

Monthly Report on Short-term Transactions of Electricity in India

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Abbreviations

Abbreviation	Expanded Version
ABSP_ANTP	Acme Bhiwadi Solar Power Private Limited, Anantpur
ACBIL	ACB (India) Limited
ACP	Area Clearing Price
ACV	Area Clearing Volume
ACME_SLR	ACME Solar Power Project
ACME_RUMS	Acme Rewa Ultra Mega Solar Project
ADANI GREEN	Adani Green Energy Limited
ADANIHB_SLR	Adani Hybrid Energy Jaisalmer One Limited (Solar)
ADANI_SLR 4	Adani Solar Energy Four Private Limited
ADANIHB_WIND	Adani Hybrid Energy Jaisalmer One Limited (Wind)
ADY1_PVGD	Adyah Solar Energy Pvt Ltd., Block 1 Pavagada Solar Park
ADY2_PVGD	Adyah Solar Energy Pvt Ltd., Block 2 Pavagada Solar Park
ADY3_PVGD	Adyah Solar Energy Pvt Ltd., Block 3 Pavagada Solar Park
ADY6_PVGD	Adyah Solar Energy Pvt Ltd., Block 6 Pavagada Solar Park
ADY10_PVGD	Adyah Solar Energy Pvt Ltd., Block 10 Pavagada Solar Park
ADY13_PVGD	Adyah Solar Energy Pvt Ltd., Block 13 Pavagada Solar Park
AGEMPL BHUJ	Adani Green Energy (MP) Ltd., Bhuj
AHEJOL_S_FTG2	Adani Hybrid Energy Jaisalmer One Limited (SOLAR)
AHEJOL_W_FTG2	Adani Hybrid Energy Jaisalmer One Limited (WIND)
AHEJ2L_SOLAR	Adani Hybrid Energy Jaisalmer Two Limited (Solar)
AHEJ3L_SOLAR	Adani Hybrid Energy Jaisalmer Three Limited (Solar)
AHEJ4L_SOLAR	Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Solar
AHEJ4L_WIND	Adani Hybrid Energy Jaisalmer Four Limited-Hybrid Wind
AHSP_ANTP	Acme Hisar Solar Power Private Limited, Anantpur
AKS_PVGD	ACME Kurukshetra Solar Energy Pvt. Ltd
AKSP_ANTP	Acme Karnal Solar Power Private Limited, Anantpur
ALFANAR_BHUJ	Alfanar Group Wind Project, Bhuj, Gujarat
AMPS Hazira	Arcelor Mittal Nippon Steel, Hazira
APTEL	Appellate Tribunal for Electricity
ARERJL_SLR	Adani Renewable Energy Park Rajasthan Ltd.
ARINSUM_RUMS	Solenergi Rewa Ultra Mega Solar Project
ARS_PVGD	ACME REWARI Solar Power Pvt Ltd.
ASEJTL_SLR	Adani Solar Energy Jodhpur Two Ltd.
AVAADA1_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 1
AVAADA2_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 2
AVADARJHN_SLR	Avaada Rjhn Private Limited_Solar
AYANA_NPKUNTA	Ayana Power, NP Kunta
AZURE_ANTP	Azure Power, Anantpur
AZURE_PVGD	Azure Power, Pavagada
AZURE_SLR	Azure Power Solar Power Project
AZURE34_SLR	Azure Power 34 Pvt. Ltd. Solar Power Project
AZURE43_SLR	Azure Power Forty Three Private Limited
BALCO	Bharat Aluminum Company Limited
BARC	Bhabha Atomic Research Centre
BBMB	Bhakra Beas Management Board
BETAM_TCEN	Betam Wind Energy Private Limited, Tuticorin

BHADRAVATHI HVDC	Bhadravathi High Voltage Direct Current Link
BRBCL	Bhartiya Rail Bijlee Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUKHA HEP	Chhukha Hydroelectric Project, Bhutan
CHUZACHEN HEP	Chuzachen Hydro Electric Power Project
CLEAN_SLR	Clean Solar Power Pvt. Ltd
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DAM	Day Ahead Market
DB POWER	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DGEN MEGA POWER	DGEN Mega Power Project
DGPCL Bhutan	Druk Green Power Corporation Ltd., Bhutan
DHARIWAL POWER	Dhariwal Power Station
DIKCHU HEP	Dikchu Hydro-electric Project, Sikkim
DOYANG HEP	Doyang Hydro Electric Project
DSM	Deviation Settlement Mechanism
DVC	Damodar Valley Corporation
EDEN_SLR	Eden RE Cite Private limited
EMCO	EMCO Energy Limited
ESPL_RADHANESDA	Electro Solaire Private Limited, Radhanesda
ESSAR POWER	Essar Power Limited
ESSAR STEEL	Essar Steel Ltd
FORTUM1_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 1
FORTUM2_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 2
FRV_ANTP	Fotowatio Renewable Ventures, Anantapur
FRV_NPK	Fotowatio Renewable Ventures, NP Kunta
GIPCL_RADHANESDA	Gujarat Industries Power Company Ltd, Radhanesda
GIWEL_BHUJ	Green infra wind energy Limited, Bhuj
GIWEL_TCN	Green Infra Wind Energy Limited, Tuticorin
GMR CHHATTISGARH	GMR Chhattisgarh Energy Limited
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
G-DAM	Green Day Ahead Market
G-TAM	Green Term Ahead Market
HVDC ALPD	Alipurduar High Voltage Direct Current Link
HVDC CHAMPA	Champa-Kurukshetra High Voltage Direct Current Link
HVDC PUS	Pasauli High Voltage Direct Current Link
HVDC RAIGARH	Raigarh-Pugalur High Voltage Direct Current Link
IEX	Indian Energy Exchange Limited
IGSTPS	Indira Gandhi Super Thermal Power Station Jhajjar
IL&FS	Infrastructure Leasing & Financial Services Limited
INOX_BHUJ	INOX Wind Limited, Bhuj, Gujarat
J&K	Jammu & Kashmir
JAYPEE NIGRIE	Jaypee Nigrie Super Thermal Power Project
JHABUA POWER MP	Jhabua Thermal Power Project
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
JITPL	Jindal India Thermal Power Ltd.

JORETHANG	Jorethang Loop Hydroelectric Power Project
KAPP 3&4	Kakrapar Atomic Power Station Unit 3 & 4
KARCHAM WANGTOO	Karcham Wangtoo H.E. Project
KORBA WEST POWER	Korba West Power Company Limited
KOTESHWAR	Koteshwar Hydro Power project
KREDL_PVGD	Karnataka Renewable Energy Development Ltd,Pavagada
KSK MAHANADI	KSK Mahanadi Power Ltd
KSMPL_SLR	Kilaj Solar (Maharashtra) Private Limited
KURICHU HEP	Kurichhu Hydro-electric Power Station, Bhutan
LANKO_AMK	LancoAmarkantak Power Private Limited
LANKO BUDHIL	LancoBudhil Hydro Power Private Limited
LANKOKONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MAHINDRA_RUMS	Mahindra Rewa Ultra Mega Solar Project
MAHOBASL	Mahoba Solar Power Project
MALANA	Malana Hydroelectric Plant
MANGDECHU HEP	Mangdechhu Hydroelectric Project, Mangdechhu River, Bhutan
Maruti Coal	Maruti Clean Coal and Power Limited
MB POWER	MB Power Ltd
MEENAKSHI	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MRPL	Mahindra Renewables Private Limited
MTPS II	Muzaffarpur Thermal Power Station – Stage II
MYTRAH_TC	Mytrah Energy (India) Private Limited,Tuticorin
MU	Million Units
NAPP	Narora Atomic Power Plant
NCR ALLAHABAD	North Central Railway, Allahabad
NEEPCO	North Eastern Electric Power Corporation Limited
NEP	Nepal
NFL	National Fertilisers Limited
NHPC STATIONS	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLC	Neyveli Lignite Corporation Limited
NLDC	National Load Dispatch Centre
NPGC	Nabinagar Power Generating Company (Pvt.) Limited
NSPCL	NTPC - SAIL Power Company Private Limited
NTECLVallur	NTPC Tamil Nadu Energy Company Limited Vallur
NTPC_ANTP	NTPC Anantapur
NTPC STATIONS	National Thermal Power Corporation Ltd. Stations
NTPL	NLC Tamil Nadu Power Limited
NVVN	NTPC Vidyut Vyapar Nigam Limited
ONGC Platana	ONGC Tripura Power Company
OPGC	Odisha Power Generation Corporation
ORANGE_TC	Orange Renewable Power Pvt. Ltd,Tuticorin
OSTRO	Ostro Energy Private Limited
OTC	Over The Counter
PARAM_PVGD	Parampujya Solar Energy Private Ltd
PARE HEP	Pare hydroelectric project, Arunachal Pradesh
PX	Power Exchange
PXIL	Power Exchange India Limited

RAIL	Indian Railways
RAMPUR HEP	Rampur Hydro Electric Power Project
RANGIT HEP	Rangit Hydroelectric power project
RANGANADI HEP	Ranganadi Hydro Electric Power Project, Arunachal Pradesh
RAP-B	Rajasthan Atomic Power Plant-B
RAP-C	Rajasthan Atomic Power Plant-C
REC	Renewable Energy Certificate
REGL	Raigarh Energy Generation Limited
RENEW_BHACHAU	ReNew Power Limited, Bhachau
RENEW_BHUJ	ReNew Power Limited, Bhuj
RENEW_PVGD	ReNew Wind Energy (TN2) Private Limited
RENEW_SLR	Renew Solar
RENEW_SLR_BKN	Renew Solar Bikaner
RENEWJH_SLR	Renew Solar Energy (Jharkhand Three) Private Limited
RENEWURJA_SLR	ReNew Solar Urja Private Limited
RGPPL_IR	Ratnagiri Gas and Power Private Ltd., supply to Indian Railways
RGPPL_OTHER	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Dispatch Centre
RONGNICHU HEP	RongnichuHydro Electric Power Project
RPREL	Raipur Energen Limited
RSTPS_FSPP	NTPC Ramagundam STPS- Floating Solar PV Project
RTC	Round The Clock
RTM	Real Time Market
SasanUMPP	Sasan Ultra Mega Power Project
SB_SLR	Soft Bank Solar
SB6_POKARAN	SB Energy SixPrivate Limited, Pokaran
SBG_CLEANTECH_SLR	SBG Cleantech Ltd
SBG_NPK	SB Energy Solar Private Limited, NP Kunta
SBG_PVGD	SB Energy Solar Private Limited, Pavagada
SBSR_SLR	SBSR Power Cleantech Eleven Private Limited
SEMBCORP	SembcorpGayatri Power Ltd
SIMHAPURI	Simhapuri Energy Private Limited
SKS Power	SKS Power Generation Chhattisgarh Limited
SINGOLI BHATWARI HEP	Singoli-Bhatwari Hydroelectric Project, Uttarakhand
SPRNG_NPKUNTA	Sprng Energy, NP Kunta
SPRING_PUGALUR	Spring Solar Power Private Limited, Pugalur
TALA HEP	Tala Hydroelectric Project, Bhutan
TASHIDENG HEP	Tashiding Hydro Electric Project, Sikkim
TATA_ANTP	TATA Power Anantapur
TATA_PVGD	Tata Power Renewable Energy Ltd
TATA_SLR	Tata Solar
TEESTA STG3	Teesta Stage 3 Hydro Power Project
TEHRI	Tehri Hydro Electric Power Project
TAM	Term Ahead Market
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
TPREL_RADHANESDA	Tata Power Renewable Energy Limited, Radhanesda
VINDHYACHAL HVDC	Vindhyachal High Voltage Direct Current Link
YARROW_PVGD	Yarrow Infra Structure Private Ltd

1. Introduction

1.1. A well-functioning electricity market requires an effective market monitoring process. The monthly report on short-term transactions of electricity, published by CERC since 2008 as part of its market monitoring process, provides a snapshot of key aspects of short-term transactions of electricity in India. Here, “short-term transactions of electricity” refers to the contracts of less than one year period, for electricity transacted (inter-State) through inter-State Trading Licensees and directly by the Distribution Licensees, Power Exchanges (Indian Energy Exchange Ltd (IEX) and Power Exchange India Ltd (PXIL)), and Deviation Settlement Mechanism (DSM). The main objectives of the report are: (i) to analyze 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 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 during the month of **February 2022** is presented in the following sections.

2. Volume of Short-term Transactions of Electricity

2.1. During February 2022, total electricity generation, excluding generation from renewable and captive power plants in India was 104230.33 MU (Table-1). Of the total electricity generation, 15.10% was transacted through short-term, comprising of 7.06% through Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM) of power exchanges, followed by 6.27% through bilateral (through traders and term-ahead contracts on power exchanges and directly between distribution companies) and 1.77% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions (15741.84 MU), 46.75% was transacted through DAM (including G-DAM) and RTM of power exchanges, followed by 41.54% through bilateral (30.66% through traders and term-ahead contracts on power exchanges, and 10.88% directly between distribution companies) and 11.71% through DSM (Table-1 & Figure-2). Daily volume of short-term transactions is shown in Table-25 & Figure-4.

2.3. Of the total volume of electricity transacted through power exchanges, 62.62% of the volume was transacted in DAM (including G-DAM), followed by 20.60% in Term Ahead Market (TAM) (including G-TAM) and 16.78% in RTM (Figure-3).

2.4. The share of electricity traded by each trading licensee is given in Table-2 & Figure-5. The volume of electricity transacted by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges. There were 40 trading licensees as of February 2022. Of which, 27 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 78.52% 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 for measuring the competition among the trading licensees. Increase in the HHI generally indicates decrease in competition and increase of 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 0.2439 for the month of February 2022, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX and PXIL was 5612.07 MU and 0.76 MU respectively. The volume of total buy bids and sell bids was 8037.32 MU and 9066.03 MU respectively in IEX, while the same was 9.82 MU and 26.17 MU respectively in PXIL.

2.7. The volume of electricity transacted in the G-DAM of IEX was 191.20 MU, while no electricity was transacted in the G-DAM of PXIL. The volume of total buy bids and sell bids was 715.00 MU and 230.92 MU respectively in IEX. The volume of total buy bids was 3.08 MU in PXIL, while no sell bids were received.

2.8. The volume of electricity transacted in the RTM of IEX was 1555.78 MU, while no electricity was transacted in the RTM of PXIL. The volume of total buy bids and sell bids was 2406.19 MU and 2624.45 MU respectively in IEX, while there were no bids in PXIL. The

variation in the volume of buy bids and sell bids placed through power exchanges shows variation in the demand and supply position.

