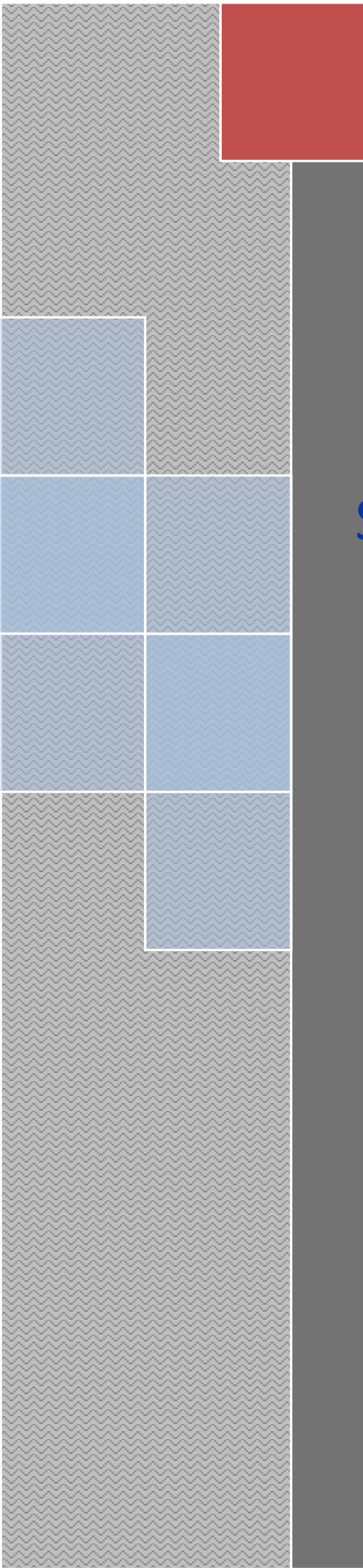




Monthly Report on Short-term Transactions of Electricity in India

February 2023



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Abbreviations

Abbreviation

ABSP_ANTP
ACBIL
ACP
ACV
ACME_SLR
ACME_RUMS
ADANI GREEN
ADANIHB_SLR
ADANI_SLR 4
ADANIHB_WIND
ADY1_PVGD
ADY2_PVGD
ADY3_PVGD
ADY6_PVGD
ADY10_PVGD
ADY13_PVGD
AGEMPL BHUJ
AHEJOL_S_FTG2
AHEJOL_W_FTG2
AHEJ2L_SOLAR
AHEJ3L_SOLAR
AHEJ4L_SOLAR
AHEJ4L_WIND
AHSP_ANTP
AKS_PVGD
AKSP_ANTP
ALFANAR_BHUJ
AMPS Hazira
APTEL
ARERJL_SLR
ARINSUM_RUMS
ARS_PVGD
ASEJTL_SLR
AVAADA1_PVGD
AVAADA2_PVGD
AVADARJHN_SLR
AYANA_NPKUNTA
AZURE_ANTP
AZURE_PVGD
AZURE_SLR
AZURE34_SLR
AZURE43_SLR
BALCO
BARC
BBMB
BETAM_TCN
BHADRAVATHI HVDC
BRBCL
CEA
CERC
CGPL
CHUKHA HEP

Expanded Version

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

CHUZACHEN HEP	ChuzachenHydro Electric Power Project
CLEAN_SLR	Clean Solar Power Pvt. Ltd
CLEANSPL_SLR	Clean Solar Jodhpur Pvt Ltd
COASTGEN	Coastal Energen Private Limited
DAGACHU	Dagachhu Hydro Power Corporation
DAM	Day Ahead Market
DB POWER	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DD&DNH	Daman and Diu & Dadar Nagar Haveli
DGEN MEGA POWER	DGEN Mega Power Project
DGPCL Bhutan	Druk Green Power Corporation Ltd., Bhutan
DHARIWAL POWER	Dhariwal Power Station
DIKCHU HEP	Dikchu Hydro-electric Project, Sikkim
DOYANG HEP	DoyangHydro Electric Project
DSM	Deviation Settlement Mechanism
DVC	Damodar Valley Corporation
EDEN_SLR	Eden RE Cite Private limited
EMCO	EMCO Energy Limited
ESPL_RADHANESDA	Electro Solaire Private Limited, Radhanesda
ESSAR POWER	Essar Power Limited
ESSAR STEEL	Essar Steel Ltd
FORTUM1_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 1
FORTUM2_PVGD	Fortum Finnsurya Energy Private Ltd, Pavagada Project 2
FRV_ANTP	Fotowatio Renewable Ventures, Anantapur
FRV_NPK	Fotowatio Renewable Ventures, NP Kunta
GIPCL_RADHANESDA	Gujarat Industries Power Company Ltd, Radhanesda
GIWEL_BHUJ	Green infra wind energy Limited, Bhuj
GIWEL_TCN	Green Infra Wind Energy Limited,Tuticorin
GMR CHHATTISGARH	GMR Chhattisgarh Energy Limited
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
G-DAM	Green Day Ahead Market
G-TAM	Green Term Ahead Market
HPX	Hindustan Power Exchange Limited
HVDC ALPD	Alipurduar High Voltage Direct Current Link
HVDC CHAMPA	Champa-Kurukshetra High Voltage Direct Current Link
HVDC PUS	PasauliHigh Voltage Direct Current Link
HVDC RAIGARH	Raigarh-Pugalur High Voltage Direct Current Link
IEX	Indian Energy Exchange Limited
IGSTPS	Indira Gandhi Super Thermal Power Station Jhajjar
IL&FS	Infrastructure Leasing & Financial Services Limited
INOX_BHUJ	INOX Wind Limited, Bhuj, Gujarat
J&K	Jammu & Kashmir
JAYPEE NIGRIE	Jaypee Nigrie Super Thermal Power Project
JHABUA POWER MP	Jhabua Thermal Power Project
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
JITPL	Jindal India Thermal Power Ltd.
JORETHANG	Jorethang Loop Hydroelectric Power Project
JSW_RENEW_2	JSW Renew Energy Two Limited
KAPP 3&4	Kakrapar Atomic Power Station Unit 3 & 4
KARCHAM WANGTOO	Karcham Wangtoo H.E. Project
KORBA WEST POWER	Korba West Power Company Limited
KOTESHWAR	Koteshwar Hydro Power project
KREDL_PVGD	Karnataka Renewable Energy Development Ltd,Pavagada

KSK MAHANADI	KSK Mahanadi Power Ltd
KSMPL_SLR	Kilaj Solar (Maharashtra) Private Limited
KURICHU HEP	Kurichhu Hydro-electric Power Station, Bhutan
LANKO_AMK	LancoAmarkantak Power Private Limited
LANKO BUDHIL	LancoBudhil Hydro Power Private Limited
LANKOKONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MAHINDRA_RUMS	Mahindra Rewa Ultra Mega Solar Project
MAHOBA_SLR	Mahoba Solar Power Project
MALANA	Malana Hydroelectric Plant
MANGDECHU HEP	Mangdechhu Hydroelectric Project, Mangdechhu River, Bhutan
Maruti Coal	Maruti Clean Coal and Power Limited
MB POWER	MB Power Ltd
MEENAKSHI	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MRPL	Mahindra Renewables Private Limited
MTPS II	Muzaffarpur Thermal Power Station – Stage II
MYTRAH_TCN	Mytrah Energy (India) Private Limited,Tuticorin
MU	Million Units
NAPP	Narora Atomic Power Plant
NCR ALLAHABAD	North Central Railway, Allahabad
NEEPCO	North Eastern Electric Power Corporation Limited
NEP	Nepal
NFL	National Fertilisers Limited
NHPC STATIONS	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLC	Neyveli Lignite Corporation Limited
NLDC	National Load Dispatch Centre
NPGC	Nabinagar Power Generating Company (Pvt.) Limited
NSPCL	NTPC - SAIL Power Company Private Limited
NTECLVallur	NTPC Tamil Nadu Energy Company Limited Vallur
NTPC_ANTP	NTPC Anantapur
NTPC STATIONS	National Thermal Power Corporation Ltd. Stations
NTPL	NLC Tamil Nadu Power Limited
NVVN	NTPC Vidyut Vyapar Nigam Limited
ONGC Platana	ONGC Tripura Power Company
OPGC	Odisha Power Generation Corporation
ORANGE_TCN	Orange Renewable Power Pvt. Ltd,Tuticorin
OSTRO	Ostro Energy Private Limited
OTC	Over The Counter
PARAM_PVGD	Parampujya Solar Energy Private Ltd
PARE HEP	Pare hydroelectric project, Arunachal Pradesh
PX	Power Exchange
PXIL	Power Exchange India Limited
RAIL	Indian Railways
RAMPUR HEP	Rampur Hydro Electric Power Project
RANGIT HEP	Rangit Hydroelectric power project
RANGANADI HEP	Ranganadi Hydro Electric Power Project, Arunachal Pradesh
RAP-B	Rajasthan Atomic Power Plant-B
RAP-C	Rajasthan Atomic Power Plant-C
REC	Renewable Energy Certificate
REGL	Raigarh Energy Generation Limited
RENEW_BHACHAU	ReNew Power Limited, Bhachau
RENEW_BHUJ	ReNew Power Limited, Bhuj

RENEW_PVGD	ReNew Wind Energy (TN2) Private Limited
RENEW_SLR_BKN	Renew Solar Bikaner
RENEWJH_SLR	Renew Solar Energy (Jharkhand Three) Private Limited
RENEWURJA_SLR	ReNew Solar Urja Private Limited
RGPPL_IR	Ratnagiri Gas and Power Private Ltd., supply to Indian Railways
RGPPL_OTHER	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Dispatch Centre
RONGNICHU HEP	Rongnichu Hydro Electric Power Project
RPREL	Raipur Energen Limited
RSTPS_FSPP	NTPC Ramagundam STPS- Floating Solar PV Project
RTC	Round The Clock
RTM	Real Time Market
SasanUMPP	Sasan Ultra Mega Power Project
SB_SLR	Soft Bank Solar
SB6_POKARAN	SB Energy Six Private Limited, Pokaran
SBG_CLEANTECH_SLR	SBG Cleantech Ltd
SBG_NPK	SB Energy Solar Private Limited, NP Kunta
SBG_PVGD	SB Energy Solar Private Limited, Pavagada
SBSR_SLR	SBSR Power Cleantech Eleven Private Limited
SEMBCORP	Sembcorp Gayatri Power Ltd
SIMHAPURI	Simhapuri Energy Private Limited
SKS Power	SKS Power Generation Chhattisgarh Limited
SESPL	Srijan Energy Systems Pvt. Ltd.
SINGOLI BHATWARI HEP	Singoli-Bhatwari Hydroelectric Project, Uttarakhand
SKRPL	Sitac Kabini Renewables Pvt. Ltd.
SPRNG_NPKUNTA	Sprng Energy, NP Kunta
SPRING_PUGALUR	Spring Solar Power Private Limited, Pugalur
TALA HEP	Tala Hydroelectric Project, Bhutan
TASHIDENG HEP	Tashiding Hydro Electric Project, Sikkim
TATA_ANTP	TATA Power Anantapur
TATA_PVGD	Tata Power Renewable Energy Ltd
TATA_SLR	Tata Solar
TEESTA STG3	Teesta Stage 3 Hydro Power Project
TEHRI	Tehri Hydro Electric Power Project
TAM	Term Ahead Market
THAR1_SLR	Thar Surya Ravi One Pvt Ltd
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
TPREL_RADHANESDA	Tata Power Renewable Energy Limited, Radhanesda
VINDHYACHAL HVDC	Vindhyachal High Voltage Direct Current Link
YARROW_PVGD	Yarrow Infra Structure Private Ltd

1. Introduction

1.1. A well-functioning electricity market requires an effective market monitoring process. The monthly report on short-term transactions of electricity, published by CERC since 2008 as part of its market monitoring process, provides a snapshot of key aspects of short-term transactions of electricity in India. Here, “short-term transactions of electricity” refers to the contracts of less than one year period, for electricity transacted (inter-State) through inter-State Trading Licensees and directly by the Distribution Licensees, Power Exchanges (Indian Energy Exchange Ltd (IEX), Power Exchange India Ltd (PXIL) and Hindustan Power Exchange Ltd (HPX)), 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 2023** is presented in the following sections.

2. Volume of Short-term Transactions of Electricity

2.1. During February 2023, total electricity generation, excluding generation from renewable and captive power plants in India was 111251.69 MU (Table-1). Of the total electricity generation, 14.25% was transacted through short-term, comprising of 6.88% through bilateral (through traders and term-ahead contracts on power exchanges, and directly between distribution companies), followed by 5.96% through power exchanges {Day Ahead Market (DAM) (including G-DAM) and Real Time Market (RTM)} and 1.41% through DSM (Table-1 & Figure-1).

2.2. Of the total short-term transactions (15850.21 MU), 48.31% was transacted through bilateral (27.46% through traders and term-ahead contracts on power exchanges, and 20.86% directly between distribution companies), followed by 41.80% through power exchanges {DAM (including G-DAM) and RTM} and 9.88% through DSM (Table-1 & Figure-2). Daily volume of short-term transactions is shown in Table-26 & Figure-4.

2.3. Of the total volume of electricity transacted through power exchanges, 55.44% of the volume was transacted in DAM (including G-DAM), followed by 25.21% in Term Ahead Market (TAM) (including G-TAM) and 19.35% 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 48 trading licensees as of February 2023. Of which, 30 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 81.27% 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 0.2035 for the month of February 2023, which indicates moderate concentration of market power (Table-2).

2.6. The volume of electricity transacted in the DAM of IEX was 4658.76 MU. No electricity was transacted through DAM of PXIL and HPX. The volume of total buy bids and sell bids was 8629.57 MU and 6673.41 MU respectively in IEX, while the same was 5.31 MU and 49.50 MU respectively in PXIL. No bids were received in HPX.

2.7. Of the total volume of electricity transacted in the DAM of IEX, the volume purchased by the neighboring countries of India was 341.22 MU, while no volume was sold, under the Cross Border Trade of electricity through power exchange (Table-31). 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 253.00 MU, while no electricity was transacted in the G-DAM of PXIL and HPX. The volume of total buy bids and

sell bids was 1222.92 MU and 299.32 MU respectively in IEX, while no bids were received in PXIL and HPX.

2.9. The volume of electricity transacted in the RTM of IEX was 1714.05 MU, while no electricity was transacted in the RTM of PXIL and HPX. The volume of total buy bids and sell bids was 3751.12 and 2528.41 MU respectively in IEX. No bids were received in PXIL and HPX. The variation in the volume of buy bids and sell bids placed through power exchanges shows variation in the demand and supply position.

2.10. The volume of electricity transacted in the TAM of IEX, PXIL and HPX was 954.01 MU, 560.69 MU and 565.85 MU respectively (Table-8, Table-9 & Table-10). The volume of electricity transacted in the Green Term Ahead Market (G-TAM) of IEX, PXIL and HPX was 90.97 MU, 39.29 MU and 22.89 MU respectively (Table-11, Table-12 & Table-13).

