85	6.34	-4.50
MEGHALAYA	11.82	1.66	34.35	0.00	0.00	0.00	1.17	3.56	-42.13
MIZORAM	25.59	0.00	0.00	0.00	0.00	0.00	0.09	0.00	-25.68
NAGALAND	3.98	0.00	0.00	0.00	0.00	0.00	2.59	0.00	-6.57
TRIPURA	0.00	4.88	0.00	0.00	0.00	0.00	6.50	15.62	13.99
NTPC STATIONS-NR	22.27	0.00	0.00	0.00	0.00	0.00	57.71	0.00	-79.98
NHPC STATIONS	5.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-5.39
NEP	27.77	0.00	0.00	0.00	0.00	0.00	6.82	0.00	-34.59
AD HYDRO	104.52	0.00	0.00	0.00	0.00	0.00	9.87	0.00	-114.39
IGSTPS	4.05	0.00	0.00	0.00	0.00	0.00	4.50	0.00	-8.55
KARCHAM WANGTOO	117.48	0.00	0.00	0.00	0.00	0.00	6.96	0.00	-124.44
SHREE CEMENT	35.45	0.00	0.00	0.00	0.00	0.00	7.34	0.00	-42.79
LANCO BUDHIL	8.66	0.00	0.00	0.00	0.00	0.00	0.94	0.00	-9.59
SORANG HEP	37.67	0.00	1.20	0.00	0.00	0.00	8.55	0.00	-47.42
SAINJ HEP	38.28	0.00	0.00	0.00	0.00	0.00	1.37	0.88	-38.76
ASEJTL_SLR	32.28	0.00	46.75	0.00	0.00	0.00	5.00	0.00	-84.03
SINGOLI BHATWARI H	6.27	0.00	9.64	0.00	0.00	0.00	1.59	0.00	-17.50
NCR ALLAHABAD	0.00	21.99	0.00	19.26	0.00	0.00	0.00	4.22	45.47
RENEW_SR_SLR	30.98	0.00	7.65	0.00	0.00	0.00	6.70	0.00	-45.33
DEVKOOT_SLR	20.97	0.00	0.00	0.00	0.00	0.00	5.93	0.00	-26.90
NOKHRA_STPP	0.00	0.00	0.00	0.00	0.00	0.00	4.69	0.00	-4.69
RAPP 7&8	0.00	0.00	0.00	0.00	0.00	0.00	4.13	0.00	-4.13
RISING_SLR	0.00	0.00	21.11 0.00	0.00	0.00	0.00 0.00	0.00 3.70	0.00 0.00	-21.11
AMP_GREEN6	0.00	0.00	0.00	0.00	0.00	0.00		0.00	-3.70
ALTRA XERGI ONEVOLT	17.42	0.00	0.00	0.00	0.00	0.00	1.43	0.00	-1.43 -17.42
GRIAN	0.00	0.00	0.00	0.00	0.00	0.00	4.68	0.00	-17.42
AMPLUS_AGES	0.00	0.00	9.49	0.00	0.00	0.00	1.13	0.00	-4.08
AULO AULO	0.00	0.00	7.47	0.00	0.00	0.00	1.13	0.00	-10.02