2.9. The volume of electricity transacted in the TAM of IEX and PXIL was 526.80 MU and 734.92 MU respectively (Table-8 & Table-9). The volume of electricity transacted in the Green Term Ahead Market (G-TAM) of IEX and PXIL was 257.93 MU and 389.41 MU respectively (Table-10 & Table-11).

3. Price of Short-term Transactions of Electricity

3.1. **Price of electricity transacted through Traders:** The minimum, maximum and weighted average sale prices for the electricity transacted through traders were ₹2.42/kWh, ₹7.58/kWh and ₹3.94/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 ₹3.87/kWh, ₹4.80/kWh and ₹4.43/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 ₹2.00/kWh, ₹20.00/kWh and ₹4.60/kWh respectively. These prices in the DAM of PXIL were ₹3.99/kWh, ₹5.99/kWh and ₹5.34/kWh respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹2.50/kWh, ₹18.00/kWh and ₹4.78/kWh respectively. (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹1.64/kWh, ₹20.00/kWh and ₹4.69/kWh respectively (Table-7). The weighted average price of electricity transacted in the TAM of IEX and PXIL was ₹4.57/kWh and ₹4.47/kWh respectively (Table-8 and Table-9). The price of electricity transacted in the G-TAM of IEX and PXIL was ₹4.77/kWh and ₹4.91/kWh respectively (Table-10 and Table-11).

3.3. **Price of electricity transacted through DSM:** The minimum, maximum and average price of DSM was ₹0.00/kWh, ₹8.00/kWh and ₹4.06/kWh respectively (Table-12).

3.4. The comparison of weighted average prices of electricity transacted through trading licensees, power exchanges & average price of DSM are shown in Figure-6. The daily prices

of electricity transacted through power exchanges & DSM and their comparison are shown in Table-26(a) & (b) and Figure-7.

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 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 ₹0.027/kWh.

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

5.1. Of the total bilateral transactions, top 5 regional entities/states sold 39.80% of the volume. These were Punjab, Raipur Energen Limited, Karnataka, Jindal India Thermal Power Ltd. and Delhi (Table-13). Top 5 regional entities/states purchased 55.64% of the volume, and these were Gujarat, Madhya Pradesh, Odisha, Tamil Nadu and Rajasthan (Table-14).

5.2. Of the total DAM transactions of power exchanges, top 5 regional entities/states sold 53.84% of the volume, and these were Uttar Pradesh, West Bengal, Bihar, Chhattisgarh and Jindal Power Ltd Stage II (Table-15). Top 5 regional entities/states purchased 58.72% of the volume, and these were Gujarat, Telangana, Tamil Nadu, Jammu & Kashmir and Maharashtra (Table-16).

5.3. Of the total G-DAM transactions of power exchanges, top 5 regional entities/states sold 86.33% of the volume, and these were Karnataka, Madhya Pradesh, Adani Hybrid Energy Jaisalmer One Limited (Solar), Adani Hybrid Energy Jaisalmer Three Limited (Solar) and Jammu & Kashmir (Table-17). Top 5 regional entities/states purchased 82.41% of the volume, and these were Dadra & Nagar Haveli, Assam, West Bengal, Odisha and Maharashtra (Table-18).

¹ In case of a State, the entities which are “selling” also include generators connected to State Grid and the entities which are “buying” also include open access consumers.

5.4. Of the total RTM transactions of power exchanges, top 5 regional entities/states sold 54.28% of the volume, and these were West Bengal, Bihar, Madhya Pradesh, Rajasthan and Uttar Pradesh (Table-19). Top 5 regional entities/states purchased 66.80% of the volume, and these were Jammu & Kashmir, Andhra Pradesh, Telangana, Maharashtra and Gujarat (Table-20).

5.5. Of the total DSM transactions, top 5 regional entities/states under drew 25.89% of the volume, and these were Uttar Pradesh, Maharashtra, NTPC Stations (Western Region), NHPC Stations and Kerala (Table-21). Top 5 regional entities/states overdrew 26.90% of the volume, and these were NTPC Stations (Western Region), NTPC Stations (Northern Region), Rajasthan, Andhra Pradesh and Haryana (Table-22).

5.6. The total volume of net short-term transactions of electricity (Regional entity-wise), i.e., volume of net transactions through bilateral, power exchanges and DSM are shown in Table-23 & 27. Top 5 electricity selling regional entities/states were Uttar Pradesh, West Bengal, Bihar, Raipur Energen Limited and Chhattisgarh. Top 5 electricity purchasing regional entities/states were Gujarat, Tamil Nadu, Maharashtra, Jammu & Kashmir and Telangana.

6. Congestion² on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges

6.1. Power exchanges use a price discovery mechanism in which the aggregate demand and supply are matched to arrive at an unconstrained market price and volume. This process assumes that there is no congestion in the inter-State transmission system between different regions. However, in reality, the system operator (NLDC) in coordination with RLDCs limits the flow (due to congestion) in the inter-State transmission system. In such a situation, power exchanges adopt a mechanism called “Market Splitting”³.

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

³ “Market Splitting” is a mechanism adopted by Power Exchanges, where the market is split in the event of transmission congestion, into predetermined (by NLDC) bid areas or zones, which are cleared individually at their respective area prices such that the energy balance in every bid area is reached based upon the demand and supply in individual bid areas and using the available transmission corridor capacity between various bid areas simultaneously. As a result of this market splitting the

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 February 2022, congestion was experienced in RTM on IEX only (Table-24).

6.3. The volume of electricity that could not be cleared, due to congestion, in RTM on IEX was 0.003% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.19% during the month (Table-24).

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

7.1. The concept of Renewable Energy Certificates (RECs) seeks to address mismatch between 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 development of 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 details of REC transactions for the month of February 2022 are shown in Table-28. The market clearing volume of solar RECs transacted on IEX and PXIL were 167447 and 12590 respectively and the weighted average market clearing price of these RECs was ₹2300/MWh in IEX and ₹2201/MWh in PXIL. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 444295 and 160702 respectively and the weighted average market clearing price of these RECs was ₹ 1000/MWh in IEX and ₹ 1000/MWh in PXIL.

7.4. The gap between the volume of buy and sell bids of RECs placed through power exchanges shows the variation in demand for both solar and non-solar RECs. For Solar RECs,

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.

the ratio of buy bids to sell bids was 1.14 and 1.00 in IEX and PXIL respectively. For non-solar RECs, the ratio of buy bids to sell bids 0.37 and 0.33 in IEX and PXIL respectively.

8. Inferences:

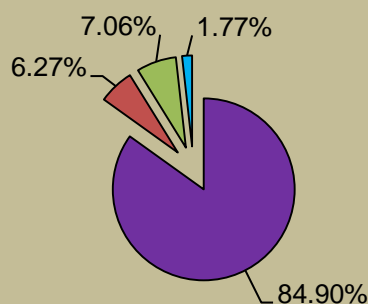
- a) The percentage of short-term transactions of electricity to total electricity generation was 15.10%.
- b) Of the total short-term transactions (15741.84 MU), 46.75% was transacted through DAM (including G-DAM) and RTM of power exchanges, followed by 41.54% through bilateral (30.66% through traders and term-ahead contracts on power exchanges, and 10.88% directly between distribution companies) and 11.71% through DSM.
- c) Of the total volume of electricity transacted through power exchanges, 62.62% of the volume was transacted in DAM (including G-DAM), followed by 20.60% in Term Ahead Market (TAM) (including G-TAM) and 16.78% in RTM.
- d) Top 5 trading licensees had a share of 78.52% 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 0.2439, indicating moderate concentration of market power.
- f) The weighted average price of electricity transacted through trading licensees was ₹3.94/kWh.
- g) The weighted average price of electricity transacted in the TAM of IEX and PXIL was ₹4.57/kWh and ₹4.47/kWh respectively. The weighted average price of electricity transacted in the G-TAM of IEX and PXIL was ₹4.77/kWh and ₹4.91/kWh respectively.
- h) The weighted average price of electricity transacted in DAM of IEX and PXIL was ₹4.60/kWh and ₹5.34/kWh. The weighted average price of electricity transacted in G-DAM of IEX was ₹4.78/kWh. The weighted average price of electricity transacted in RTM of IEX was ₹4.69/kWh. No electricity was transacted in the G-DAM & RTM of PXIL.
- i) The average price of electricity transacted through DSM was ₹4.06/kWh.

- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.027/kWh, which was in line with the Trading Licence Regulations 2020.
- k) Top 5 electricity selling regional entities/states were Uttar Pradesh, West Bengal, Bihar, Raipur Energen Limited and Chhattisgarh. Top 5 electricity purchasing regional entities/states were Gujarat, Tamil Nadu, Maharashtra, Jammu & Kashmir and Telangana.
- l) During the month, congestion was experienced in RTM on IEX only. The volume of electricity that could not be cleared, due to congestion, in RTM on IEX was 0.003% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.19% during the month.
- m) The market clearing volume of solar RECs transacted on IEX and PXIL were 167447 and 12590 respectively and the weighted average market clearing price of these RECs was ₹2300/MWh in IEX and ₹2201/MWh in PXIL. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 444295 and 160702 respectively and the weighted average market clearing price of these RECs was ₹ 1000/MWh in IEX and ₹ 1000/MWh in PXIL

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), FEBRUARY 2022				
Sr.No	Short-term transactions	Volume (MU)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	6539.03	41.54	6.27
	(i) Through Traders and PXs	4826.02	30.66	4.63
	(ii) Direct	1713.02	10.88	1.64
2	Through Power Exchanges	7359.81	46.75	7.06
	(i) IEX			
	(a) DAM	5612.07	35.65	5.38
	(b) RTM	1555.78	9.88	1.49
	(c) GDAM	191.20	1.21	0.18
	(ii)PXIL			
	(a) DAM	0.76	0.005	0.001
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
3	Through DSM	1842.99	11.71	1.77
	Total	15741.84	-	15.10
	Total Generation	104230.33	-	-

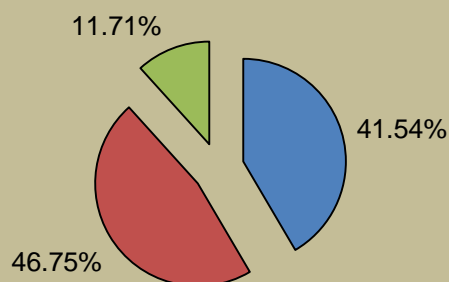
Source: NLDC

Figure-1: Volume of Various Kinds of Electricity Transactions in Total Electricity Generation, February 2022



■ Long-term ■ Bilateral ■ Through Power Exchanges ■ Through DSM

Figure-2: Volume of Short-term Transactions of Electricity, February 2022



■ Bilateral ■ Power Exchanges ■ DSM

Figure-3: Volume transacted in different markets segments on Power Exchanges, February 2022

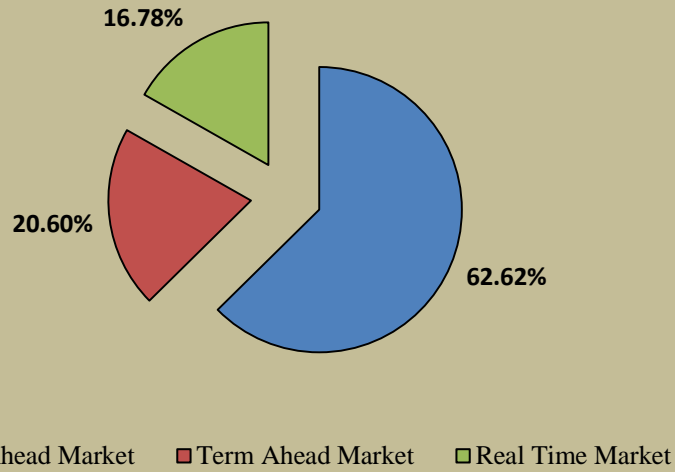


Figure-4: Volume of Short-term Transactions of Electricity, February 2022 (Day-wise)

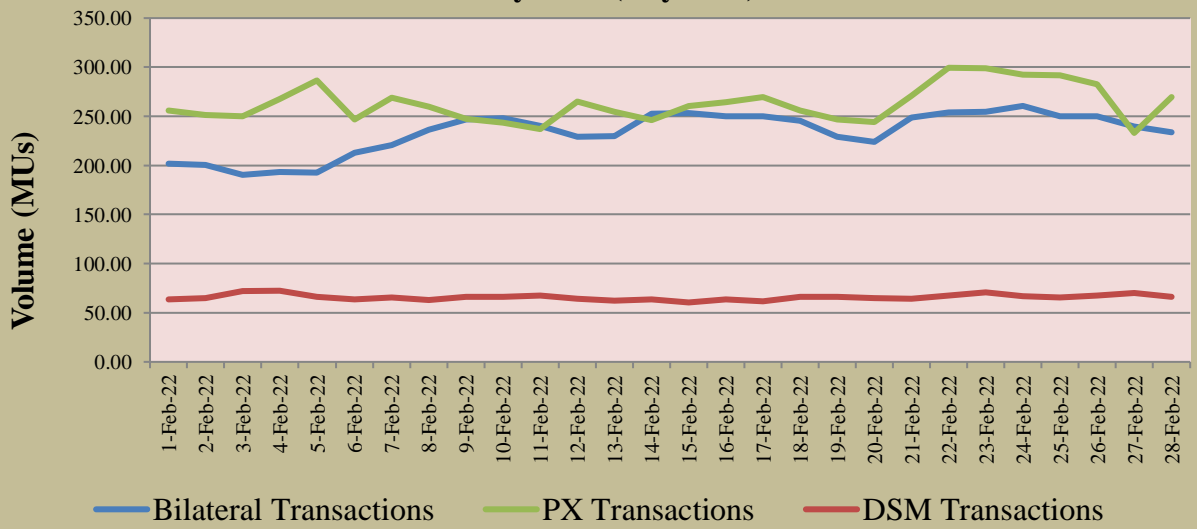


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, FEBRUARY 2022

Sr. No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl-Hirschman Index
1	PTC India Ltd.	45.76	0.2094
2	NTPC Vidyut Vyapar Nigam Ltd.	10.82	0.0117
3	Adani Enterprises Ltd.	8.24	0.0068
4	Tata Power Trading Company (P) Ltd.	7.85	0.0062
5	Manikaran Power Ltd.	5.85	0.0034
6	Essar Electric Power Development Corp. Ltd.	4.43	0.0020
7	GMR Energy Trading Ltd.	4.23	0.0018
8	Arunachal Pradesh Power Corporation (P) Ltd	3.57	0.0013
9	Kreate Energy (I) Pvt. Ltd.	2.88	0.0008
10	Instinct Infra & Power Ltd.	1.80	0.0003
11	Knowledge Infrastructure Systems (P) Ltd	1.04	0.0001
12	National Energy Trading & Services Ltd.	0.80	0.0001
13	RPG Power Trading Company Ltd.	0.61	0.0000
14	Shubheksha Advisors Pvt. Ltd.	0.44	0.0000
15	Abja Power Private Limited	0.39	0.0000
16	JSW Power Trading Company Ltd	0.38	0.0000
17	Refex Energy Limited	0.28	0.0000
18	Statkraft Markets Pvt. Ltd.	0.20	0.0000
19	Ambitious Power Trading Company Ltd.	0.17	0.0000
20	Greenko Energies Pvt Ltd	0.09	0.0000
21	NLC India Ltd.	0.06	0.0000
22	Shree Cement Ltd.	0.05	0.0000
23	Saranyu Power Trading Private Limited	0.03	0.0000
24	Customized Energy Solutions India (P) Ltd.	0.03	0.0000
25	Altilium Energie Private Limited	0.01	0.0000
26	Phillip Commodities India (P) Ltd.	0.01	0.0000
27	Gita Power & Infrastructure Private Limited	0.002	0.0000
TOTAL		100.00%	0.2439
Top 5 trading licensees		78.52%	

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

Note 2: Volume of electricity transacted by Global Energy Ltd. is not included.