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 ₹2.70/kWh, ₹8.50/kWh and ₹6.22/kWh respectively (Table-3). The weighted average sale prices were also computed for the electricity transacted during Round the Clock (RTC) and Off-peak periods separately, and the sale prices were ₹6.65/kWh and ₹3.35/kWh respectively. No electricity was transacted through traders during Peak periods (Table-4).

3.2. **Price of electricity transacted through Power Exchanges:** The minimum, maximum and weighted average prices for the electricity transacted in the DAM of IEX were ₹2.82/kWh, ₹12.00/kWh and ₹6.64/kWh respectively (Table-5). The minimum, maximum and weighted average prices for the electricity transacted in the G-DAM of IEX were ₹2.99/kWh, ₹12.00/kWh and ₹6.57/kWh respectively (Table-6). The minimum, maximum and weighted average prices for the electricity transacted in the RTM of IEX were ₹1.00/kWh, ₹12.00/kWh and ₹7.24/kWh respectively (Table-7). The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹7.36/kWh, ₹8.22/kWh and ₹8.16/kWh respectively (Table-8, Table-9 and Table-10). The weighted average price of electricity transacted in the G-TAM of IEX, PXIL and HPX was ₹7.28/kWh, ₹6.39/kWh and ₹7.16/kWh respectively (Table-

11, Table-12 and Table-13). No electricity was transacted in G-DAM & RTM of PXIL and in DAM, G-DAM, RTM of HPX.

3.3. **Price of electricity transacted through DSM:** The minimum, maximum and average price of DSM was ₹2.70/kWh, ₹12.00/kWh and ₹7.51/kWh respectively (Table-14).

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-28(a), (b) & (c) 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 ₹0.035/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 38.64% of the volume. These were Punjab, Uttar Pradesh, Jindal Power Ltd Stage II, Raipur Energen Limited and Delhi (Table-15). Top 5 regional entities/states purchased 54.37% of the volume, and these were Telangana, Madhya Pradesh, Maharashtra, Tamil Nadu and Andhra Pradesh (Table-16).

5.2. Of the total DAM transactions at power exchanges, top 5 regional entities/states sold 54.78% of the volume, and these were Uttar Pradesh, Bihar, DB Power, Raipur Energen Limited and Odisha (Table-17). Top 5 regional entities/states purchased 62.93% of the volume, and these were Gujarat, Telangana, Punjab, Rajasthan and Andhra Pradesh (Table-18).

5.3. Of the total G-DAM transactions at power exchanges, top 5 regional entities/states sold 88.37% of the volume, and these were Karnataka, Adani Wind Energy, NTPC Stations

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.

(Southern Region), Andhra Pradesh and Madhya Pradesh (Table-19). Top 5 regional entities/states purchased 78.93% of the volume, and these were Maharashtra, Damodar Valley Corporation, Punjab, Gujarat and Karnataka (Table-20).

5.4. Of the total RTM transactions at power exchanges, top 5 regional entities/states sold 51.77% of the volume, and these were Bihar, Odisha, West Bengal, Uttar Pradesh and NTPC Stations (Eastern Region) (Table-21). Top 5 regional entities/states purchased 62.84% of the volume, and these were Punjab, Rajasthan, Gujarat, Telangana and Maharashtra (Table-22).

5.5. Of the total under drawal in February 2023, top 5 regional entities/states under drew 26.46% of the volume, and these were Uttar Pradesh, Madhya Pradesh, Gujarat, Tamil Nadu and Rajasthan (Table-23). Top 5 regional entities/states overdrew 26.39% of the total over drawal volume, and these were NTPC Stations (Northern Region), West Bengal, NTPC Stations (Western Region), Maharashtra and Telangana (Table-24).

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-25 & 29. Top 5 electricity selling regional entities/states were Uttar Pradesh, Bihar, Jindal Power Ltd Stage II, Raipur Energen Limited and Essar Power Limited. Top 5 electricity purchasing regional entities/states were Telangana, Gujarat, Rajasthan, Andhra Pradesh and Maharashtra.

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

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

the flow (due to congestion) in the inter-State transmission system. In such a situation, power exchanges adopt a mechanism called “Market Splitting”³.

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 2023, no congestion was experienced in any of the power exchanges (Table-26).

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

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 price of electricity in the importing region, where demand for electricity is more than supply, becomes relatively higher than the price of electricity in the exporting region.

7.4. The details of REC transactions for the month of February 2023 are shown in Table-30. The market clearing volume of RECs transacted on IEX, PXIL and HPX were 373500, 124217 and 143 respectively. The weighted average market clearing price of these RECs was ₹1000/MWh in IEX, ₹1000/MWh in PXIL and ₹1000/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 0.13, 0.13 and 0.95 in IEX, PXIL and HPX respectively.

8. Inferences:

- a) The percentage of short-term transactions of electricity to total electricity generation was 14.25%.
- b) Of the total short-term transactions (15850.21 MU), 48.31% was transacted through bilateral (27.46% through traders and term-ahead contracts on power exchanges, and 20.86% directly between distribution companies), followed by 41.80% through power exchanges {DAM (including G-DAM) and RTM} and 9.88% through DSM
- c) Of the total volume of electricity transacted through power exchanges, 55.44% of the volume was transacted in DAM (including G-DAM), followed by 25.21% in Term Ahead Market (TAM) (including G-TAM) and 19.35% in RTM.
- d) Top 5 trading licensees had a share of 81.27% 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 0.2035, indicating moderate concentration of market power.
- f) The weighted average sale price of electricity transacted through trading licensees was ₹6.22/kWh.
- g) The weighted average price of electricity transacted in DAM of IEX and PXIL was ₹6.64/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 ₹6.57/kWh, while no electricity was transacted in G-DAM of PXIL and HPX. The weighted average price of

electricity transacted in RTM of IEX was ₹7.24/kWh. No electricity was transacted in the RTM of PXIL and HPX.

- h) The weighted average price of electricity transacted in the TAM of IEX, PXIL and HPX was ₹7.36/kWh, ₹8.22/kWh and ₹8.16/kWh respectively. The weighted average price of electricity transacted in the G-TAM of IEX, PXIL and HPX was ₹7.28/kWh, ₹6.39/kWh and ₹7.16/kWh respectively.
- i) The average price of electricity transacted through DSM was ₹7.51/kWh.
- j) The weighted average trading margin charged by the trading licensees for bilateral transactions was ₹0.035/kWh, which was in line with the Trading Licence Regulations 2020.
- k) Top 5 electricity selling regional entities/states were Uttar Pradesh, Bihar, Jindal Power Ltd Stage II, Raipur Energen Limited and Essar Power Limited. Top 5 electricity purchasing regional entities/states were Telangana, Gujarat, Rajasthan, Andhra Pradesh and Maharashtra.
- l) During the month of February 2023, no congestion was experienced in any of the power exchanges.
- m) The market clearing volume of RECs transacted on IEX, PXIL and HPX were 373500, 124217 and 143 respectively. The weighted average market clearing price of these RECs was ₹1000/MWh in IEX, ₹1000/MWh in PXIL and ₹1000/MWh in HPX.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), FEBRUARY 2023				
Sr. No	Short-term transactions	Volume (MU)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	7657.82	48.31	6.88
	(i) Through Traders and PXs	4352.20	27.46	3.91
	(ii) Direct	3305.62	20.86	2.97
2	Through Power Exchanges	6625.81	41.80	5.96
	(i) IEX			
	(a) DAM	4658.76	29.39	4.19
	(b) RTM	1714.05	10.81	1.54
	(c) GDAM	253.00	1.60	0.23
	(ii) PXIL			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
	(ii) HPX			
	(a) DAM	0.00	0.00	0.00
	(b) RTM	0.00	0.00	0.00
	(c) GDAM	0.00	0.00	0.00
3	Through DSM	1566.57	9.88	1.41
	Total Short-term transactions	15850.21	-	14.25
	Total Generation	111251.69	-	-

Source: NLDC

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

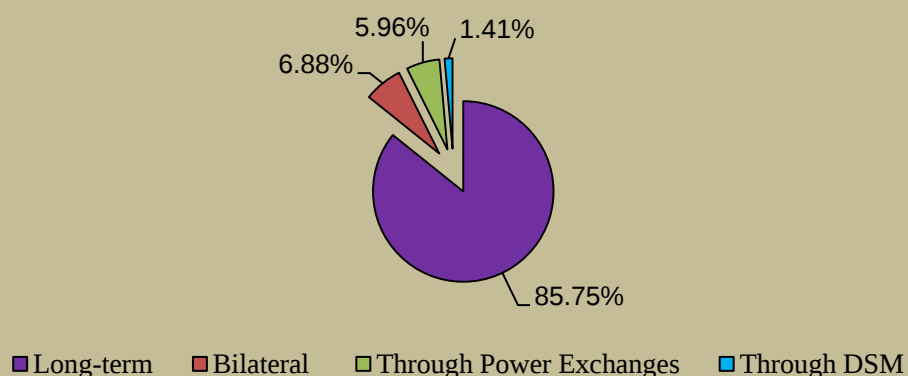


Figure-2: Volume of Short-term Transactions of Electricity, February 2023

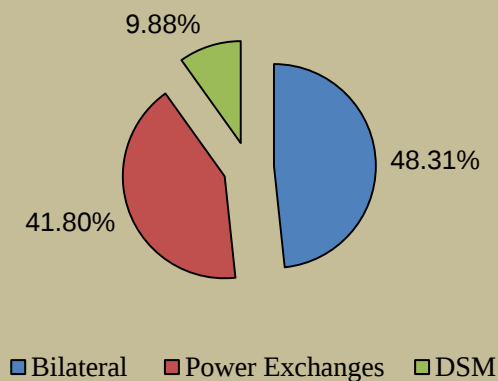


Figure-3: Volume transacted in different markets segments on Power Exchanges, February 2023

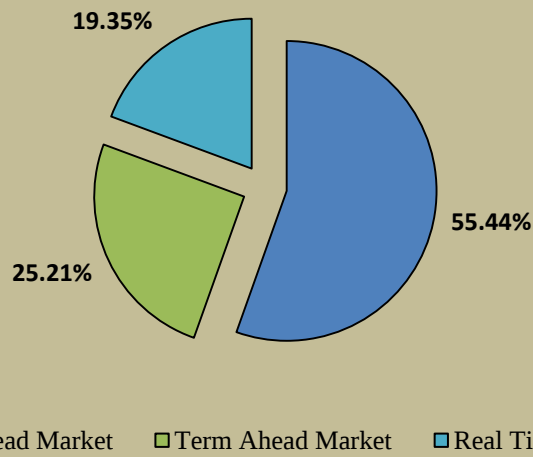


Figure-4: Volume of Short-term Transactions of Electricity, February 2023 (Day-wise)

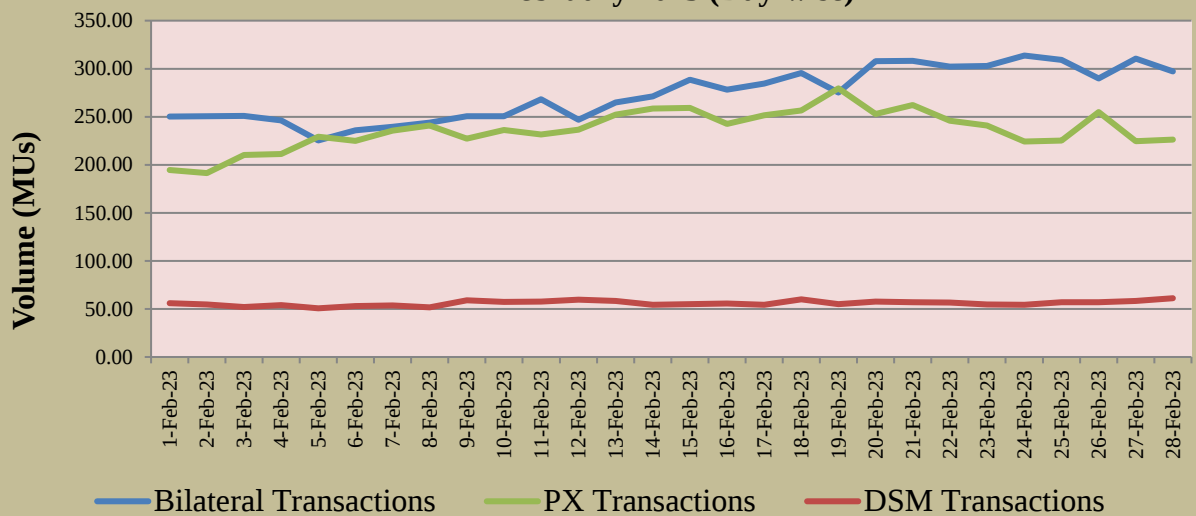


Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, FEBRUARY 2023			
Sr. No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl-Hirschman Index
1	PTC India Ltd.	36.15	0.1307
2	NTPC Vidyut Vyapar Nigam Ltd.	22.68	0.0514
3	Adani Enterprises Ltd.	9.99	0.0100
4	Tata Power Trading Company (P) Ltd.	6.30	0.0040
5	Manikaran Power Ltd.	6.16	0.0038
6	Arunachal Pradesh Power Corporation (P) Ltd	3.92	0.0015
7	GMR Energy Trading Ltd.	2.45	0.0006
8	JSW Power Trading Company Ltd	1.99	0.0004
9	Kreate Energy (I) Pvt. Ltd.	1.90	0.0004
10	Instinct Infra & Power Ltd.	1.68	0.0003
11	Shree Cement Ltd.	1.13	0.0001
12	Statkraft Markets Pvt. Ltd.	0.98	0.0001
13	Gita Power & Infrastructure Private Limited	0.98	0.0001
14	NTPC Ltd.	0.74	0.0001
15	Abja Power Private Limited	0.70	0.0000
16	RPG Power Trading Company Ltd.	0.62	0.0000
17	Ambitious Power Trading Company Ltd.	0.37	0.0000
18	Shubheksha Advisors Pvt. Ltd.	0.32	0.0000
19	Saranyu Power Trading Private Limited	0.29	0.0000
20	Greenko Energies Pvt Ltd	0.21	0.0000
21	Kundan International Pvt. Ltd.	0.19	0.0000
22	NLC India Ltd.	0.10	0.0000
23	Instant Venture Pvt. Ltd.	0.06	0.0000
24	Customized Energy Solutions India (P) Ltd.	0.05	0.0000
25	Amp Energy Markets India Private Limited	0.02	0.0000
26	Saini Power Transactor	0.01	0.0000
27	Ideal Energy Solution Pvt. Ltd.	0.01	0.0000
28	Phillip Commodities India (P) Ltd.	0.01	0.0000
29	Powerfull Energy Trading Pvt. Ltd.	0.003	0.0000
30	Knowledge Infrastructure Systems (P) Ltd	0.001	0.0000
TOTAL		100.00%	0.2035
Top 5 trading licensees		81.27%	
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 2023