RENEW_SPRATAP	42.98	0.00	0.00	0.00	0.00	0.00	0.58	0.00	-43.56
ADEPT	28.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-28.54
TESPL	2.66	0.00	12.33	0.00	0.00	0.00	24.74	0.00	-39.73
ADANI_S_RJ2	8.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-8.96
SERENTICA RE4	0.00	0.00	0.00	0.00	0.00	0.00	4.35	0.00	-4.35
AYANA_RP3	0.00	0.00	17.36	0.00	0.00	0.00	2.08	0.00	-19.45
TPSL BANDERWALA	3.50	0.00	30.37	0.00	0.00	0.00	3.18	0.00	-37.06
NTPC STATIONS-WR	0.68	0.00	0.00	0.00	0.00	0.00	89.00	1.22	-88.46
JINDAL POWER	140.73	0.00	0.00	0.00	0.00	0.00	4.72	0.05	-145.40
ACBIL	36.03	0.00	0.00	0.00	0.00	0.00	5.81	0.51	-41.34
BALCO	12.49	0.99	0.00	1.87	0.00	0.00	14.96	4.36	-20.24
DCPP	67.25	0.00	0.00	0.00	0.00	0.00	6.66	2.70	-71.21
EMCO	4.34	0.00	0.00	0.00	0.00	0.00	0.35	0.00	-4.70
ESSAR POWER	198.67	0.00	0.00	0.00	0.00	0.00	20.46	7.78	-211.34
JINDAL STAGE-II	252.89	0.00	0.00	0.00	0.00	0.00	18.87	0.00	-271.76
DB POWER	106.21	0.00	0.00	0.00	0.00	0.00	8.67	0.00	-114.88
DHARIWAL POWER	2.17	0.00	0.00	0.00	0.00	0.00	0.93	0.00	-3.10
JAYPEE NIGRIE	113.90	0.00	0.00	0.00	0.00	0.00	0.20	0.00	-114.10
DGEN MEGA POWER	0.52	0.00	0.00	0.00	0.00	0.00	1.38	0.00	-1.90
MB POWER	5.10	0.00	0.00	0.00	0.00	0.00	5.69	3.58	-7.20
MARUTI COAL	19.40	0.00	0.00	0.00	0.00	0.00	1.87	0.00	-21.28
JHABUA POWER_MP	0.60	0.09	0.00	0.00	0.00	0.00	0.51	1.11	0.09
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	2.84	0.00	-2.84
RKM POWER	28.82	0.00	0.00	0.00	0.00	0.00	15.62	0.00	-44.45
SKS POWER	63.47	0.00	0.00	0.00	0.00	0.00	17.61	5.32	-75.76
AMPS Hazira	0.00	14.11	0.00	62.13	0.00	0.00	0.00	9.10	85.34
RGPPL_IR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.60
ADANI_WIND	46.41	0.00	38.03	0.00	0.00	0.00	9.76	0.00	-94.21
CONTINNUM PT	0.00	0.00	7.70	0.00	0.00	0.00	0.00	0.00	-7.70
RENERGY5_WIND	6.56	0.00	5.30	0.00	0.00	0.00	0.00	0.00	-12.16
ARTPP	100.88	0.00	0.00	0.00	0.00	0.00	19.22	0.00	-120.10
MTPS	0.11	0.00	0.00	0.00	0.00	0.00	27.09	0.00	-120.10
RAIGARH_ADANI	79.11	0.00	0.00	0.00	0.00	0.00	6.79	2.70	-27.20
	0.00	0.00	0.00	0.00	0.00			0.00	
NREL_DAYAPAR (W)						0.00	10.15		-10.15
ADANI_4RE	31.39	0.00	90.77	0.00	0.00	0.00	26.79	0.00	-148.95
ADANI_W_KUTCHH4	3.95	0.00	8.55	0.00	0.00	0.00	0.00	0.00	-12.50
(INFIRM)									
ADANI GREEN_25B	16.13	0.00	46.09	0.00	0.00	0.00	21.18	0.00	-83.40
(INFIRM)									
ADANI GREEN_26B	3.43	0.00	9.52	0.00	0.00	0.00	0.00	0.00	-12.95
(INFIRM)									
NANI VIRANI_W	0.13	0.00	4.14	0.00	0.00	0.00	0.15	0.00	-4.42
ADANI GREEN_26A	0.11	0.00	0.37	0.00	0.00	0.00	0.00	0.00	-0.49
(INFIRM)									
ADANIRE_55	3.42	0.00	10.35	0.00	0.00	0.00	2.06	0.00	-15.82
(INFIRM)							,		
ADANI GREEN_25A	2.80	0.00	6.47	0.00	0.00	0.00	0.11	0.00	-9.38
(INFIRM)							,		
ADANIRE_41	6.07	0.00	17.31	0.00	0.00	0.00	8.31	0.00	-31.69
(INFIRM)									
NTPC STATIONS-SR	20.58	0.00	2.29	0.00	0.00	0.00	40.25	0.00	-63.12
LANKO KONDAPALLI	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.13	8.13
SIMHAPURI	10.12	0.00	0.00	0.00	0.00	0.00	2.35	0.00	-12.47
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	14.87	0.00	-14.87
COASTGEN	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-0.11
IL&FS	5.45	0.00	0.00	0.00	0.00	0.00	0.46	0.00	-5.91
NLC	0.83	0.00	0.00	0.00	0.00	0.00	20.89	0.00	-21.72
SEMBCORP	57.40	0.00	0.00	0.00	0.00	0.00	22.54	0.00	-79.94
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	5.99	0.00	-5.99
OSTRO Hiriyur	12.79	0.00	24.70	0.00	0.00	0.00	8.37	0.00	-45.86
JSW_RENEW_2	0.00	0.00	6.96	0.00	0.00	0.00	0.00	0.00	-6.96
RENEW_ROSHNI	0.00	0.00	0.00	0.00	0.00	0.00	16.80	0.00	-16.80