Source: Information submitted by trading licensees

Figure 5: Percentage Share of Electricity Transacted by Trading Licensees, February 2022

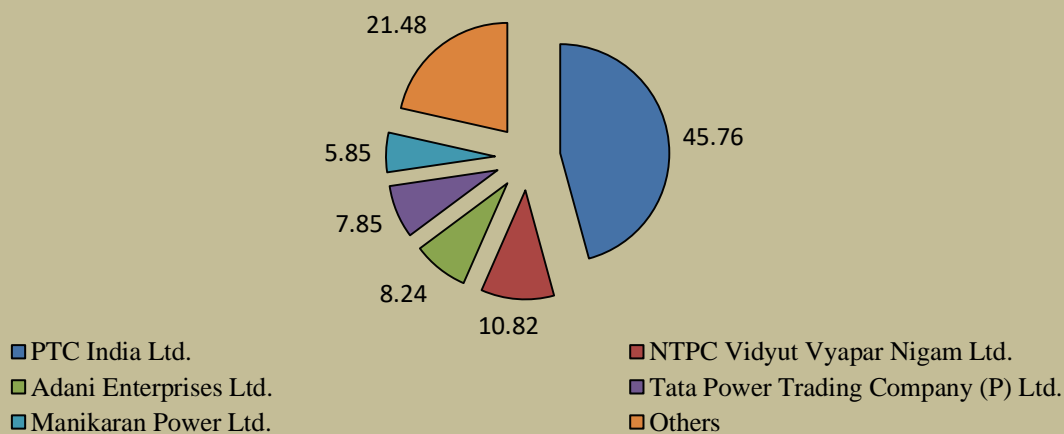


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, FEBRUARY 2022		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.42
2	Maximum	7.58
3	Weighted Average	3.94

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), FEBRUARY 2022		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	3.87
2	PEAK	4.80
3	OFF PEAK	4.43

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	2.00	3.99
2	Maximum	20.00	5.99
3	Weighted Average	4.60	5.34

Source: IEX and PXIL

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	2.50	-
2	Maximum	18.00	-
3	Weighted Average	4.78	-

Source: IEX and PXIL

Table-7: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	1.64	-
2	Maximum	20.00	-
3	Weighted Average	4.69	-

Source: IEX and PXIL

Table-8: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, FEBRUARY 2022			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	163.00	5.44
2	Daily Contracts	363.80	4.18
	Total	526.80	4.57

Source: IEX

Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, FEBRUARY 2022			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	1.41	7.08
2	Day Ahead Contingency Contracts	526.84	4.56
3	Any Day(s) Contracts	206.68	4.24
	Total	734.92	4.47

Source: PXIL

Table-10: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, FEBRUARY 2022			
Sr.No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	1.41	3.62
2	Day Ahead Contingency Contracts	236.24	4.82
3	Daily Contracts	13.76	4.28
4	Weekly Contracts	6.52	3.97
	Total	257.93	4.77

Source: IEX

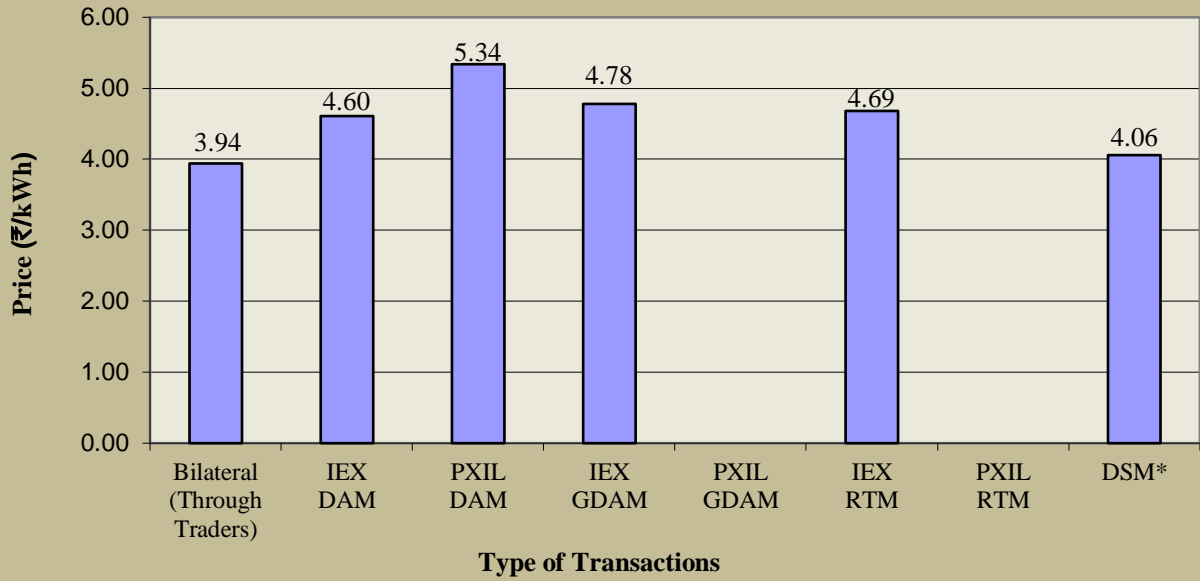
Table-11: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, FEBRUARY 2022			
Sr.No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	389.41	4.91
	Total	389.41	4.91

Source: PXIL

Table-12: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, FEBRUARY 2022		
Sr.No	Item	Price in All India Grid (₹/kWh)
1	Minimum	0.00
2	Maximum	8.00
3	Average	4.06

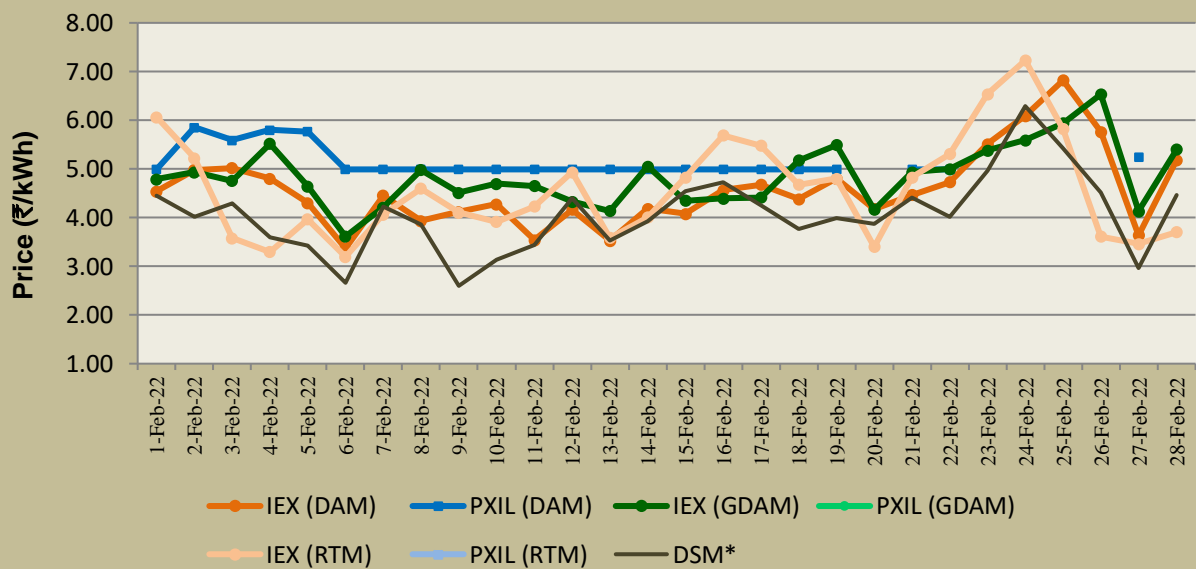
Source: NLDC

Figure-6: Weighted Average Price of Short-term Transactions of Electricity, February 2022



* Simple average price of DSM of the month

Figure-7: Weighted Average Price of Short-term Transactions of Electricity, February 2022 (Day-wise)



Note: On PXIL, no transactions were recorded in DAM on 20th, 23rd – 26th and 28th February 2022. Further, no electricity was transacted in G-DAM & RTM of PXIL during February 2022.

* Simple average price of DSM for each day of the month

Table-13: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, FEBRUARY 2022		
Name of the Entity	Volume of Sale (MUs)	% of Volume
PUNJAB	686.19	10.49
RPREL	564.70	8.63
KARNATAKA	472.56	7.23
JITPL	460.94	7.05
DELHI	418.60	6.40
DB POWER	363.75	5.56
UTTAR PRADESH	349.79	5.35
ESSAR POWER	275.12	4.21
HARYANA	245.58	3.75
REGL	239.76	3.67
RKM POWER	211.97	3.24
SEMBCORP	209.27	3.20
JAYPEE NIGRIE	195.80	2.99
ADHUNIK POWER LTD	145.81	2.23
JINDAL STAGE-II	138.97	2.12
BIHAR	131.21	2.01
DVC	128.56	1.97
WEST BENGAL	116.88	1.79
CHHATTISGARH	109.37	1.67
JINDAL POWER	105.80	1.62
ODISHA	98.11	1.50
AHEJ4L_SOLAR	66.36	1.01
MB POWER	66.20	1.01
SKS POWER	62.23	0.95
RENEWURJA_SLR	59.02	0.90
ADANIHB_SLR	58.52	0.89
RENEWJH_SLR	50.64	0.77
J & K	50.15	0.77
AYANA_RPI	43.60	0.67
AHEJ3L_SOLAR	38.51	0.59
TEESTA HEP	35.90	0.55
TATA_SLR	32.68	0.50
MP	31.21	0.48
TELANGANA	30.75	0.47
JHABUA POWER_MP	27.28	0.42
AHEJ2L_SOLAR	20.14	0.31
DAGACHU	19.32	0.30
AHEJ4L_WIND	15.47	0.24
MAHARASHTRA	12.91	0.20
ONGC PALATANA	12.82	0.20
GMR KAMALANGA	12.38	0.19
ADANI_WIND	11.45	0.18
SINGOLI BHATWARI HEP	10.77	0.16
ASEJTL_SLR	10.21	0.16
HIMACHAL PRADESH	9.11	0.14
LANKO_AMK	9.07	0.14
RENEW_SR_SLR	9.00	0.14
SORANG HEP	7.46	0.11
NEEPCO STATIONS	6.28	0.10

UTTARAKHAND	5.43	0.08
ADANIHB_WIND	5.15	0.08
JHARKHAND	4.53	0.07
TASHIDENG HEP	4.01	0.06
OSTRO	3.99	0.06
JORETHANG	3.76	0.06
DIKCHU HEP	3.56	0.05
NAGALAND	3.36	0.05
RAJASTHAN	3.28	0.05
AHEJ2L_WIND	3.17	0.05
ANDHRA PRADESH	2.48	0.04
MEGHALAYA	2.31	0.04
AHEJ3L_WIND	2.31	0.04
CONTINNUM PT	2.12	0.03
AZURE_MAPLE_SLR	1.33	0.02
GUJARAT	1.04	0.02
Total	6540.02	100.00
Volume Sold by top 5 Regional Entities	2602.99	39.80

Table-14: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, FEBRUARY 2022		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
GUJARAT	975.66	14.92
MP	965.07	14.76
ODISHA	658.94	10.08
TAMIL NADU	597.36	9.14
RAJASTHAN	441.22	6.75
HIMACHAL PRADESH	440.79	6.74
MAHARASHTRA	379.96	5.81
KARNATAKA	243.26	3.72
UTTARAKHAND	226.15	3.46
WEST BENGAL	173.90	2.66
KERALA	170.47	2.61
AMPS Hazira	159.93	2.45
JHARKHAND	157.97	2.42
DELHI	124.83	1.91
HARYANA	93.03	1.42
BALCO	88.29	1.35
TELANGANA	80.81	1.24
MEGHALAYA	76.15	1.16
BIHAR	70.69	1.08
CHHATTISGARH	64.92	0.99
ANDHRA PRADESH	52.04	0.80
UTTAR PRADESH	42.95	0.66
SIKKIM	40.71	0.62
NEP	36.96	0.57
GOA	35.09	0.54
NCR ALLAHABAD	31.21	0.48
MANIPUR	27.83	0.43
PUNJAB	22.78	0.35
NEPAL(NVVN)	22.64	0.35
ARUNACHAL PRADESH	19.99	0.31
DVC	14.08	0.22
NAGALAND	3.36	0.05
TOTAL	6539.03	100.00
Volume Purchased by top 5 Regional Entities	3638.26	55.64