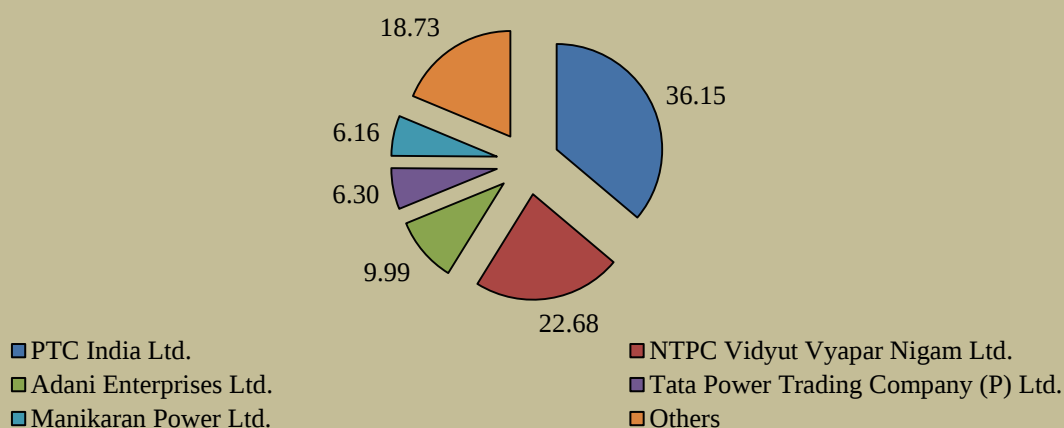


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, FEBRUARY 2023		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.70
2	Maximum	8.50
3	Weighted Average	6.22

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), FEBRUARY 2023		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	6.65
2	PEAK	-
3	OFF PEAK	3.35

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	2.82	-	-
2	Maximum	12.00	-	-
3	Weighted Average	6.64	-	-

Source: IEX, PXIL and HPX

Table-6: PRICE OF ELECTRICITY TRANSACTED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	2.99	-	-
2	Maximum	12.00	-	-
3	Weighted Average	6.57	-	-

Source: IEX, PXIL and HPX

Table-7: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023				
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	Price in HPX (₹/kWh)
1	Minimum	1.00	-	-
2	Maximum	12.00	-	-
3	Weighted Average	7.24	-	-

Source: IEX, PXIL and HPX

Table-8: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, FEBRUARY 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	0.52	10.60
2	Day Ahead Contingency Contracts	679.65	7.70
3	Daily Contracts	108.00	7.20
4	Any Day Single Sided Contracts	165.84	6.07
	Total	954.01	7.36

Source: IEX

Table-9: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, FEBRUARY 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	5.93	11.16
2	Day Ahead Contingency Contracts	554.76	8.19
	Total	560.69	8.22

Source: PXIL

Table-10: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF HPX, FEBRUARY 2023			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	545.98	8.20
2	Any Day Single Sided Contracts	19.87	7.13
	Total	565.85	8.16

Source: HPX

Table-11: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF IEX, FEBRUARY 2023			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	86.77	7.33
2	Daily Contracts	4.20	6.30
	Total	90.97	7.28

Source: IEX

Table-12: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF PXIL, FEBRUARY 2023			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	39.29	6.39
	Total	39.29	6.39

Source: PXIL

Table-13: VOLUME AND PRICE OF ELECTRICITY IN GREEN TERM AHEAD MARKET OF HPX, FEBRUARY 2023			
Sr. No	Green Term ahead contracts	Actual Scheduled Volume (MU)	Weighted Average Price (₹/kWh)
1	Day Ahead Contingency Contracts	22.89	7.16
	Total	22.89	7.16

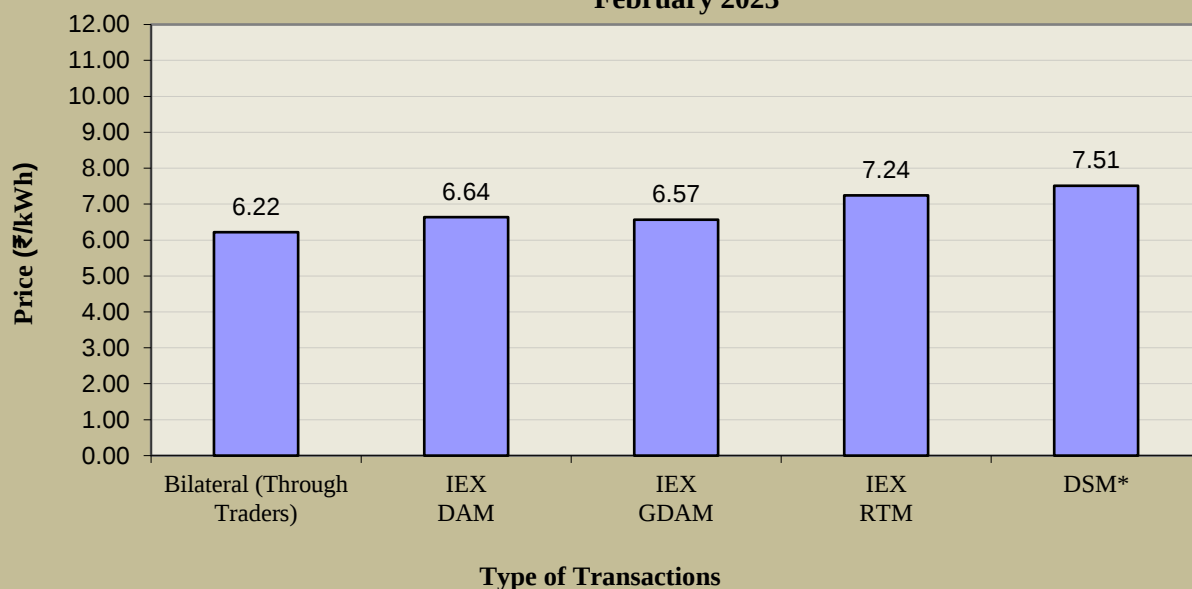
Source: HPX

Table-14: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, FEBRUARY 2023		
Sr. No	Item	Price in All India Grid (₹/kWh)
1	Minimum	2.70
2	Maximum	12.00
3	Average	7.51

Source: NLDC

Note: The CERC DSM Regulations 2022 came into effect from 05.12.2022, wherein normal rate of charges for deviation for a time block is equal to the highest of the [weighted average Area Clearing Price (ACP) of the Day Ahead Market segments of all the Power Exchanges; or the weighted average ACP of the Real Time Market segments of all the Power Exchanges; or the Weighted Average Ancillary Service Charge of all the regions]. Thereafter a ceiling of Rs. 12/kWh was imposed by CERC from 28.12.2022

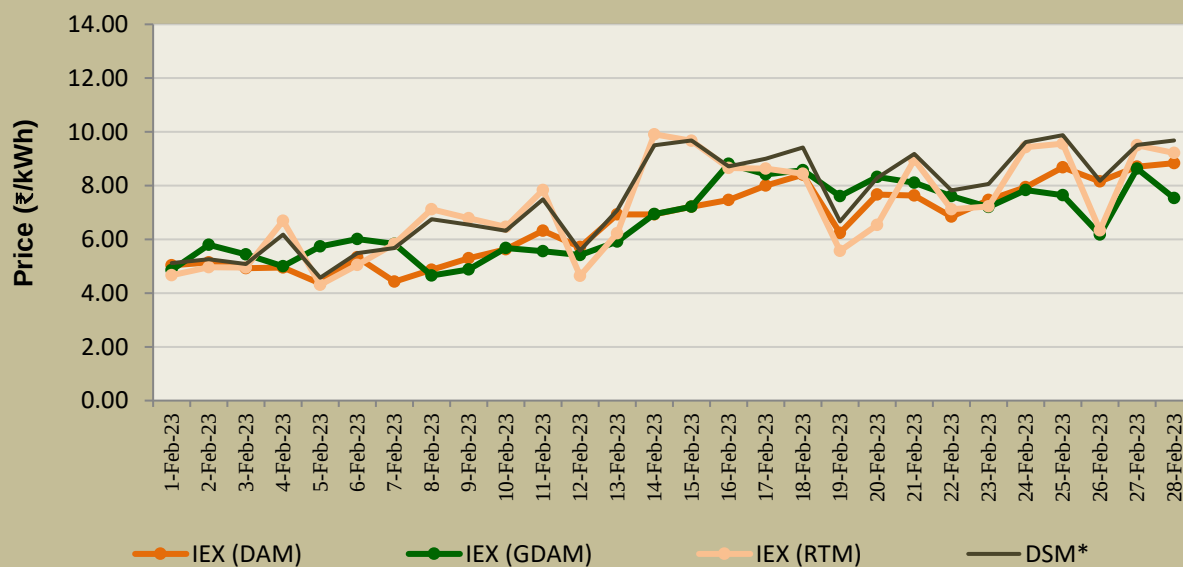
Figure-6: Weighted Average Price of Short-term Transactions of Electricity, February 2023



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

* Simple average price of DSM of the month

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



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

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

Table-15: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, FEBRUARY 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
PUNJAB	1009.47	13.18
UTTAR PRADESH	652.15	8.52
JINDAL STAGE-II	484.99	6.33
RPREL	439.60	5.74
DELHI	372.71	4.87
MP	336.88	4.40
ESSAR POWER	322.29	4.21
HARYANA	313.22	4.09
SEMBCORP	299.79	3.91
RKM POWER	293.78	3.84
JINDAL POWER	290.96	3.80
JITPL	207.51	2.71
KARNATAKA	196.09	2.56
ADHUNIK POWER LTD	146.72	1.92
AHEJ4L_SOLAR	132.15	1.73
GUJARAT	131.92	1.72
TAMIL NADU	117.58	1.54
DVC	117.04	1.53
CHHATTISGARH	103.81	1.36
ODISHA	99.83	1.30
SHREE CEMENT	91.06	1.19
TEESTA STG3	83.31	1.09
WEST BENGAL	82.60	1.08
COASTGEN	80.59	1.05
KOLYAT_SLR	80.58	1.05
AHEJ4L_WIND	74.48	0.97
NTPC STATIONS-NR	71.65	0.94
BIHAR	64.54	0.84
AVAADASN_SLR	63.51	0.83
ABC_BHDL2	63.31	0.83
SKS POWER	60.29	0.79
MAHARASHTRA	59.85	0.78
MB POWER	58.80	0.77
J & K	55.83	0.73
GMR KAMALANGA	55.06	0.72
RAJASTHAN	47.50	0.62
THAR1_SLR	43.21	0.56
ACME_HEERGARH	42.83	0.56
TATA_GREEN	41.20	0.54
ACBIL	41.03	0.54
JAYPEE NIGRIE	39.51	0.52
DB POWER	36.96	0.48
TATA_SLR	31.12	0.41
NEEPCO STATIONS	25.32	0.33
EMCO	20.83	0.27
RENEW_SR_SLR	17.14	0.22
HIMACHAL PRADESH	14.89	0.19
TRN ENERGY	12.46	0.16
DAGACHU	11.95	0.16

SIMHAPURI	11.25	0.15
SINGOLI BHATWARI HEP	10.94	0.14
AD HYDRO	9.66	0.13
JSW_RENEW_2	8.70	0.11
NTPC STATIONS-SR	8.57	0.11
LANKO_AMK	8.19	0.11
ARUNACHAL PRADESH	7.74	0.10
MEGHALAYA	7.41	0.10
ONGC PALATANA	6.85	0.09
SB_SLR	6.62	0.09
REGL	5.18	0.07
UTTARAKHAND	5.05	0.07
ANDHRA PRADESH	4.54	0.06
DIKCHU HEP	4.27	0.06
KARCHAM WANGTOO	2.78	0.04
SORANG HEP	1.72	0.02
ADANI_WIND	1.63	0.02
TELANGANA	1.61	0.02
NTPC STATIONS-WR	1.22	0.02
OSTRO	1.18	0.02
SAINJ HEP	0.97	0.01
TASHIDENG HEP	0.76	0.01
JORETHANG	0.44	0.01
SIKKIM	0.35	0.005
BALCO	0.17	0.002
OSTRO Hiriyur	0.12	0.002
Total	7657.82	100.00
Volume Sold by top 5 Regional Entities	2958.93	38.64

Table-16: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, FEBRUARY 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
TELANGANA	1152.88	15.05
MP	859.11	11.22
MAHARASHTRA	764.98	9.99
TAMIL NADU	718.44	9.38
ANDHRA PRADESH	668.23	8.73
RAJASTHAN	502.99	6.57
HIMACHAL PRADESH	490.26	6.40
GUJARAT	300.65	3.93
KERALA	269.68	3.52
KARNATAKA	267.10	3.49
UTTARAKHAND	240.69	3.14
AMPS Hazira	223.14	2.91
HARYANA	143.97	1.88
UTTAR PRADESH	140.09	1.83
JHARKHAND	123.28	1.61
ODISHA	114.85	1.50
DELHI	111.78	1.46
MEGHALAYA	107.52	1.40
J & K	82.37	1.08
DD&DNH	78.90	1.03
CHHATTISGARH	75.06	0.98
PUNJAB	59.54	0.78
GOA	29.66	0.39
BALCO	26.54	0.35
SIKKIM	23.50	0.31
MANIPUR	21.88	0.29
PONDICHERRY	21.10	0.28
ARUNACHAL PRADESH	20.16	0.26
WEST BENGAL	19.50	0.25
TOTAL	7657.82	100.00
Volume Purchased by top 5 Regional Entities	4163.64	54.37

Table-17: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
UTTAR PRADESH	1099.80	23.61
BIHAR	907.62	19.48
DB POWER	214.05	4.59
RPREL	175.59	3.77
ODISHA	155.10	3.33
WEST BENGAL	148.84	3.19
ESSAR POWER	139.83	3.00
JINDAL STAGE-II	132.08	2.83
DELHI	119.16	2.56
MAHARASHTRA	117.30	2.52
SEBPCORP	93.73	2.01
MB POWER	90.62	1.95
JITPL	85.55	1.84
JAYPEE NIGRIE	83.93	1.80
KARNATAKA	79.70	1.71
TAMIL NADU	75.79	1.63
CHHATTISGARH	75.12	1.61
MP	72.44	1.55
JINDAL POWER	63.87	1.37
HIMACHAL PRADESH	54.39	1.17
ASSAM	53.21	1.14
KERALA	46.69	1.00
REGL	44.17	0.95
TRIPURA	40.83	0.88
RKM POWER	37.73	0.81
DCPP	36.03	0.77
JHABUA POWER_MP	34.28	0.74
NTPC STATIONS-SR	26.66	0.57
RAJASTHAN	24.96	0.54
JHARKHAND	24.23	0.52
GUJARAT	23.12	0.50
UTTARAKHAND	22.85	0.49
SKS POWER	20.96	0.45
ANDHRA PRADESH	20.10	0.43
CHANDIGARH	18.65	0.40
ACBIL	18.32	0.39
ADHUNIK POWER LTD	17.14	0.37
GOA	13.79	0.30
TEESTA HEP	13.03	0.28
DVC	11.99	0.26
MARUTI COAL	11.90	0.26
ASEJTL_SLR	10.44	0.22
J & K	9.51	0.20
RENEW_SR_SLR	9.12	0.20
KARCHAM WANGTOO	8.32	0.18
SAINJ HEP	7.91	0.17
COASTGEN	6.05	0.13
HARYANA	5.15	0.11
SHREE CEMENT	5.13	0.11
TELANGANA	4.88	0.10
SORANG HEP	4.82	0.10
MEGHALAYA	4.75	0.10
NTPC STATIONS-NER	4.44	0.10
EMCO	3.65	0.08