RENEW_SOJAS	42.12	0.00	79.42	0.00	0.00	0.00	41.24	0.00	-162.78
SERENTICA RE1 (INFIRM)	0.20	0.00	1.26	0.00	0.00	0.00	16.12	0.00	-17.58
NTPC STATIONS-ER	154.07	0.00	0.00	0.00	0.00	0.00	54.10	0.00	-208.17
MAITHON POWER LTD	0.00	0.00	0.00	0.00	0.00	0.00	2.47	0.00	-2.47
NPGC	65.07	0.00	0.00	0.00	0.00	0.00	13.65	0.00	-78.73
ADHUNIK POWER LTD	0.00	0.00	0.00	0.00	0.00	0.00	16.50	0.00	-16.50
CHUZACHEN HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	-0.13
GMR KAMALANGA	0.14	0.00	0.00	0.00	0.00	0.00	0.06	0.00	-0.20
JITPL	22.97	0.00	0.00	0.00	0.00	0.00	1.96	0.00	-24.93
JORETHANG	0.00	0.00	0.00	0.00	0.00	0.00	1.61	0.00	-1.61
NEPAL(NVVN)	332.86	0.00	0.00	0.00	0.00	0.00	21.26	0.00	-354.13
TASHIDENG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.00	-0.73
BRBCL, NABINAGAR	9.28	0.00	0.00	0.00	0.00	0.00	1.41	0.00	-10.69
KBUNL	19.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.86
BASOCHHU HEP	38.58	0.00	0.00	0.00	0.00	0.00	0.58	0.00	-39.16
IBEUL	33.29	0.00	0.00	0.00	0.00	0.00	0.86	0.00	-34.15
NIKACHHU HEP	21.32	0.00	0.00	0.00	0.00	0.00	0.13	0.00	-21.45
NTPC STATIONS-NER	7.18	0.00	0.00	0.00	0.00	0.00	5.88	0.00	-13.06
NEEPCO STATIONS	0.02	0.00	0.00	0.00	0.00	0.00	4.75	0.00	-4.77
ONGC PALATANA	3.56	0.00	0.00	0.00	0.00	0.00	4.64	0.00	-8.19
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									

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

D		All Indi	a Grid Charges (₹/kWh	l)
Date	Volume (MU)	Minimum	Maximum	Average
1-Jul-24	91.81	2.00	10.00	4.1
2-Jul-24	90.70	1.50	10.00	4.1
3-Jul-24	91.46	1.68	10.00	4.5
4-Jul-24	95.72	1.89	10.00	4.5
5-Jul-24	96.19	2.01	10.00	4.8
6-Jul-24	100.98	1.58	10.00	4.7
7-Jul-24	105.23	0.92	7.71	3.1
8-Jul-24	96.58	2.81	10.00	5.0
9-Jul-24	95.76	2.60	10.00	5.8
10-Jul-24	95.34	3.06	10.00	6.9
11-Jul-24	95.91	2.87	10.25	6.6
12-Jul-24	99.94	2.25	10.00	5.7
13-Jul-24	93.07	1.50	10.00	5.2
14-Jul-24	97.53	1.73	10.00	4.2
15-Jul-24	93.50	2.12	10.00	5.4
16-Jul-24	92.38	1.00	10.00	5.9
17-Jul-24	98.97	2.00	10.00	5.7
18-Jul-24	99.16	1.87	10.00	6.4
19-Jul-24	95.01	1.79	10.00	6.1
20-Jul-24	94.62	2.05	10.00	6.0
21-Jul-24	89.43	0.60	10.00	5.4
22-Jul-24	97.23	1.84	10.00	5.3
23-Jul-24	93.40	1.84	10.00	5.5
24-Jul-24	91.50	1.58	10.00	5.5
25-Jul-24	89.99	1.93	10.00	5.1
26-Jul-24	93.75	1.50	10.00	5.2
27-Jul-24	93.15	1.00	10.00	4.8
28-Jul-24	94.86	0.60	10.00	4.7
29-Jul-24	94.41	2.01	10.00	5.8
30-Jul-24	103.67	2.30	10.00	7.6
31-Jul-24	111.32	2.88	10.00	7.2
Total	2972.57	0.60#	10.25#	5.4

Table-32: VOLUME OF ELECTRICITY UNDER DRAWAL/ OVER INJECTION (EXPORTED) UNDER DSM, JULY 2024								
Name of the Entity	Volume of Under drawal/ Over injection (MUs)	% of Volume						
GUJARAT	149.18	5.05						
MAHARASHTRA	148.35	5.02						
J & K	147.28	4.98						
TAMIL NADU	134.49	4.55						
PUNJAB	120.12	4.07						
KARNATAKA	97.56	3.30						
RAJASTHAN	94.00	3.18						
NTPC STATIONS-SR	90.72	3.07						
ANDHRA PRADESH BIHAR	80.88 80.76	<u>2.74</u> 2.73						
MP	78.19	2.65						
HARYANA	77.96	2.64						
NTPC STATIONS-NR	74.87	2.53						
UTTAR PRADESH	73.69	2.33						
TELANGANA	64.33	2.18						
NTPC STATIONS-WR	58.80	1.99						
CHHATTISGARH	58.07	1.97						
DELHI	43.40	1.47						
NHPC STATIONS	42.11	1.43						
ADANI_4RE	35.75	1.21						
NTPC STATIONS-ER	32.40	1.10						
JHARKHAND	31.34	1.06						
NEEPCO STATIONS	28.16	0.95						
UTTARAKHAND	24.68	0.84						
DVC	24.40	0.83						
AH4_WIND	22.17	0.75						
ODISHA	20.69	0.70						
NLC	19.33	0.65						
WEST BENGAL	18.73	0.63						
BBMB	17.99	0.61						
IGSTPS	17.52	0.59						
SASAN UMPP	16.97	0.57						
NJPC	<u>16.68</u> 16.14	0.56 0.55						
AHEJ4L_SOLAR JINDAL STAGE-II	15.84	0.55						
AMPS Hazira	15.04	0.54						
GRT JPL	14.06	0.48						
NEPAL(NVVN)	14.00	0.48						
KREDL PVGD	13.69	0.47						
RKM POWER	13.57	0.46						
PARAM_PVGD	13.48	0.46						
JSW_RENEW_2	13.46	0.45						
AYANA_NPKUNTA	12.81	0.43						
AHEJ2L_SOLAR	12.63	0.43						
HIMACHAL PRADESH	12.13	0.41						
KAPP 3&4	11.04	0.37						
RAMPUR HEP	10.95	0.37						
OSTRO Hiriyur	10.93	0.37						
FORTUM1_PVGD	10.21	0.35						
KERALA	10.04	0.34						
SALAL HEP	9.86	0.33						
AVAADASN_SLR	9.75	0.33						
AZURE43_SLR	9.73	0.33						
AGEL_PSS 3	9.51	0.32						
SBESS	9.48	0.32						
AGEMPL BHUJ	9.47	0.32						
ASSAM	9.42	0.32						
PONDICHERRY DENEW DOSUNI	9.36	0.32						
RENEW_ROSHNI	9.34	0.32						

GOA	9.19	0.31
AVADARJHN_SLR	8.80	0.30
GIWEL BHUJ	8.75	0.30
ADANI_WIND	8.65	0.29
ALTRA XERGI	7.96	0.27
SKRPL	7.84	0.27
TATA_PVGD	7.80	0.26
RENEW_BHUJ	7.72	0.26
DD&DNH	7.42	0.25
MIZORAM	7.38	0.25
RENEW_ROSHNI FATEHGARH	7.20	0.23
RENEW_SOJAS	7.19	0.24
RPREL	7.02	0.24
MAITHON POWER LTD	6.85	0.23
JAYPEE NIGRIE	6.77	0.23
INOX_BHUJ	6.71	0.23
APRAAVA	6.70	0.23
BEEMPOW	6.66	0.23
THAR1_SLR	6.61	0.23
MEGHALAYA	6.52	0.22
AYANA_RP1	6.48	0.22
ESSAR POWER	6.42	0.22
RAP B	6.32	0.22
RENEW_BHACHAU	6.16	0.21
BALCO	6.03	0.21
OSTRO	5.97	0.20
AHEJ3L_SOLAR	5.88	0.20
AREJSL_SOLAR ASEJTL_SLR	5.86	0.20
CHANDIGARH	5.85	0.20
NPGC	5.63	0.20
	5.63	
AZURE41_SLR ADANI_S_RJ2	5.56	0.19 0.19
ACME_SLR	5.53	0.19
CLEAN_SLR	5.46	0.18
RENEW_SR_SLR	5.42	0.18
ADANIHB_WIND	<u>5.33</u> 5.32	0.18 0.18
NETCL VALLUR		
ALFANAR_BHUJ	5.31	0.18
ACME_RUMS	5.27	0.18
NTPL	5.26	0.18
ARS_PVGD	5.11	0.17
EDEN_SLR	5.08	0.17
AHEJOL_SLR	5.03	0.17
DGPCL Bhutan	4.98	0.17
NSPCL ESDL DADIJANESDA	4.95	0.17
ESPL_RADHANESDA	<u>4.92</u> 4.83	0.17
ARINSUM_RUMS		0.16
MSEPL RENEW_SAAYAN	4.83 4.77	0.16
		0.16
AH3_WIND	4.68	0.16
AH2_WIND	4.67	0.16
MAHINDRA_RUMS	4.50 4.43	0.15
RENEWURJA_SLR MSRPL	4.45	0.15
RENEWSB		0.15
ARUNACHAL PRADESH	4.36 4.32	0.15
ARERJL_SLR	4.32	0.15
MSUPL_BHDL2	4.51	0.15
LANKO_AMK	4.29	0.15
AZURE_MAPLE_SLR	4.20	0.14
RENEWSW_SLR	4.25	0.14
BRBCL,NABINAGAR	4.21	0.14
AVIKIRAN	4.08	0.14