Table-15: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022		
Name of the Entity	Volume of Sale (MUs)	% of Volume
UTTAR PRADESH	852.59	15.19
WEST BENGAL	802.00	14.29
BIHAR	639.84	11.40
CHHATTISGARH	406.11	7.24
JINDAL STAGE-II	321.28	5.72
RAJASTHAN	256.09	4.56
SEMBCORP	223.15	3.98
MP	221.79	3.95
ODISHA	187.26	3.34
ESSAR POWER	139.01	2.48
JAYPEE NIGRIE	124.28	2.21
ASSAM	118.70	2.11
JINDAL POWER	115.52	2.06
DELHI	91.66	1.63
RPREL	86.40	1.54
ACBIL	83.09	1.48
MB POWER	76.88	1.37
RKM POWER	73.27	1.31
TEESTA STG3	71.87	1.28
HIMACHAL PRADESH	68.98	1.23
JHARKHAND	66.84	1.19
TELANGANA	64.94	1.16
KERALA	46.70	0.83
TRIPURA	35.68	0.64
JITPL	34.53	0.62
NEEPCO STATIONS	33.38	0.59
KARNATAKA	29.21	0.52
DB POWER	28.39	0.51
GOA	27.08	0.48
ADHUNIK POWER LTD	23.88	0.43
MAHARASHTRA	23.13	0.41
NLC	20.32	0.36
GMR KAMALANGA	19.01	0.34
ANDHRA PRADESH	16.56	0.30
MARUTI COAL	16.17	0.29
DVC	15.95	0.28
ARUNACHAL PRADESH	12.76	0.23
JHABUA POWER_MP	11.11	0.20
KARCHAM WANGTOO	10.72	0.19
AD HYDRO	10.04	0.18
REGL	9.39	0.17
ONGC PALATANA	9.22	0.16
RGPPL	8.99	0.16
TASHIDENG HEP	8.67	0.15
TAMIL NADU	8.17	0.15
JORETHANG	7.94	0.14
SHREE CEMENT	7.15	0.13
SAINJ HEP	6.93	0.12
J & K	6.45	0.11

SIKKIM	5.65	0.10
KSK MAHANADI	4.55	0.08
DIKCHU HEP	3.95	0.07
GUJARAT	2.92	0.05
SINGOLI BHATWARI HEP	2.31	0.04
EMCO	2.15	0.04
NAGALAND	2.06	0.04
AHEJ3L_SOLAR	1.81	0.03
SKS POWER	1.20	0.02
SORANG HEP	1.08	0.02
PUNJAB	0.92	0.02
CHUZACHEN HEP	0.85	0.02
DHARIWAL POWER	0.69	0.01
ADANI_WIND	0.63	0.01
RENEW_SR_SLR	0.52	0.01
HARYANA	0.50	0.01
LANCO BUDHIL	0.43	0.01
RENEWJH_SLR	0.42	0.01
DADRA & NAGAR HAVELI	0.39	0.01
MIZORAM	0.25	0.004
ADANIHB_SLR	0.25	0.004
RENEWURJA_SLR	0.13	0.002
AHEJ2L_SOLAR	0.06	0.001
OSTRO	0.06	0.001
Total	5612.83	100.00
Volume sold by top 5 Regional Entities	3021.83	53.84

Table-16: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
GUJARAT	1282.42	22.85
TELANGANA	605.28	10.78
TAMIL NADU	581.68	10.36
J & K	433.14	7.72
MAHARASHTRA	393.07	7.00
ANDHRA PRADESH	367.32	6.54
HARYANA	364.66	6.50
RAJASTHAN	238.12	4.24
UTTARAKHAND	213.42	3.80
UTTAR PRADESH	194.81	3.47
KARNATAKA	170.78	3.04
NEPAL(NVVN)	156.04	2.78
PUNJAB	147.21	2.62
DGPCL Bhutan	104.70	1.87
DELHI	93.72	1.67
MP	71.45	1.27
ODISHA	37.33	0.67
AMPS Hazira	27.27	0.49
KERALA	26.37	0.47
HIMACHAL PRADESH	22.38	0.40
DADRA & NAGAR HAVELI	17.69	0.32
ASSAM	17.02	0.30
MEGHALAYA	16.57	0.30
BALCO	7.79	0.14
DAMAN AND DIU	4.48	0.08
GOA	4.30	0.08
JHARKHAND	3.52	0.06
RAIL	3.18	0.06
CHANDIGARH	1.96	0.03
BIHAR	1.71	0.03
NEP	1.28	0.02
NTPC STATIONS-WR	0.76	0.01
CHHATTISGARH	0.65	0.01
WEST BENGAL	0.36	0.01
ARUNACHAL PRADESH	0.27	0.005
MANIPUR	0.14	0.002
TOTAL	5612.83	100.00
Volume purchased by top 5 Regional Entities	3295.59	58.72

Table-17: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022		
Name of the Entity	Volume of Sale (MUs)	% of Volume
KARNATAKA	117.61	61.51
MP	17.14	8.96
ADANIHB_SLR	14.72	7.70
AHEJ3L_SOLAR	9.28	4.85
J & K	6.31	3.30
RENEWJH_SLR	5.16	2.70
NTPC STATIONS-SR	4.31	2.25
AHEJ2L_SOLAR	3.92	2.05
ANDHRA PRADESH	3.74	1.96
TELANGANA	3.20	1.67
ADANI_WIND	1.64	0.86
RENEWURJA_SLR	1.27	0.66
AZURE_MAPLE_SLR	1.23	0.64
RAJASTHAN	0.72	0.38
AYANA_RP1	0.38	0.20
OSTRO	0.31	0.16
CONTINNUM PT	0.08	0.04
UTTARAKHAND	0.07	0.04
RENEW_SR_SLR	0.06	0.03
HIMACHAL PRADESH	0.05	0.03
Total	191.20	100.00
Volume sold by top 5 Regional Entities	165.06	86.33

Table-18: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
DADRA & NAGAR HAVELI	52.14	27.27
ASSAM	47.15	24.66
WEST BENGAL	26.80	14.02
ODISHA	22.55	11.79
MAHARASHTRA	8.94	4.67
DELHI	5.74	3.00
KERALA	5.73	3.00
KARNATAKA	4.33	2.27
HARYANA	3.96	2.07
UTTAR PRADESH	2.63	1.38
TAMIL NADU	2.20	1.15
MEGHALAYA	1.99	1.04
BALCO	1.75	0.92
PUNJAB	1.42	0.74
UTTARAKHAND	1.33	0.70
TELANGANA	0.83	0.44
GUJARAT	0.67	0.35
BIHAR	0.57	0.30
DAMAN AND DIU	0.42	0.22
DVC	0.04	0.02
ANDHRA PRADESH	0.01	0.004
TOTAL	191.20	100.00
Volume purchased by top 5 Regional Entities	157.57	82.41

Table-19: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022

Name of the Entity	Volume of Sale (MUs)	% of Volume
WEST BENGAL	283.34	18.21
BIHAR	183.97	11.82
MP	135.46	8.71
RAJASTHAN	129.64	8.33
UTTAR PRADESH	112.05	7.20
ODISHA	106.28	6.83
CHHATTISGARH	89.01	5.72
DELHI	45.47	2.92
KERALA	37.30	2.40
DVC	31.76	2.04
MB POWER	27.98	1.80
JINDAL STAGE-II	26.62	1.71
RKM POWER	26.25	1.69
TELANGANA	26.22	1.69
TRIPURA	25.94	1.67
SEMBCORP	23.70	1.52
NEEPCO STATIONS	19.87	1.28
JHARKHAND	17.75	1.14
EMCO	17.40	1.12
HIMACHAL PRADESH	17.21	1.11
MANIPUR	16.15	1.04
ASSAM	15.84	1.02
J & K	14.67	0.94
JINDAL POWER	14.17	0.91
MAHARASHTRA	13.81	0.89
KARNATAKA	11.05	0.71
RPREL	10.07	0.65
NLC	9.82	0.63
NTPC STATIONS-SR	7.13	0.46
JHABUA POWER_MP	6.35	0.41
KSK MAHANADI	5.94	0.38
DB POWER	5.59	0.36
SIKKIM	5.07	0.33
SASAN UMPP	3.92	0.25
ANDHRA PRADESH	3.52	0.23
PUNJAB	3.32	0.21
GUJARAT	3.16	0.20
GMR KAMALANGA	2.15	0.14
ONGC PALATANA	2.02	0.13
ESSAR POWER	1.79	0.11
ACBIL	1.71	0.11
GOA	1.63	0.10
SINGOLI BHATWARI HEP	1.44	0.09
REGL	1.34	0.09
ADHUNIK POWER LTD	1.32	0.08
AD HYDRO	1.11	0.07
TAMIL NADU	1.04	0.07
JORETHANG	0.83	0.05

RENEWJH_SLR	0.79	0.05
MARUTI COAL	0.78	0.05
DADRA & NAGAR HAVELI	0.63	0.04
RGPPL_Others	0.59	0.04
RGPPL	0.56	0.04
SKS POWER	0.53	0.03
OSTRO	0.47	0.03
AHEJ3L_SOLAR	0.40	0.03
DIKCHU HEP	0.36	0.02
SHREE CEMENT	0.33	0.02
HARYANA	0.20	0.01
RENEW_SR_SLR	0.18	0.01
RENEWURJA_SLR	0.15	0.01
SAINJ HEP	0.15	0.01
RGPPL_IR	0.13	0.01
KARCHAM WANGTOO	0.11	0.01
AYANA_RP1	0.08	0.01
SORANG HEP	0.06	0.004
NAGALAND	0.05	0.003
TASHIDENG HEP	0.04	0.002
CHUZACHEN HEP	0.02	0.001
LANCO BUDHIL	0.01	0.001
UTTARAKHAND	0.001	0.0001
Total	1555.78	100.00
Volume sold by top 5 Regional Entities	844.45	54.28

Table-20: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2022		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
J & K	383.36	24.64
ANDHRA PRADESH	205.93	13.24
TELANGANA	158.84	10.21
MAHARASHTRA	152.86	9.82
GUJARAT	138.34	8.89
TAMIL NADU	88.16	5.67
HARYANA	83.93	5.39
RAJASTHAN	73.57	4.73
UTTAR PRADESH	60.25	3.87
ODISHA	36.07	2.32
PUNJAB	30.30	1.95
DELHI	30.28	1.95
UTTARAKHAND	17.49	1.12
ASSAM	15.60	1.00
WEST BENGAL	13.82	0.89
MEGHALAYA	13.43	0.86
BIHAR	9.43	0.61
BALCO	8.02	0.52
KERALA	7.35	0.47
HIMACHAL PRADESH	7.09	0.46
CHHATTISGARH	6.10	0.39
MP	4.40	0.28
KARNATAKA	3.61	0.23
AMPS Hazira	3.01	0.19
MANIPUR	0.96	0.06
MARUTI COAL	0.77	0.05
ARUNACHAL PRADESH	0.76	0.05
DVC	0.59	0.04
DAMAN AND DIU	0.52	0.03
JINDAL STAGE-II	0.29	0.02
RAIL	0.29	0.02
DADRA & NAGAR HAVELI	0.14	0.01
SIKKIM	0.09	0.01
GOA	0.06	0.004
TRIPURA	0.04	0.003
JHARKHAND	0.03	0.002
TOTAL	1555.78	100.00
Volume purchased by top 5 Regional Entities	1039.33	66.80

Table-21: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, FEBRUARY 2022		
Name of the Entity	Volume of Under drawal (MUs)	% of Volume
UTTAR PRADESH	119.03	6.47
MAHARASHTRA	98.44	5.35
NTPC STATIONS-WR	95.64	5.20
NHPC STATIONS	81.87	4.45
KERALA	81.31	4.42
MP	72.82	3.96
GUJARAT	66.06	3.59
RAJASTHAN	58.97	3.21
PUNJAB	54.23	2.95
KARNATAKA	52.22	2.84
SASAN UMP	43.20	2.35
PONDICHERRY	41.25	2.24
NTPC STATIONS-ER	39.29	2.14
NTPC STATIONS-NR	38.09	2.07
DELHI	36.85	2.00
NTPC STATIONS-SR	32.30	1.76
HARYANA	31.04	1.69
ESSAR POWER	30.60	1.66
JHARKHAND	29.69	1.61
MANGDECHU HEP	29.39	1.60
ANDHRA PRADESH	29.06	1.58
SIKKIM	28.82	1.57
J & K	24.00	1.30
AHEJ4L_SOLAR	21.36	1.16
WEST BENGAL	20.99	1.14
ODISHA	19.48	1.06
TAMIL NADU	18.74	1.02
AGEMPL BHUJ	18.39	1.00
NLC	16.34	0.89
CHHATTISGARH	16.28	0.89
CHANDIGARH	15.53	0.84
UTTARAKHAND	14.83	0.81
GIWEL_BHUJ	14.37	0.78
BBMB	13.89	0.75
HIMACHAL PRADESH	13.83	0.75
BIHAR	13.71	0.75
INOX_BHUJ	13.30	0.72
TRIPURA	10.79	0.59
NEPAL(NVVN)	10.21	0.56
OSTRO	9.74	0.53
GOA	9.57	0.52
ASSAM	9.56	0.52
RENEW_BHUJ	9.52	0.52
ALFANAR_BHUJ	8.27	0.45
AZURE43_SLR	7.78	0.42
RENEW_BHACHAU	7.61	0.41
NEEPCO STATIONS	7.38	0.40
RKM POWER	7.33	0.40
MB POWER	7.13	0.39
IGSTPS	7.08	0.38
NPGC	6.97	0.38
JINDAL STAGE-II	6.68	0.36
ADANIHB_SLR	6.11	0.33
AYANA_RP1	6.07	0.33
NJPC	5.74	0.31
RPREL	5.54	0.30
JINDAL POWER	5.31	0.29
CLEAN_SLR	5.04	0.27
RAP C	5.02	0.27
LANKO_AMK	4.91	0.27
KAPP 3&4	4.90	0.27
BETAM_TCN	4.79	0.26
GMR KAMALANGA	4.68	0.25
ADANIHB_WIND	4.59	0.25
GIWEL_TCN	4.55	0.25