SIMHAPURI	3.61	0.08
AD HYDRO	3.58	0.08
ARUNACHAL PRADESH	3.32	0.07
NAGALAND	2.64	0.06
BALCO	2.33	0.05
ADANI_WIND	1.93	0.04
IL&FS	1.47	0.03
OSTRO	1.46	0.03
SB_SLR	1.20	0.03
DIKCHU HEP	1.20	0.03
OSTRO Hiriyur	1.05	0.02
NEEPCO STATIONS	1.03	0.02
DHARIWAL POWER	0.93	0.02
PUNJAB	0.90	0.02
SIKKIM	0.86	0.02
MIZORAM	0.75	0.02
LANCO BUDHIL	0.64	0.01
CHUZACHEN HEP	0.38	0.01
GMR KAMALANGA	0.14	0.003
NHPC STATIONS	0.03	0.001
SINGOLI BHATWARI HEP	0.02	0.0004
Total	4658.76	100.00
Volume sold by top 5 Regional Entities	2552.16	54.78

Table-18: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
GUJARAT	1152.33	24.73
TELANGANA	590.94	12.68
PUNJAB	447.04	9.60
RAJASTHAN	373.50	8.02
ANDHRA PRADESH	368.17	7.90
J & K	259.00	5.56
MAHARASHTRA	228.78	4.91
HARYANA	216.02	4.64
NEPAL(NVVN)	201.93	4.33
UTTAR PRADESH	132.61	2.85
DGPCL Bhutan	120.40	2.58
MP	80.46	1.73
DD&DNH	71.19	1.53
AMPS Hazira	61.91	1.33
TAMIL NADU	52.07	1.12
CHHATTISGARH	43.09	0.92
KARNATAKA	42.98	0.92
UTTARAKHAND	42.82	0.92
ASSAM	29.81	0.64
DELHI	26.23	0.56
ODISHA	25.65	0.55
NEP	18.89	0.41
WEST BENGAL	18.48	0.40
GOA	15.48	0.33
JHARKHAND	14.78	0.32
KERALA	13.26	0.28
NCR ALLAHABAD	4.04	0.09
HIMACHAL PRADESH	3.83	0.08
SIKKIM	0.84	0.02
NAGALAND	0.84	0.02
CHANDIGARH	0.53	0.01
IL&FS	0.42	0.01
RGPL_IR	0.30	0.01
MEGHALAYA	0.10	0.002
BIHAR	0.03	0.001
BALCO	0.004	0.0001
TOTAL	4658.76	100.00
Volume purchased by top 5 Regional Entities	2931.99	62.93

Table-19: VOLUME OF ELECTRICITY SOLD IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
KARNATAKA	170.91	67.55
ADANI_WIND	17.53	6.93
NTPC STATIONS-SR	13.47	5.32
ANDHRA PRADESH	11.37	4.50
MP	10.29	4.07
J & K	7.89	3.12
OSTRO	5.54	2.19
OSTRO Hiriyur	3.34	1.32
SB_SLR	2.86	1.13
TELANGANA	2.12	0.84
HIMACHAL PRADESH	2.09	0.83
UTTAR PRADESH	1.65	0.65
MAHARASHTRA	1.09	0.43
RAJASTHAN	1.07	0.42
HARYANA	0.93	0.37
SIKKIM	0.85	0.34
Total	253.00	100.00
Volume sold by top 5 Regional Entities	223.57	88.37

Table-20: VOLUME OF ELECTRICITY PURCHASED IN GREEN DAY AHEAD MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
MAHARASHTRA	124.11	49.05
DVC	27.79	10.99
PUNJAB	19.62	7.76
GUJARAT	14.84	5.86
KARNATAKA	13.33	5.27
ODISHA	9.52	3.76
DELHI	9.36	3.70
DD&DNH	9.07	3.58
TAMIL NADU	6.77	2.67
MP	6.24	2.47
BALCO	5.98	2.36
UTTAR PRADESH	1.73	0.69
HARYANA	1.49	0.59
TELANGANA	1.43	0.57
KERALA	0.68	0.27
JHARKHAND	0.55	0.22
NCR ALLAHABAD	0.32	0.13
MEGHALAYA	0.11	0.05
BIHAR	0.02	0.01
ANDHRA PRADESH	0.02	0.01
TOTAL	253.00	100.00
Volume purchased by top 5 Regional Entities	199.69	78.93

Table-21: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Sale (MUs)	% of Volume
BIHAR	315.57	18.41
ODISHA	184.66	10.77
WEST BENGAL	172.65	10.07
UTTAR PRADESH	133.01	7.76
NTPC STATIONS-ER	81.49	4.75
RKM POWER	58.35	3.40
DELHI	57.59	3.36
J & K	50.92	2.97
CHHATTISGARH	50.09	2.92
MAHARASHTRA	48.06	2.80
KARNATAKA	41.43	2.42
TAMIL NADU	36.83	2.15
MP	36.44	2.13
NEEPCO STATIONS	32.45	1.89
RAJASTHAN	31.75	1.85
HIMACHAL PRADESH	30.86	1.80
KERALA	30.56	1.78
ANDHRA PRADESH	23.38	1.36
TELANGANA	22.20	1.30
ESSAR POWER	21.44	1.25
JINDAL STAGE-II	20.97	1.22
SEMBCORP	18.53	1.08
DVC	18.33	1.07
ONGC PALATANA	17.50	1.02
TRN ENERGY	16.74	0.98
GUJARAT	14.76	0.86
SKS POWER	10.19	0.59
ACBIL	9.75	0.57
MB POWER	9.57	0.56
NTPC STATIONS-WR	9.42	0.55
ASSAM	9.20	0.54
JHARKHAND	8.49	0.50
HARYANA	8.40	0.49
RPREL	8.28	0.48
NTPC STATIONS-SR	7.03	0.41
MANIPUR	5.93	0.35
TRIPURA	5.60	0.33
NLC	5.28	0.31
EMCO	4.94	0.29
ADHUNIK POWER LTD	4.88	0.28
JINDAL POWER	4.30	0.25
DD&DNH	4.09	0.24
SIMHAPURI	3.13	0.18
UTTARAKHAND	2.98	0.17
CGPL	2.82	0.16
SIKKIM	2.69	0.16
MARUTI COAL	2.46	0.14
OSTRO	2.25	0.13

SHREE CEMENT	2.20	0.13
JITPL	1.87	0.11
SINGOLI BHATWARI HEP	1.16	0.07
DCPP	1.13	0.07
PUNJAB	0.94	0.05
TEESTA HEP	0.92	0.05
MEGHALAYA	0.85	0.05
RENEW_SR_SLR	0.78	0.05
CHANDIGARH	0.67	0.04
JHABUA POWER_MP	0.65	0.04
SASAN UMPP	0.60	0.03
REGL	0.59	0.03
DIKCHU HEP	0.52	0.03
BALCO	0.44	0.03
SORANG HEP	0.43	0.02
KARCHAM WANGTOO	0.30	0.02
ARUNACHAL PRADESH	0.29	0.02
DB POWER	0.23	0.01
GOA	0.21	0.01
JAYPEE NIGRIE	0.21	0.01
AD HYDRO	0.20	0.01
SAINJ HEP	0.19	0.01
OSTRO Hiriyur	0.18	0.01
MIZORAM	0.15	0.01
COASTGEN	0.05	0.003
GMR KAMALANGA	0.04	0.002
IL&FS	0.03	0.002
LANCO BUDHIL	0.02	0.001
Total	1714.05	100.00
Volume sold by top 5 Regional Entities	887.39	51.77

Table-22: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, FEBRUARY 2023		
Name of the Entity	Volume of Purchase (MUs)	% of Volume
PUNJAB	328.15	19.14
RAJASTHAN	310.74	18.13
GUJARAT	159.87	9.33
TELANGANA	139.78	8.16
MAHARASHTRA	138.51	8.08
HARYANA	93.00	5.43
ANDHRA PRADESH	91.96	5.37
UTTAR PRADESH	54.25	3.17
J & K	47.64	2.78
ODISHA	44.36	2.59
KARNATAKA	43.62	2.54
TAMIL NADU	42.30	2.47
DELHI	31.20	1.82
DVC	28.27	1.65
WEST BENGAL	26.83	1.57
CHHATTISGARH	25.40	1.48
MP	18.19	1.06
AMPS Hazira	17.31	1.01
UTTARAKHAND	15.17	0.89
DD&DNH	13.80	0.81
ASSAM	7.96	0.46
KERALA	5.20	0.30
JINDAL STAGE-II	4.45	0.26
HIMACHAL PRADESH	4.40	0.26
JHARKHAND	3.80	0.22
JAYPEE NIGRIE	2.83	0.17
MANIPUR	2.44	0.14
GOA	2.29	0.13
NCR ALLAHABAD	1.96	0.11
TRIPURA	1.62	0.09
JHABUA POWER_MP	1.29	0.08
MARUTI COAL	1.09	0.06
ACBIL	0.89	0.05
SIKKIM	0.72	0.04
BIHAR	0.70	0.04
REGL	0.43	0.02
MEGHALAYA	0.41	0.02
SKS POWER	0.37	0.02
ARUNACHAL PRADESH	0.25	0.01
BALCO	0.19	0.01
NAGALAND	0.13	0.01
CHANDIGARH	0.12	0.01
ESSAR POWER	0.08	0.004
RGPL_IR	0.06	0.003
CGPL	0.03	0.001
TOTAL	1714.05	100.00
Volume purchased by top 5 Regional Entities	1077.04	62.84

Table-23: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, FEBRUARY 2023		
Name of the Entity	Volume of Under drawal (MUs)	% of Volume
UTTAR PRADESH	98.78	6.55
MP	87.27	5.79
GUJARAT	77.69	5.15
TAMIL NADU	71.78	4.76
RAJASTHAN	63.55	4.21
HARYANA	57.80	3.83
KARNATAKA	51.09	3.39
DELHI	50.31	3.34
NTPC STATIONS-WR	48.87	3.24
J & K	47.84	3.17
SASAN UMPP	46.19	3.06
MAHARASHTRA	45.20	3.00
TELANGANA	40.79	2.70
PUNJAB	40.10	2.66
NHPC STATIONS	39.07	2.59
ANDHRA PRADESH	31.54	2.09
NTPC STATIONS-NR	28.99	1.92
NTPC STATIONS-SR	22.82	1.51
DVC	21.45	1.42
AMPS Hazira	19.15	1.27
BIHAR	19.04	1.26
CHHATTISGARH	18.70	1.24
BBMB	16.98	1.13
UTTARAKHAND	15.85	1.05
JINDAL STAGE-II	14.85	0.98
ODISHA	14.57	0.97
NTPC STATIONS-ER	14.52	0.96
PONDICHERRY	14.04	0.93
NEPAL(NVVN)	11.98	0.79
NLC	11.93	0.79
NEEPCO STATIONS	11.35	0.75
SIKKIM	10.44	0.69
HIMACHAL PRADESH	9.41	0.62
RKM POWER	8.96	0.59
LANKO_AMK	8.37	0.56
KERALA	7.61	0.50
MEGHALAYA	7.31	0.48
TRIPURA	6.59	0.44
JINDAL POWER	5.77	0.38
IGSTPS	5.65	0.37
NJPC	5.46	0.36
JITPL	5.45	0.36
JHARKHAND	5.24	0.35
CHANDIGARH	4.88	0.32
ORANGE_TCN	4.64	0.31
RAIL	4.55	0.30
GIWEL_TCN	4.53	0.30
MIZORAM	4.50	0.30
GIWEL_BHUI	4.48	0.30
ACME_HEERGARH	4.25	0.28
GOA	4.11	0.27
MB POWER	4.10	0.27
DD&DNH	4.06	0.27
AVAADASN_SLR	4.04	0.27
ASSAM	3.86	0.26
DB POWER	3.82	0.25
CLEAN_SLR	3.71	0.25
TATA_PVGD	3.60	0.24
FORTUM2_PVGD	3.55	0.24
AVADARJHN_SLR	3.47	0.23

ESSAR POWER	3.44	0.23
SPRNG_NPKUNTA	3.43	0.23
BARC	3.41	0.23
MYTRAH_TCN	3.26	0.22
ACME_RUMS	3.23	0.21
SBESS	3.22	0.21
AYANA_NPKUNTA	3.22	0.21
RPREL	3.21	0.21
MAHINDRA_RUMS	3.19	0.21
MAITHON POWER LTD	3.19	0.21
SKRPL	3.08	0.20
BANGLADESH	3.07	0.20
AGEMPL BHUJ	3.06	0.20
ARUNACHAL PRADESH	3.05	0.20
ADY1_PVGD	3.05	0.20
ARINSUM_RUMS	3.04	0.20
JAYPEE NIGRIE	2.99	0.20
BETAM_TCN	2.99	0.20
AZURE43_SLR	2.96	0.20
TEHRI	2.94	0.19
AYANA_RP1	2.92	0.19
RAMPUR HEP	2.91	0.19
BALCO	2.83	0.19
ASEJTL_SLR	2.82	0.19
RENEW_BHUJ	2.76	0.18
NPGC	2.73	0.18
KOTESHWAR	2.68	0.18
NAGALAND	2.60	0.17
MANIPUR	2.38	0.16
KARCHAM WANGTOO	2.27	0.15
SPRING_PUGALUR	2.25	0.15
OSTRO Hiriya	2.23	0.15
NSPCL	2.20	0.15
NTPL	2.18	0.14
ALFANAR_BHUJ	2.18	0.14
OSTRO	2.18	0.14
INOX_BHUJ	2.15	0.14
ABC_BHDL2	2.03	0.13
SBG_NPK	1.99	0.13
NTPC STATIONS-NER	1.95	0.13
RENEW_BHACHAU	1.88	0.12
EMCO	1.87	0.12
SAINJ HEP	1.86	0.12
TEESTA HEP	1.86	0.12
ADHUNIK POWER LTD	1.79	0.12
KSK MAHANADI	1.78	0.12
ACBIL	1.75	0.12
THAR1_SLR	1.68	0.11
RENEW_SLR_BKN	1.64	0.11
NETCL VALLUR	1.61	0.11
RENEW SB	1.59	0.11
AVAADA1_PVGD	1.55	0.10
RENEW_SR_SLR	1.55	0.10
AZURE_SLR	1.54	0.10
AZURE41_SLR	1.50	0.10
RENEWURJA_SLR	1.50	0.10
SBG_PVGD	1.47	0.10
BRBCL,NABINAGAR	1.40	0.09
SB6_POKARAN	1.40	0.09
JHABUA POWER_MP	1.38	0.09
JSW_RENEW_2	1.37	0.09
AVIKIRAN	1.32	0.09
ACME_SLR	1.23	0.08