ABC BIDL2 396 0.13 RENEW SIR LIKN 396 0.13 RENEW SIR LIKN 391 0.13 RENEW SIR LIKN 381 0.13 TORRURA 381 0.13 TORRURA 381 0.13 TORRURA 376 0.13 NTC STATIONSARE 3.76 0.12 KARCHA WANGTOO 3.65 0.12 KARCHA WANGTOO 3.60 0.12 KARCHA WANGTOO 3.60 0.12 NATA SUR 3.61 0.12 MADA SUNSHINE 3.64 0.12 SENETICA REI 3.46 0.12 SENETICA REI 3.46 0.12 NORMER STPP 3.33 0.11 SERENTICA REI 3.34 0.11 SERENTICA REI 3.33 0.11 SERENTICA REI 3.33 0.11 SERENTICA REI 3.33 0.11 SERENTICA REI 3.34 0.11 SERENTICA REI 3.35 0.11 <t< th=""><th></th><th>2.06</th><th>0.12</th></t<>		2.06	0.12
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GIPCL_RADHANESDA 2.49 0.08 SERENTICA REI (INFIRM) 2.35 0.08 CLEANSP_SLR 2.32 0.08 RANGANADI HEP 2.24 0.08 ORANGE_TCN 2.22 0.08 RENEW_SVIHAAN 2.18 0.07 ONGC PALATANA 2.17 0.07 SIMHAPURI 2.15 0.07 TEHRI 2.06 0.07 CHUZACHEN HEP 2.02 0.07 SIMHAPURI 2.15 0.07 TEHRI 2.06 0.07 CHUZACHEN HEP 2.02 0.07 MTPS II 1.98 0.07 MTPS II 1.90 0.06 DB POWER 1.83 0.06 THERMAL POWERTECH 1.81 0.06 AMPLUS_AGES 1.80 0.06	AYANA_RP3	2.49	0.08
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KSK MAHANADI 1.79 0.06			
AMP_GREEN6 1.78 0.06			
	AMP_GREEN6	1.78	0.06

AD HYDRO	1.76	0.06
POWERICA	1.75	0.06
EMCO	1.75	0.06
BANGLADESH	1.72	0.06
GRIAN		0.06
AVAADA1_PVGD	1.69 1.60	0.06
Railways_ER ISTS	1.57	0.05
DCPP	1.51	0.05
TPSL	1.46	0.05
TATA_ANTP	1.45	0.05
RAIL	1.40	0.05
NAPP	1.38	0.05
JITPL	1.37	0.05
TESPL	1.35	0.05
ACBIL	1.30	0.04
SJVN GREEN	1.28	0.04
SAINJ HEP	1.26	0.04
IL&FS	1.25	0.04
NFF	1.22	0.04
TRN ENERGY	1.21	0.04
ONEVOLT	1.16	0.04
FORTUM2_PVGD	1.16	0.04
RENEW_SLR	1.13	0.04
MEENAKSHI	1.11	0.04
GMR KAMALANGA	1.01	0.03
SORANG HEP	0.93	0.03
ADHUNIK POWER LTD	0.92	0.03
AKSP_ANTP	0.88	0.03
AKS_PVGD	0.87	0.03
ADANI_SLR 4	0.87	0.03
ABSP_ANTP	0.84	0.03
RSTPS_FSPP	0.82	0.03
MYTRAH_TCN	0.82	0.03
AHSP_ANTP	0.81	0.03
SHREE CEMENT	0.78	0.03
RAP C	0.77	0.03
FRV_NPK	0.74	0.03
AVAADA2_PVGD	0.73	0.02
NIKACHHU HEP	0.72	0.02
YARROW_PVGD	0.69	0.02
SEMBCORP	0.69	0.02
PARE HEP	0.65	0.02
SRSSFPL	0.60	0.02
COASTGEN	0.55	0.02
GSECL_Radhanesda	0.55	0.02
BETAM_TCN	0.51	0.02
RANGIT HEP	0.50	0.02
SPRING_PUGALUR	0.50	0.02
LANCO BUDHIL	0.47	0.02
JORETHANG	0.43	0.01
DOYANG HEP	0.40	0.01
DHARIWAL POWER	0.32	0.01
SB_SLR	0.28	0.01
NEA-Bihar	0.28	0.01
LOKTAK	0.24	0.01
POWERGRID HVDC	0.17	0.01
HVDC PUS	0.17	0.006
TASHIDENG HEP	0.14	0.005
DGEN MEGA POWER	0.10	0.003
HVDC ALPD	0.09	0.003
	0.03	0.001
JHABUA POWER_MP TOTAL	0.03 2954.64	0.001

Source: NLDC

Table-33: VOLUME OF ELECTRICITY OVER DRAWAL/ UNDER INJECTION (IMPORTED) UNDER DSM, JULY 2024					
Name of the Entity	Volume of Over drawal/ Under Injection (MUs)	% of Volume			
NTPC STATIONS-NR	159.78	5.34			
RAJASTHAN	149.58	5.00			
TAMIL NADU	132.70	4.44			
NTPC STATIONS-WR	117.47	3.93			
NTPC STATIONS-ER UTTAR PRADESH	103.40 97.95	3.46 3.28			
NTPC STATIONS-SR	97.93	3.08			
GUJARAT	61.01	2.04			
HARYANA	59.42	1.99			
TELANGANA	56.63	1.89			
WEST BENGAL	51.32	1.72			
ODISHA	48.83	1.63			
ANDHRA PRADESH	47.11	1.58			
ADANI_4RE	46.08	1.54			
KARNATAKA	44.48	1.49			
MP	40.79	1.36			
SPRING_PUGALUR BIHAR	40.12 39.82	1.34 1.33			
MAHARASHTRA	39.82	1.33			
AGEMPL BHUJ	33.02	1.13			
KERALA	31.87	1.10			
UTTARAKHAND	31.38	1.05			
GIWEL BHUJ	29.48	0.99			
PUNJAB	27.81	0.93			
DVC	27.28	0.91			
AMPS Hazira	26.38	0.88			
NEPAL(NVVN)	25.71	0.86			
JINDAL POWER	24.76	0.83			
JHARKHAND	24.62	0.82			
DELHI ADANI WIND	24.42	0.82 0.81			
ADANI_WIND DGPCL Bhutan	24.11 23.17	0.81			
CHHATTISGARH	23.17	0.77			
ASSAM	22.22	0.74			
INOX_BHUJ	21.70	0.73			
AHEJ4L_SOLAR	21.64	0.72			
HIMACHAL PRADESH	20.14	0.67			
RAIL	19.25	0.64			
ADANIHB_WIND	18.65	0.62			
NLC	17.80	0.60			
OSTRO	17.52	0.59			
NPGC ALFANAR BHUJ	16.80	0.56 0.54			
IGSTPS	15.88	0.53			
SBESS	15.87	0.53			
NIKACHHU HEP	15.80	0.53			
NHPC STATIONS	15.66	0.52			
KREDL_PVGD	15.47	0.52			
AHEJ2L_SOLAR	15.26	0.51			
SKRPL	13.79	0.46			
RENEW_SOJAS	13.74	0.46			
RENEW_BHACHAU	13.55	0.45			
J&K	13.23	0.44			
RENEW_BHUJ JSW_RENEW_2	13.13 13.02	0.44			
JSW_KENEW_2 NETCL VALLUR	13.02	0.43			
CGPL	12.86	0.43			
AYANA_NPKUNTA	12.00	0.43			
GOA	12.39	0.41			
AVAADASN_SLR	12.28	0.41			
BALCO	12.13	0.41			
MB POWER	11.62	0.39			
CHANDIGARH	11.54	0.39			
AZURE43_SLR	11.05	0.37			
TRIPURA	10.65	0.36			

RENEW_ROSHNI	10.13	0.34
BEEMPOW	10.15	0.34
AGEL_PSS 3	9.94	0.33
NETRA WIND	9.76	0.33
GRT_JPL	9.45	0.32
AVADARJHN_SLR	9.42	0.31
APRAAVA	8.54	0.29
ADANI_S_RJ2	8.26	0.28
MSEPL	8.18	0.27
FORTUM1_PVGD	8.14	0.27
AHEJ3L_SOLAR	8.06	0.27
SESPL	8.03	0.27
PARAM_PVGD	8.01	0.27
ADANI_SEJ1_EXPORT	8.01	0.27
OSTRO Hiriyur	7.95	0.27
SHREE CEMENT	7.82	0.26
AVIKIRAN RPREL	7.49 7.49	0.25 0.25
TATA_PVGD	7.49	0.25
ASEJTL_SLR	7.40	0.25
ARS PVGD	7.41	0.25
SPRNG_NPKUNTA	7.39	0.25
TEHRI	7.17	0.23
NTPC STATIONS-NER	7.12	0.24
SASAN UMPP	7.07	0.24
ALTRA XERGI	6.99	0.23
MAHINDRA_RUMS	6.98	0.23
AVAADA SUNSHINE	6.96	0.23
AHEJOL_SLR	6.94	0.23
BRBCL,NABINAGAR	6.86	0.23
ARINSUM_RUMS	6.76	0.23
AZURE_PVGD	6.72	0.22
RENEW_ROSHNI FATEHGARH	6.66	0.22
TESPL	6.62	0.22
SBG_NPK	6.59	0.22
NTPC_ANTP RENEWSB	6.57	0.22
GIWEL_TCN	<u>6.42</u> 6.42	0.21 0.21
RENEW_SAAYAN	6.32	0.21
KAPP 3&4	6.30	0.21
ESSAR POWER	6.28	0.21
ACME_RUMS	6.19	0.21
NEP	6.17	0.21
JINDAL STAGE-II	5.99	0.20
TATA_SLR	5.98	0.20
ABC_BHDL2	5.96	0.20
RENEWJH_SLR	5.79	0.19
ACME_SLR	5.76	0.19
DHARIWAL POWER	5.60	0.19
ADY1_PVGD	5.59	0.19
AH4_WIND	5.53	0.18
THAR1_SLR	5.48	0.18
AHEJOL_S_FTG2	5.35	0.18
AZURE_MAPLE_SLR	5.31	0.18
AYANA_RP1	5.28	0.18
RENEWSW_SLR	5.26	0.18
ACME_HEERGARH	5.24	0.18
DB POWER RENEW SPRATAP	5.22	0.17
RENEW_SPRATAP RENEW_SR_SLR	5.21 5.21	0.17 0.17
NOKHRA_STPP	5.17	0.17
RENEWURJA_SLR	5.17	0.17
AH3_WIND	5.17	0.17
NTPL	5.10	0.17
RENEW_SLR_BKN	5.07	0.17
EDEN_SLR	5.01	0.17
THERMAL POWERTECH	4.99	0.17
TORRENT SOLARGEN	4.98	0.17
DD&DNH	4.86	0.16
DD&DNII		
TPSL BANDERWALA	4.84	0.16

D 4 DD 7 4 0	4.02	0.14
RAPP 7&8	4.82	0.16
ARUNACHAL PRADESH SERENTICA RE4	4.78 4.77	0.16
RAP B	4.77	0.16
SIKKIM	4.75	0.16
DEVKOOT_SLR	4.60	0.15
ORANGE_TCN	4.00	0.15
CLEAN_SLR	4.30	0.15
MSUPL_BHDL2	4.48	0.15
PONDICHERRY	4.39	0.15
KHURJA STPP	4.36	0.15
KINKASITI KARCHAM WANGTOO	4.30	0.13
ADEPT	4.25	0.14
TATA_GREEN	4.20	0.14
ESPL_RADHANESDA	4.09	0.14
AZURE41_SLR	4.05	0.14
RENEW_PVGD	4.01	0.13
JITPL	3.91	0.13
ONEVOLT	3.87	0.13
AVAADA1_PVGD	3.87	0.13
RISING_SLR	3.77	0.13
MSRPL	3.74	0.13
SBG_PVGD	3.74	0.12
NEEPCO STATIONS	3.71	0.12
SEMBCORP	3.60	0.12
GRIAN	3.55	0.12
AMPLUS_AGES	3.40	0.12
SERENTICA RE1 (INFIRM)	3.32	0.11
AMP_GREEN6	3.32	0.11
BANGLADESH	3.19	0.11
SINGOLI BHATWARI HEP	3.12	0.10
MTPS II	3.07	0.10
TPREL_RADHANESDA	2.86	0.10
FRV_ANTP	2.85	0.10
MANIPUR	2.78	0.09
CLEANSP_SLR	2.77	0.09
SORANG HEP	2.76	0.09
AZURE_SLR	2.68	0.09
FORTUM2 PVGD	2.65	0.09
MAITHON POWER LTD	2.60	0.09
COASTGEN	2.57	0.09
MEGHALAYA	2.57	0.09
SKS POWER	2.55	0.09
ARERJL_SLR	2.55	0.09
AZURE_ANTP	2.53	0.08
ACBIL	2.53	0.08
JHABUA POWER_MP	2.52	0.08
GIPCL_RADHANESDA	2.48	0.08
DGEN MEGA POWER	2.44	0.08
POWERICA	2.21	0.07
TPSL	2.14	0.07
NSPCL	2.13	0.07
AD HYDRO	1.98	0.07
RGPPL	1.95	0.07
RENEW_SVIHAAN	1.91	0.06
SIMHAPURI	1.87	0.06
TATA_ANTP	1.87	0.06
ADHUNIK POWER LTD	1.84	0.06
SJVN GREEN	1.81	0.06
RSTPS_FSPP	1.80	0.06
DCPP	1.76	0.06
NAPP	1.75	0.06
SRSSFPL	1.75	0.06
BBMB	1.45	0.05
YARROW_PVGD	1.36	0.05
AVAADA2_PVGD	1.35	0.05
Railways_ER ISTS	1.32	0.04
ABSP_ANTP	1.31	0.04
AHSP_ANTP	1.31	0.04
AKS_PVGD	1.28	0.04

FRV_NPK	1.25	0.04
KOTESHWAR	1.22	0.04
MEENAKSHI	1.22	0.04
EMCO	1.21	0.04
MYTRAH_TCN	1.19	0.04
BETAM_TCN	1.17	0.04
RKM POWER	1.17	0.04
AKSP_ANTP	1.17	0.04
RENEW_SLR	1.08	0.04
GMR KAMALANGA	1.05	0.04
CHUZACHEN HEP	1.05	0.03
JAYPEE NIGRIE	0.94	0.03
RONGNICHU HEP	0.94	0.03
ADANI SLR 4	0.91	0.03
RANGANADI HEP	0.83	0.03
MIZORAM	0.83	0.03
LANKO_AMK	0.82	0.03
TRN ENERGY	0.74	0.02
ONGC PALATANA	0.69	0.02
NAGALAND	0.69	0.02
RAPC	0.67	0.02
NEA-Bihar	0.63	0.02
NJPC	0.62	0.02
GSECL P-II	0.61	0.02
LANKO KONDAPALLI	0.52	0.02
RANGIT HEP	0.50	0.02
JORETHANG	0.49	0.02
SAINJ HEP	0.47	0.02
TASHIDENG HEP	0.42	0.01
KSK MAHANADI	0.38	0.01
GSECL_Radhanesda	0.35	0.01
IL&FS	0.28	0.01
RAMPUR HEP	0.26	0.01
PARE HEP	0.26	0.01
DOYANG HEP	0.22	0.01
POWERGRID HVDC	0.15	0.01
LOKTAK	0.06	0.002
LANCO BUDHIL	0.02	0.0006
HVDC ALPD	0.02	0.0006
NFF	0.01	0.0005
HVDC PUS	0.001	0.00004
TOTAL	2990.51	100.00
Volume Imported by top 5 Regional Entities	662.92	22.17

Source: NLDC

Table-34: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES AND THROUGH TRADERS (BILATERAL), IULY 2024

	JULY 2024					
Sr.	Details of REC Transactions	Thro	Bilateral			
No	Details of KEC Transactions	IEX	PXIL	HPX	through Traders	
1	Volume of Buy Bid	3150109	2176332	1400.00	-	
2	Volume of Sell Bid	6180666	5787717	2988663	-	
3	Ratio of Buy Bid to Sell Bid Volume	0.51	0.38	0.0005	-	
4	Traded Volume (MWh)	3150109	2176332	1400.00	44460	
5	Weighted Average Price (₹/MWh)	122.24	121.55	140.00	149.79	

Source: Power Exchanges & Grid-India REC Report

Note: 1 REC = 1 MWh

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

Table-35(a): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAYAHEAD MARKET AT IEX, JULY 2024

Sr.	Neighbouring	Volume (MU)			Weighted Ay (₹/k)	verage Price Wh)
No.	Country	Sale	Purchase	Net*	Sale	Purchase
1	Nepal	360.64	0.00	-360.64	5.01	-
2	Bhutan	59.89	0.00	-59.89	5.39	-
	Total	420.53	0.00	-420.53	-	-

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

Tab	Table-35(b): VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH REAL TIME MARKET AT IEX, JULY 2024						
Sr.	Sr.NeighbouringVolume (MU)Weighted Average Price (₹/kWh)						
No.	Country	Sale Purchase Net*		Sale	Purchase		
1	Nepal	28.08	0.00	-28.08	3.71	-	
2	Bhutan	0.71	0.00	-0.71	4.20	-	
	Total	28.79	0.00	-28.79	-	-	

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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