MAITHON POWER LTD	4.37	0.24
JAYPEE NIGRIE	4.31	0.23
ACBIL	4.30	0.23
MIZORAM	4.17	0.23
ARERJL_SLR	4.15	0.23
JHABUA POWER_MP	4.07	0.22
AVAADASN_SLR	3.97	0.22
NTPC_ANTP	3.92	0.21
KARCHAM WANGTOO	3.88	0.21
RAMPUR HEP	3.66	0.20
SB_SLR	3.64	0.20
RGPPL	3.58	0.19
ORANGE_TCN	3.53	0.19
MEGHALAYA	3.48	0.19
RENEWSB	3.39	0.18
BRBCL,NABINAGAR	3.38	0.18
MANIPUR	3.26	0.18
DVC	3.25	0.18
JITPL	3.15	0.17
BALCO	3.10	0.17
TEHRI	3.09	0.17
NTPC STATIONS-NER	3.06	0.17
KOTESHWAR	3.04	0.17
RENEWJH_SLR	2.98	0.16
SBSR_SLR	2.97	0.16
RENEW_SLR_BKN	2.89	0.16
AZURE_SLR	2.81	0.15
ARUNACHAL PRADESH	2.66	0.14
ACME_SLR	2.60	0.14
NSPCL	2.59	0.14
RAIL	2.54	0.14
RENEWSW_SLR	2.45	0.13
SB6_POKARAN	2.42	0.13
MYTRAH_TCN	2.41	0.13
MTPS II	2.38	0.13
TEESTA HEP	2.32	0.13
NETCL VALLUR	2.15	0.12
MRPL	2.12	0.12
EDEN_SLR	2.11	0.11
DADRA & NAGAR HAVELI	1.99	0.11
KSK MAHANADI	1.95	0.11
RENEWURJA_SLR	1.95	0.11
ADHUNIK POWER LTD	1.93	0.11
AHEJ3L_SOLAR	1.83	0.10
NEP	1.81	0.10
AVADARJHN_SLR	1.73	0.09
TATA_ANTP	1.72	0.09
TATA_PVGD	1.70	0.09
SEMBCORP	1.62	0.09
NAGALAND	1.62	0.09
AZURE41_SLR	1.61	0.09
FORTUM1_PVGD	1.59	0.09
SBG_NPK	1.58	0.09
SBG_PVGD	1.58	0.09
ADY3_PVGD	1.56	0.08
ADY6_PVGD	1.56	0.08
TELANGANA	1.45	0.08
ACME_RUMS	1.32	0.07
FORTUM2_PVGD	1.27	0.07
DB POWER	1.26	0.07
MAHINDRA_RUMS	1.26	0.07
RAP B	1.24	0.07
ABSP_ANTP	1.20	0.07
DGPCL Bhutan	1.20	0.07
SPRING_PUGALUR	1.16	0.06
BARC	1.14	0.06
ONGC PALATANA	1.14	0.06
EMCO	1.11	0.06

ARINSUM_RUMS	1.10	0.06
ADY1_PVGD	1.09	0.06
ADY2_PVGD	1.09	0.06
ADY13_PVGD	1.09	0.06
ADY10_PVGD	1.09	0.06
AKSP_ANTP	1.00	0.05
TEESTA STG3	0.99	0.05
RANGIT HEP	0.93	0.05
GIPCL_RADHANESDA	0.90	0.05
PARAM_PVGD	0.89	0.05
AZURE34_SLR	0.88	0.05
FRV_ANTP	0.88	0.05
TATA_SLR	0.88	0.05
FRV_NPK	0.87	0.05
TPREL_RADHANESDA	0.87	0.05
AYANA_NPKUNTA	0.85	0.05
SKS POWER	0.84	0.05
BANGLADESH	0.77	0.04
THERMAL POWERTECH	0.75	0.04
NAPP	0.74	0.04
SPRNG_NPKUNTA	0.70	0.04
SHREE CEMENT	0.69	0.04
ASEJTL_SLR	0.68	0.04
ESPL_RADHANESDA	0.65	0.04
AHSP_ANTP	0.62	0.03
AZURE_ANTP	0.58	0.03
DAMAN AND DIU	0.55	0.03
AVAADA1_PVGD	0.53	0.03
AD HYDRO	0.52	0.03
OSTRO Hiriyur	0.52	0.03
SORANG HEP	0.51	0.03
RENEW_SLR	0.49	0.03
LOKTAK	0.49	0.03
PARE HEP	0.49	0.03
RANGANADI HEP	0.47	0.03
AZURE_PVGD	0.46	0.02
DHARIWAL POWER	0.44	0.02
TASHIDENG HEP	0.44	0.02
SAINJ HEP	0.42	0.02
CHUZACHEN HEP	0.40	0.02
KURICHU HEP	0.39	0.02
LANCO BUDHIL	0.38	0.02
CGPL	0.36	0.02
DIKCHU HEP	0.35	0.02
AVAADA2_PVGD	0.30	0.02
DOYANG HEP	0.28	0.02
SINGOLI BHATWARI HEP	0.27	0.01
YARROW_PVGD	0.24	0.01
AKS_PVGD	0.23	0.01
ARS_PVGD	0.22	0.01
RENEW_PVGD	0.21	0.01
VINDHYACHAL HVDC	0.18	0.01
NFF	0.17	0.01
DAGACHU	0.15	0.01
KREDL_PVGD	0.15	0.01
JORETHANG	0.12	0.01
RONGNICHU HEP	0.09	0.005
COASTGEN	0.07	0.004
BHADRAVATHI HVDC	0.04	0.002
NTPL	0.02	0.001
DCPP	0.02	0.001
HVDC RAIGARH	0.02	0.001
HVDC CHAMPA	0.01	0.001
HVDC ALPD	0.003	0.0002
Total	1839.77	100.00
Volume Exported by top 5 Regional Entities	476.30	25.89

Table-22: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM, FEBRUARY 2022

Name of the Entity	Volume of Over drawal (MUs)	% of Volume
NTPC STATIONS-WR	156.11	8.46
NTPC STATIONS-NR	98.27	5.32
RAJASTHAN	88.62	4.80
ANDHRA PRADESH	80.56	4.36
HARYANA	73.00	3.95
GUJARAT	67.05	3.63
NTPC STATIONS-ER	63.87	3.46
CHUKHA HEP	60.35	3.27
PONDICHERRY	52.43	2.84
UTTAR PRADESH	48.62	2.63
TALA HEP	41.60	2.25
MP	40.70	2.20
KERALA	40.29	2.18
NTPC STATIONS-SR	40.15	2.17
MAHARASHTRA	36.17	1.96
BIHAR	33.71	1.83
KARNATAKA	33.03	1.79
WEST BENGAL	32.98	1.79
UTTARAKHAND	32.11	1.74
JHARKHAND	31.55	1.71
NLC	29.75	1.61
J & K	26.32	1.43
PUNJAB	22.00	1.19
SIKKIM	21.78	1.18
CHHATTISGARH	21.68	1.17
HIMACHAL PRADESH	20.93	1.13
TAMIL NADU	18.87	1.02
MANGDECHU HEP	17.86	0.97
ODISHA	17.47	0.95
THERMAL POWERTECH	16.79	0.91
NETCL VALLUR	15.90	0.86
ESSAR POWER	14.52	0.79
IGSTPS	13.08	0.71
SEMBCORP	12.79	0.69
DGPCL Bhutan	11.65	0.63
AHEJ3L_SOLAR	10.16	0.55
ASSAM	9.87	0.53
CGPL	9.49	0.51
DAMAN AND DIU	9.39	0.51
RPREL	9.16	0.50
NTPL	8.84	0.48
KURICHU HEP	8.72	0.47
AGEMPL BHUJ	8.38	0.45
MB POWER	8.06	0.44
NHPC STATIONS	7.87	0.43
GIWEL_BHUJ	7.59	0.41
DELHI	7.39	0.40
NTPC STATIONS-NER	7.39	0.40
GOA	7.24	0.39
DADRA & NAGAR HAVELI	7.21	0.39
RGPPPL	7.18	0.39
RAIL	7.11	0.39
NSPCL	6.70	0.36
ORANGE_TCN	6.65	0.36
GIWEL_TCN	6.54	0.35
MYTRAH_TCN	6.21	0.34
TEHRI	6.03	0.33
BALCO	5.83	0.32
ARUNACHAL PRADESH	5.56	0.30
RENEWURJA_SLR	5.38	0.29
EMCO	5.17	0.28
TATA_SLR	5.17	0.28
RENEW_BHUJ	4.98	0.27
NEPAL(NVVN)	4.90	0.27
RENEW_BHACHAU	4.68	0.25
BETAM_TCN	4.63	0.25
JITPL	4.58	0.25
BRBCL,NABINAGAR	4.55	0.25

DB POWER	4.53	0.25
RKM POWER	4.48	0.24
MAHINDRA_RUMS	4.44	0.24
MEGHALAYA	4.43	0.24
ACME_RUMS	4.26	0.23
OSTRO	4.24	0.23
JINDAL STAGE-II	4.23	0.23
NPGC	4.12	0.22
KARCHAM WANGTOO	4.04	0.22
ALFANAR_BHUJ	3.88	0.21
AHEJ4L_SOLAR	3.88	0.21
JHABUA POWER_MP	3.87	0.21
IL&FS	3.86	0.21
BANGLADESH	3.83	0.21
AZURE43_SLR	3.76	0.20
MAITHON POWER LTD	3.75	0.20
ADANIHB_SLR	3.45	0.19
ARINSUM_RUMS	3.36	0.18
BBMB	3.12	0.17
AVAADASN_SLR	2.77	0.15
COASTGEN	2.68	0.15
SB6_POKARAN	2.55	0.14
ACBIL	2.50	0.14
DVC	2.42	0.13
ARERJL_SLR	2.31	0.13
NAPP	2.30	0.12
NTPC_ANTP	2.28	0.12
RENEWSW_SLR	2.23	0.12
AZURE41_SLR	2.18	0.12
JORETHANG	2.15	0.12
DAGACHU	2.11	0.11
SBG_NPK	2.03	0.11
CLEAN_SLR	2.03	0.11
RENEWJH_SLR	1.99	0.11
AYANA_RP1	1.95	0.11
ADANIHB_WIND	1.93	0.10
CHANDIGARH	1.93	0.10
TEESTA STG3	1.88	0.10
MANIPUR	1.83	0.10
OSTRO Hiriyur	1.79	0.10
MTPS II	1.77	0.10
RENEWSB	1.75	0.09
JINDAL POWER	1.75	0.09
INOX_BHUJ	1.67	0.09
AVADARJHN_SLR	1.66	0.09
TASHIDENG HEP	1.64	0.09
EDEN_SLR	1.63	0.09
NEEPCO STATIONS	1.59	0.09
TRIPURA	1.59	0.09
RANGANADI HEP	1.48	0.08
RENEW_SLR_BKN	1.45	0.08
KAPP 3&4	1.43	0.08
SHREE CEMENT	1.43	0.08
NEP	1.42	0.08
ADHUNIK POWER LTD	1.41	0.08
SASAN UMPP	1.37	0.07
NJPC	1.35	0.07
KSK MAHANADI	1.33	0.07
TELANGANA	1.33	0.07
GIPCL_RADHANESDA	1.30	0.07
SKS POWER	1.26	0.07
MRPL	1.18	0.06
SBG_PVGD	1.16	0.06
ESPL_RADHANESDA	1.15	0.06
SPRING_PUGALUR	1.09	0.06
SB_SLR	1.09	0.06
AZURE34_SLR	1.02	0.06
DGEN MEGA POWER	1.01	0.05
TPREL_RADHANESDA	0.98	0.05
GMR KAMALANGA	0.94	0.05

NAGALAND	0.93	0.05
RAP B	0.80	0.04
ACME_SLR	0.78	0.04
TATA_ANTP	0.75	0.04
KOTESHWAR	0.71	0.04
TATA_PVGD	0.70	0.04
AD HYDRO	0.69	0.04
DHARIWAL POWER	0.63	0.03
AZURE_SLR	0.61	0.03
TEESTA HEP	0.58	0.03
SORANG HEP	0.57	0.03
MIZORAM	0.56	0.03
TRN ENERGY	0.53	0.03
AYANA_NPKUNTA	0.49	0.03
FORTUM1_PVGD	0.48	0.03
RANGIT HEP	0.47	0.03
MEENAKSHI	0.46	0.02
AVAADA2_PVGD	0.46	0.02
JAYPEE NIGRIE	0.43	0.02
SPRNG_NPKUNTA	0.43	0.02
RAP C	0.42	0.02
SBSR_SLR	0.42	0.02
HVDC PUS	0.41	0.02
ADY1_PVGD	0.40	0.02
ADY2_PVGD	0.40	0.02
ADY13_PVGD	0.40	0.02
ADY10_PVGD	0.40	0.02
LANKO_AMK	0.36	0.02
AHSP_ANTP	0.35	0.02
SIMHAPURI	0.34	0.02
RENEW_SLR	0.33	0.02
AKSP_ANTP	0.33	0.02
DOYANG HEP	0.32	0.02
FORTUM2_PVGD	0.32	0.02
ONGC PALATANA	0.31	0.02
ASEJTL_SLR	0.28	0.02
ADY3_PVGD	0.28	0.01
ADY6_PVGD	0.28	0.01
LANKO KONDAPALLI	0.26	0.01
FRV_ANTP	0.25	0.01
KREDL_PVGD	0.25	0.01
AVAADA1_PVGD	0.25	0.01
SINGOLI BHATWARI HEP	0.25	0.01
LOKTAK	0.25	0.01
ABSP_ANTP	0.24	0.01
HVDC CHAMPA	0.21	0.01
RAMPUR HEP	0.20	0.01
DIKCHU HEP	0.18	0.01
FRV_NPK	0.17	0.01
AZURE_ANTP	0.17	0.01
HVDC ALPD	0.16	0.01
PARAM_PVGD	0.16	0.01
CHUZACHEN HEP	0.15	0.01
PARE HEP	0.13	0.01
HVDC RAIGARH	0.11	0.01
AZURE_PVGD	0.10	0.01
ARS_PVGD	0.08	0.004
SAINJ HEP	0.07	0.004
RENEW_PVGD	0.06	0.003
YARROW_PVGD	0.06	0.003
AKS_PVGD	0.05	0.003
DCPP	0.05	0.003
NFF	0.04	0.002
LANCO BUDHIL	0.04	0.002
BHADRAVATHI HVDC	0.03	0.002
RONGNICHU HEP	0.03	0.002
BARC	0.005	0.0003
TOTAL	1846.21	100.00
Volume Imported by top 5 Regional Entities	496.57	26.90