ESPL_RADHANESDA	1.21	0.08
WEST BENGAL	1.18	0.08
RENEWSW_SLR	1.18	0.08
TRN ENERGY	1.16	0.08
SEBICORP	1.16	0.08
RENEWJH_SLR	1.14	0.08
SKS POWER	1.14	0.08
EDEN_SLR	1.14	0.08
AZURE_PVGD	1.13	0.07
GRT_JPL	1.13	0.07
SB_SLR	1.11	0.07
CLEANSR_SLR	1.11	0.07
MTPS II	1.11	0.07
SBSR_SLR	1.11	0.07
PARAM_PVGD	1.08	0.07
NEP	1.06	0.07
NAPP	1.06	0.07
TATA_GREEN	1.03	0.07
ONGC PALATANA	1.03	0.07
TEESTA STG3	0.98	0.06
AVAADA2_PVGD	0.98	0.06
FORTUM1_PVGD	0.95	0.06
GSECL_Radhanesda	0.90	0.06
NTPC_ANTP	0.90	0.06
KREDL_PVGD	0.90	0.06
RAP C	0.88	0.06
TATA_ANTP	0.83	0.06
TATA_SLR	0.79	0.05
ABSP_ANTP	0.77	0.05
DHARIWAL POWER	0.75	0.05
MRPL	0.74	0.05
AHSP_ANTP	0.71	0.05
RSTPS_FSPP	0.71	0.05
SESPL	0.71	0.05
MSUPL_BHDL2	0.69	0.05
AKSP_ANTP	0.68	0.05
TPREL_RADHANESDA	0.68	0.04
AZURE34_SLR	0.66	0.04
SHREE CEMENT	0.65	0.04
THERMAL POWERTECH	0.65	0.04
ARERJL_SLR	0.65	0.04
GIPCL_RADHANESDA	0.64	0.04
TASHIDENG HEP	0.63	0.04
POWERICA	0.56	0.04
SORANG HEP	0.54	0.04
DGPCL Bhutan	0.52	0.03
ARS_PVGD	0.52	0.03
YARROW_PVGD	0.48	0.03
RANGANADI HEP	0.47	0.03
AKS_PVGD	0.45	0.03
JORETHANG	0.42	0.03
RGPPL	0.42	0.03
PARE HEP	0.41	0.03
RAP B	0.41	0.03
RENEW_SLR	0.36	0.02
DCPP	0.34	0.02
RENEW_PVGD	0.34	0.02
CGPL	0.33	0.02
DIKCHU HEP	0.29	0.02
AZURE_MAPLE_SLR	0.29	0.02
GMR KAMALANGA	0.28	0.02
DAGACHU	0.28	0.02
LANCO BUDHIL	0.25	0.02

DOYANG HEP	0.24	0.02
AD HYDRO	0.23	0.02
ADANI GREEN	0.18	0.01
RONGNICHU HEP	0.18	0.01
SINGOLI BHATWARI HEP	0.17	0.01
FRV_NPK	0.16	0.01
SIMHAPURI	0.16	0.01
COASTGEN	0.15	0.01
VINDHYACHAL HVDC	0.14	0.01
KSMPL_SLR	0.13	0.01
AZURE_ANTP	0.13	0.01
LOKTAK	0.13	0.01
FRV_ANTP	0.12	0.01
HVDC CHAMPA	0.11	0.01
CHUZACHEN HEP	0.08	0.01
HVDC PUS	0.07	0.005
IL&FS	0.05	0.003
HVDC RAIGARH	0.04	0.002
HVDC ALPD	0.02	0.001
BHADRAVATHI HVDC	0.01	0.0004
NFF	0.004	0.0003
RANGIT HEP	0.0001	0.00001
Total	1508.38	100.00
Volume Exported by top 5 Regional Entities	399.07	26.46

Table-24: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM, FEBRUARY 2023		
Name of the Entity	Volume of Over drawal (MUs)	% of Volume
NTPC STATIONS-NR	102.22	6.29
WEST BENGAL	92.38	5.69
NTPC STATIONS-WR	86.65	5.33
MAHARASHTRA	75.74	4.66
TELANGANA	71.74	4.42
GUJARAT	59.60	3.67
NTPC STATIONS-ER	58.27	3.59
RAJASTHAN	50.11	3.08
KARNATAKA	46.19	2.84
NTPC STATIONS-SR	43.29	2.66
ODISHA	41.96	2.58
UTTAR PRADESH	40.23	2.48
MP	36.66	2.26
BIHAR	34.69	2.14
TAMIL NADU	31.16	1.92
PUNJAB	30.56	1.88
JHARKHAND	28.68	1.77
CHHATTISGARH	27.01	1.66
ANDHRA PRADESH	26.92	1.66
HARYANA	23.88	1.47
UTTARAKHAND	20.39	1.25
AMPS Hazira	20.11	1.24
ASSAM	19.76	1.22
AGEMPL BHUJ	19.36	1.19
HIMACHAL PRADESH	18.97	1.17
DVC	18.88	1.16
GIWEL_BHUJ	16.28	1.00
IGSTPS	14.38	0.89
NHPC STATIONS	14.11	0.87
NLC	12.86	0.79
KAPP 3&4	12.72	0.78
OSTRO	11.26	0.69
RENEW_BHUJ	10.50	0.65
RENEW_BHACHAU	10.41	0.64
ESSAR POWER	10.20	0.63
OSTRO Hiriyur	9.86	0.61
SBESS	9.21	0.57
SPRING_PUGALUR	8.60	0.53
GOA	8.47	0.52
ALFANAR_BHUJ	8.44	0.52
KERALA	7.73	0.48
SKRPL	7.68	0.47
CGPL	7.54	0.46
BETAM_TCN	7.24	0.45
MYTRAH_TCN	6.93	0.43
INOX_BHUJ	6.83	0.42
GIWEL_TCN	6.69	0.41
ORANGE_TCN	6.67	0.41
J & K	6.61	0.41
AVAADASN_SLR	6.49	0.40
SEMBCORP	6.43	0.40
NPGC	6.42	0.40
ASEJTL_SLR	6.33	0.39
AVIKIRAN	5.86	0.36
DGPCL Bhutan	5.75	0.35
ARUNACHAL PRADESH	5.71	0.35
RKM POWER	5.67	0.35
NETCL VALLUR	5.58	0.34
THERMAL POWERTECH	5.57	0.34
GMR KAMALANGA	4.68	0.29

DD&DNH	4.51	0.28
AZURE43_SLR	4.45	0.27
JHABUA POWER_MP	4.44	0.27
RENEWSW_SLR	4.10	0.25
SB6_POKARAN	3.94	0.24
AVADARJHN_SLR	3.91	0.24
TATA_SLR	3.82	0.23
BRBCL,NABINAGAR	3.77	0.23
NTPC STATIONS-NER	3.74	0.23
RAP C	3.66	0.23
CHANDIGARH	3.44	0.21
TATA_GREEN	3.31	0.20
JITPL	3.25	0.20
MB POWER	3.20	0.20
NJPC	3.08	0.19
BANGLADESH	2.98	0.18
JAYPEE NIGRIE	2.96	0.18
BALCO	2.82	0.17
RENEWURJA_SLR	2.79	0.17
EDEN_SLR	2.77	0.17
SESPL	2.76	0.17
RAIL	2.72	0.17
TATA_PVGD	2.68	0.16
BBMB	2.65	0.16
ACBIL	2.65	0.16
NTPC_ANTP	2.64	0.16
NTPL	2.63	0.16
NAPP	2.58	0.16
AZURE_MAPLE_SLR	2.56	0.16
COASTGEN	2.55	0.16
ABC_BHDL2	2.54	0.16
RENEWSB	2.49	0.15
AZURE41_SLR	2.45	0.15
DELHI	2.43	0.15
THAR1_SLR	2.35	0.14
GRT_JPL	2.31	0.14
ADHUNIK POWER LTD	2.30	0.14
MANIPUR	2.27	0.14
JSW_RENEW_2	2.20	0.14
TRIPURA	2.18	0.13
ARERJL_SLR	2.10	0.13
RENEWJH_SLR	2.05	0.13
SBSR_SLR	2.02	0.12
CLEAN_SLR	1.96	0.12
IL&FS	1.96	0.12
ACME_SLR	1.95	0.12
JINDAL STAGE-II	1.95	0.12
CLEANSF_SLR	1.95	0.12
TEHRI	1.95	0.12
SIKKIM	1.94	0.12
AYANA_RP1	1.85	0.11
MSUPL_BHDL2	1.83	0.11
NEEPCO STATIONS	1.82	0.11
SAINJ HEP	1.78	0.11
SKS POWER	1.78	0.11
MTPS II	1.77	0.11
POWERICA	1.77	0.11
KSK MAHANADI	1.72	0.11
NEP	1.65	0.10
MRPL	1.64	0.10
RENEW_SLR_BKN	1.64	0.10
NFF	1.64	0.10
SB_SLR	1.62	0.10

RPREL	1.56	0.10
RANGANADI HEP	1.45	0.09
SHREE CEMENT	1.43	0.09
ADY1_PVGD	1.43	0.09
NSPCL	1.42	0.09
ONGC PALATANA	1.40	0.09
AZURE_SLR	1.38	0.09
SBG_NPK	1.34	0.08
SIMHAPURI	1.26	0.08
DB POWER	1.26	0.08
ACME_HEERGARH	1.26	0.08
TRN ENERGY	1.25	0.08
AYANA_NPKUNTA	1.25	0.08
AVAADA2_PVGD	1.20	0.07
SPRNG_NPKUNTA	1.14	0.07
SBG_PVGD	1.13	0.07
PONDICHERRY	1.08	0.07
ESPL_RADHANESDA	1.04	0.06
RENEW_SR_SLR	1.03	0.06
AZURE34_SLR	0.99	0.06
NEPAL(NVVN)	0.98	0.06
JINDAL POWER	0.88	0.05
TATA_ANTP	0.88	0.05
MAITHON POWER LTD	0.86	0.05
TPREL_RADHANESDA	0.85	0.05
DGEN MEGA POWER	0.84	0.05
ARINSUM_RUMS	0.80	0.05
RAP B	0.79	0.05
RSTPS_FSPP	0.77	0.05
AVAADA1_PVGD	0.75	0.05
SASAN UMPP	0.73	0.04
ACME_RUMS	0.73	0.04
PARAM_PVGD	0.62	0.04
MAHINDRA_RUMS	0.56	0.03
MEGHALAYA	0.56	0.03
GIPCL_RADHANESDA	0.55	0.03
NAGALAND	0.55	0.03
FORTUM2_PVGD	0.54	0.03
RAMPUR HEP	0.50	0.03
RENEW_SLR	0.50	0.03
KSMPL_SLR	0.50	0.03
LANKO KONDAPALLI	0.49	0.03
ADANI GREEN	0.46	0.03
FRV_ANTP	0.46	0.03
AZURE_ANTP	0.45	0.03
RANGIT HEP	0.45	0.03
FRV_NPK	0.43	0.03
RGPPL	0.41	0.03
FORTUM1_PVGD	0.40	0.02
EMCO	0.38	0.02
KARCHAM WANGTOO	0.37	0.02
MEENAKSHI	0.37	0.02
DIKCHU HEP	0.36	0.02
AZURE_PVGD	0.35	0.02
SORANG HEP	0.34	0.02
AKSP_ANTP	0.31	0.02
AHSP_ANTP	0.31	0.02
ABSP_ANTP	0.30	0.02
RENEW_PVGD	0.29	0.02
GSECL_Radhanesda	0.28	0.02
AKS_PVGD	0.25	0.02
MIZORAM	0.23	0.01
ARS_PVGD	0.21	0.01

YARROW_PVGD	0.21	0.01
DHARIWAL POWER	0.20	0.01
DOYANG HEP	0.20	0.01
TEESTA STG3	0.19	0.01
SINGOLI BHATWARI HEP	0.19	0.01
KREDL_PVGD	0.17	0.01
LANKO_AMK	0.15	0.01
PARE HEP	0.15	0.01
KOTESHWAR	0.14	0.01
TASHIDENG HEP	0.12	0.01
HVDC RAIGARH	0.10	0.01
HVDC ALPD	0.10	0.01
LANCO BUDHIL	0.09	0.01
CHUZACHEN HEP	0.09	0.01
LOKTAK	0.08	0.01
JORETHANG	0.05	0.003
BHADRAVATHI HVDC	0.05	0.003
DAGACHU	0.04	0.003
AD HYDRO	0.04	0.002
RONGNICHU HEP	0.03	0.002
TEESTA HEP	0.03	0.002
DCPP	0.03	0.002
HVDC CHAMPA	0.03	0.002
HVDC PUS	0.003	0.0002
TOTAL	1624.77	100.00
Volume Imported by top 5 Regional Entities	428.73	26.39

Table-25: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), FEBRUARY 2023		
S. No.	Name of the Entity	Total volume of net short-term transactions of electricity*
1	TELANGANA	1885.17
2	GUJARAT	1439.79
3	RAJASTHAN	1068.51
4	ANDHRA PRADESH	1064.37
5	MAHARASHTRA	1060.62
6	TAMIL NADU	548.77
7	MP	457.35
8	HIMACHAL PRADESH	405.82
9	AMPS Hazira	303.32
10	UTTARAKHAND	272.34
11	J & K	223.63
12	KERALA	211.70
13	NEPAL(NVVN)	190.94
14	DD&DNH	169.33
15	JHARKHAND	133.14
16	DGPCL Bhutan	125.62
17	HARYANA	92.86
18	MEGHALAYA	88.37
19	GOA	37.78
20	BALCO	29.77
21	NTPC STATIONS-WR	27.13
22	NEP	19.48
23	MANIPUR	18.27
24	AGEMPL BHUJ	16.30
25	KAPP 3&4	12.72
26	GIWEL_BHUJ	11.80
27	SIKKIM	11.79
28	ARUNACHAL PRADESH	11.72
29	IGSTPS	8.74
30	RENEW_BHACHAU	8.53
31	PONDICHERRY	8.14
32	RENEW_BHUJ	7.74
33	SPRING_PUGALUR	6.35
34	NCR ALLAHABAD	6.32
35	ALFANAR_BHUJ	6.26
36	SBESS	5.99
37	THERMAL POWERTECH	4.92
38	INOX_BHUJ	4.69
39	SKRPL	4.60
40	AVIKIRAN	4.55
41	CGPL	4.41
42	BETAM_TCN	4.25
43	NETCL VALLUR	3.97
44	NPGC	3.68
45	MYTRAH_TCN	3.67
46	OSTRO Hiriya	2.94
47	RENEW SW_SLR	2.92
48	RAP C	2.77
49	SB6_POKARAN	2.55
50	BRBCL,NABINAGAR	2.37
51	AZURE_MAPLE_SLR	2.28
52	GIWEL_TCN	2.15
53	SESPL	2.06
54	ORANGE_TCN	2.03
55	NTPC_ANTP	1.74
56	NFF	1.63
57	EDEN_SLR	1.63
58	NTPC STATIONS-NR	1.57
59	NAPP	1.53
60	AZURE43_SLR	1.48
61	ARERJL_SLR	1.45
62	RENEWURJA_SLR	1.30

63	POWERICA	1.21
64	GRT_JPL	1.18
65	MSUPL_BHDL2	1.14
66	RANGANADI HEP	0.98
67	AZURE41_SLR	0.95
68	SBSR_SLR	0.92
69	RENEWJH_SLR	0.91
70	RENEWSB	0.90
71	MRPL	0.90
72	DGEN MEGA POWER	0.84
73	CLEANSR_SLR	0.84
74	IL&FS	0.83
75	ACME_SLR	0.72
76	MTPS II	0.67
77	LANKO KONDAPALLI	0.49
78	RANGIT HEP	0.45
79	NTPL	0.44
80	AVADARJHN_SLR	0.43
81	MEENAKSHI	0.37
82	RAP B	0.37
83	KSMPL_SLR	0.37
84	RGPL_IR	0.36
85	FRV_ANTP	0.34
86	AZURE34_SLR	0.32
87	AZURE_ANTP	0.32
88	ADANI GREEN	0.28
89	FRV_NPK	0.27
90	AVAADA2_PVGD	0.22
91	TPREL_RADHANESDA	0.18
92	RENEW_SLR	0.14
93	HVDC ALPD	0.08
94	HVDC RAIGARH	0.06
95	RSTPS_FSPP	0.06
96	TATA_ANTP	0.04
97	BHADRAVATHI HVDC	0.04
98	RENEW_SLR_BKN	-0.002
99	RGPL	-0.004
100	DOYANG HEP	-0.04
101	LOKTAK	-0.05
102	RENEW_PVGD	-0.05
103	KSK MAHANADI	-0.06
104	HVDC PUS	-0.07
105	HVDC CHAMPA	-0.08
106	GIPCL_RADHANESDA	-0.08
107	BANGLADESH	-0.09
108	VINDHYACHAL HVDC	-0.14
109	RONGNICHU HEP	-0.15
110	AZURE_SLR	-0.15
111	ESPL_RADHANESDA	-0.18
112	AKS_PVGD	-0.20
113	YARROW_PVGD	-0.26
114	PARE HEP	-0.27
115	ARS_PVGD	-0.30
116	SBG_PVGD	-0.33
117	AKSP_ANTP	-0.37
118	CHUZACHEN HEP	-0.37
119	AHSP_ANTP	-0.40
120	PARAM_PVGD	-0.45
121	ABSP_ANTP	-0.46
122	FORTUM1_PVGD	-0.55
123	GSECL_Radhanesda	-0.62
124	SBG_NPK	-0.65
125	KREDL_PVGD	-0.73
126	NSPCL	-0.778
127	AZURE_PVGD	-0.78
128	JORETHANG	-0.81

129	AVAADA1_PVGD	-0.81
130	LANCO BUDHIL	-0.81
131	TATA_PVGD	-0.92
132	TEHRI	-0.99
133	AYANA_RP1	-1.07
134	TASHIDENG HEP	-1.27
135	OSTRO	-1.34
136	DHARIWAL POWER	-1.48
137	ADY1_PVGD	-1.62
138	CLEAN_SLR	-1.75
139	RAIL	-1.83
140	AYANA_NPKUNTA	-1.97
141	ARINSUM_RUMS	-2.24
142	SPRNG_NPKUNTA	-2.29
143	MAITHON POWER LTD	-2.33
144	NJPC	-2.38
145	RAMPUR HEP	-2.41
146	ACME_RUMS	-2.50
147	KOTESHWAR	-2.54
148	MAHINDRA_RUMS	-2.62
149	NTPC STATIONS-NER	-2.66
150	FORTUM2_PVGD	-3.01
151	BARC	-3.41
152	NAGALAND	-3.72
153	NLC	-4.35
154	MIZORAM	-5.16
155	DIKCHU HEP	-5.91
156	ASEJTL_SLR	-6.92
157	SORANG HEP	-7.16
158	JSW_RENEW_2	-7.88
159	ASSAM	-8.73
160	SAINJ HEP	-9.16
161	SB_SLR	-10.18
162	SINGOLI BHATWARI HEP	-12.10
163	DAGACHU	-12.18
164	MARUTI COAL	-13.27
165	KARCHAM WANGTOO	-13.29
166	AD HYDRO	-13.63
167	BBMB	-14.32
168	TEESTA HEP	-15.78
169	LANKO_AMK	-16.41
170	SIMHAPURI	-16.89
171	CHANDIGARH	-20.10
172	ADANI_WIND	-21.09
173	ONGC PALATANA	-23.98
174	NHPC STATIONS	-24.99
175	RENEW_SR_SLR	-27.57
176	TATA_SLR	-28.09
177	TRN ENERGY	-29.11
178	JHABUA POWER_MP	-30.58
179	EMCO	-30.91
180	NTPC STATIONS-SR	-35.26
181	DCPP	-37.48
182	NTPC STATIONS-ER	-37.74
183	TATA_GREEN	-38.91
184	THARI_SLR	-42.54
185	ACME_HEERGARH	-45.82
186	SASAN UMPP	-46.06
187	TRIPURA	-49.21
188	REGL	-49.50
189	GMR KAMALANGA	-50.84
190	AVAADASN_SLR	-61.06
191	ABC_BHDL2	-62.80
192	ACBIL	-67.30
193	NEEPCO STATIONS	-68.32
194	AHEJ4L_WIND	-74.48

195	CHHATTISGARH	-77.15
196	KOLYAT SLR	-80.58
197	TEESTA STG3	-84.09
198	COASTGEN	-84.28
199	SKS POWER	-90.44
200	DVC	-93.87
201	SHREE CEMENT	-97.61
202	JAYPEE NIGRIE	-120.85
203	KARNATAKA	-126.01
204	AHEJ4L SOLAR	-132.15
205	MB POWER	-159.88
206	PUNJAB	-166.51
207	ADHUNIK POWER LTD	-168.23
208	ODISHA	-217.82
209	WEST BENGAL	-248.09
210	DB POWER	-253.80
211	JITPL	-297.13
212	JINDAL POWER	-364.02
213	RKM POWER	-393.15
214	SEMBCORP	-406.77
215	DELHI	-418.77
216	ESSAR POWER	-476.72
217	RPREL	-625.12
218	JINDAL STAGE-II	-646.49
219	BIHAR	-1271.33
220	UTTAR PRADESH	-1616.49
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and DSM		
(-) indicates sale and (+) indicates purchase		

Table-26: DETAILS OF CONGESTION IN POWER EXCHANGES, FEBRUARY 2023										
	Details of Congestion	Day Ahead Market			Green Day Ahead Market			Real Time Market		
		IEX	PXIL	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX
A	Unconstrained Cleared Volume (MUs)	4658.76	0.00	0.00	253.00	0.00	0.00	1714.05	0.00	0.00
B	Actual Cleared Volume and hence scheduled (MUs)	4658.76	0.00	0.00	253.00	0.00	0.00	1714.05	0.00	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	0.00	0.00	0.00	0.00	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	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%	0.00%	0.00%	0.00%	0.00%	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%	0.00%	0.00%	0.00%	0.00%	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%	0.00%	0.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
	18.00 - 24.00 hours	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
* This power would have been scheduled had there been no congestion										
Source: IEX, PXIL, HPX & NLDC										

Table-27: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE) (MUs), FEBRUARY 2023													
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	HPX	IEX	PXIL	HPX	IEX	PXIL	HPX		
1-Feb-23	127.78	122.40	136.16	0.00	0.00	10.35	0.00	0.00	48.08	0.00	0.00	56.02	3718.80
2-Feb-23	128.48	122.13	136.09	0.00	0.00	8.11	0.00	0.00	47.19	0.00	0.00	54.78	3790.43
3-Feb-23	128.05	122.67	152.40	0.00	0.00	8.90	0.00	0.00	48.93	0.00	0.00	52.17	3866.54
4-Feb-23	123.53	122.52	153.65	0.00	0.00	9.41	0.00	0.00	48.08	0.00	0.00	54.03	3886.59
5-Feb-23	101.66	123.69	168.20	0.00	0.00	9.40	0.00	0.00	51.55	0.00	0.00	50.68	3738.36
6-Feb-23	118.36	117.68	161.08	0.00	0.00	10.87	0.00	0.00	52.88	0.00	0.00	52.87	3889.96
7-Feb-23	118.59	121.00	169.11	0.00	0.00	10.88	0.00	0.00	55.54	0.00	0.00	53.54	3989.53
8-Feb-23	122.68	121.17	175.00	0.00	0.00	13.48	0.00	0.00	52.40	0.00	0.00	51.82	4029.26
9-Feb-23	134.39	116.22	162.70	0.00	0.00	10.86	0.00	0.00	53.70	0.00	0.00	58.97	4003.14
10-Feb-23	131.01	119.39	167.14	0.00	0.00	8.13	0.00	0.00	60.97	0.00	0.00	57.22	3982.93
11-Feb-23	152.20	115.94	152.62	0.00	0.00	8.97	0.00	0.00	70.00	0.00	0.00	57.82	4011.25
12-Feb-23	129.43	117.35	160.69	0.00	0.00	9.96	0.00	0.00	65.84	0.00	0.00	59.71	3780.90
13-Feb-23	157.24	107.60	175.57	0.00	0.00	8.19	0.00	0.00	68.53	0.00	0.00	58.42	3846.95
14-Feb-23	165.20	105.92	191.45	0.00	0.00	6.90	0.00	0.00	60.11	0.00	0.00	54.43	4024.03
15-Feb-23	178.16	110.44	189.24	0.00	0.00	8.17	0.00	0.00	61.64	0.00	0.00	55.02	4062.60
16-Feb-23	164.86	113.46	173.41	0.00	0.00	7.51	0.00	0.00	61.70	0.00	0.00	55.73	4056.45
17-Feb-23	169.25	115.35	180.78	0.00	0.00	8.17	0.00	0.00	62.68	0.00	0.00	54.29	3950.55
18-Feb-23	180.92	114.44	175.04	0.00	0.00	8.13	0.00	0.00	73.20	0.00	0.00	60.13	4053.45
19-Feb-23	161.20	113.93	203.00	0.00	0.00	8.86	0.00	0.00	67.67	0.00	0.00	54.95	3935.73
20-Feb-23	189.23	118.70	173.76	0.00	0.00	8.83	0.00	0.00	70.16	0.00	0.00	57.51	4057.17
21-Feb-23	193.88	114.41	177.55	0.00	0.00	8.94	0.00	0.00	75.69	0.00	0.00	56.99	4085.70
22-Feb-23	187.64	114.62	163.74	0.00	0.00	9.68	0.00	0.00	72.39	0.00	0.00	56.77	4117.50
23-Feb-23	187.98	114.70	165.82	0.00	0.00	9.79	0.00	0.00	65.22	0.00	0.00	54.66	4100.63
24-Feb-23	189.57	124.13	145.36	0.00	0.00	8.18	0.00	0.00	70.84	0.00	0.00	54.24	4130.81
25-Feb-23	184.15	124.85	154.60	0.00	0.00	7.73	0.00	0.00	62.78	0.00	0.00	57.07	4085.55
26-Feb-23	168.20	121.79	169.96	0.00	0.00	8.70	0.00	0.00	76.13	0.00	0.00	57.07	3940.26
27-Feb-23	184.54	125.98	163.89	0.00	0.00	6.46	0.00	0.00	54.25	0.00	0.00	58.50	4058.61
28-Feb-23	174.02	123.12	160.76	0.00	0.00	9.46	0.00	0.00	55.90	0.00	0.00	61.17	4058.01
Total	4352.20	3305.62	4658.76	0.00	0.00	253.00	0.00	0.00	1714.05	0.00	0.00	1566.57	111251.69
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-28(a): PRICE OF DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh),
FEBRUARY 2023**

Market Segment	Day ahead market of IEX			Day ahead market of PXIL			Day ahead market of HPX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Feb-23	2.82	12.00	5.03	-	-	-	-	-	-
2-Feb-23	2.87	12.00	5.15	-	-	-	-	-	-
3-Feb-23	2.96	12.00	4.92	-	-	-	-	-	-
4-Feb-23	3.06	12.00	4.95	-	-	-	-	-	-
5-Feb-23	2.95	6.21	4.36	-	-	-	-	-	-
6-Feb-23	2.98	12.00	5.33	-	-	-	-	-	-
7-Feb-23	2.91	12.00	4.43	-	-	-	-	-	-
8-Feb-23	2.96	12.00	4.87	-	-	-	-	-	-
9-Feb-23	3.14	12.00	5.29	-	-	-	-	-	-
10-Feb-23	3.45	12.00	5.63	-	-	-	-	-	-
11-Feb-23	2.88	12.00	6.32	-	-	-	-	-	-
12-Feb-23	2.99	12.00	5.71	-	-	-	-	-	-
13-Feb-23	3.32	12.00	6.93	-	-	-	-	-	-
14-Feb-23	3.45	12.00	6.92	-	-	-	-	-	-
15-Feb-23	3.77	12.00	7.22	-	-	-	-	-	-
16-Feb-23	3.88	12.00	7.46	-	-	-	-	-	-
17-Feb-23	3.88	12.00	8.01	-	-	-	-	-	-
18-Feb-23	4.17	12.00	8.40	-	-	-	-	-	-
19-Feb-23	3.56	12.00	6.24	-	-	-	-	-	-
20-Feb-23	3.88	12.00	7.67	-	-	-	-	-	-
21-Feb-23	3.77	12.00	7.63	-	-	-	-	-	-
22-Feb-23	3.77	12.00	6.84	-	-	-	-	-	-
23-Feb-23	4.07	12.00	7.46	-	-	-	-	-	-
24-Feb-23	4.57	12.00	7.94	-	-	-	-	-	-
25-Feb-23	4.13	12.00	8.68	-	-	-	-	-	-
26-Feb-23	4.06	12.00	8.15	-	-	-	-	-	-
27-Feb-23	5.00	12.00	8.71	-	-	-	-	-	-
28-Feb-23	5.00	12.00	8.83	-	-	-	-	-	-
	2.82[#]	12.00[#]	6.64	-	-	-	-	-	-

Source: IEX, PXIL and HPX

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

[#] Maximum/Minimum in the month

Table-28(b): PRICE OF GREEN DAY AHEAD TRANSACTIONS OF ELECTRICITY (DAY-WISE) (₹/kWh), FEBRUARY 2023									
Market Segment	Green Day ahead market of IEX			Green Day ahead market of PXIL			Green Day ahead market of HPX		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Feb-23	2.99	11.50	4.85	-	-	-	-	-	-
2-Feb-23	3.24	12.00	5.80	-	-	-	-	-	-
3-Feb-23	3.30	12.00	5.44	-	-	-	-	-	-
4-Feb-23	3.30	11.50	4.99	-	-	-	-	-	-
5-Feb-23	3.63	12.00	5.74	-	-	-	-	-	-
6-Feb-23	3.30	12.00	6.01	-	-	-	-	-	-
7-Feb-23	3.50	12.00	5.83	-	-	-	-	-	-
8-Feb-23	3.30	6.67	4.65	-	-	-	-	-	-
9-Feb-23	3.30	7.63	4.88	-	-	-	-	-	-
10-Feb-23	3.67	11.50	5.68	-	-	-	-	-	-
11-Feb-23	3.80	10.00	5.55	-	-	-	-	-	-
12-Feb-23	3.80	10.00	5.42	-	-	-	-	-	-
13-Feb-23	3.78	10.00	5.92	-	-	-	-	-	-
14-Feb-23	3.78	11.00	6.94	-	-	-	-	-	-
15-Feb-23	3.98	12.00	7.22	-	-	-	-	-	-
16-Feb-23	4.44	12.00	8.81	-	-	-	-	-	-
17-Feb-23	3.78	12.00	8.41	-	-	-	-	-	-
18-Feb-23	4.25	12.00	8.57	-	-	-	-	-	-
19-Feb-23	4.04	12.00	7.61	-	-	-	-	-	-
20-Feb-23	4.78	12.00	8.32	-	-	-	-	-	-
21-Feb-23	4.78	12.00	8.11	-	-	-	-	-	-
22-Feb-23	4.00	12.00	7.61	-	-	-	-	-	-
23-Feb-23	4.10	12.00	7.20	-	-	-	-	-	-
24-Feb-23	4.78	12.00	7.83	-	-	-	-	-	-
25-Feb-23	4.70	12.00	7.64	-	-	-	-	-	-
26-Feb-23	3.78	12.00	6.18	-	-	-	-	-	-
27-Feb-23	5.16	12.00	8.63	-	-	-	-	-	-
28-Feb-23	4.90	12.00	7.54	-	-	-	-	-	-
	2.99[#]	12.00[#]	6.57	-	-	-	-	-	-
Source: IEX, PXIL and HPX									
* Weighted average price computed based on Area Clearing Volume (ACV) and Area Clearing Price (ACP) for each hour of the day. Here, ACV and ACP represent the scheduled volume and weighted average price of all the bid areas of power exchanges.									
[#] Maximum/Minimum in the month									

Table-28(c): PRICE OF REAL TIME TRANSACTIONS AND DSM (DAY-WISE) (₹/kWh), FEBRUARY 2023												
Market Segment	Real Time market of IEX			Real Time market of PXIL			Real Time market of HPX			Under Drawl/Over Drawl from the Grid (DSM)**		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*	All India Grid		
										Minimum Price	Maximum Price	Average Price
1-Feb-23	2.40	12.00	4.67	-	-	-	-	-	-	2.70	12.00	5.12
2-Feb-23	2.85	12.00	4.96	-	-	-	-	-	-	2.70	12.00	5.26
3-Feb-23	2.65	12.00	4.95	-	-	-	-	-	-	2.70	12.00	5.08
4-Feb-23	3.00	12.00	6.69	-	-	-	-	-	-	2.70	12.00	6.18
5-Feb-23	1.00	6.13	4.31	-	-	-	-	-	-	2.70	8.09	4.57
6-Feb-23	1.67	12.00	5.05	-	-	-	-	-	-	2.82	12.00	5.49
7-Feb-23	2.81	12.00	5.84	-	-	-	-	-	-	2.82	12.00	5.67
8-Feb-23	3.46	12.00	7.12	-	-	-	-	-	-	2.82	12.00	6.75
9-Feb-23	3.05	12.00	6.79	-	-	-	-	-	-	2.82	12.00	6.54
10-Feb-23	1.67	12.00	6.46	-	-	-	-	-	-	2.82	12.00	6.32
11-Feb-23	2.70	12.00	7.84	-	-	-	-	-	-	2.82	12.00	7.49
12-Feb-23	2.66	8.87	4.65	-	-	-	-	-	-	2.82	12.00	5.59
13-Feb-23	2.60	12.00	6.23	-	-	-	-	-	-	2.83	12.00	7.08
14-Feb-23	3.41	12.00	9.91	-	-	-	-	-	-	3.41	12.00	9.50
15-Feb-23	5.20	12.00	9.66	-	-	-	-	-	-	3.41	12.00	9.68
16-Feb-23	4.32	12.00	8.65	-	-	-	-	-	-	3.41	12.00	8.72
17-Feb-23	3.46	12.00	8.63	-	-	-	-	-	-	3.46	12.00	9.00
18-Feb-23	3.64	12.00	8.44	-	-	-	-	-	-	3.70	12.00	9.42
19-Feb-23	2.37	10.00	5.57	-	-	-	-	-	-	3.62	12.00	6.66
20-Feb-23	2.80	12.00	6.53	-	-	-	-	-	-	3.50	12.00	8.28
21-Feb-23	4.80	12.00	8.96	-	-	-	-	-	-	4.06	12.00	9.18
22-Feb-23	4.15	12.00	7.12	-	-	-	-	-	-	4.04	12.00	7.82
23-Feb-23	3.61	12.00	7.23	-	-	-	-	-	-	3.81	12.00	8.06
24-Feb-23	6.01	12.00	9.43	-	-	-	-	-	-	6.01	12.00	9.62
25-Feb-23	4.55	12.00	9.56	-	-	-	-	-	-	4.55	12.00	9.88
26-Feb-23	3.46	12.00	6.33	-	-	-	-	-	-	3.56	12.00	8.18
27-Feb-23	4.00	12.00	9.50	-	-	-	-	-	-	4.00	12.00	9.51
28-Feb-23	4.00	12.00	9.22	-	-	-	-	-	-	4.50	12.00	9.68
	1.00#	12.00#	7.24	-	-	-	-	-	-	2.70#	12.00#	7.51
Source: Data on price of PX transactions from IEX, PXIL and HPX 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.												
** CERC DSM Regulations 2022 came into effect from 05.12.2022, wherein normal rate of charges for deviation for a time block is equal to the highest of the [weighted average Area Clearing Price (ACP) of the Day Ahead Market segments of all the Power Exchanges; or the weighted average ACP of the Real Time Market segments of all the Power Exchanges; or the Weighted Average Ancillary Service Charge of all the regions]. Thereafter a ceiling of Rs. 12/kWh was imposed by CERC from 28.12.2022												
# Maximum/Minimum in the month												

Table-29: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MUs), FEBRUARY 2023										
Name of the Entity	Through Bilateral (Traders + PXs + Direct)			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	1009.47	59.54	-949.93	1.84	794.81	792.97	30.56	40.10	-9.55	-166.51
HARYANA	313.22	143.97	-169.25	14.48	310.51	296.03	23.88	57.80	-33.91	92.86
RAJASTHAN	47.50	502.99	455.49	57.77	684.23	626.46	50.11	63.55	-13.44	1068.51
DELHI	372.71	111.78	-260.94	176.75	66.80	-109.95	2.43	50.31	-47.88	-418.77
UTTAR PRADESH	652.15	140.09	-512.06	1234.46	188.59	-1045.87	40.23	98.78	-58.55	-1616.49
UTTARAKHAND	5.05	240.69	235.64	25.83	57.99	32.17	20.39	15.85	4.54	272.34
HIMACHAL PRADESH	14.89	490.26	475.37	87.34	8.23	-79.11	18.97	9.41	9.56	405.82
J & K	55.83	82.37	26.54	68.32	306.64	238.32	6.61	47.84	-41.22	223.63
CHANDIGARH	0.00	0.00	0.00	19.32	0.65	-18.67	3.44	4.88	-1.43	-20.10
MP	336.88	859.11	522.23	119.18	104.90	-14.28	36.66	87.27	-50.60	457.35
MAHARASHTRA	59.85	764.98	705.14	166.45	491.39	324.94	75.74	45.20	30.54	1060.62
GUJARAT	131.92	300.65	168.73	37.88	1327.03	1289.15	59.60	77.69	-18.09	1439.79
CHHATTISGARH	103.81	75.06	-28.75	125.21	68.49	-56.72	27.01	18.70	8.32	-77.15
GOA	0.00	29.66	29.66	14.01	17.77	3.77	8.47	4.11	4.35	37.78
DD&DNH	0.00	78.90	78.90	4.09	94.07	89.97	4.51	4.06	0.45	169.33
ANDHRA P	4.54	668.23	663.70	54.86	460.15	405.30	26.92	31.54	-4.62	1064.37
KARNATAKA	196.09	267.10	71.01	292.05	99.93	-192.12	46.19	51.09	-4.90	-126.01
KERALA	0.00	269.68	269.68	77.25	19.15	-58.11	7.73	7.61	0.13	211.70
TAMIL NADU	117.58	718.44	600.86	112.61	101.14	-11.48	31.16	71.78	-40.62	548.77
PONDICHERRY	0.00	21.10	21.10	0.00	0.00	0.00	1.08	14.04	-12.96	8.14
TELANGANA	1.61	1152.88	1151.27	29.20	732.16	702.96	71.74	40.79	30.94	1885.17
WEST BENGAL	82.60	19.50	-63.11	321.49	45.31	-276.18	92.38	1.18	91.20	-248.09
ODISHA	99.83	114.85	15.01	339.76	79.54	-260.22	41.96	14.57	27.40	-217.82
BIHAR	64.54	0.00	-64.54	1223.19	0.75	-1222.44	34.69	19.04	15.65	-1271.33
JHARKHAND	0.00	123.28	123.28	32.72	19.14	-13.59	28.68	5.24	23.44	133.14
SIKKIM	0.35	23.50	23.15	4.41	1.56	-2.85	1.94	10.44	-8.50	11.79
DVC	117.04	0.00	-117.04	30.32	56.06	25.74	18.88	21.45	-2.57	-93.87
ARUNACHAL P	7.74	20.16	12.42	3.61	0.25	-3.36	5.71	3.05	2.66	11.72
ASSAM	0.00	0.00	0.00	62.40	37.78	-24.63	19.76	3.86	15.90	-8.73
MANIPUR	0.00	21.88	21.88	5.93	2.44	-3.49	2.27	2.38	-0.11	18.27
MEGHALAYA	7.41	107.52	100.11	5.60	0.62	-4.98	0.56	7.31	-6.75	88.37
MIZORAM	0.00	0.00	0.00	0.89	0.00	-0.89	0.23	4.50	-4.27	-5.16
NAGALAND	0.00	0.00	0.00	2.64	0.96	-1.68	0.55	2.60	-2.05	-3.72
TRIPURA	0.00	0.00	0.00	46.43	1.62	-44.80	2.18	6.59	-4.41	-49.21
NTPC STATIONS-NR	71.65	0.00	-71.65	0.00	0.00	0.00	102.22	28.99	73.22	1.57
NHPC STATIONS	0.00	0.00	0.00	0.03	0.00	-0.03	14.11	39.07	-24.96	-24.99
NFF	0.00	0.00	0.00	0.00	0.00	0.00	1.64	0.00	1.63	1.63
RAIL	0.00	0.00	0.00	0.00	0.00	0.00	2.72	4.55	-1.83	-1.83
NEP	0.00	0.00	0.00	0.00	18.89	18.89	1.65	1.06	0.59	19.48
NAPP	0.00	0.00	0.00	0.00	0.00	0.00	2.58	1.06	1.53	1.53
RAP B	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.41	0.37	0.37
NJPC	0.00	0.00	0.00	0.00	0.00	0.00	3.08	5.46	-2.38	-2.38
TEHRI	0.00	0.00	0.00	0.00	0.00	0.00	1.95	2.94	-0.99	-0.99
BBMB	0.00	0.00	0.00	0.00	0.00	0.00	2.65	16.98	-14.32	-14.32
RAP C	0.00	0.00	0.00	0.00	0.00	0.00	3.66	0.88	2.77	2.77
AD HYDRO	9.66	0.00	-9.66	3.78	0.00	-3.78	0.04	0.23	-0.19	-13.63
IGSTPS	0.00	0.00	0.00	0.00	0.00	0.00	14.38	5.65	8.74	8.74
KOTESHWAR	0.00	0.00	0.00	0.00	0.00	0.00	0.14	2.68	-2.54	-2.54
KARCHAM WANGTOO	2.78	0.00	-2.78	8.61	0.00	-8.61	0.37	2.27	-1.90	-13.29
SHREE CEMENT	91.06	0.00	-91.06	7.33	0.00	-7.33	1.43	0.65	0.78	-97.61
LANCO BUDHIL	0.00	0.00	0.00	0.66	0.00	-0.66	0.09	0.25	-0.15	-0.81
RAMPUR HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.50	2.91	-2.41	-2.41
SORANG HEP	1.72	0.00	-1.72	5.24	0.00	-5.24	0.34	0.54	-0.20	-7.16
SAINJ HEP	0.97	0.00	-0.97	8.10	0.00	-8.10	1.78	1.86	-0.08	-9.16
RENEW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.36	0.14	0.14
AZURE_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.38	1.54	-0.15	-0.15

SB_SLR	6.62	0.00	-6.62	4.07	0.00	-4.07	1.62	1.11	0.51	-10.18
ACME_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.23	0.72	0.72
AZURE34_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.99	0.66	0.32	0.32
TATA_SLR	31.12	0.00	-31.12	0.00	0.00	0.00	3.82	0.79	3.03	-28.09
RENEW_SLR_BKN	0.00	0.00	0.00	0.00	0.00	0.00	1.64	1.64	0.00	0.00
CLEAN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.96	3.71	-1.75	-1.75
ARERJL_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.10	0.65	1.45	1.45
KSMPL_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.13	0.37	0.37
ADANI GREEN	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.18	0.28	0.28
ASEJTL_SLR	0.00	0.00	0.00	10.44	0.00	-10.44	6.33	2.82	3.52	-6.92
SINGOLI BHATWARI HE	10.94	0.00	-10.94	1.18	0.00	-1.18	0.19	0.17	0.02	-12.10
AZURE43_SLR	0.00	0.00	0.00	0.00	0.00	0.00	4.45	2.96	1.48	1.48
MRPL	0.00	0.00	0.00	0.00	0.00	0.00	1.64	0.74	0.90	0.90
SB6_POKARAN	0.00	0.00	0.00	0.00	0.00	0.00	3.94	1.40	2.55	2.55
EDEN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.77	1.14	1.63	1.63
SBSR_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.02	1.11	0.92	0.92
RENEWSW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	4.10	1.18	2.92	2.92
RENEWJH_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.05	1.14	0.91	0.91
AHEJ4L_WIND	74.48	0.00	-74.48	0.00	0.00	0.00	0.00	0.00	0.00	-74.48
AHEJ4L_SOLAR	132.15	0.00	-132.15	0.00	0.00	0.00	0.00	0.00	0.00	-132.15
RENEWSB	0.00	0.00	0.00	0.00	0.00	0.00	2.49	1.59	0.90	0.90
AZURE41_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.45	1.50	0.95	0.95
AYANA_RP1	0.00	0.00	0.00	0.00	0.00	0.00	1.85	2.92	-1.07	-1.07
AVAADASN_SLR	63.51	0.00	-63.51	0.00	0.00	0.00	6.49	4.04	2.45	-61.06
RENEWURJA_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.79	1.50	1.30	1.30
AVADARJHN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	3.91	3.47	0.43	0.43
NCR ALLAHABAD	0.00	0.00	0.00	0.00	6.32	6.32	0.00	0.00	0.00	6.32
RENEW_SR_SLR	17.14	0.00	-17.14	9.90	0.00	-9.90	1.03	1.55	-0.52	-27.57
AZURE_MAPLE_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.56	0.29	2.28	2.28
THAR1_SLR	43.21	0.00	-43.21	0.00	0.00	0.00	2.35	1.68	0.67	-42.54
CLEANSR_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.95	1.11	0.84	0.84
ACME_HEERGARH	42.83	0.00	-42.83	0.00	0.00	0.00	1.26	4.25	-2.99	-45.82
ABC_BHDL2	63.31	0.00	-63.31	0.00	0.00	0.00	2.54	2.03	0.51	-62.80
MSUPL_BHDL2	0.00	0.00	0.00	0.00	0.00	0.00	1.83	0.69	1.14	1.14
KOLYAT_SLR	80.58	0.00	-80.58	0.00	0.00	0.00	0.00	0.00	0.00	-80.58
TATA_GREEN	41.20	0.00	-41.20	0.00	0.00	0.00	3.31	1.03	2.29	-38.91
NTPC STATIONS-WR	1.22	0.00	-1.22	9.42	0.00	-9.42	86.65	48.87	37.77	27.13
BHADRAVATHI HVDC	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.04	0.04
VINDHYACHAL HVDC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	-0.14	-0.14
JINDAL POWER	290.96	0.00	-290.96	68.17	0.00	-68.17	0.88	5.77	-4.89	-364.02
LANKO_AMK	8.19	0.00	-8.19	0.00	0.00	0.00	0.15	8.37	-8.22	-16.41
NSPCL	0.00	0.00	0.00	0.00	0.00	0.00	1.42	2.20	-0.78	-0.78
ACBIL	41.03	0.00	-41.03	28.06	0.89	-27.17	2.65	1.75	0.90	-67.30
BALCO	0.17	26.54	26.37	2.77	6.17	3.41	2.82	2.83	-0.01	29.77
RGPLL	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.42	0.00	0.00
CGPL	0.00	0.00	0.00	2.82	0.03	-2.80	7.54	0.33	7.21	4.41
DCPP	0.00	0.00	0.00	37.16	0.00	-37.16	0.03	0.34	-0.32	-37.48
EMCO	20.83	0.00	-20.83	8.58	0.00	-8.58	0.38	1.87	-1.49	-30.91
KSK MAHANADI	0.00	0.00	0.00	0.00	0.00	0.00	1.72	1.78	-0.06	-0.06
ESSAR POWER	322.29	0.00	-322.29	161.27	0.08	-161.20	10.20	3.44	6.77	-476.72
JINDAL STAGE-II	484.99	0.00	-484.99	153.05	4.45	-148.60	1.95	14.85	-12.90	-646.49
DB POWER	36.96	0.00	-36.96	214.28	0.00	-214.28	1.26	3.82	-2.561	-253.797
DHARIWAL POWER	0.00	0.00	0.00	0.93	0.00	-0.93	0.20	0.75	-0.55	-1.48
JAYPEE NIGRIE	39.51	0.00	-39.51	84.13	2.83	-81.30	2.96	2.99	-0.04	-120.85
DGEN MEGA POWER	0.00	0.00	0.00	0.00	0.00	0.00	0.84	0.00	0.84	0.84
MB POWER	58.80	0.00	-58.80	100.18	0.00	-100.18	3.20	4.10	-0.90	-159.88
MARUTI COAL	0.00	0.00	0.00	14.36	1.09	-13.27	0.00	0.00	0.00	-13.27
JHABUA POWER_MP	0.00	0.00	0.00	34.93	1.29	-33.64	4.44	1.38	3.06	-30.58
SASAN UMPP	0.00	0.00	0.00	0.60	0.00	-0.60	0.73	46.19	-45.46	-46.06
TRN ENERGY	12.46	0.00	-12.46	16.74	0.00	-16.74	1.25	1.16	0.09	-29.11
RKM POWER	293.78	0.00	-293.78	96.08	0.00	-96.08	5.67	8.96	-3.29	-393.15
SKS POWER	60.29	0.00	-60.29	31.15	0.37	-30.79	1.78	1.14	0.64	-90.44
BARC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.41	-3.41	-3.41

KAPP 3&4	0.00	0.00	0.00	0.00	0.00	0.00	12.72	0.00	12.72	12.72
HVDC CHAMPA	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.11	-0.08	-0.08
MAHINDRA_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	0.56	3.19	-2.62	-2.62
ARINSUM_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	0.80	3.04	-2.24	-2.24
OSTRO	1.18	0.00	-1.18	9.25	0.00	-9.25	11.26	2.18	9.08	-1.34
ACME_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	0.73	3.23	-2.50	-2.50
RENEW_BHACHAU	0.00	0.00	0.00	0.00	0.00	0.00	10.41	1.88	8.53	8.53
GIWEL_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	16.28	4.48	11.80	11.80
INOX_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	6.83	2.15	4.69	4.69
AGEMPL BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	19.36	3.06	16.30	16.30
REGL	5.18	0.00	-5.18	44.75	0.43	-44.33	0.00	0.00	0.00	-49.50
RPREL	439.60	0.00	-439.60	183.87	0.00	-183.87	1.56	3.21	-1.65	-625.12
AMPS Hazira	0.00	223.14	223.14	0.00	79.22	79.22	20.11	19.15	0.96	303.32
HVDC RAIGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.04	0.06	0.06
RGPLL_IR	0.00	0.00	0.00	0.00	0.36	0.36	0.00	0.00	0.00	0.36
ALFANAR_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	8.44	2.18	6.26	6.26
RENEW_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	10.50	2.76	7.74	7.74
ADANI_WIND	1.63	0.00	-1.63	19.46	0.00	-19.46	0.00	0.00	0.00	-21.09
TPREL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.68	0.18	0.18
ESPL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	1.04	1.21	-0.18	-0.18
GIPCL_RADHANESDA	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.64	-0.08	-0.08
GSECL_Radhanesda	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.90	-0.62	-0.62
AVIKIRAN	0.00	0.00	0.00	0.00	0.00	0.00	5.86	1.32	4.55	4.55
SESPL	0.00	0.00	0.00	0.00	0.00	0.00	2.76	0.71	2.06	2.06
POWERICA	0.00	0.00	0.00	0.00	0.00	0.00	1.77	0.56	1.21	1.21
SKRPL	0.00	0.00	0.00	0.00	0.00	0.00	7.68	3.08	4.60	4.60
SBESS	0.00	0.00	0.00	0.00	0.00	0.00	9.21	3.22	5.99	5.99
NTPC STATIONS-SR	8.57	0.00	-8.57	47.15	0.00	-47.15	43.29	22.82	20.47	-35.26
LANKO KONDAPALLI	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.49	0.49
SIMHAPURI	11.25	0.00	-11.25	6.75	0.00	-6.75	1.26	0.16	1.10	-16.89
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.37	0.37
COASTGEN	80.59	0.00	-80.59	6.10	0.00	-6.10	2.55	0.15	2.41	-84.28
THERMAL POWERTECH	0.00	0.00	0.00	0.00	0.00	0.00	5.57	0.65	4.92	4.92
IL&FS	0.00	0.00	0.00	1.50	0.42	-1.08	1.96	0.05	1.91	0.83
NLC	0.00	0.00	0.00	5.28	0.00	-5.28	12.86	11.93	0.93	-4.35
SEMBCORP	299.79	0.00	-299.79	112.26	0.00	-112.26	6.43	1.16	5.28	-406.77
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	5.58	1.61	3.97	3.97
NTPL	0.00	0.00	0.00	0.00	0.00	0.00	2.63	2.18	0.44	0.44
AHSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.71	-0.40	-0.40
AKSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.68	-0.37	-0.37
ABSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.77	-0.46	-0.46
AZURE_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.13	0.32	0.32
TATA_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.88	0.83	0.04	0.04
FRV_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.12	0.34	0.34
NTPC_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	2.64	0.90	1.74	1.74
GIWEL_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.69	4.53	2.15	2.15
MYTRAH_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.93	3.26	3.67	3.67
FRV_NPK	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.16	0.27	0.27
ORANGE_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.67	4.64	2.03	2.03
BETAM_TCN	0.00	0.00	0.00	0.00	0.00	0.00	7.24	2.99	4.25	4.25
SBG_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.47	-0.33	-0.33
SBG_NPK	0.00	0.00	0.00	0.00	0.00	0.00	1.34	1.99	-0.65	-0.65
FORTUM1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.95	-0.55	-0.55
PARAM_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.62	1.08	-0.45	-0.45
YARROW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.48	-0.26	-0.26
TATA_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.68	3.60	-0.92	-0.92
RENEW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.34	-0.05	-0.05
AKS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.45	-0.20	-0.20
ARS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.52	-0.30	-0.30
AVAADA1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.75	1.55	-0.81	-0.81
ADY1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.43	3.05	-1.62	-1.62
AZURE_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.35	1.13	-0.78	-0.78
FORTUM2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.54	3.55	-3.01	-3.01

AVAADA2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.20	0.98	0.22	0.22
KREDL_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.90	-0.73	-0.73
AYANA_NPKUNTA	0.00	0.00	0.00	0.00	0.00	0.00	1.25	3.22	-1.97	-1.97
SPRNG_NPKUNTA	0.00	0.00	0.00	0.00	0.00	0.00	1.14	3.43	-2.29	-2.29
SPRING_PUGALUR	0.00	0.00	0.00	0.00	0.00	0.00	8.60	2.25	6.35	6.35
OSTRO Hiriya	0.12	0.00	-0.12	4.56	0.00	-4.56	9.86	2.23	7.63	2.94
RSTPS_FSPP	0.00	0.00	0.00	0.00	0.00	0.00	0.77	0.71	0.06	0.06
GRT_JPL	0.00	0.00	0.00	0.00	0.00	0.00	2.31	1.13	1.18	1.18
JSW_RENEW_2	8.70	0.00	-8.70	0.00	0.00	0.00	2.20	1.37	0.82	-7.88
NTPC STATIONS-ER	0.00	0.00	0.00	81.49	0.00	-81.49	58.27	14.52	43.75	-37.74
MAITHON POWER LTD	0.00	0.00	0.00	0.00	0.00	0.00	0.86	3.19	-2.33	-2.33
NPGC	0.00	0.00	0.00	0.00	0.00	0.00	6.42	2.73	3.68	3.68
ADHUNIK POWER LTD	146.72	0.00	-146.72	22.02	0.00	-22.02	2.30	1.79	0.51	-168.23
CHUZACHEN HEP	0.00	0.00	0.00	0.38	0.00	-0.38	0.09	0.08	0.01	-0.37
RANGIT HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.45	0.45
GMR KAMALANGA	55.06	0.00	-55.06	0.18	0.00	-0.18	4.68	0.28	4.40	-50.84
JITPL	207.51	0.00	-207.51	87.41	0.00	-87.41	3.25	5.45	-2.20	-297.13
TEESTA HEP	0.00	0.00	0.00	13.95	0.00	-13.95	0.03	1.86	-1.83	-15.78
DAGACHU	11.95	0.00	-11.95	0.00	0.00	0.00	0.04	0.28	-0.23	-12.18
JORETHANG	0.44	0.00	-0.44	0.00	0.00	0.00	0.05	0.42	-0.36	-0.81
NEPAL(NVVN)	0.00	0.00	0.00	0.00	201.93	201.93	0.98	11.98	-10.99	190.94
BANGLADESH	0.00	0.00	0.00	0.00	0.00	0.00	2.98	3.07	-0.09	-0.09
HVDC PUS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	-0.07	-0.07
TEESTA STG3	83.31	0.00	-83.31	0.00	0.00	0.00	0.19	0.98	-0.78	-84.09
DIKCHU HEP	4.27	0.00	-4.27	1.71	0.00	-1.71	0.36	0.29	0.07	-5.91
HVDC ALPD	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.02	0.08	0.08
TASHIDENG HEP	0.76	0.00	-0.76	0.00	0.00	0.00	0.12	0.63	-0.51	-1.27
BRBCL,NABINAGAR	0.00	0.00	0.00	0.00	0.00	0.00	3.77	1.40	2.37	2.37
MTPS II	0.00	0.00	0.00	0.00	0.00	0.00	1.77	1.11	0.67	0.67
RONGNICHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.18	-0.15	-0.15
DGPCL Bhutan	0.00	0.00	0.00	0.00	120.40	120.40	5.75	0.52	5.22	125.62
NTPC STATIONS-NER	0.00	0.00	0.00	4.44	0.00	-4.44	3.74	1.95	1.79	-2.66
NEEPCO STATIONS	25.32	0.00	-25.32	33.48	0.00	-33.48	1.82	11.35	-9.53	-68.32
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	1.45	0.47	0.98	0.98
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.24	-0.04	-0.04
ONGC PALATANA	6.85	0.00	-6.85	17.50	0.00	-17.50	1.40	1.03	0.37	-23.98
LOKTAK	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.13	-0.05	-0.05
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.41	-0.27	-0.27
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 exchanges and DSM										

Table-30: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, FEBRUARY 2023

Sr. No.	Details of REC Transactions	IEX	PXIL	HPX
A	Volume of Buy Bid	432000	140717	143
B	Volume of Sell Bid	3432747	1125701	150
C	Ratio of Buy Bid to Sell Bid Volume	0.13	0.13	0.95
D	Market Clearing Volume (MWh)	373500	124217	143
E	Weighted average Market Clearing Price (₹/MWh)	1000	1000	1000

Source: IEX, PXIL and HPX

Note: 1 REC = 1 MWh

Table-31: VOLUME AND PRICE OF CROSS BORDER TRADE THROUGH DAY AHEAD MARKET AT IEX, FEBRUARY 2023

Sr. No.	Neighbouring Country	Volume (MU)			Weighted Average Price (₹/kWh)	
		Sale	Purchase	Net*	Sale	Purchase
1	Nepal	0.00	220.82	220.82	-	6.07
2	Bhutan	0.00	120.40	120.40	-	4.95
	Total	0.00	341.22	341.22	-	-

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



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