Table-23: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), FEBRUARY 2022		
S. No.	Name of the Entity	Total volume of net short-term transactions of electricity*
1	GUJARAT	2390.96
2	TAMIL NADU	1260.31
3	MAHARASHTRA	822.69
4	J & K	741.25
5	TELANGANA	720.55
6	ANDHRA PRADESH	650.50
7	MP	603.20
8	UTTARAKHAND	470.18
9	RAJASTHAN	392.82
10	HIMACHAL PRADESH	382.01
11	ODISHA	361.22
12	HARYANA	341.27
13	AMPS Hazira	190.22
14	NEPAL(NVVN)	173.37
15	DGPCL Bhutan	115.15
16	BALCO	108.58
17	MEGHALAYA	106.78
18	KERALA	84.90
19	JHARKHAND	74.26
20	DADRA & NAGAR HAVELI	74.17
21	NTPC STATIONS-WR	61.23
22	CHUKHA HEP	60.35
23	NTPC STATIONS-NR	60.18
24	TALA HEP	41.60
25	NEP	37.84
26	NCR ALLAHABAD	31.21
27	NTPC STATIONS-ER	24.59
28	SIKKIM	23.03
29	THERMAL POWERTECH	16.04
30	DAMAN AND DIU	14.24
31	NETCL VALLUR	13.75
32	MANIPUR	11.34
33	PONDICHERRY	11.18
34	ARUNACHAL PRADESH	11.15
35	CGPL	9.12
36	NTPL	8.82
37	GOA	8.42
38	KURICHU HEP	8.34
39	RAIL	8.03
40	IGSTPS	6.00
41	NTPC STATIONS-NER	4.33
42	NSPCL	4.11
43	IL&FS	3.86
44	MYTRAH_TCN	3.80
45	MAHINDRA_RUMS	3.18
46	ORANGE_TCN	3.12
47	BANGLADESH	3.06
48	TEHRI	2.94
49	ACME_RUMS	2.94
50	COASTGEN	2.61
51	ARINSUM_RUMS	2.27
52	GIWEL_TCN	2.00
53	NAPP	1.57
54	OSTRO Hiriyur	1.28
55	BRBCL,NABINAGAR	1.17
56	DGEN MEGA POWER	1.01
57	RANGANADI HEP	1.00
58	AZURE41_SLR	0.56
59	TRN ENERGY	0.53
60	ESPL_RADHANESDA	0.50
61	MEENAKSHI	0.46
62	SBG_NPK	0.45

63	HVDC PUS	0.41
64	GIPCL_RADHANESDA	0.40
65	SIMHAPURI	0.34
66	LANKO KONDAPALLI	0.26
67	HVDC CHAMPA	0.20
68	HVDC ALPD	0.16
69	AVAADA2_PVGD	0.15
70	AZURE34_SLR	0.14
71	SB6_POKARAN	0.13
72	TPREL_RADHANESDA	0.12
73	KREDL_PVGD	0.10
74	HVDC RAIGARH	0.09
75	DOYANG HEP	0.05
76	DCPP	0.03
77	BHADRAVATHI HVDC	-0.01
78	RONGNICHU HEP	-0.05
79	SPRING_PUGALUR	-0.06
80	AVADARJHN_SLR	-0.07
81	NFF	-0.13
82	RGPPL_IR	-0.13
83	ARS_PVGD	-0.14
84	RENEW_PVGD	-0.15
85	BETAM_TCN	-0.1561
86	RENEW_SLR	-0.16
87	AKS_PVGD	-0.17
88	VINDHYACHAL HVDC	-0.18
89	YARROW_PVGD	-0.19
90	RENEWSW_SLR	-0.22
91	LOKTAK	-0.24
92	AHSP_ANTP	-0.27
93	SPRNG_NPKUNTA	-0.28
94	AVAADA1_PVGD	-0.28
95	PARE HEP	-0.36
96	AZURE_PVGD	-0.36
97	AYANA_NPKUNTA	-0.36
98	SBG_PVGD	-0.41
99	AZURE_ANTP	-0.41
100	RAP B	-0.44
101	RANGIT HEP	-0.47
102	EDEN_SLR	-0.49
103	DHARIWAL POWER	-0.50
104	RGPPL_Others	-0.59
105	MTPS II	-0.61
106	MAITHON POWER LTD	-0.63
107	FRV_ANTP	-0.63
108	AKSP_ANTP	-0.67
109	ADY1_PVGD	-0.69
110	ADY2_PVGD	-0.69
111	ADY13_PVGD	-0.69
112	ADY10_PVGD	-0.69
113	FRV_NPK	-0.70
114	PARAM_PVGD	-0.73
115	LANCO BUDHIL	-0.78
116	MRPL	-0.94
117	FORTUM2_PVGD	-0.95
118	ABSP_ANTP	-0.96
119	TATA_ANTP	-0.97
120	TATA_PVGD	-1.00
121	FORTUM1_PVGD	-1.11
122	CHUZACHEN HEP	-1.12
123	BARC	-1.13
124	AVAADASN_SLR	-1.19
125	ADY3_PVGD	-1.28
126	ADY6_PVGD	-1.28
127	RENEW_SLR_BKN	-1.44
128	NTPC_ANTP	-1.63

129	RENEWSB	-1.64
130	ACME_SLR	-1.82
131	ARERJL_SLR	-1.85
132	AZURE_SLR	-2.20
133	CONTINNUM PT	-2.21
134	AHEJ3L_WIND	-2.31
135	KOTESHWAR	-2.33
136	SBSR_SLR	-2.55
137	SB_SLR	-2.56
138	AZURE_MAPLE_SLR	-2.56
139	NAGALAND	-2.80
140	NPGC	-2.85
141	RENEW_BHACHAU	-2.93
142	CLEAN_SLR	-3.01
143	AHEJ2L_WIND	-3.17
144	RAMPUR HEP	-3.45
145	KAPP 3&4	-3.46
146	NTPC STATIONS-SR	-3.59
147	MIZORAM	-3.87
148	AZURE43_SLR	-4.02
149	ALFANAR_BHUJ	-4.39
150	NJPC	-4.39
151	RENEW_BHUJ	-4.54
152	RAP C	-4.60
153	RGPPL	-5.95
154	SHREE CEMENT	-6.74
155	GIWEL_BHUJ	-6.78
156	SAINJ HEP	-7.43
157	ADANIHB_WIND	-7.80
158	DIKCHU HEP	-8.04
159	SORANG HEP	-8.53
160	RENEW_SR_SLR	-9.76
161	AGEMPL BHUJ	-10.02
162	OSTRO	-10.32
163	JORETHANG	-10.50
164	ASEJTL_SLR	-10.61
165	KARCHAM WANGTOO	-10.67
166	BBMB	-10.76
167	AD HYDRO	-10.98
168	KSK MAHANADI	-11.11
169	TASHIDENG HEP	-11.51
170	MANGDECHU HEP	-11.52
171	CHANDIGARH	-11.63
172	INOX_BHUJ	-11.63
173	LANKO_AMK	-13.62
174	ADANI_WIND	-13.72
175	SINGOLI BHATWARI HEP	-14.54
176	AHEJ4L_WIND	-15.47
177	EMCO	-15.49
178	MARUTI COAL	-16.18
179	NLC	-16.73
180	DAGACHU	-17.36
181	AHEJ2L_SOLAR	-24.12
182	ONGC PALATANA	-24.88
183	TATA_SLR	-28.39
184	GMR KAMALANGA	-37.28
185	TEESTA HEP	-37.64
186	AHEJ3L_SOLAR	-41.67
187	JHABUA POWER_MP	-44.95
188	SASAN UMPP	-45.74
189	AYANA_RP1	-48.18
190	ASSAM	-54.46
191	RENEWURJA_SLR	-57.14
192	RENEWJH_SLR	-58.00
193	SKS POWER	-63.55
194	NEEPCO STATIONS	-65.32

195	TRIPURA	-70.79
196	TEESTA STG3	-70.98
197	NHPC STATIONS	-74.01
198	ADANIHB_SLR	-76.14
199	AHEJ4L_SOLAR	-83.85
200	ACBIL	-86.60
201	DVC	-162.38
202	MB POWER	-170.13
203	ADHUNIK POWER LTD	-171.54
204	KARNATAKA	-227.63
205	JINDAL POWER	-239.06
206	REGL	-250.49
207	RKM POWER	-314.34
208	JAYPEE NIGRIE	-323.96
209	DELHI	-330.61
210	DB POWER	-394.46
211	ESSAR POWER	-432.01
212	SEMBCORP	-444.95
213	JINDAL STAGE-II	-489.03
214	JITPL	-494.05
215	PUNJAB	-520.95
216	CHHATTISGARH	-527.44
217	RPREL	-657.55
218	BIHAR	-852.63
219	WEST BENGAL	-975.36
220	UTTAR PRADESH	-1084.20
<i>* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and DSM</i>		
<i>(-) indicates sale and (+) indicates purchase</i>		

Table-24: DETAILS OF CONGESTION IN POWER EXCHANGES, FEBRUARY 2022							
	Details of Congestion	Day Ahead Market		Green Day Ahead Market		Real Time Market	
		IEX	PXIL	IEX	PXIL	IEX	PXIL
A	Unconstrained Cleared Volume (MUs)	5612.07	0.76	191.20	0.00	1555.83	0.00
B	Actual Cleared Volume and hence scheduled (MUs)	5612.07	0.76	191.20	0.00	1555.78	0.00
C	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs)	0.00	0.00	0.00	0.00	0.05	0.00
D	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
E	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.00%	0.00%	0.00%	0.00%	0.003%	0.00%
F	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	0.00%	0.00%	0.00%	0.00%	0.19%	0.00%
G	Congestion occurrence (%) time block wise						
	0.00 - 6.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	18.00 - 24.00 hours	0.00%	0.00%	0.00%	0.00%	100.00%	0.00%

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

Source: IEX, PXIL & NLDC

**Table-25: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE)
(MUs), FEBRUARY 2022**

Date	Bilateral		Day Ahead Market [#]		Green Day Ahead Market [#]		Real Time Market [#]		Deviation Settlement (Over Drawl + Under Generation)	Total Electricity Generation (MU) as given at CEA Website*
	Through Traders and PXs**	Direct	IEX	PXIL	IEX	PXIL	IEX	PXIL		
1-Feb-22	139.77	62.35	186.30	0.01	5.11	0.00	64.52	0.00	63.64	3760.24
2-Feb-22	136.74	63.97	194.66	0.08	5.08	0.00	51.52	0.00	65.21	3761.55
3-Feb-22	126.29	64.12	191.25	0.10	5.10	0.00	53.42	0.00	72.26	3623.06
4-Feb-22	130.21	62.84	202.58	0.08	4.68	0.00	60.08	0.00	72.43	3681.15
5-Feb-22	129.42	62.96	217.46	0.09	5.97	0.00	63.10	0.00	66.07	3753.34
6-Feb-22	151.97	61.19	199.62	0.04	8.84	0.00	38.02	0.00	63.85	3616.52
7-Feb-22	157.99	62.71	217.70	0.03	7.90	0.00	43.28	0.00	65.30	3780.13
8-Feb-22	171.59	64.59	213.16	0.02	5.46	0.00	41.38	0.00	62.86	3824.33
9-Feb-22	182.11	64.40	191.65	0.02	7.59	0.00	48.34	0.00	66.19	3741.63
10-Feb-22	183.75	64.19	191.27	0.02	6.72	0.00	45.62	0.00	66.37	3684.59
11-Feb-22	181.05	59.14	172.17	0.02	7.18	0.00	57.49	0.00	67.62	3656.18
12-Feb-22	170.09	59.36	205.54	0.02	7.18	0.00	52.59	0.00	64.54	3712.22
13-Feb-22	167.56	62.23	199.60	0.03	6.75	0.00	48.26	0.00	62.49	3598.29
14-Feb-22	190.23	62.57	188.52	0.03	6.21	0.00	51.28	0.00	63.69	3703.73
15-Feb-22	190.74	62.64	198.43	0.02	8.34	0.00	53.44	0.00	60.48	3760.73
16-Feb-22	189.63	60.24	193.33	0.02	7.87	0.00	63.34	0.00	63.74	3797.36
17-Feb-22	189.73	60.22	212.62	0.02	7.83	0.00	49.02	0.00	61.35	3768.33
18-Feb-22	185.54	59.89	195.65	0.03	6.65	0.00	53.38	0.00	65.90	3739.49
19-Feb-22	170.22	59.08	178.20	0.02	5.88	0.00	62.84	0.00	66.01	3694.53
20-Feb-22	166.26	57.43	187.73	0.00	8.01	0.00	48.32	0.00	64.84	3588.22
21-Feb-22	191.23	57.32	198.12	0.04	7.21	0.00	65.46	0.00	64.36	3718.50
22-Feb-22	194.19	60.02	202.76	0.02	8.04	0.00	88.64	0.00	67.60	3717.40
23-Feb-22	195.00	59.58	223.09	0.00	6.60	0.00	69.21	0.00	70.58	3769.10
24-Feb-22	199.69	60.91	219.43	0.00	6.96	0.00	65.97	0.00	66.62	3868.04
25-Feb-22	190.81	59.42	221.34	0.00	6.36	0.00	63.78	0.00	65.52	3842.45
26-Feb-22	190.00	60.12	226.72	0.00	5.23	0.00	50.70	0.00	67.41	3730.59
27-Feb-22	177.99	61.78	180.29	0.01	9.13	0.00	43.68	0.00	69.83	3580.20
28-Feb-22	176.18	57.76	202.89	0.00	7.32	0.00	59.09	0.00	66.24	3758.43
Total	4826.02	1713.02	5612.07	0.76	191.20	0.00	1555.78	0.00	1842.99	104230.33

Source: NLDC

* Gross Electricity Generation excluding electricity generation from renewables and captive power plants.

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

Scheduled volume of all the bid areas.

**Table-26(a): PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
FEBRUARY 2022**

Market Segment	Day ahead market of IEX			Day ahead market of PXIL			Green Day ahead market of IEX			Green Day ahead market of PXIL		
	Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP
1-Feb-22	2.00	11.11	4.54	4.99	4.99	4.99	2.81	8.01	4.79	-	-	-
2-Feb-22	2.01	14.50	4.98	4.99	5.99	5.86	2.81	8.60	4.93	-	-	-
3-Feb-22	2.02	15.00	5.02	3.99	5.99	5.59	2.52	8.70	4.76	-	-	-
4-Feb-22	2.00	15.31	4.80	4.99	5.99	5.80	2.83	11.00	5.52	-	-	-
5-Feb-22	2.00	10.78	4.30	4.99	5.99	5.77	3.50	9.00	4.64	-	-	-
6-Feb-22	2.02	5.65	3.37	4.99	4.99	4.99	2.50	4.91	3.61	-	-	-
7-Feb-22	2.02	8.00	4.45	4.99	4.99	4.99	2.52	9.00	4.21	-	-	-
8-Feb-22	2.02	7.50	3.93	4.99	4.99	4.99	2.52	9.00	4.98	-	-	-
9-Feb-22	2.02	7.50	4.12	4.99	4.99	4.99	2.61	8.80	4.51	-	-	-
10-Feb-22	2.11	8.00	4.27	4.99	4.99	4.99	2.70	8.80	4.70	-	-	-
11-Feb-22	2.01	7.50	3.54	4.99	4.99	4.99	2.70	8.50	4.65	-	-	-
12-Feb-22	2.25	8.00	4.17	4.99	4.99	4.99	3.00	8.50	4.33	-	-	-
13-Feb-22	2.14	8.00	3.53	4.99	4.99	4.99	3.30	6.00	4.14	-	-	-
14-Feb-22	2.25	8.00	4.18	4.99	4.99	4.99	3.50	8.00	5.05	-	-	-
15-Feb-22	2.25	8.00	4.08	4.99	4.99	4.99	3.01	7.00	4.35	-	-	-
16-Feb-22	2.45	8.50	4.57	4.99	4.99	4.99	3.01	8.00	4.39	-	-	-
17-Feb-22	2.54	10.00	4.68	4.99	4.99	4.99	3.01	8.00	4.41	-	-	-
18-Feb-22	2.29	10.50	4.38	4.99	4.99	4.99	3.50	9.00	5.17	-	-	-
19-Feb-22	2.54	12.00	4.80	4.99	4.99	4.99	3.70	9.00	5.49	-	-	-
20-Feb-22	2.40	8.30	4.18	-	-	-	3.22	6.00	4.16	-	-	-
21-Feb-22	2.06	11.60	4.47	4.99	4.99	4.99	3.01	8.50	4.93	-	-	-
22-Feb-22	2.24	11.81	4.73	4.99	4.99	4.99	3.50	9.10	5.00	-	-	-
23-Feb-22	2.57	14.49	5.51	-	-	-	3.01	12.80	5.38	-	-	-
24-Feb-22	2.59	17.34	6.09	-	-	-	3.01	16.30	5.59	-	-	-
25-Feb-22	2.75	19.95	6.82	-	-	-	3.22	18.00	5.94	-	-	-
26-Feb-22	2.59	20.00	5.76	-	-	-	3.65	18.00	6.53	-	-	-
27-Feb-22	2.30	8.00	3.63	5.25	5.25	5.25	3.50	8.00	4.13	-	-	-
28-Feb-22	2.06	20.00	5.18	-	-	-	3.65	9.50	5.40	-	-	-
	2.00#	20.00#	4.60	3.99#	5.99#	5.34	2.50#	18.00#	4.78	-	-	-

Source: IEX and PXIL

Note: GDAM was introduced at IEX on 27.10.2021 and at PXIL on 20.12.2021

* 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-26(b): PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), FEBRUARY 2022

Market Segment	Real Time market of IEX			Real Time market of PXIL			Under Drawl/Over Drawl from the Grid (DSM)		
Date	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	All India Grid		
							Mini-mum Price	Maxi-mum Price	Average Price**
1-Feb-22	2.15	20.00	6.07	-	-	-	0.00	8.00	4.46
2-Feb-22	2.05	14.50	5.22	-	-	-	0.00	7.80	4.02
3-Feb-22	1.84	5.00	3.58	-	-	-	0.00	8.00	4.29
4-Feb-22	1.96	5.01	3.30	-	-	-	0.00	7.79	3.59
5-Feb-22	1.83	6.60	3.97	-	-	-	0.00	6.29	3.42
6-Feb-22	1.75	4.99	3.20	-	-	-	0.00	7.71	2.66
7-Feb-22	1.68	7.50	4.06	-	-	-	0.00	8.00	4.23
8-Feb-22	2.13	10.00	4.60	-	-	-	0.00	8.00	3.86
9-Feb-22	2.13	6.64	4.10	-	-	-	0.00	5.94	2.60
10-Feb-22	1.96	7.50	3.91	-	-	-	0.00	7.76	3.14
11-Feb-22	1.96	7.40	4.23	-	-	-	0.00	8.00	3.43
12-Feb-22	2.25	15.00	4.93	-	-	-	0.00	7.75	4.39
13-Feb-22	2.42	6.11	3.58	-	-	-	0.00	6.85	3.53
14-Feb-22	2.00	8.00	4.00	-	-	-	0.00	7.75	3.92
15-Feb-22	2.21	13.00	4.83	-	-	-	0.78	8.00	4.54
16-Feb-22	2.21	10.16	5.69	-	-	-	0.89	8.00	4.72
17-Feb-22	2.34	20.00	5.48	-	-	-	0.00	7.35	4.25
18-Feb-22	2.00	8.30	4.68	-	-	-	0.00	7.51	3.77
19-Feb-22	2.54	8.46	4.80	-	-	-	0.00	7.36	4.00
20-Feb-22	2.04	8.00	3.40	-	-	-	0.00	6.73	3.87
21-Feb-22	1.75	10.00	4.83	-	-	-	0.00	8.00	4.41
22-Feb-22	2.29	16.01	5.31	-	-	-	0.00	8.00	4.01
23-Feb-22	2.35	17.00	6.54	-	-	-	0.00	7.39	4.97
24-Feb-22	2.71	20.00	7.23	-	-	-	1.23	8.00	6.29
25-Feb-22	2.20	20.00	5.82	-	-	-	0.00	8.00	5.43
26-Feb-22	1.84	7.50	3.61	-	-	-	0.00	7.86	4.51
27-Feb-22	2.00	5.00	3.46	-	-	-	0.00	6.90	2.96
28-Feb-22	1.64	5.78	3.71	-	-	-	0.00	7.81	4.47
	1.64[#]	20.00[#]	4.69	-	-	-	0.00[#]	8.00[#]	4.06

Source: Data on price of PX transactions from IEX and PXIL and data on DSM Price from NLDC.

* 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.

** Simple average price of DSM of 96 time blocks of 15 minutes each in a day. DSM price includes Ceiling DSM Rate +40% additional DSM charge.

Maximum/Minimum in the month

Table-27: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MUs), FEBRUARY 2022

Name of the Entity	Through Bilateral			Through Power Exchange (DAM + GDAM + RTM)			Through DSM with Regional Grid			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	Import (Over Drawl)	Export (Under Drawl)	Net**	
PUNJAB	686.19	22.78	-663.42	4.24	178.94	174.70	22.00	54.23	-32.23	-520.95
HARYANA	245.58	93.03	-152.55	0.70	452.55	451.85	73.00	31.04	41.96	341.27
RAJASTHAN	3.28	441.22	437.94	386.45	311.68	-74.77	88.62	58.97	29.65	392.82
DELHI	418.60	124.83	-293.77	137.13	129.74	-7.39	7.39	36.85	-29.45	-330.61
UTTAR PRADESH	349.79	42.95	-306.83	964.64	257.69	-706.95	48.62	119.03	-70.41	-1084.20
UTTARAKHAND	5.43	226.15	220.72	0.07	232.25	232.18	32.11	14.83	17.28	470.18
HIMACHAL PRADESH	9.11	440.79	431.67	86.24	29.47	-56.77	20.93	13.83	7.10	382.01
J & K	50.15	0.00	-50.15	27.43	816.51	789.08	26.32	24.00	2.32	741.25
CHANDIGARH	0.00	0.00	0.00	0.00	1.96	1.96	1.93	15.53	-13.59	-11.63
MP	31.21	965.07	933.86	374.39	75.84	-298.54	40.70	72.82	-32.12	603.20
MAHARASHTRA	12.91	379.96	367.05	36.94	554.86	517.92	36.17	98.44	-62.28	822.69
GUJARAT	1.04	975.66	974.63	6.09	1421.43	1415.35	67.05	66.06	0.99	2390.96
CHHATTISGARH	109.37	64.92	-44.46	495.13	6.75	-488.38	21.68	16.28	5.39	-527.44
GOA	0.00	35.09	35.09	28.70	4.36	-24.34	7.24	9.57	-2.32	8.42
DAMAN AND DIU	0.00	0.00	0.00	0.00	5.41	5.41	9.39	0.55	8.83	14.24
DADRA & NAGAR HAV	0.00	0.00	0.00	1.02	69.97	68.95	7.21	1.99	5.22	74.17
ANDHRA P	2.48	52.04	49.56	23.82	573.26	549.44	80.56	29.06	51.51	650.50
KARNATAKA	472.56	243.26	-229.30	157.87	178.72	20.85	33.03	52.22	-19.19	-227.63
KERALA	0.00	170.47	170.47	84.00	39.46	-44.54	40.29	81.31	-41.03	84.90
TAMIL NADU	0.00	597.36	597.36	9.21	672.04	662.82	18.87	18.74	0.13	1260.31
PONDICHERRY	0.00	0.00	0.00	0.00	0.00	0.00	52.43	41.25	11.18	11.18
TELANGANA	30.75	80.81	50.07	94.35	764.96	670.60	1.33	1.45	-0.12	720.55
WEST BENGAL	116.88	173.90	57.02	1085.34	40.98	-1044.37	32.98	20.99	11.99	-975.36
ODISHA	98.11	658.94	560.83	293.54	95.95	-197.59	17.47	19.48	-2.01	361.22
BIHAR	131.21	70.69	-60.53	823.80	11.70	-812.10	33.71	13.71	20.00	-852.63
JHARKHAND	4.53	157.97	153.44	84.59	3.55	-81.04	31.55	29.69	1.86	74.26
SIKKIM	0.00	40.71	40.71	10.72	0.09	-10.63	21.78	28.82	-7.05	23.03
DVC	128.56	14.08	-114.48	47.71	0.64	-47.08	2.42	3.25	-0.83	-162.38
ARUNACHAL P	0.00	19.99	19.99	12.76	1.03	-11.73	5.56	2.66	2.89	11.15
ASSAM	0.00	0.00	0.00	134.54	79.77	-54.77	9.87	9.56	0.31	-54.46
MANIPUR	0.00	27.83	27.83	16.15	1.10	-15.06	1.83	3.26	-1.43	11.34
MEGHALAYA	2.31	76.15	73.84	0.00	31.99	31.99	4.43	3.48	0.95	106.78
MIZORAM	0.00	0.00	0.00	0.25	0.00	-0.25	0.56	4.17	-3.62	-3.87
NAGALAND	3.36	3.36	0.00	2.11	0.00	-2.11	0.93	1.62	-0.69	-2.80
TRIPURA	0.00	0.00	0.00	61.62	0.04	-61.58	1.59	10.79	-9.20	-70.79
NTPC STATIONS-NR	0.00	0.00	0.00	0.00	0.00	0.00	98.27	38.09	60.18	60.18
NHPC STATIONS	0.00	0.00	0.00	0.00	0.00	0.00	7.87	81.87	-74.01	-74.01
NFF	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.17	-0.13	-0.13
RAIL	0.00	0.00	0.00	0.00	3.47	3.47	7.11	2.54	4.57	8.03
NEP	0.00	36.96	36.96	0.00	1.28	1.28	1.42	1.81	-0.39	37.84
NAPP	0.00	0.00	0.00	0.00	0.00	0.00	2.30	0.74	1.57	1.57
RAP B	0.00	0.00	0.00	0.00	0.00	0.00	0.80	1.24	-0.44	-0.44
NJPC	0.00	0.00	0.00	0.00	0.00	0.00	1.35	5.74	-4.39	-4.39
TEHRI	0.00	0.00	0.00	0.00	0.00	0.00	6.03	3.09	2.94	2.94
BBMB	0.00	0.00	0.00	0.00	0.00	0.00	3.12	13.89	-10.76	-10.76
RAP C	0.00	0.00	0.00	0.00	0.00	0.00	0.42	5.02	-4.60	-4.60
AD HYDRO	0.00	0.00	0.00	11.16	0.00	-11.16	0.69	0.52	0.17	-10.98
IGSTPS	0.00	0.00	0.00	0.00	0.00	0.00	13.08	7.08	6.00	6.00
KOTESHWAR	0.00	0.00	0.00	0.00	0.00	0.00	0.71	3.04	-2.33	-2.33
KARCHAM WANGTOO	0.00	0.00	0.00	10.83	0.00	-10.83	4.04	3.88	0.16	-10.67
SHREE CEMENT	0.00	0.00	0.00	7.48	0.00	-7.48	1.43	0.69	0.74	-6.74
LANCO BUDHIL	0.00	0.00	0.00	0.44	0.00	-0.44	0.04	0.38	-0.34	-0.78
RAMPUR HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.20	3.66	-3.45	-3.45
SORANG HEP	7.46	0.00	-7.46	1.13	0.00	-1.13	0.57	0.51	0.06	-8.53
SAINJ HEP	0.00	0.00	0.00	7.08	0.00	-7.08	0.07	0.42	-0.35	-7.43
RENEW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.49	-0.16	-0.16

AZURE_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.61	2.81	-2.20	-2.20
SB_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.09	3.64	-2.56	-2.56
ACME_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.78	2.60	-1.82	-1.82
AZURE34_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.02	0.88	0.14	0.14
TATA_SLR	32.68	0.00	-32.68	0.00	0.00	0.00	5.17	0.88	4.29	-28.39
RENEW_SLR_BKN	0.00	0.00	0.00	0.00	0.00	0.00	1.45	2.89	-1.44	-1.44
CLEAN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.03	5.04	-3.01	-3.01
ARERJL_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.31	4.15	-1.85	-1.85
ASEJTL_SLR	10.21	0.00	-10.21	0.00	0.00	0.00	0.28	0.68	-0.40	-10.61
SINGOLI BHATWARI HE	10.77	0.00	-10.77	3.75	0.00	-3.75	0.25	0.27	-0.02	-14.54
AZURE43_SLR	0.00	0.00	0.00	0.00	0.00	0.00	3.76	7.78	-4.02	-4.02
MRPL	0.00	0.00	0.00	0.00	0.00	0.00	1.18	2.12	-0.94	-0.94
SB6_POKARAN	0.00	0.00	0.00	0.00	0.00	0.00	2.55	2.42	0.13	0.13
EDEN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.63	2.11	-0.49	-0.49
SBSR_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.42	2.97	-2.55	-2.55
RENEWSW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.45	-0.22	-0.22
ADANIHB_SLR	58.52	0.00	-58.52	14.97	0.00	-14.97	3.45	6.11	-2.66	-76.14
RENEWJH_SLR	50.64	0.00	-50.64	6.37	0.00	-6.37	1.99	2.98	-0.99	-58.00
ADANIHB_WIND	5.15	0.00	-5.15	0.00	0.00	0.00	1.93	4.59	-2.65	-7.80
AHEJ2L_SOLAR	20.14	0.00	-20.14	3.98	0.00	-3.98	0.00	0.00	0.00	-24.12
AHEJ2L_WIND	3.17	0.00	-3.17	0.00	0.00	0.00	0.00	0.00	0.00	-3.17
AHEJ3L_SOLAR	38.51	0.00	-38.51	11.49	0.00	-11.49	10.16	1.83	8.33	-41.67
AHEJ3L_WIND	2.31	0.00	-2.31	0.00	0.00	0.00	0.00	0.00	0.00	-2.31
AHEJ4L_WIND	15.47	0.00	-15.47	0.00	0.00	0.00	0.00	0.00	0.00	-15.47
AHEJ4L_SOLAR	66.36	0.00	-66.36	0.00	0.00	0.00	3.88	21.36	-17.48	-83.85
RENEWSB	0.00	0.00	0.00	0.00	0.00	0.00	1.75	3.39	-1.64	-1.64
AZURE41_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.18	1.61	0.56	0.56
AYANA_RP1	43.60	0.00	-43.60	0.45	0.00	-0.45	1.95	6.07	-4.12	-48.18
AVAADASN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.77	3.97	-1.19	-1.19
RENEWURJA_SLR	59.02	0.00	-59.02	1.55	0.00	-1.55	5.38	1.95	3.43	-57.14
AVADARJHN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.66	1.73	-0.07	-0.07
NCR ALLAHABAD	0.00	31.21	31.21	0.00	0.00	0.00	0.00	0.00	0.00	31.21
RENEW_SR_SLR	9.00	0.00	-9.00	0.76	0.00	-0.76	0.00	0.00	0.00	-9.76
AZURE_MAPLE_SLR	1.33	0.00	-1.33	1.23	0.00	-1.23	0.00	0.00	0.00	-2.56
NTPC STATIONS-WR	0.00	0.00	0.00	0.00	0.76	0.76	156.11	95.64	60.47	61.23
BHADRAVATHI HVDC	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.04	-0.01	-0.01
VINDHYACHAL HVDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	-0.18	-0.18
JINDAL POWER	105.80	0.00	-105.80	129.69	0.00	-129.69	1.75	5.31	-3.57	-239.06
LANKO_AMK	9.07	0.00	-9.07	0.00	0.00	0.00	0.36	4.91	-4.55	-13.62
NSPCL	0.00	0.00	0.00	0.00	0.00	0.00	6.70	2.59	4.11	4.11
ACBIL	0.00	0.00	0.00	84.80	0.00	-84.80	2.50	4.30	-1.80	-86.60
BALCO	0.00	88.29	88.29	0.00	17.56	17.56	5.83	3.10	2.728	108.577
RGPPL	0.00	0.00	0.00	9.55	0.00	-9.55	7.18	3.58	3.60	-5.95
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	9.49	0.36	9.12	9.12
DCPP	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02	0.03	0.03
EMCO	0.00	0.00	0.00	19.55	0.00	-19.55	5.17	1.11	4.06	-15.49
KSK MAHANADI	0.00	0.00	0.00	10.49	0.00	-10.49	1.33	1.95	-0.62	-11.11
ESSAR POWER	275.12	0.00	-275.12	140.80	0.00	-140.80	14.52	30.60	-16.09	-432.01
JINDAL STAGE-II	138.97	0.00	-138.97	347.90	0.29	-347.61	4.23	6.68	-2.45	-489.03
DB POWER	363.75	0.00	-363.75	33.98	0.00	-33.98	4.53	1.26	3.27	-394.46
DHARIWAL POWER	0.00	0.00	0.00	0.69	0.00	-0.69	0.63	0.44	0.20	-0.50
JAYPEE NIGRIE	195.80	0.00	-195.80	124.28	0.00	-124.28	0.43	4.31	-3.89	-323.96
DGEN MEGA POWER	0.00	0.00	0.00	0.00	0.00	0.00	1.01	0.00	1.01	1.01
MB POWER	66.20	0.00	-66.20	104.86	0.00	-104.86	8.06	7.13	0.94	-170.13
MARUTI COAL	0.00	0.00	0.00	16.95	0.77	-16.18	0.00	0.00	0.00	-16.18
JHABUA POWER_MP	27.28	0.00	-27.28	17.46	0.00	-17.46	3.87	4.07	-0.21	-44.95
SASAN UMPP	0.00	0.00	0.00	3.92	0.00	-3.92	1.37	43.20	-41.83	-45.74
TRN ENERGY	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.53	0.53
RKM POWER	211.97	0.00	-211.97	99.52	0.00	-99.52	4.48	7.33	-2.85	-314.34
SKS POWER	62.23	0.00	-62.23	1.73	0.00	-1.73	1.26	0.84	0.42	-63.55
BARC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.14	-1.13	-1.13
KAPP 3&4	0.00	0.00	0.00	0.00	0.00	0.00	1.43	4.90	-3.46	-3.46
HVDC CHAMPA	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.01	0.20	0.20

MAHINDRA_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	4.44	1.26	3.18	3.18
ARINSUM_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	3.36	1.10	2.27	2.27
OSTRO	3.99	0.00	-3.99	0.84	0.00	-0.84	4.24	9.74	-5.50	-10.32
ACME_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	4.26	1.32	2.94	2.94
RENEW_BHACHAU	0.00	0.00	0.00	0.00	0.00	0.00	4.68	7.61	-2.93	-2.93
GIWEL_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	7.59	14.37	-6.78	-6.78
INOX_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	1.67	13.30	-11.63	-11.63
AGEMPL_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	8.38	18.39	-10.02	-10.02
REGL	239.76	0.00	-239.76	10.73	0.00	-10.73	0.00	0.00	0.00	-250.49
RPREL	564.70	0.00	-564.70	96.47	0.00	-96.47	9.16	5.54	3.62	-657.55
AMPS Hazira	0.00	159.93	159.93	0.00	30.29	30.29	0.00	0.00	0.00	190.22
HVDC RAIGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.02	0.09	0.09
RGPPL_IR	0.00	0.00	0.00	0.13	0.00	-0.13	0.00	0.00	0.00	-0.13
RGPPL_Others	0.00	0.00	0.00	0.59	0.00	-0.59	0.00	0.00	0.00	-0.59
ALFANAR_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	3.88	8.27	-4.39	-4.39
RENEW_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	4.98	9.52	-4.54	-4.54
ADANI_WIND	11.45	0.00	-11.45	2.27	0.00	-2.27	0.00	0.00	0.00	-13.72
CONTINNUM_PT	2.12	0.00	-2.12	0.08	0.00	-0.08	0.00	0.00	0.00	-2.21
TPREL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	0.98	0.87	0.12	0.12
ESPL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	1.15	0.65	0.50	0.50
GIPCL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.90	0.40	0.40
NTPC STATIONS-SR	0.00	0.00	0.00	11.44	0.00	-11.44	40.15	32.30	7.85	-3.59
LANKO KONDAPALLI	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.26	0.26
SIMHAPURI	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.34	0.34
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.46	0.46
COASTGEN	0.00	0.00	0.00	0.00	0.00	0.00	2.68	0.07	2.61	2.61
THERMAL POWERTECH	0.00	0.00	0.00	0.00	0.00	0.00	16.79	0.75	16.04	16.04
IL&FS	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	3.86	3.86
NLC	0.00	0.00	0.00	30.14	0.00	-30.14	29.75	16.34	13.41	-16.73
SEMBCORP	209.27	0.00	-209.27	246.84	0.00	-246.84	12.79	1.62	11.16	-444.95
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	15.90	2.15	13.75	13.75
NTPL	0.00	0.00	0.00	0.00	0.00	0.00	8.84	0.02	8.82	8.82
AHSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.62	-0.27	-0.27
AKSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.33	1.00	-0.67	-0.67
ABSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.24	1.20	-0.96	-0.96
AZURE_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.58	-0.41	-0.41
TATA_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.72	-0.97	-0.97
FRV_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.88	-0.63	-0.63
NTPC_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	2.28	3.92	-1.63	-1.63
GIWEL_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.54	4.55	2.00	2.00
MYTRAH_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.21	2.41	3.80	3.80
FRV_NPK	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.87	-0.70	-0.70
ORANGE_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.65	3.53	3.12	3.12
BETAM_TCN	0.00	0.00	0.00	0.00	0.00	0.00	4.63	4.79	-0.16	-0.16
SBG_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.16	1.58	-0.41	-0.41
SBG_NPK	0.00	0.00	0.00	0.00	0.00	0.00	2.03	1.58	0.45	0.45
FORTUM1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.48	1.59	-1.11	-1.11
PARAM_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.89	-0.73	-0.73
YARROW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.24	-0.19	-0.19
TATA_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.70	1.70	-1.00	-1.00
RENEW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.21	-0.15	-0.15
AKS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.23	-0.17	-0.17
ARS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.22	-0.14	-0.14
AVAADA1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.53	-0.28	-0.28
ADY1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.09	-0.69	-0.69
ADY2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.09	-0.69	-0.69
ADY13_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.09	-0.69	-0.69
ADY3_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.56	-1.28	-1.28
ADY6_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.28	1.56	-1.28	-1.28
ADY10_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.40	1.09	-0.69	-0.69
AZURE_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.46	-0.36	-0.36
FORTUM2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.32	1.27	-0.95	-0.95
AVAADA2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.30	0.15	0.15

KREDL_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.15	0.10	0.10
AYANA_NPKUNTA	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.85	-0.36	-0.36
SPRNG_NPKUNTA	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.70	-0.28	-0.28
SPRING_PUGALUR	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.16	-0.06	-0.06
OSTRO Hiriyur	0.00	0.00	0.00	0.00	0.00	0.00	1.79	0.52	1.28	1.28
NTPC STATIONS-ER	0.00	0.00	0.00	0.00	0.00	0.00	63.87	39.29	24.59	24.59
MAITHON POWER LTD	0.00	0.00	0.00	0.00	0.00	0.00	3.75	4.37	-0.63	-0.63
NPGC	0.00	0.00	0.00	0.00	0.00	0.00	4.12	6.97	-2.85	-2.85
ADHUNIK POWER LTD	145.81	0.00	-145.81	25.20	0.00	-25.20	1.41	1.93	-0.53	-171.54
CHUZACHEN HEP	0.00	0.00	0.00	0.87	0.00	-0.87	0.15	0.40	-0.25	-1.12
RANGIT HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.47	0.93	-0.47	-0.47
GMR KAMALANGA	12.38	0.00	-12.38	21.16	0.00	-21.16	0.94	4.68	-3.74	-37.28
JITPL	460.94	0.00	-460.94	34.53	0.00	-34.53	4.58	3.15	1.42	-494.05
TEESTA HEP	35.90	0.00	-35.90	0.00	0.00	0.00	0.58	2.32	-1.74	-37.64
DAGACHU	19.32	0.00	-19.32	0.00	0.00	0.00	2.11	0.15	1.96	-17.36
JORETHANG	3.76	0.00	-3.76	8.77	0.00	-8.77	2.15	0.12	2.04	-10.50
NEPAL(NVVN)	0.00	22.64	22.64	0.00	156.04	156.04	4.90	10.21	-5.31	173.37
BANGLADESH	0.00	0.00	0.00	0.00	0.00	0.00	3.83	0.77	3.06	3.06
HVDC PUS	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.41	0.41
TEESTA STG3	0.00	0.00	0.00	71.87	0.00	-71.87	1.88	0.99	0.89	-70.98
DIKCHU HEP	3.56	0.00	-3.56	4.31	0.00	-4.31	0.18	0.35	-0.17	-8.04
HVDC ALPD	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.16	0.16
TASHIDENG HEP	4.01	0.00	-4.01	8.71	0.00	-8.71	1.64	0.44	1.21	-11.51
BRBCL, NABINAGAR	0.00	0.00	0.00	0.00	0.00	0.00	4.55	3.38	1.17	1.17
MTPS II	0.00	0.00	0.00	0.00	0.00	0.00	1.77	2.38	-0.61	-0.61
TALA HEP	0.00	0.00	0.00	0.00	0.00	0.00	41.60	0.00	41.60	41.60
CHUKHA HEP	0.00	0.00	0.00	0.00	0.00	0.00	60.35	0.00	60.35	60.35
KURICHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	8.72	0.39	8.34	8.34
MANGDECHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	17.86	29.39	-11.52	-11.52
RONGNICHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.09	-0.05	-0.05
DGPCL Bhutan	0.00	0.00	0.00	0.00	104.70	104.70	11.65	1.20	10.45	115.15
NTPC STATIONS-NER	0.00	0.00	0.00	0.00	0.00	0.00	7.39	3.06	4.33	4.33
NEEPCO STATIONS	6.28	0.00	-6.28	53.25	0.00	-53.25	1.59	7.38	-5.79	-65.32
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.47	1.00	1.00
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.28	0.05	0.05
ONGC PALATANA	12.82	0.00	-12.82	11.23	0.00	-11.23	0.31	1.14	-0.83	-24.88
LOKTAK	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.49	-0.24	-0.24
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.49	-0.36	-0.36

Source: NLDC

* in case of a state, the entities which are "selling" also include generators connected to state grid and the entities which are "buying" also include open access consumers.

** (-) indicates sale and (+) indicates purchase.

*** Total net includes net of transactions through bilateral, power exchange and DSM

Table-28: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, FEBRUARY 2022					
Sr. No.	Details of REC Transactions	IEX		PXIL	
		Solar	Non-Solar	Solar	Non-Solar
A	Volume of Buy Bid	548271	444295	86826	160702
B	Volume of Sell Bid	480891	1192954	86724	485339
C	Ratio of Buy Bid to Sell Bid Volume	1.14	0.37	1.00	0.33
D	Market Clearing Volume (MWh)	167447	444295	12590	160702
E	Weighted average Market Clearing Price (₹/MWh)	2300	1000	2201	1000

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh