

# Monthly Report on Short-term Transactions of Electricity in India

June, 2020



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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
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
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
AMPS Hazira	Arcelor Mittal Nippon Steel, Hazira
ARERJL_SLR	Adani Renewable Energy Park Rajasthan Ltd.
ARINSUM_RUMS	Solenergi Rewa Ultra Mega Solar Project
ARS_PVGD	ACME REWARI Solar Power Pvt Ltd.
AVAADA1_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 1
AVAADA2_PVGD	Avaada Solar Energy Private Ltd., Pavagada Project 2
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
BALCO	Bharat Aluminum Company Limited
BARC	Bhabha Atomic Research Centre
BBMB	Bhakra Beas Management Board
BETAM_TCN	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
DB POWER	Diligent Power Pvt. Ltd.
DCPP	Donga Mahua Captive Power Plant
DGEN MEGA POWER	DGEN Mega Power Project
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

EMCO	EMCO Energy Limited
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,N P Kunta
GIWEL_BHUI	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.
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_BHUI	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 Developement 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	Lanco Amarkantak Power Private Limited
LANKO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANKO KONDAPALLY	Lanco Kondapally Power Private Limited
LOKTAK	Loktak Power Project
MAHINDRA_RUMS	Mahindra Rewa Ultra Mega Solar Project
MAHOBASLR	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
MTPS II	Muzaffarpur Thermal Power Station – Stage II
MYTRAH_TCN	Mytrah Energy (India) Private Limited, Tuticorin
Mus	Million Units
NAPP	Narora Atomic Power Plant

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
NTECL Vallur	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_PVGD	ReNew Wind Energy (TN2) Private Limited
RENEW_SLR	Renew Solar
RENEW_SLR_BKN	Renew Solar Bikaner
RGPPL	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Dispatch Centre
RPREL	Raipur Energen Limited
RTC	Round The Clock
RTM	Real Time Market
Sasan UMPP	Sasan Ultra Mega Power Project
SB_SLR	Soft Bank Solar
SBG CLEANTECH_SLR	SBG Cleantech Ltd
SBG_NPK	SB Energy Solar Private Limited, NP Kunta
SBG_PVGD	SB Energy Solar Private Limited, Pavagada
SEMBCORP	Sembcorp Gayatri Power Ltd
SHREE CEMENT	Shree Cement Limited
SIMHAPURI	Simhapuri Energy Private Limited
SKS Power	SKS Power Generation Chhattisgarh Limited
SPECTRUM	Spectrum Power Generation Ltd

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
THERMAL POWERTECH	Thermal Powertech Corporation India Limited
URI-II	Uri-II Hydropower Project
VINDHYACHAL HVDC	Vindhyachal High Voltage Direct Current Link
YARROW_PVGD	Yarrow Infra Structure Private Ltd

## Introduction

A well-functioning electricity market requires an effective market monitoring process. As part of the market monitoring process, the monthly report on short-term transactions of electricity, is being prepared and posted on the website of CERC since August 2008. 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 objectives of the report are: (i) to observe the trends in volume and price of the short-term transactions of electricity; (ii) to analyse competition among the market players; (iii) to analyse 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 disclose/disseminate all relevant market information. The details of the report for the month of **June, 2020** are as under:

### I: Volume of Short-term Transactions of Electricity

During June 2020, total electricity generation excluding generation from renewable and captive power plants in India was 99499.76 MUs (Table-1).

Of the total electricity generation, 11359.97 MUs (11.42%) was transacted through short-term, comprising of 4706.70 MUs (4.73%) through day ahead & real time collective transactions on power exchanges, followed by 4573.48 MUs (4.60%) through bilateral (through traders and term-ahead contracts on power exchanges and directly between distribution companies) and 2079.78 MUs (2.09%) through DSM (Table-1 & Figure-1).

Of the total short-term transactions, day ahead & real time collective transactions on power exchanges constitutes 41.43%, followed by 40.26% through bilateral (29.50% through traders and term-ahead contracts on power exchanges and 10.76% directly between distribution companies) and 18.31% through DSM (Table-1 & Figure-2). Daily volume of short-term transactions is shown in Table-20 & Figure-4.



Of the total volume transacted through the power exchanges, 85.81% of the volume was traded in day ahead market, followed by 10.60% in real time market and 3.59% in term ahead market (Figure-3).

The percentage share of electricity traded by each trading licensee in the total volume of electricity traded by all the trading licensees is provided 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 34 trading licensees as on June 2020. In June 2020, 24 trading licensees were engaged in short term trading. Top 5 trading licensees had a share of 70.48% in the total volume traded by all the licensees. These are PTC India Ltd., Tata Power Trading Company (P) Ltd., Statkraft Markets Pvt. Ltd., Manikaran Power Ltd. and Kreate Energy (I) Pvt. Ltd.

Herfindahl-Hirschman Index (HHI) 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 0.2132 for the month of June 2020, which indicates moderate concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day-ahead market was 4174.34 MUs and 15.03 MUs respectively. The volume of total buy bids and sell bids was 4661.78 MUs and 10164.25 MUs respectively in IEX, while the same was 27.37 MUs and 185.55 MUs respectively in PXIL.

The volume of electricity transacted through IEX and PXIL in the real time market was 515.46 MUs and 1.86 MUs respectively. The volume of total buy bids and sell bids was 742.14 MUs and 1809.56 MUs respectively in IEX, while the same was 3.32 MUs and 16.92 MUs respectively 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.

The volume of electricity transacted through IEX and PXIL in the term-ahead market was 100.34 MUs and 74.88 MUs respectively (Table-7 & Table-8).

## II: Price of Short-term Transactions of Electricity

(i) **Price of electricity transacted through Traders:** The minimum, maximum and weighted average sale prices have been computed for the electricity transacted through traders and the sale prices were ₹2.30/kWh, ₹5.22/kWh and ₹3.50/kWh respectively (Table-3). The weighted average sale prices were also computed for the transactions during Round the Clock (RTC), Peak and Off-peak periods separately, and the sale prices were ₹3.32/kWh, ₹3.54/kWh and ₹3.66/kWh respectively (Table-4).

(ii) **Price of electricity transacted through Power Exchanges:** The minimum, maximum and weighted average prices have been computed for the electricity transacted through IEX and PXIL. The minimum, maximum and weighted average prices in the day ahead market were ₹1.00/kWh, ₹4.11/kWh and ₹2.41/kWh respectively in IEX and these prices were ₹1.80/kWh, ₹3.50/kWh and ₹2.53/kWh respectively in PXIL (Table-5).

The minimum, maximum and weighted average prices in the real time market were ₹0.02/kWh, ₹5.00/kWh and ₹2.46/kWh respectively in IEX and these prices were ₹1.88/kWh, ₹4.00/kWh and ₹2.61/kWh respectively in PXIL (Table-6).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹3.42/kWh and ₹2.65/kWh respectively (Table-7 and Table-8).

(iii) **Price of electricity transacted through DSM:** The average deviation settlement price was ₹2.43/kWh. The minimum and maximum deviation settlement prices were ₹0.00/kWh and ₹8.00/kWh respectively (Table-9).

The prices of electricity transacted through trading licensees, power exchanges and DSM and their comparison is shown in Table-21 & 22, Figure-6 & 7.

### **III: Trading Margin**

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 up to 7 paise/kWh. The weighted average trading margin charged by the trading licensees for bilateral transactions during the month was ₹0.021/kWh.

### **IV: Volume of Short-term Transactions of Electricity (Regional Entity<sup>1</sup>-Wise)**

Of the total bilateral transactions, top 5 regional entities sold 48.66% of the volume, and these were Himachal Pradesh, Madhya Pradesh, Sembcorp Gayatri Power Ltd., Essar Power Limited and DB Power Ltd. Top 5 regional entities purchased 74.30% of the volume, and these were Uttar Pradesh, Punjab, Delhi, Andhra Pradesh and Tamil Nadu (Table-10 & 11).

Of the total power exchange day ahead market transactions, top 5 regional entities sold 47.29% of the volume, and these were Teesta Stage 3 Hydro Power Project, Jammu & Kashmir, Odisha, Himachal Pradesh and Raipur Energen Limited. Top 5 regional entities purchased 69.86% of the volume, and these were Maharashtra, Telangana, Gujarat, Punjab and Andhra Pradesh (Table-12 & 13).

Of the total power exchange real time market transactions, top 5 regional entities sold 58.93% of the volume, and these were Neyveli Lignite Corporation Limited, Jammu & Kashmir, Madhya Pradesh, Odisha and Uttar Pradesh. Top 5 regional entities purchased 73.50% of the volume, and these were Telangana, Maharashtra, Rajasthan, Andhra Pradesh and Haryana (Table-14 & 15).

Of the total DSM transactions, top 5 regional entities under drew 24.47% of the volume, and these were Chhukha Hydroelectric Project-Bhutan, Tamil Nadu, NHPC Stations, Madhya Pradesh and Gujarat (Table-16). Top 5 regional entities overdrew 25.73% of the volume, and

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<sup>1</sup> 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.

these were Tala Hydroelectric Project-Bhutan, Rajasthan, Uttar Pradesh, West Bengal and Karnataka (Table-17).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchanges and DSM is shown in Table-18 & 23. Top 5 electricity selling regional entities were Himachal Pradesh, Teesta Stage 3 Hydro Power Project, Jammu & Kashmir, Madhya Pradesh and Sembcorp Gayatri Power Ltd. Top 5 electricity purchasing regional entities were Punjab, Uttar Pradesh, Telangana, Maharashtra and Delhi.

## **V: Congestion<sup>2</sup> on Inter-State Transmission Corridor for Day-Ahead Market and Real Time Market on Power Exchanges**

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 step 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”<sup>3</sup>.

In the month of June 2020, congestion did not occur in the day-ahead market on both IEX and PXIL. However, congestion occurred in the real time market on IEX. The details of congestion are shown in Table-19. 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.

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

<sup>3</sup> “Market Splitting” is a mechanism adopted by Power Exchange 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.

During the month, the volume of electricity that could not be cleared in the real time market on IEX due to congestion was 0.001% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.07% in the real time market on IEX (Table-19).

## **VI: Volume and Price of Renewable Energy Certificates (RECs)**

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.

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.

The details of REC transactions for the month of June, 2020 are shown in Table-24. The market clearing volume of solar RECs transacted on IEX and PXIL were 66815 and 22683 respectively and the weighted average market clearing price of these RECs was ₹1000/MWh in IEX and ₹1010/MWh in PXIL. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 162873 and 96685 respectively and the weighted average market clearing price of these RECs was ₹ 1000/MWh in IEX and ₹ 1000/MWh in PXIL.

The gap between the volume of buy and sell bids of RECs placed through power exchanges shows about the variation in demand for both solar and non-solar RECs. For Solar RECs, the ratio of buy bids to sell bids was 0.49 and 0.67 in IEX and PXIL respectively. For non-solar RECs, the ratio of buy bids to sell bids was 0.23 and 0.24 in IEX and PXIL respectively.

## VII: Inferences:

- The percentage of short-term transactions of electricity to total electricity generation was 11.42%.
- Of the total short-term transactions, day ahead & real time collective transactions on power exchanges constitutes 41.43%, followed by 40.26% through bilateral (29.50% through traders and term-ahead contracts on power exchanges and 10.76% directly between distribution companies) and 18.31% through DSM.
- Of the total volume transacted through the power exchanges, 85.81% of the volume was traded in day ahead market, followed by 10.60% in real time market and 3.59% in term ahead market
- Top 5 trading licensees had a share of 70.48% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for the volume of electricity traded by trading licensees was 0.2132, indicating moderate concentration of market power.
- The weighted average price of electricity transacted through trading licensees was ₹3.50/kWh.
- The weighted average price of electricity transacted in day head market through IEX and PXIL were ₹2.41/kWh and ₹2.53/kWh respectively. While, the weighted average price of electricity transacted in real time market through IEX and PXIL were ₹2.46/kWh and ₹2.61/kWh respectively.
- The average price of electricity transacted through DSM was ₹2.43/kWh.
- The weighted average trading margin charged by the trading licensees for bilateral transactions during the month was ₹0.021/kWh. The trading margin charged during the month was in line with the Trading Margin regulations.
- Top 5 electricity selling regional entities were Himachal Pradesh, Teesta Stage 3 Hydro Power Project, Jammu & Kashmir, Madhya Pradesh and Sembcorp Gayatri

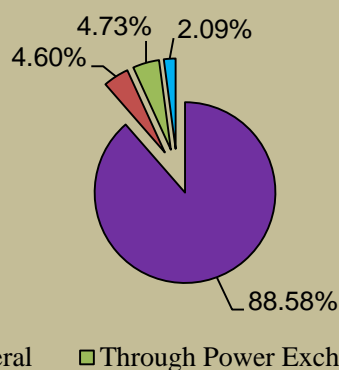
Power Ltd. Top 5 electricity purchasing regional entities were Punjab, Uttar Pradesh, Telangana, Maharashtra and Delhi.

- During the month of June 2020, congestion did not occur in the day-ahead market on both IEX and PXIL. However, there was congestion in the real time market on IEX. The volume of electricity that could not be cleared in the real time market on IEX due to congestion was 0.001% of the unconstrained cleared volume. In terms of time, congestion occurred was 0.07% in the real time market on IEX.
- The market clearing volume of solar RECs transacted on IEX and PXIL were 66815 and 22683 respectively and the weighted average market clearing price of these RECs was ₹1000/MWh in IEX and ₹1010/MWh in PXIL. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 162873 and 96685 respectively and the weighted average market clearing price of these RECs was ₹1000/MWh in IEX and ₹1000/MWh in PXIL.

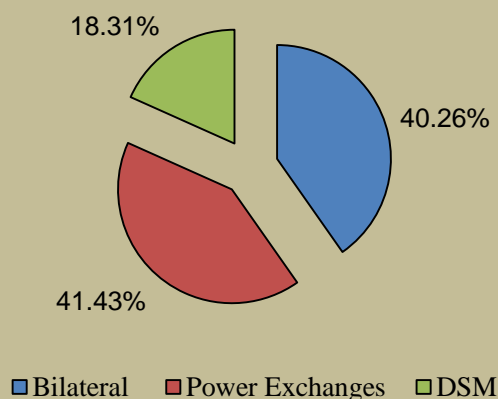
<b>Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA, JUNE 2020</b>				
<b>Sr.No</b>	<b>Short-term transactions</b>	<b>Volume (MUs)</b>	<b>% to Volume of short-term transactions</b>	<b>% to Total Generation</b>
1	Bilateral	4573.48	40.26	4.60
	(i) Through Traders and PXs	3351.18	29.50	3.37
	(ii) Direct	1222.30	10.76	1.23
2	Through Power Exchanges	4706.70	41.43	4.73
	(i) IEX			
	(a) DAM	4174.34	36.75	4.20
	(b) RTM	515.46	4.54	0.52
	(ii) PXIL			
	(a) DAM	15.03	0.13	0.02
	(b) RTM	1.86	0.02	0.002
3	Through DSM	2079.78	18.31	2.09
	<b>Total</b>	<b>11359.97</b>	<b>-</b>	<b>11.42</b>
	<b>Total Generation</b>	<b>99499.76</b>	<b>-</b>	<b>-</b>

Source: NLDC

**Figure-1: Volume of Various Kinds of Electricity Transactions in Total Electricity Generation, June 2020**

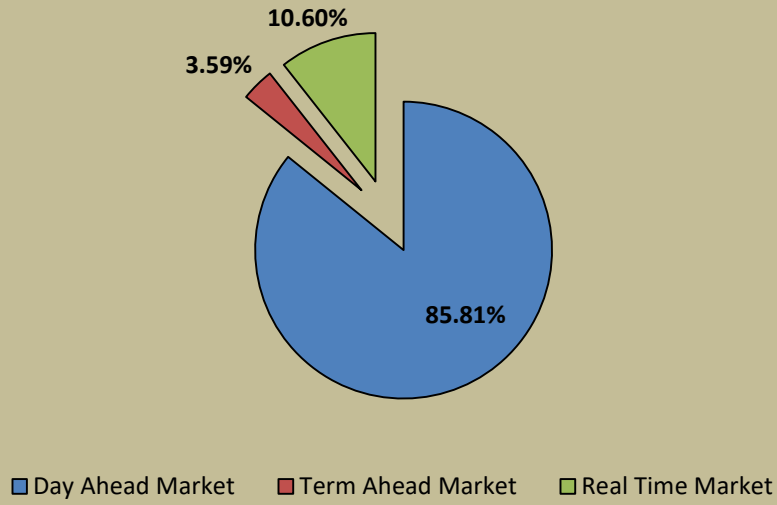


**Figure-2: Volume of Short-term Transactions of Electricity, June 2020**

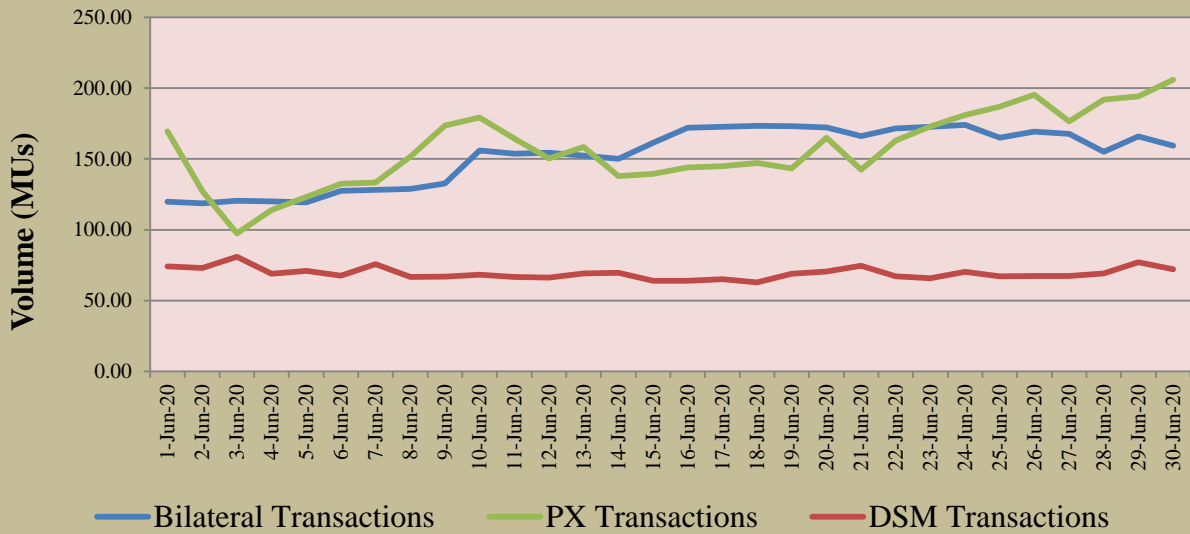




**Figure-3: Volume transacted in different markets segments on Power Exchanges, June 2020**

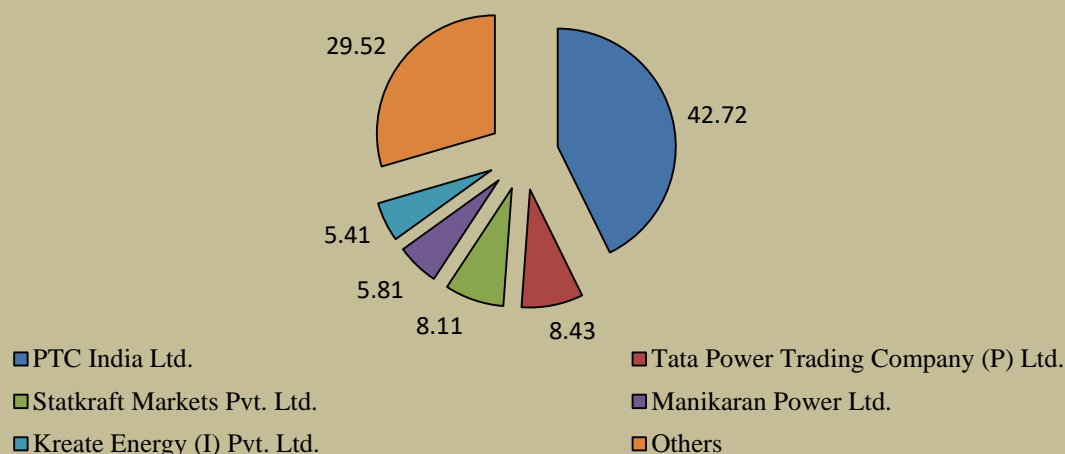


**Figure-4: Volume of Short-term Transactions of Electricity, June 2020 (Day-wise)**



<b>Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANACTED BY TRADING LICENSEES, JUNE 2020</b>			
<b>Sr.No</b>	<b>Name of the Trading Licensee</b>	<b>% Share in total Volume transacted by Trading Licensees</b>	<b>Herfindahl-Hirschman Index</b>
1	PTC India Ltd.	42.72	0.1825
2	Tata Power Trading Company (P) Ltd.	8.43	0.0071
3	Statkraft Markets Pvt. Ltd.	8.11	0.0066
4	Manikaran Power Ltd.	5.81	0.0034
5	Kreate Energy (I) Pvt. Ltd.	5.41	0.0029
6	NTPC Vidyut Vyapar Nigam Ltd.	4.87	0.0024
7	Adani Enterprises Ltd.	4.65	0.0022
8	Arunachal Pradesh Power Corporation (P) ltd	4.44	0.0020
9	Essar Electric Power Development Corp. Ltd.	4.20	0.0018
10	GMR Energy Trading Ltd.	3.65	0.0013
11	Gita Power & Infrastructure Private Limited	2.39	0.0006
12	NHPC Limited	1.93	0.0004
13	Knowledge Infrastructure Systems (P) Ltd	0.82	0.0001
14	National Energy Trading & Services Ltd.	0.70	0.0000
15	RPG Power Trading Company Ltd.	0.52	0.0000
16	Instinct Infra & Power Ltd.	0.43	0.0000
17	IPCL Power Trading Pvt. Ltd.	0.26	0.0000
18	JSW Power Trading Company Ltd	0.21	0.0000
19	Jaiprakash Associates Ltd.	0.20	0.0000
20	Abja Power Private Limited	0.09	0.0000
21	Customized Energy Solutions India (P) Ltd.	0.08	0.0000
22	Phillip Commodities India (P) Ltd.	0.03	0.0000
23	Shree Cement Ltd.	0.03	0.0000
24	NLC India Ltd.	0.01	0.0000
<b>TOTAL</b>		<b>100.00%</b>	<b>0.2132</b>
<b>Top 5 trading licensees</b>		<b>70.48%</b>	
<i>Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions (inter-state &amp; intra-state) and the transactions undertaken through power exchanges.</i>			
<i>Note 2: Volume of electricity transacted by Global Energy Ltd is not included.</i>			
<i>Source: Information submitted by trading licensees</i>			

**Figure- 5: Percentage Share of Electricity Transacted by Trading Licensees, June 2020**



<b>Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JUNE 2020</b>		
Sr.No	Item	Sale Price of Traders (₹/kWh)
1	Minimum	2.30
2	Maximum	5.22
3	Weighted Average	3.50

Source: Information submitted by trading licensees

<b>Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JUNE 2020</b>		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	3.32
2	PEAK	3.54
3	OFF PEAK	3.66

Source: Information submitted by trading licensees

<b>Table-5: PRICE OF ELECTRICITY TRANSACTED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	1.00	1.80
2	Maximum	4.11	3.50
3	Weighted Average	2.41	2.53

Source: Information submitted by IEX and PXIL

<b>Table-6: PRICE OF ELECTRICITY TRANSACTED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	0.02	1.88
2	Maximum	5.00	4.00
3	Weighted Average	2.46	2.61

Source: Information submitted by IEX and PXIL

<b>Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JUNE 2020</b>			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	6.39	3.27
2	Day Ahead Contingency Contracts	5.51	2.65
3	Daily Contracts	63.24	3.85
4	Weekly Contracts	25.20	2.53
	<b>Total</b>	<b>100.34</b>	<b>3.42</b>

Source: IEX

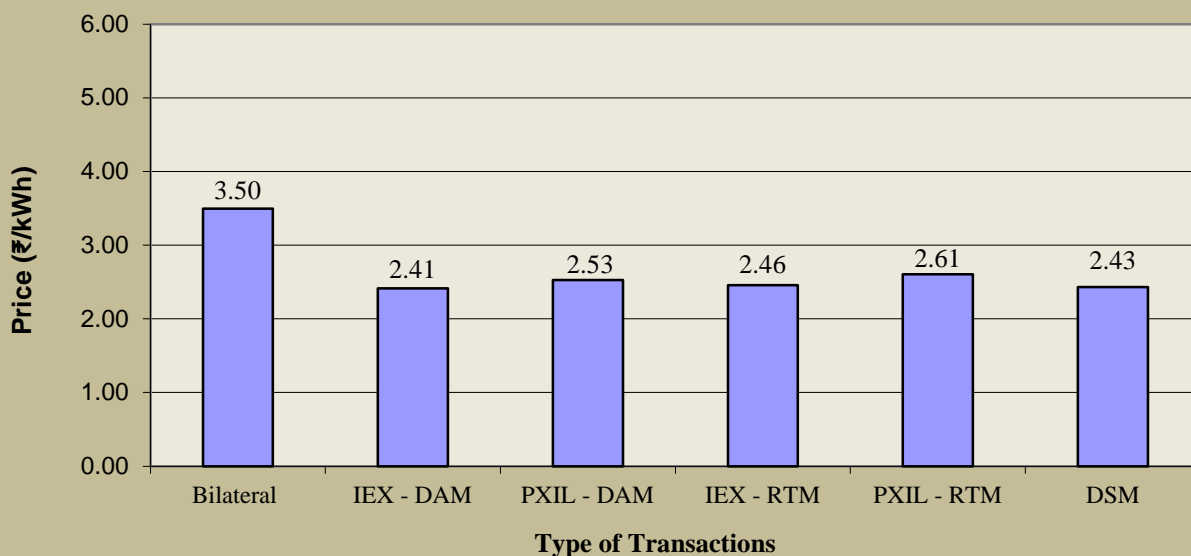
<b>Table-8: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JUNE 2020</b>			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	17.24	3.17
2	Any Day(s) Contracts	57.64	2.50
	<b>Total</b>	<b>74.88</b>	<b>2.65</b>

Source: PXIL

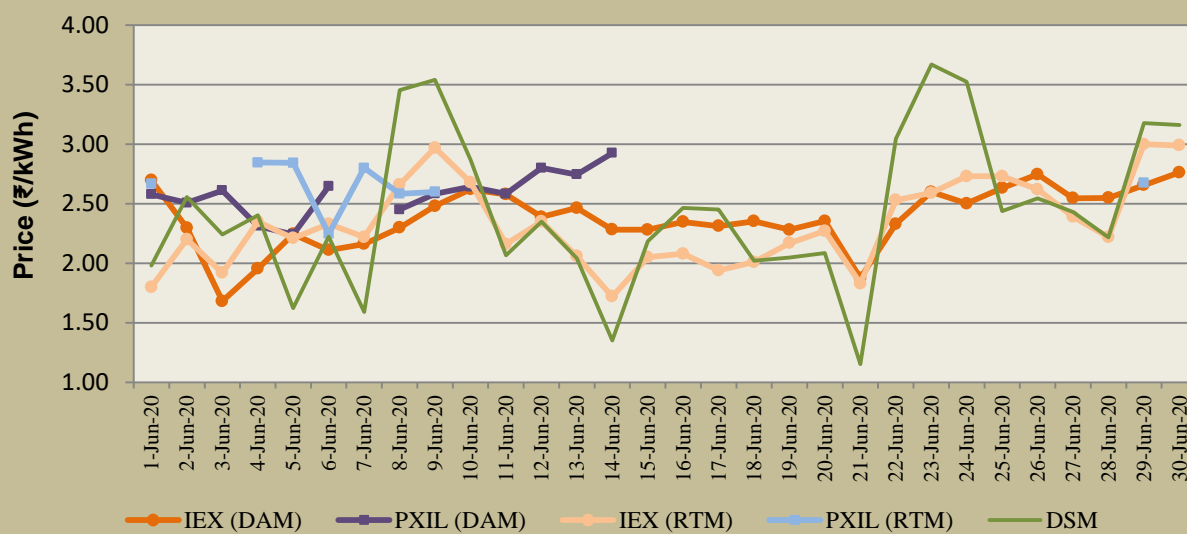
<b>Table-9: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, JUNE 2020</b>		
Sr.No	Item	Price in All India Grid (₹/kWh)
1	Minimum	0.00
2	Maximum	8.00
3	Average	2.43

Source: NLDC

**Figure-6: Price of Short-term Transactions of Electricity, June 2020**



**Figure-7: Price of Short-term Transactions of Electricity, June 2020 (Day-wise)**



*Note: In PXIL, transactions were recorded in DAM only on 1<sup>st</sup>-6<sup>th</sup>, 8<sup>th</sup>-14<sup>th</sup> June 2020 and in RTM on 1<sup>st</sup>, 4<sup>th</sup>-9<sup>th</sup> and 29<sup>th</sup> June 2020 only.*

<b>Table-10: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
HIMACHAL PRADESH	712.55	15.64
MP	481.26	10.56
SEMBCORP	393.92	8.64
ESSAR POWER	357.42	7.84
DB POWER	272.57	5.98
RAJASTHAN	262.28	5.76
RPREL	220.83	4.85
TAMIL NADU	205.73	4.51
DGEN MEGA POWER	193.04	4.24
JAYPEE NIGRIE	191.61	4.20
REGL	138.53	3.04
JITPL	114.24	2.51
ADHUNIK POWER LTD	101.58	2.23
KARNATAKA	90.54	1.99
UTTARAKHAND	85.77	1.88
ONGC PALATANA	66.20	1.45
DAGACHU	64.41	1.41
CHUZACHEN HEP	59.74	1.31
KSK MAHANADI	57.43	1.26
MEGHALAYA	53.09	1.17
J & K	52.54	1.15
GUJARAT	46.90	1.03
KERALA	38.15	0.84
DVC	37.43	0.82
KARCHAM WANGTOO	35.32	0.77
MANIPUR	34.09	0.75
AD HYDRO	32.49	0.71
SKS POWER	29.73	0.65
ANDHRA PRADESH	17.19	0.38
ARUNACHAL PRADESH	16.56	0.36
SIKKIM	16.36	0.36
BALCO	14.82	0.33
NAGALAND	11.00	0.24
LANKO_AMK	8.38	0.18
SAINJ HEP	7.50	0.16
ODISHA	6.36	0.14
TELANGANA	6.12	0.13
CHHATTISGARH	5.76	0.13
MAHARASHTRA	5.67	0.12
GMR KAMALANGA	4.56	0.10
GOA	2.70	0.06
WEST BENGAL	1.60	0.04
MIZORAM	1.56	0.03
ACBIL	0.73	0.02
UTTAR PRADESH	0.35	0.01
NTPC STATIONS-NER	0.28	0.01
TEESTA STG3	0.15	0.00
JHABUA POWER_MP	0.14	0.00
NTPC STATIONS-ER	0.02	0.00
BIHAR	0.02	0.00
<b>Total</b>	<b>4557.22</b>	<b>100.00</b>
<b>Volume Sold by top 5 Regional Entities</b>	<b>2217.72</b>	<b>48.66</b>

<b>Table-11: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (Mus)</b>	<b>% of Volume</b>
UTTAR PRADESH	1156.89	25.30
PUNJAB	847.32	18.53
DELHI	814.72	17.81
ANDHRA PRADESH	324.84	7.10
TAMIL NADU	254.14	5.56
HARYANA	239.13	5.23
WEST BENGAL	161.15	3.52
BIHAR	142.37	3.11
BANGLADESH	129.16	2.82
ASSAM	108.37	2.37
CHHATTISGARH	107.25	2.35
JHARKHAND	101.58	2.22
MP	61.38	1.34
GOA	42.21	0.92
NEPAL(NVVN)	24.31	0.53
RAJASTHAN	18.38	0.40
ODISHA	15.33	0.34
TELANGANA	12.18	0.27
MAHARASHTRA	6.88	0.15
GUJARAT	2.71	0.06
UTTARAKHAND	1.68	0.04
KARNATAKA	1.48	0.03
DADRA & NAGAR HAVELI	0.02	0.00
<b>TOTAL</b>	<b>4573.48</b>	<b>100.00</b>
<b>Volume Purchased by top 5 Regional Entities</b>	<b>3397.91</b>	<b>74.30</b>

<b>Table-12: VOLUME OF ELECTRICITY SOLD IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (Mus)</b>	<b>% of Volume</b>
TEESTA STG3	696.56	16.63
J & K	523.70	12.50
ODISHA	321.07	7.66
HIMACHAL PRADESH	269.19	6.43
RPREL	170.77	4.08
ASSAM	155.12	3.70
MP	124.24	2.97
UTTAR PRADESH	117.65	2.81
SEMBCORP	116.55	2.78
DELHI	92.30	2.20
JAYPEE NIGRIE	86.04	2.05
AD HYDRO	74.58	1.78
REGL	73.04	1.74
DIKCHU HEP	71.97	1.72
MB POWER	69.77	1.67
CHHATTISGARH	65.30	1.56
JINDAL POWER	63.40	1.51
SAINJ HEP	56.81	1.36
JORETHANG	56.49	1.35
GUJARAT	56.01	1.34
DGEN MEGA POWER	55.79	1.33
TASHIDENG HEP	53.33	1.27
JINDAL STAGE-II	48.32	1.15
KARCHAM WANGTOO	46.32	1.11
BIHAR	46.10	1.10
SIKKIM	44.12	1.05
JHABUA POWER_MP	42.69	1.02
ESSAR POWER	41.12	0.98
GOA	40.62	0.97
MEGHALAYA	39.14	0.93
KARNATAKA	38.54	0.92
JITPL	37.10	0.89
ACBIL	34.58	0.83
JHARKHAND	30.80	0.74
SPECTRUM	30.72	0.73
UTTARAKHAND	28.70	0.68
MARUTI COAL	26.15	0.62
NEEPCO STATIONS	23.92	0.57
CHANDIGARH	22.12	0.53
DB POWER	21.21	0.51
NTPC STATIONS-WR	15.78	0.38
ARUNACHAL PRADESH	15.70	0.37
MAHARASHTRA	14.53	0.35
RAJASTHAN	14.24	0.34
SKS POWER	11.70	0.28
KSMPL_SLR	10.42	0.25
TAMIL NADU	10.38	0.25
THERMAL POWERTECH	10.37	0.25
CHUZACHEN HEP	9.46	0.23
ANDHRA PRADESH	8.08	0.19
KERALA	7.13	0.17

NLC	5.72	0.14
LANCO BUDHIL	5.28	0.13
TELANGANA	5.03	0.12
WEST BENGAL	4.59	0.11
TRIPURA	4.56	0.11
DVC	4.21	0.10
MANIPUR	3.93	0.09
ONGC PALATANA	2.17	0.05
MIZORAM	2.09	0.05
HARYANA	1.92	0.05
NJPC	1.81	0.04
NTPC STATIONS-ER	1.81	0.04
BALCO	1.60	0.04
GMR KAMALANGA	1.58	0.04
RAMPUR HEP	1.05	0.03
IL&FS	0.78	0.02
NAGALAND	0.57	0.01
NTPC STATIONS-SR	0.54	0.01
NTPC STATIONS-NER	0.14	0.003
DADRA & NAGAR HAVELI	0.10	0.002
DHARIWAL POWER	0.09	0.002
ADHUNIK POWER LTD	0.05	0.001
EMCO	0.039	0.001
<b>Total</b>	<b>4189.37</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>1981.29</b>	<b>47.29</b>



<b>Table-13: VOLUME OF ELECTRICITY PURCHASED IN DAY AHEAD MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
MAHARASHTRA	865.43	20.66
TELANGANA	751.68	17.94
GUJARAT	501.14	11.96
PUNJAB	438.28	10.46
ANDHRA PRADESH	370.03	8.83
TAMIL NADU	222.39	5.31
HARYANA	158.55	3.78
AMPS Hazira	123.36	2.94
RAJASTHAN	106.14	2.53
UTTAR PRADESH	96.45	2.30
KARNATAKA	79.13	1.89
BIHAR	78.44	1.87
DELHI	62.69	1.50
UTTARAKHAND	56.88	1.36
ODISHA	46.75	1.12
KERALA	46.68	1.11
ARUNACHAL PRADESH	41.12	0.98
MP	33.18	0.79
HIMACHAL PRADESH	28.09	0.67
DADRA & NAGAR HAVELI	21.97	0.52
WEST BENGAL	21.53	0.51
CHHATTISGARH	19.39	0.46
MANIPUR	9.01	0.22
ASSAM	4.06	0.10
DAMAN AND DIU	2.37	0.06
CHANDIGARH	2.10	0.05
GOA	1.16	0.03
JHARKHAND	1.15	0.03
MIZORAM	0.21	0.01
NAGALAND	0.01	0.0001
<b>TOTAL</b>	<b>4189.37</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>2926.56</b>	<b>69.86</b>

<b>Table-14: VOLUME OF ELECTRICITY SOLD IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Sale (Mus)</b>	<b>% of Volume</b>
NLC	111.23	21.50
J & K	93.99	18.17
MP	42.82	8.28
ODISHA	32.90	6.36
UTTAR PRADESH	23.92	4.62
SEMBCORP	18.25	3.53
NTPC STATIONS-ER	16.80	3.25
KARNATAKA	16.31	3.15
DELHI	14.01	2.71
NTPC STATIONS-NR	13.66	2.64
GUJARAT	12.87	2.49
RPREL	11.57	2.24
NTPC STATIONS-WR	10.58	2.04
TEESTA STG3	7.76	1.50
SIKKIM	6.45	1.25
JHABUA POWER_MP	6.42	1.24
BIHAR	5.86	1.13
ASSAM	5.39	1.04
NTPC STATIONS-SR	5.13	0.99
CHHATTISGARH	5.09	0.98
HIMACHAL PRADESH	4.54	0.88
RAJASTHAN	4.18	0.81
TASHIDENG HEP	3.96	0.76
REGL	3.68	0.71
MAHARASHTRA	3.61	0.70
NPGC	3.36	0.65
JORETHANG	3.30	0.64
JHARKHAND	3.22	0.62
WEST BENGAL	3.03	0.59
ONGC PALATANA	3.02	0.58
MARUTI COAL	2.85	0.55
KERALA	2.45	0.47
ESSAR POWER	2.27	0.44
JINDAL STAGE-II	2.14	0.41
DB POWER	1.75	0.34
THERMAL POWERTECH	1.55	0.30
BRBCL,NABINAGAR	1.16	0.22
DGEN MEGA POWER	0.95	0.18
JINDAL POWER	0.91	0.18
NSPCL	0.83	0.16
MEGHALAYA	0.60	0.12
ACBIL	0.55	0.11
MB POWER	0.46	0.09
SPECTRUM	0.40	0.08
CHANDIGARH	0.39	0.08
KARCHAM WANGTOO	0.26	0.05
TELANGANA	0.22	0.04
RGPPL (DABHOL)	0.17	0.03
NEEPCO STATIONS	0.12	0.02

AD HYDRO	0.08	0.02
DVC	0.08	0.01
BALCO	0.07	0.01
TAMIL NADU	0.06	0.01
EMCO	0.06	0.01
DIKCHU HEP	0.02	0.004
SKS POWER	0.01	0.002
DHARIWAL POWER	0.004	0.001
NAGALAND	0.003	0.001
<b>Total</b>	<b>517.33</b>	<b>100.00</b>
<b>Volume sold by top 5 Regional Entities</b>	<b>304.86</b>	<b>58.93</b>

<b>Table-15: VOLUME OF ELECTRICITY PURCHASED IN REAL TIME MARKET THROUGH POWER EXCHANGES, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Purchase (Mus)</b>	<b>% of Volume</b>
TELANGANA	181.15	35.02
MAHARASHTRA	85.57	16.54
RAJASTHAN	42.96	8.30
ANDHRA PRADESH	40.38	7.80
HARYANA	30.17	5.83
WEST BENGAL	26.20	5.06
ASSAM	23.42	4.53
CHHATTISGARH	12.41	2.40
DELHI	11.35	2.19
GUJARAT	8.94	1.73
NAGALAND	7.63	1.48
BIHAR	6.31	1.22
AMPS Hazira	6.30	1.22
ODISHA	6.29	1.22
UTTAR PRADESH	6.24	1.21
MANIPUR	4.74	0.92
KARNATAKA	3.40	0.66
KERALA	2.54	0.49
JHARKHAND	1.66	0.32
TRIPURA	1.56	0.30
DADRA & NAGAR HAVELI	1.43	0.28
PUNJAB	1.40	0.27
TAMIL NADU	1.21	0.23
UTTARAKHAND	1.08	0.21
MEGHALAYA	0.91	0.18
JORETHANG	0.71	0.14
GOA	0.30	0.06
MP	0.27	0.05
HIMACHAL PRADESH	0.27	0.05
RPREL	0.18	0.04
SIKKIM	0.14	0.03
REGL	0.13	0.02
DVC	0.08	0.0155
<b>TOTAL</b>	<b>517.33</b>	<b>100.00</b>
<b>Volume purchased by top 5 Regional Entities</b>	<b>380.22</b>	<b>73.50</b>

<b>Table-16: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, JUNE 2020</b>		
<b>Name of the Entity</b>	<b>Volume of Under drawal (Mus)</b>	<b>% of Volume</b>
CHUKHA HEP	125.39	5.93
TAMIL NADU	106.38	5.03
NHPC STATIONS	100.45	4.75
MP	95.90	4.54
GUJARAT	89.32	4.22
RAJASTHAN	79.69	3.77
NTPC STATIONS-WR	74.78	3.54
MAHARASHTRA	74.10	3.50
UTTAR PRADESH	67.27	3.18
KARNATAKA	60.91	2.88
PUNJAB	60.76	2.87
ANDHRA PRADESH	57.80	2.73
J & K	55.56	2.63
BIHAR	51.75	2.45
TELANGANA	50.02	2.37
HARYANA	47.88	2.26
NTPC STATIONS-NR	47.01	2.22
KURICHU HEP	43.73	2.07
SASAN UMPP	37.20	1.76
ODISHA	34.70	1.64
JHARKHAND	30.70	1.45
CHHATTISGARH	29.30	1.39
DELHI	28.93	1.37
NLC	24.63	1.16
HIMACHAL PRADESH	24.34	1.15
DVC	22.00	1.04
NTPC STATIONS-ER	20.65	0.98
AMPS Hazira	19.92	0.94
GIWEL_BHUJ	18.85	0.89
BBMB	17.67	0.84
NTPC STATIONS-SR	17.65	0.83
UTTARAKHAND	17.35	0.82
KARCHAM WANGTOO	11.96	0.57
ORANGE_TCN	11.59	0.55
TATA_PVGD	11.54	0.55
TRIPURA	11.46	0.54
GIWEL_TCN	10.94	0.52
WEST BENGAL	10.66	0.50
JINDAL STAGE-II	10.40	0.49
NJPC	10.01	0.47
OSTRO	10.00	0.47
NEEPCO STATIONS	9.56	0.45
RENEW_BHACHAU	9.01	0.43
CLEAN_SLR	8.68	0.41
KERALA	8.63	0.41
PONDICHERRY	8.08	0.38
GOA	7.80	0.37
AGEMPL BHUJ	7.46	0.35
MYTRAH_TCN	7.38	0.35
ASSAM	7.27	0.34
MEGHALAYA	7.26	0.34
ARUNACHAL PRADESH	6.95	0.33
MANGDECHU HEP	6.86	0.32
MAHINDRA_RUMS	6.48	0.31
MB POWER	6.38	0.30
KSK MAHANADI	6.02	0.28
CHANDIGARH	5.89	0.28

MAITHON POWER LTD	5.77	0.27
ESSAR POWER	5.74	0.27
INOX_BHUI	5.67	0.27
TEESTA STG3	5.61	0.27
ARINSUM_RUMS	5.49	0.26
JINDAL POWER	5.46	0.26
ARERJL_SLR	5.36	0.25
NEPAL(NVVN)	5.24	0.25
EMCO	5.23	0.25
RPREL	5.06	0.24
JAYPEE NIGRIE	4.96	0.23
ACME_RUMS	4.90	0.23
DIKCHU HEP	4.85	0.23
NAPP	4.77	0.23
AZURE_SLR	4.72	0.22
RENEW_SLR_BKN	4.60	0.22
SEMBCORP	4.49	0.21
SBG_NPK	4.39	0.21
CGPL	4.00	0.19
AVAADA1_PVGD	3.95	0.19
NAGALAND	3.91	0.18
BANGLADESH	3.88	0.18
MIZORAM	3.76	0.18
RANGANADI HEP	3.58	0.17
BETAM_TCN	3.53	0.17
BARC	3.45	0.16
RAMPUR HEP	3.41	0.16
FORTUM2_PVGD	3.40	0.16
RAIL	3.32	0.16
ACME_SLR	3.31	0.16
DGEN MEGA POWER	3.27	0.15
AD HYDRO	3.19	0.15
AZURE34_SLR	3.15	0.15
TATA_SLR	3.10	0.15
SIKKIM	3.07	0.14
TASHIDENG HEP	3.01	0.14
DADRA & NAGAR HAVELI	2.96	0.14
TEESTA HEP	2.93	0.14
FORTUM1_PVGD	2.89	0.14
ACBIL	2.88	0.14
AVAADA2_PVGD	2.87	0.14
LANKO_AMK	2.86	0.14
KOTESHWAR	2.82	0.13
PARAM_PVGD	2.81	0.13
NTPC STATIONS-NER	2.80	0.13
TEHRI	2.78	0.13
RAP B	2.72	0.13
SAINJ HEP	2.68	0.13
NTPC_ANTP	2.65	0.13
REGL	2.47	0.12
BRBCL,NABINAGAR	2.29	0.11
NPGC	2.23	0.11
MANIPUR	2.14	0.10
NTPL	2.07	0.10
NSPCL	2.04	0.10
RAP C	2.04	0.10
AZURE_PVGD	2.00	0.09
SB_SLR	1.84	0.09
TRN ENERGY	1.82	0.09
JORETHANG	1.79	0.08
SKS POWER	1.77	0.08

TATA_ANTP	1.71	0.08
SBG_PVGD	1.69	0.08
DAGACHU	1.66	0.08
CHUZACHEN HEP	1.62	0.08
DB POWER	1.57	0.07
ADY2_PVGD	1.49	0.07
ADY6_PVGD	1.43	0.07
RKM POWER	1.38	0.07
ADY1_PVGD	1.34	0.06
ADY3_PVGD	1.34	0.06
THERMAL POWERTECH	1.30	0.06
RENEW_SLR	1.22	0.06
ADY10_PVGD	1.21	0.06
ONGC PALATANA	1.19	0.06
TALA HEP	1.19	0.06
FRV_NPK	1.17	0.06
ADY13_PVGD	1.14	0.05
JITPL	1.12	0.05
GMR KAMALANGA	1.10	0.05
YARROW_PVGD	1.08	0.05
FRV_ANTP	1.05	0.05
AKS_PVGD	1.03	0.05
HVDC CHAMPA	0.99	0.05
KSMPL_SLR	0.98	0.05
RENEW_PVGD	0.98	0.05
AHSP_ANTP	0.97	0.05
JHABUA POWER_MP	0.96	0.05
AKSP_ANTP	0.96	0.05
AZURE_ANTP	0.95	0.04
ABSP_ANTP	0.90	0.04
NEP	0.88	0.04
ARS_PVGD	0.88	0.04
DHARIWAL POWER	0.82	0.04
KREDL_PVGD	0.70	0.03
MTPS II	0.68	0.03
PARE HEP	0.64	0.03
COASTGEN	0.62	0.03
DAMAN AND DIU	0.61	0.03
LANCO BUDHIL	0.57	0.03
ADHUNIK POWER LTD	0.56	0.03
BALCO	0.48	0.02
LOKTAK	0.44	0.02
HVDC ALPD	0.41	0.02
RANGIT HEP	0.40	0.02
RGPPL (DABHOL)	0.33	0.02
BHADRAVATHI HVDC	0.32	0.02
HVDC RAIGARH	0.30	0.01
SHREE CEMENT	0.29	0.01
IL&FS	0.25	0.01
VINDHYACHAL HVDC	0.24	0.01
DOYANG HEP	0.23	0.011
NETCL VALLUR	0.17	0.008
HVDC PUS	0.16	0.007
NFF	0.11	0.005
DCPP	0.004	0.0002
<b>Total</b>	<b>2114.42</b>	<b>100.00</b>
<b>Volume Exported by top 5 Regional Entities</b>	<b>517.44</b>	<b>24.47</b>

**Table-17: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM,  
JUNE 2020**

<b>Name of the Entity</b>	<b>Volume of Over drawal (Mus)</b>	<b>% of Volume</b>
TALA HEP	171.98	8.41
RAJASTHAN	127.45	6.23
-UTTAR PRADESH	86.09	4.21
WEST BENGAL	78.72	3.85
KARNATAKA	61.92	3.03
TELANGANA	61.67	3.02
HARYANA	60.87	2.98
NTPC STATIONS-WR	59.93	2.93
MAHARASHTRA	58.79	2.87
NTPC STATIONS-ER	58.29	2.85
GUJARAT	52.12	2.55
BIHAR	51.99	2.54
NTPC STATIONS-NR	50.81	2.48
ANDHRA PRADESH	49.47	2.42
TAMIL NADU	43.84	2.14
CGPL	43.31	2.12
NTPC STATIONS-SR	38.02	1.86
NLC	35.70	1.75
DVC	33.65	1.65
ASSAM	32.16	1.57
DELHI	32.14	1.57
MP	28.85	1.41
J & K	25.82	1.26
UTTARAKHAND	24.35	1.19
CHHATTISGARH	23.94	1.17
PUNJAB	20.88	1.02
AMPS Hazira	20.28	0.99
RPREL	19.01	0.93
KERALA	18.87	0.92
RGPPL (DABHOL)	17.79	0.87
ODISHA	17.77	0.87
BALCO	17.28	0.85
JHABUA POWER_MP	15.78	0.77
HIMACHAL PRADESH	14.08	0.69
GIWEL_BHUJ	13.62	0.67
NHPC STATIONS	12.41	0.61
NETCL VALLUR	12.36	0.60
ADHUNIK POWER LTD	11.87	0.58
NAPP	11.48	0.56
GIWEL_TCN	11.05	0.54
DAGACHU	10.98	0.54
REGL	10.50	0.51
JHARKHAND	10.43	0.51
MANGDECHU HEP	9.99	0.49
ORANGE_TCN	8.74	0.43
DAMAN AND DIU	8.22	0.40
THERMAL POWERTECH	7.76	0.38
SBG_PVGD	7.62	0.37
ESSAR POWER	7.54	0.37
RAP B	7.45	0.36
DB POWER	7.33	0.36
TRIPURA	7.16	0.35
EMCO	7.16	0.35
BRBCL,NABINAGAR	6.82	0.33
JORETHANG	6.82	0.33
RENEW_BHACHAU	6.77	0.33
BANGLADESH	6.69	0.33



TATA_PVGD	6.62	0.32
OSTRO	6.44	0.32
CHANDIGARH	6.44	0.32
MAHINDRA_RUMS	6.41	0.31
MYTRAH_TCN	6.11	0.30
NPGC	6.10	0.30
FORTUM2_PVGD	6.07	0.30
MB POWER	6.07	0.30
AGEMPL BHUJ	6.06	0.30
RAP C	5.98	0.29
GOA	5.81	0.28
SBG_NPK	5.77	0.28
DADRA & NAGAR HAVELI	5.47	0.27
ARINSUM_RUMS	5.40	0.26
ACME_RUMS	5.03	0.25
INOX_BHUJ	5.00	0.24
NTPC STATIONS-NER	4.82	0.24
IGSTPS	4.80	0.23
NEPAL(NVVN)	4.76	0.23
SASAN UMPP	4.59	0.22
BBMB	4.57	0.22
KAPP 3&4	4.52	0.22
NJPC	4.40	0.22
NTPC_ANTP	4.38	0.21
MAITHON POWER LTD	4.36	0.21
MANIPUR	3.71	0.18
TEESTA STG3	3.67	0.18
ARUNACHAL PRADESH	3.45	0.17
AD HYDRO	3.44	0.17
MEGHALAYA	3.41	0.17
SB_SLR	3.15	0.15
RAIL	3.13	0.15
KARCHAM WANGTOO	3.12	0.15
JINDAL STAGE-II	3.08	0.15
NSPCL	3.03	0.15
IL&FS	3.00	0.15
CLEAN_SLR	2.95	0.14
AVAADA2_PVGD	2.93	0.14
MTPS II	2.90	0.14
ACBIL	2.86	0.14
PARAM_PVGD	2.82	0.14
TASHIDENG HEP	2.78	0.14
NTPL	2.71	0.13
RENEW_SLR_BKN	2.59	0.13
COASTGEN	2.53	0.12
AVAADA1_PVGD	2.48	0.12
SKS POWER	2.43	0.12
TEHRI	2.40	0.12
PONDICHERRY	2.40	0.12
KOTESHWAR	2.37	0.12
SEMBCORP	2.29	0.11
AZURE_PVGD	2.23	0.11
TATA_ANTP	2.18	0.11
BETAM_TCN	2.17	0.11
FORTUM1_PVGD	2.16	0.11
RKM POWER	2.14	0.10
NEEPCO STATIONS	2.09	0.10
JITPL	1.98	0.10
KSK MAHANADI	1.98	0.10
ONGC PALATANA	1.96	0.10
RAMPUR HEP	1.92	0.09

SIKKIM	1.67	0.08
RENEW_PVGD	1.65	0.08
MIZORAM	1.62	0.08
GMR KAMALANGA	1.61	0.08
TEESTA HEP	1.55	0.08
TATA_SLR	1.49	0.07
NEP	1.41	0.07
ADY13_PVGD	1.33	0.07
ACME_SLR	1.33	0.06
KREDL_PVGD	1.31	0.06
ABSP_ANTP	1.27	0.06
ADY10_PVGD	1.26	0.06
ARERJL_SLR	1.25	0.06
AKS_PVGD	1.24	0.06
LANKO_AMK	1.23	0.06
ARS_PVGD	1.23	0.06
JINDAL POWER	1.21	0.06
ADY3_PVGD	1.20	0.06
FRV_NPK	1.19	0.06
AHSP_ANTP	1.18	0.06
YARROW_PVGD	1.17	0.06
CHUZACHEN HEP	1.17	0.06
AKSP_ANTP	1.17	0.06
DGEN MEGA POWER	1.15	0.06
ADY2_PVGD	1.13	0.06
ADY6_PVGD	1.12	0.05
FRV_ANTP	1.11	0.05
ADY1_PVGD	1.09	0.05
AZURE_SLR	1.05	0.05
JAYPEE NIGRIE	1.04	0.05
AZURE_ANTP	0.93	0.05
AZURE34_SLR	0.88	0.04
RANGIT HEP	0.72	0.04
DIKCHU HEP	0.70	0.03
TRN ENERGY	0.62	0.03
DHARIWAL POWER	0.61	0.03
RENEW_SLR	0.60	0.03
KSMPL_SLR	0.58	0.03
LANKO KONDAPALLI	0.58	0.03
NAGALAND	0.55	0.03
MEENAKSHI	0.53	0.03
PARE HEP	0.49	0.02
SIMHAPURI	0.48	0.02
DOYANG HEP	0.30	0.01
SAINJ HEP	0.27	0.01
SHREE CEMENT	0.24	0.01
LOKTAK	0.22	0.01
RANGANADI HEP	0.15	0.01
LANCO BUDHIL	0.12	0.01
HVDC CHAMPA	0.11	0.01
NFF	0.10	0.01
HVDC ALPD	0.05	0.00
DCPP	0.04	0.002
CHUKHA HEP	0.02	0.001
BHADRAVATHI HVDC	0.02	0.001
HVDC PUS	0.00	0.0001
HVDC RAIGARH	0.00	0.0001
KURICHU HEP	0.001	0.00003
<b>TOTAL</b>	<b>2045.14</b>	<b>100.00</b>
<b>Volume Imported by top 5 Regional Entities</b>	<b>526.15</b>	<b>25.73</b>

<b>Table-18: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), JUNE 2020</b>		
<b>S. No.</b>	<b>Name of the Entity</b>	<b>Total volume of net short-term transactions of electricity*</b>
1	PUNJAB	1247.13
2	UTTAR PRADESH	1136.48
3	TELANGANA	945.29
4	MAHARASHTRA	918.76
5	DELHI	785.67
6	ANDHRA PRADESH	701.64
7	HARYANA	438.92
8	GUJARAT	359.81
9	WEST BENGAL	267.72
10	TAMIL NADU	199.03
11	BIHAR	175.39
12	TALA HEP	170.79
13	BANGLADESH	131.97
14	AMPS Hazira	130.03
15	CHHATTISGARH	57.52
16	JHARKHAND	50.10
17	CGPL	39.31
18	DADRA & NAGAR HAVELI	25.84
19	NEPAL(NVVN)	23.83
20	NTPC STATIONS-ER	19.01
21	RGPPL (DABHOL)	17.28
22	NTPC STATIONS-SR	14.69
23	NETCL VALLUR	12.19
24	KERALA	11.73
25	DAMAN AND DIU	9.98
26	NAPP	6.71
27	SBG_PVGD	5.92
28	ARUNACHAL PRADESH	5.36
29	IGSTPS	4.80
30	RAP B	4.73
31	KAPP 3&4	4.52
32	RAP C	3.93
33	BRBCL,NABINAGAR	3.37
34	MANGDECHU HEP	3.12
35	FORTUM2_PVGD	2.67
36	MTPS II	2.21
37	IL&FS	1.96
38	COASTGEN	1.91
39	EMCO	1.83
40	NTPC_ANTP	1.74
41	NTPC STATIONS-NER	1.60
42	SBG_NPK	1.38
43	SB_SLR	1.31
44	RKM POWER	0.77
45	RENEW_PVGD	0.67
46	NTPL	0.64
47	KREDL_PVGD	0.62
48	LANKO KONDAPALLI	0.58
49	NEP	0.53
50	MEENAKSHI	0.53
51	NPGC	0.50
52	SIMHAPURI	0.48
53	TATA_ANTP	0.47
54	ABSP_ANTP	0.37
55	ARS_PVGD	0.35
56	RANGIT HEP	0.32
57	BALCO	0.31
58	ASSAM	0.23

59	AZURE_PVGD	0.22
60	AHSP_ANTP	0.21
61	AKSP_ANTP	0.21
62	AKS_PVGD	0.21
63	ADY13_PVGD	0.19
64	NSPCL	0.16
65	ACME_RUMS	0.13
66	GIWEL_TCN	0.11
67	YARROW_PVGD	0.10
68	DOYANG HEP	0.07
69	AVAADA2_PVGD	0.06
70	FRV_ANTP	0.06
71	ADY10_PVGD	0.06
72	DCPP	0.03
73	FRV_NPK	0.03
74	PARAM_PVGD	0.01
75	NFF	-0.01
76	AZURE_ANTP	-0.02
77	SHREE CEMENT	-0.06
78	MAHINDRA_RUMS	-0.07
79	ARINSUM_RUMS	-0.09
80	ADY3_PVGD	-0.14
81	HVDC PUS	-0.15
82	PARE HEP	-0.16
83	RAIL	-0.19
84	LOKTAK	-0.22
85	VINDHYACHAL HVDC	-0.24
86	ADY1_PVGD	-0.26
87	BHADRAVATHI HVDC	-0.30
88	HVDC RAIGARH	-0.30
89	DHARIWAL POWER	-0.30
90	ADY6_PVGD	-0.30
91	HVDC ALPD	-0.36
92	ADY2_PVGD	-0.36
93	TEHRI	-0.38
94	KOTESHWAR	-0.44
95	RENEW_SLR	-0.62
96	INOX_BHUJ	-0.67
97	FORTUM1_PVGD	-0.73
98	HVDC CHAMPA	-0.88
99	TRN ENERGY	-1.20
100	MYTRAH_TCN	-1.27
101	BETAM_TCN	-1.36
102	TEESTA HEP	-1.39
103	AGEMPL BHUJ	-1.41
104	MAITHON POWER LTD	-1.41
105	AVAADA1_PVGD	-1.46
106	TATA_SLR	-1.60
107	GOA	-1.64
108	ACME_SLR	-1.98
109	RENEW_SLR_BKN	-2.01
110	RENEW_BHACHAU	-2.24
111	AZURE34_SLR	-2.26
112	RAMPUR HEP	-2.55
113	ORANGE_TCN	-2.84
114	RANGANADI HEP	-3.43
115	BARC	-3.45
116	OSTRO	-3.56
117	AZURE_SLR	-3.67
118	ARERJL_SLR	-4.11
119	TATA_PVGD	-4.92
120	GIWEL_BHUJ	-5.23
121	THERMAL POWERTECH	-5.47
122	MIZORAM	-5.58

123	GMR KAMALANGA	-5.63
124	PONDICHERRY	-5.68
125	LANCO BUDHIL	-5.72
126	CLEAN_SLR	-5.73
127	NAGALAND	-7.29
128	TRIPURA	-7.29
129	NJPC	-7.43
130	NTPC STATIONS-NR	-9.85
131	LANKO_AMK	-10.01
132	KSMPL_SLR	-10.81
133	BBMB	-13.10
134	CHANDIGARH	-19.87
135	MANIPUR	-22.70
136	MARUTI COAL	-29.00
137	DVC	-29.98
138	SPECTRUM	-31.12
139	NEEPCO STATIONS	-31.51
140	SASAN UMPP	-32.60
141	JHABUA POWER_MP	-34.43
142	ACBIL	-35.89
143	SKS POWER	-40.78
144	NTPC STATIONS-WR	-41.20
145	KURICHU HEP	-43.73
146	UTTARAKHAND	-47.82
147	JORETHANG	-54.06
148	DAGACHU	-55.09
149	TASHIDENG HEP	-57.51
150	JINDAL STAGE-II	-57.77
151	KARNATAKA	-60.37
152	KSK MAHANADI	-61.47
153	RAJASTHAN	-65.47
154	SAINJ HEP	-66.72
155	SIKKIM	-68.18
156	JINDAL POWER	-68.56
157	CHUZACHEN HEP	-69.66
158	MB POWER	-70.55
159	ONGC PALATANA	-70.62
160	DIKCHU HEP	-76.15
161	NHPC STATIONS	-88.03
162	ADHUNIK POWER LTD	-90.32
163	KARCHAM WANGTOO	-90.75
164	MEGHALAYA	-95.76
165	NLC	-105.88
166	AD HYDRO	-106.89
167	CHUKHA HEP	-125.38
168	JITPL	-150.47
169	REGL	-207.09
170	DGEN MEGA POWER	-251.90
171	JAYPEE NIGRIE	-281.58
172	DB POWER	-289.78
173	ODISHA	-308.88
174	RPREL	-389.04
175	ESSAR POWER	-399.00
176	SEMBCORP	-530.92
177	MP	-620.53
178	J & K	-699.97
179	TEESTA STG3	-706.41
180	HIMACHAL PRADESH	-968.18
* Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and UI		
(-) indicates sale and (+) indicates purchase		

<b>Table-19: DETAILS OF CONGESTION IN POWER EXCHANGES , JUNE 2020</b>					
	<b>Details of Congestion</b>	<b>Day Ahead Market</b>		<b>Real Time Market</b>	
		<b>IEX</b>	<b>PXIL</b>	<b>IEX</b>	<b>PXIL</b>
A	Unconstrained Cleared Volume (MUs)	4174.34	15.03	515.47	1.86
B	Actual Cleared Volume and hence scheduled (MUs)	4174.34	15.03	515.46	1.86
C	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) *	0.00	0.00	0.004	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
E	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.00%	0.00%	0.001%	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%	0.07%	0.00%
G	Congestion occurrence (%) time block wise				
	0.00 - 6.00 hours	0.00%	0.00%	100.00%	0.00%
	6.00 - 12.00 hours	0.00%	0.00%	0.00%	0.00%
	12.00 - 18.00 hours	0.00%	0.00%	0.00%	0.00%
	18.00 - 24.00 hours	0.00%	0.00%	0.00%	0.00%
<i>*This power would have been scheduled had there been no congestion.</i>					
<i>Source: IEX, PXIL &amp; NLDC</i>					

<b>Table-20: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (DAY-WISE) (MUs), JUNE 2020</b>								
Date	Bilateral		Day Ahead Market <sup>#</sup>		Real Time Market <sup>#</sup>		Deviation Settlement (Over Drawl + Under Generation)	Total Electricity Generation (MU) as given at CEA Website*
	Through Traders and PXs**	Direct	IEX	PXIL	IEX	PXIL		
1-Jun-20	84.84	34.98	163.17	2.91	3.42	0.05	74.18	3127.65
2-Jun-20	84.15	34.56	119.29	2.62	5.32	0.00	73.08	3085.47
3-Jun-20	86.03	34.46	86.28	1.82	9.42	0.00	80.94	3014.44
4-Jun-20	85.83	34.15	101.91	1.52	10.44	0.18	69.05	2966.33
5-Jun-20	85.05	34.28	116.45	1.47	5.12	0.14	71.00	2913.65
6-Jun-20	93.13	34.47	119.67	3.08	9.43	0.40	67.57	2968.32
7-Jun-20	94.18	34.11	123.47	0.00	9.99	0.01	75.69	2944.89
8-Jun-20	95.75	33.04	133.63	0.24	17.73	0.10	66.78	3144.25
9-Jun-20	99.02	33.78	150.24	0.35	22.96	0.09	66.99	3322.62
10-Jun-20	114.42	41.44	162.57	0.26	16.38	0.00	68.33	3413.42
11-Jun-20	112.36	41.40	151.55	0.57	12.22	0.00	66.68	3353.09
12-Jun-20	112.76	41.57	128.66	0.08	21.64	0.00	66.24	3352.56
13-Jun-20	110.60	41.70	143.11	0.05	15.22	0.00	69.32	3332.99
14-Jun-20	108.74	41.36	130.63	0.08	7.27	0.00	69.66	3267.84
15-Jun-20	113.51	47.78	126.16	0.00	13.28	0.00	64.03	3386.04
16-Jun-20	125.28	46.69	130.75	0.00	13.15	0.00	64.06	3408.00
17-Jun-20	125.92	46.85	133.11	0.00	11.70	0.00	65.13	3403.16
18-Jun-20	126.03	47.35	132.74	0.00	14.39	0.00	62.81	3406.82
19-Jun-20	125.96	47.11	128.69	0.00	14.55	0.00	69.02	3383.72
20-Jun-20	125.98	46.23	142.41	0.00	22.60	0.00	70.61	3356.76
21-Jun-20	122.16	43.95	123.59	0.00	18.84	0.00	74.68	3257.52
22-Jun-20	127.40	44.25	139.93	0.00	23.00	0.00	67.12	3368.85
23-Jun-20	127.53	45.14	150.79	0.00	22.20	0.00	65.84	3508.63
24-Jun-20	129.74	44.24	148.74	0.00	32.34	0.00	70.35	3585.18
25-Jun-20	122.66	42.43	163.33	0.00	23.68	0.00	67.30	3574.90
26-Jun-20	126.85	42.33	170.58	0.00	24.67	0.00	67.53	3525.94
27-Jun-20	125.42	42.21	149.92	0.00	26.51	0.00	67.41	3522.47
28-Jun-20	115.29	39.68	173.52	0.00	18.25	0.00	69.16	3430.18
29-Jun-20	125.91	40.02	159.67	0.00	33.64	0.90	77.12	3551.57
30-Jun-20	118.71	40.74	169.77	0.00	36.09	0.00	72.11	3622.50
<b>Total</b>	<b>3351.18</b>	<b>1222.30</b>	<b>4174.34</b>	<b>15.03</b>	<b>515.46</b>	<b>1.86</b>	<b>2079.78</b>	<b>99499.76</b>

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.

<b>Table-21: PRICE OF ELECTRICITY IN DAY AHEAD MARKET AND DEVIATION SETTLEMENT MECHANISM (DAY-WISE)(₹/kWh), JUNE 2020</b>									
<b>Market Segment</b>	<b>Day ahead market of IEX</b>			<b>Day ahead market of PXIL</b>			<b>Under Drawl/Over Drawl from the Grid (DSM)</b>		
<b>Date</b>	<b>Minimum ACP</b>	<b>Maximum ACP</b>	<b>Weighted Average Price*</b>	<b>Minimum ACP</b>	<b>Maximum ACP</b>	<b>Weighted Average Price*</b>	<b>All India Grid</b>		
							<b>Minimum Price</b>	<b>Maximum Price</b>	<b>Average Price**</b>
1-Jun-20	2.10	3.39	2.70	2.17	3.50	2.58	0.00	6.34	1.98
2-Jun-20	1.30	3.40	2.30	2.00	2.98	2.51	0.00	8.00	2.56
3-Jun-20	1.10	2.43	1.68	2.00	2.90	2.61	0.00	7.21	2.24
4-Jun-20	1.09	2.94	1.95	1.80	2.45	2.31	0.00	6.10	2.40
5-Jun-20	1.66	3.05	2.24	1.80	2.50	2.24	0.00	6.55	1.62
6-Jun-20	1.13	3.00	2.11	1.88	3.05	2.65	0.00	6.14	2.22
7-Jun-20	1.39	2.84	2.16	-	-	-	0.00	5.06	1.59
8-Jun-20	1.66	3.25	2.30	1.85	2.65	2.45	0.00	8.00	3.45
9-Jun-20	1.80	3.45	2.48	2.50	2.60	2.58	0.00	8.00	3.54
10-Jun-20	1.30	3.50	2.62	2.59	2.75	2.64	0.00	6.31	2.87
11-Jun-20	1.09	3.79	2.58	2.49	3.25	2.58	0.00	5.26	2.07
12-Jun-20	1.80	3.12	2.39	2.80	2.80	2.80	0.00	7.30	2.35
13-Jun-20	2.00	3.60	2.46	2.75	2.75	2.75	0.00	5.56	2.04
14-Jun-20	1.31	2.83	2.28	2.93	2.93	2.93	0.00	4.41	1.35
15-Jun-20	1.72	3.34	2.28	-	-	-	0.00	6.92	2.19
16-Jun-20	2.00	2.84	2.35	-	-	-	0.00	5.87	2.46
17-Jun-20	2.01	3.00	2.31	-	-	-	0.00	6.93	2.45
18-Jun-20	1.92	3.07	2.35	-	-	-	0.00	5.52	2.02
19-Jun-20	1.43	3.20	2.28	-	-	-	0.00	8.00	2.05
20-Jun-20	1.51	3.07	2.35	-	-	-	0.00	6.58	2.09
21-Jun-20	1.00	2.70	1.87	-	-	-	0.00	6.07	1.15
22-Jun-20	1.60	3.10	2.33	-	-	-	0.00	7.29	3.05
23-Jun-20	2.00	3.70	2.60	-	-	-	1.03	6.98	3.67
24-Jun-20	1.80	3.61	2.50	-	-	-	0.00	7.31	3.53
25-Jun-20	2.05	4.09	2.63	-	-	-	0.00	7.66	2.44
26-Jun-20	1.90	3.81	2.75	-	-	-	0.00	6.36	2.55
27-Jun-20	1.75	3.50	2.55	-	-	-	0.00	6.64	2.43
28-Jun-20	2.07	3.45	2.55	-	-	-	0.00	6.98	2.22
29-Jun-20	2.03	3.80	2.66	-	-	-	0.00	8.00	3.18
30-Jun-20	2.24	4.11	2.76	-	-	-	0.00	7.67	3.16
	<b>1.00<sup>#</sup></b>	<b>4.11<sup>#</sup></b>	<b>2.41</b>	<b>1.80<sup>#</sup></b>	<b>3.50<sup>#</sup></b>	<b>2.53</b>	<b>0.00<sup>#</sup></b>	<b>8.00<sup>#</sup></b>	<b>2.43</b>

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-22: PRICE OF ELECTRICITY IN REAL TIME MARKET (DAY-WISE) (₹/kWh), JUNE 2020**

Market Segment	Real Time market of IEX			Real Time market of PXIL		
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum ACP	Maximum ACP	Weighted Average Price*
1-Jun-20	0.10	2.52	1.80	2.00	4.00	2.67
2-Jun-20	0.02	2.58	2.20	-	-	-
3-Jun-20	0.25	2.50	1.92	-	-	-
4-Jun-20	0.10	3.00	2.35	1.88	3.10	2.85
5-Jun-20	1.55	2.80	2.21	2.00	3.20	2.84
6-Jun-20	0.75	2.85	2.33	1.88	2.40	2.25
7-Jun-20	1.00	3.00	2.22	2.80	2.80	2.80
8-Jun-20	1.75	4.30	2.66	2.50	2.80	2.58
9-Jun-20	2.14	4.00	2.97	2.60	2.60	2.60
10-Jun-20	1.00	4.00	2.68	-	-	-
11-Jun-20	1.00	2.70	2.16	-	-	-
12-Jun-20	1.50	3.15	2.35	-	-	-
13-Jun-20	1.50	3.00	2.06	-	-	-
14-Jun-20	0.10	2.60	1.72	-	-	-
15-Jun-20	1.00	3.00	2.05	-	-	-
16-Jun-20	1.40	2.70	2.08	-	-	-
17-Jun-20	1.20	2.42	1.94	-	-	-
18-Jun-20	1.50	3.00	2.01	-	-	-
19-Jun-20	1.50	2.98	2.17	-	-	-
20-Jun-20	1.50	3.04	2.27	-	-	-
21-Jun-20	0.20	2.60	1.83	-	-	-
22-Jun-20	1.50	3.54	2.53	-	-	-
23-Jun-20	2.01	3.62	2.59	-	-	-
24-Jun-20	2.42	3.91	2.73	-	-	-
25-Jun-20	2.00	3.65	2.73	-	-	-
26-Jun-20	1.95	3.41	2.62	-	-	-
27-Jun-20	1.50	3.20	2.39	-	-	-
28-Jun-20	0.80	3.58	2.22	-	-	-
29-Jun-20	0.80	4.50	3.00	2.51	3.01	2.68
30-Jun-20	2.35	5.00	2.99	-	-	-
	<b>0.02<sup>#</sup></b>	<b>5.00<sup>#</sup></b>	<b>2.46</b>	<b>1.88<sup>#</sup></b>	<b>4.00<sup>#</sup></b>	<b>2.61</b>

Source: IEX and PXIL

\* 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-23: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY\*-WISE) (MUs), JUNE 2020**

Name of the Entity	Through Bilateral			Through Power Exchange (DAM + RTM)			Through DSM with Regional Grid			Total Net***
	Sale	Purchase	Net**	Sale	Purchase	Net**	Import (Over Draw)	Export (Under Draw)	Net**	
PUNJAB	0.00	847.32	847.32	0.00	439.69	439.69	20.88	60.76	-39.88	1247.13
HARYANA	0.00	239.13	239.13	1.92	188.71	186.80	60.87	47.88	12.99	438.92
RAJASTHAN	262.28	18.38	-243.90	18.42	149.10	130.68	127.45	79.69	47.75	-65.47
DELHI	0.00	814.72	814.72	106.31	74.05	-32.26	32.14	28.93	3.21	785.67
UP	0.35	1156.89	1156.54	141.57	102.69	-38.88	86.09	67.27	18.81	1136.48
UTTARAKHAND	85.77	1.68	-84.09	28.70	57.95	29.26	24.35	17.35	7.00	-47.82
HIMACHAL P	712.55	0.00	-712.55	273.73	28.35	-245.37	14.08	24.34	-10.26	-968.18
J & K	52.54	0.00	-52.54	617.69	0.00	-617.69	25.82	55.56	-29.74	-699.97
CHANDIGARH	0.00	0.00	0.00	22.51	2.10	-20.42	6.44	5.89	0.55	-19.87
MP	481.26	61.38	-419.88	167.06	33.45	-133.61	28.85	95.90	-67.05	-620.53
MAHARASHTRA	5.67	6.88	1.21	18.14	951.00	932.86	58.79	74.10	-15.31	918.76
GUJARAT	46.90	2.71	-44.19	68.88	510.08	441.20	52.12	89.32	-37.20	359.81
CHHATTISGARH	5.76	107.25	101.49	70.39	31.79	-38.60	23.94	29.30	-5.37	57.52
GOA	2.70	42.21	39.51	40.62	1.47	-39.15	5.81	7.80	-1.99	-1.64
DAMAN AND DIU	0.00	0.00	0.00	0.00	2.37	2.37	8.22	0.61	7.61	9.98
DADRA & NAGAR H	0.00	0.02	0.02	0.10	23.41	23.31	5.47	2.96	2.51	25.84
ANDHRA P	17.19	324.84	307.65	8.08	410.40	402.32	49.47	57.80	-8.33	701.64
KARNATAKA	90.54	1.48	-89.06	54.85	82.52	27.67	61.92	60.91	1.01	-60.37
KERALA	38.15	0.00	-38.15	9.58	49.23	39.64	18.87	8.63	10.23	11.73
TAMIL NADU	205.73	254.14	48.41	10.44	223.60	213.16	43.84	106.38	-62.54	199.03
PONDICHERRY	0.00	0.00	0.00	0.00	0.00	0.00	2.40	8.08	-5.68	-5.68
TELANGANA	6.12	12.18	6.06	5.25	932.83	927.58	61.67	50.02	11.65	945.29
WEST BENGAL	1.60	161.15	159.55	7.62	47.73	40.11	78.72	10.66	68.06	267.72
ODISHA	6.36	15.33	8.97	353.97	53.04	-300.92	17.77	34.70	-16.93	-308.88
BIHAR	0.02	142.37	142.35	51.96	84.75	32.79	51.99	51.75	0.25	175.39
JHARKHAND	0.00	101.58	101.58	34.02	2.81	-31.21	10.43	30.70	-20.27	50.10
SIKKIM	16.36	0.00	-16.36	50.56	0.14	-50.43	1.67	3.07	-1.39	-68.18
DVC	37.43	0.00	-37.43	4.29	0.08	-4.21	33.65	22.00	11.65	-29.98
ARUNACHAL P	16.56	0.00	-16.56	15.70	41.12	25.42	3.45	6.95	-3.50	5.36
ASSAM	0.00	108.37	108.37	160.50	27.48	-133.02	32.16	7.27	24.89	0.23
MANIPUR	34.09	0.00	-34.09	3.93	13.75	9.81	3.71	2.14	1.57	-22.70
MEGHALAYA	53.09	0.00	-53.09	39.73	0.91	-38.82	3.41	7.26	-3.85	-95.76
MIZORAM	1.56	0.00	-1.56	2.09	0.21	-1.88	1.62	3.76	-2.14	-5.58
NAGALAND	11.00	0.00	-11.00	0.57	7.64	7.06	0.55	3.91	-3.36	-7.29
TRIPURA	0.00	0.00	0.00	4.56	1.56	-3.00	7.16	11.46	-4.30	-7.29
NTPC STNS-NR	0.00	0.00	0.00	13.66	0.00	-13.66	50.81	47.01	3.81	-9.85
NHPC STNS	0.00	0.00	0.00	0.00	0.00	0.00	12.41	100.45	-88.03	-88.03
NFF	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.11	-0.01	-0.01
RAIL	0.00	0.00	0.00	0.00	0.00	0.00	3.13	3.32	-0.19	-0.19
NEP	0.00	0.00	0.00	0.00	0.00	0.00	1.41	0.88	0.53	0.53
NAPP	0.00	0.00	0.00	0.00	0.00	0.00	11.48	4.77	6.71	6.71
RAP B	0.00	0.00	0.00	0.00	0.00	0.00	7.45	2.72	4.73	4.73
NJPC	0.00	0.00	0.00	1.81	0.00	-1.81	4.40	10.01	-5.62	-7.43
TEHRI	0.00	0.00	0.00	0.00	0.00	0.00	2.40	2.78	-0.38	-0.38
BBMB	0.00	0.00	0.00	0.00	0.00	0.00	4.57	17.67	-13.10	-13.10
RAP C	0.00	0.00	0.00	0.00	0.00	0.00	5.98	2.04	3.93	3.93
AD HYDRO	32.49	0.00	-32.49	74.66	0.00	-74.66	3.44	3.19	0.26	-106.89
IGSTPS	0.00	0.00	0.00	0.00	0.00	0.00	4.80	0.00	4.80	4.80
KOTESHWAR	0.00	0.00	0.00	0.00	0.00	0.00	2.37	2.82	-0.44	-0.44
KARCHAM WANGT	35.32	0.00	-35.32	46.59	0.00	-46.59	3.12	11.96	-8.85	-90.75
SHREE CEMENT	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.29	-0.06	-0.06
LANCO BUDHIL	0.00	0.00	0.00	5.28	0.00	-5.28	0.12	0.57	-0.45	-5.72
RAMPUR HEP	0.00	0.00	0.00	1.05	0.00	-1.05	1.92	3.41	-1.49	-2.55
SAINJ HEP	7.50	0.00	-7.50	56.81	0.00	-56.81	0.27	2.68	-2.41	-66.72
RENEW_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.60	1.22	-0.62	-0.62
AZURE_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.05	4.72	-3.67	-3.67
SB_SLR	0.00	0.00	0.00	0.00	0.00	0.00	3.15	1.84	1.31	1.31

ACME_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.33	3.31	-1.98	-1.98
AZURE34_SLR	0.00	0.00	0.00	0.00	0.00	0.00	0.88	3.15	-2.26	-2.26
TATA_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.49	3.10	-1.60	-1.60
RENEW_SLR_BKN	0.00	0.00	0.00	0.00	0.00	0.00	2.59	4.60	-2.01	-2.01
CLEAN_SLR	0.00	0.00	0.00	0.00	0.00	0.00	2.95	8.68	-5.73	-5.73
ARERJL_SLR	0.00	0.00	0.00	0.00	0.00	0.00	1.25	5.36	-4.11	-4.11
KSMPL_SLR	0.00	0.00	0.00	10.42	0.00	-10.42	0.58	0.98	-0.39	-10.81
NTPC STNS-WR	0.00	0.00	0.00	26.35	0.00	-26.35	59.93	74.78	-14.85	-41.20
BHADRAVATHI HV	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.32	-0.30	-0.30
VINDHYACHAL HV	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	-0.24	-0.24
JINDAL POWER	0.00	0.00	0.00	64.31	0.00	-64.31	1.21	5.46	-4.25	-68.56
LANKO_AMK	8.38	0.00	-8.38	0.00	0.00	0.00	1.23	2.86	-1.63	-10.01
NSPCL	0.00	0.00	0.00	0.83	0.00	-0.83	3.03	2.04	0.98	0.16
ACBIL	0.73	0.00	-0.73	35.13	0.00	-35.13	2.86	2.88	-0.02	-35.89
BALCO	14.82	0.00	-14.82	1.67	0.00	-1.67	17.28	0.48	16.80	0.31
RGPPL (DABHOL)	0.00	0.00	0.00	0.17	0.00	-0.17	17.79	0.33	17.46	17.28
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	43.31	4.00	39.31	39.31
DCPP	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.03	0.03
EMCO	0.00	0.00	0.00	0.10	0.00	-0.10	7.16	5.23	1.93	1.83
KSK MAHANADI	57.43	0.00	-57.43	0.00	0.00	0.00	1.98	6.02	-4.04	-61.47
ESSAR POWER	357.42	0.00	-357.42	43.39	0.00	-43.39	7.54	5.74	1.80	-399.00
JINDAL STAGE-II	0.00	0.00	0.00	50.46	0.00	-50.46	3.08	10.40	-7.32	-57.77
DB POWER	272.57	0.00	-272.57	22.96	0.00	-22.96	7.33	1.57	5.76	-289.78
DHARIWAL POWER	0.00	0.00	0.00	0.09	0.00	-0.09	0.61	0.82	-0.21	-0.30
JAYPEE NIGRIE	191.61	0.00	-191.61	86.04	0.00	-86.04	1.04	4.96	-3.92	-281.58
DGEN MEGA POWER	193.04	0.00	-193.04	56.74	0.00	-56.74	1.15	3.27	-2.11	-251.90
MB POWER	0.00	0.00	0.00	70.23	0.00	-70.23	6.07	6.38	-0.32	-70.55
MARUTI COAL	0.00	0.00	0.00	29.00	0.00	-29.00	0.00	0.00	0.00	-29.00
SPECTRUM	0.00	0.00	0.00	31.12	0.00	-31.12	0.00	0.00	0.00	-31.12
JHABUA POWER_M	0.14	0.00	-0.14	49.11	0.00	-49.11	15.78	0.96	14.82	-34.43
SASAN UMPP	0.00	0.00	0.00	0.00	0.00	0.00	4.59	37.20	-32.60	-32.60
TRN ENERGY	0.00	0.00	0.00	0.00	0.00	0.00	0.62	1.82	-1.20	-1.20
RKM POWER	0.00	0.00	0.00	0.00	0.00	0.00	2.14	1.38	0.77	0.77
SKS POWER	29.73	0.00	-29.73	11.71	0.00	-11.71	2.43	1.77	0.66	-40.78
BARC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.45	-3.45	-3.45
KAPP 3&4	0.00	0.00	0.00	0.00	0.00	0.00	4.52	0.00	4.52	4.52
HVDC CHAMPA	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.99	-0.88	-0.88
MAHINDRA_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	6.41	6.48	-0.07	-0.07
ARINSUM_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	5.40	5.49	-0.09	-0.09
OSTRO	0.00	0.00	0.00	0.00	0.00	0.00	6.44	10.00	-3.56	-3.56
ACME_RUMS	0.00	0.00	0.00	0.00	0.00	0.00	5.03	4.90	0.13	0.13
RENEW_BHACHAU	0.00	0.00	0.00	0.00	0.00	0.00	6.77	9.01	-2.24	-2.24
GIWEL_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	13.62	18.85	-5.23	-5.23
INOX_BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	5.00	5.67	-0.67	-0.67
AGEMPL BHUJ	0.00	0.00	0.00	0.00	0.00	0.00	6.06	7.46	-1.41	-1.41
REGL	138.53	0.00	-138.53	76.71	0.13	-76.59	10.50	2.47	8.03	-207.09
RPREL	220.83	0.00	-220.83	182.34	0.18	-182.16	19.01	5.06	13.95	-389.04
AMPS Hazira	0.00	0.00	0.00	0.00	129.66	129.66	20.28	19.92	0.37	130.03
HVDC RAIGARH	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	-0.30	-0.30
NTPC STNS-SR	0.00	0.00	0.00	5.67	0.00	-5.67	38.02	17.65	20.36	14.69
LANKO KONDAPAI	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.58	0.58
SIMHAPURI	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.48	0.48
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	0.53	0.00	0.53	0.53
COASTGEN	0.00	0.00	0.00	0.00	0.00	0.00	2.53	0.62	1.91	1.91
THERMAL POWER	0.00	0.00	0.00	11.92	0.00	-11.92	7.76	1.30	6.46	-5.47
IL&FS	0.00	0.00	0.00	0.78	0.00	-0.78	3.00	0.25	2.75	1.96
NLC	0.00	0.00	0.00	116.96	0.00	-116.96	35.70	24.63	11.08	-105.88
SEMBCORP	393.92	0.00	-393.92	134.80	0.00	-134.80	2.29	4.49	-2.20	-530.92
NETCL VALLUR	0.00	0.00	0.00	0.00	0.00	0.00	12.36	0.17	12.19	12.19
NTPL	0.00	0.00	0.00	0.00	0.00	0.00	2.71	2.07	0.64	0.64
AHSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.18	0.97	0.21	0.21
AKSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.17	0.96	0.21	0.21
ABSP_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.27	0.90	0.365	0.365
AZURE_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	0.93	0.95	-0.02	-0.02

TATA_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	2.18	1.71	0.47	0.47
FRV_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	1.11	1.05	0.06	0.06
NTPC_ANTP	0.00	0.00	0.00	0.00	0.00	0.00	4.38	2.65	1.74	1.74
GIWEL_TCN	0.00	0.00	0.00	0.00	0.00	0.00	11.05	10.94	0.11	0.11
MYTRAH_TCN	0.00	0.00	0.00	0.00	0.00	0.00	6.11	7.38	-1.27	-1.27
FRV_NPK	0.00	0.00	0.00	0.00	0.00	0.00	1.19	1.17	0.03	0.03
ORANGE_TCN	0.00	0.00	0.00	0.00	0.00	0.00	8.74	11.59	-2.84	-2.84
BETAM_TCN	0.00	0.00	0.00	0.00	0.00	0.00	2.17	3.53	-1.36	-1.36
SBG_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	7.62	1.69	5.92	5.92
SBG_NPK	0.00	0.00	0.00	0.00	0.00	0.00	5.77	4.39	1.38	1.38
FORTUM1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.16	2.89	-0.73	-0.73
PARAM_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.82	2.81	0.01	0.01
YARROW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.17	1.08	0.10	0.10
TATA_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	6.62	11.54	-4.92	-4.92
RENEW_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.65	0.98	0.67	0.67
AKS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.24	1.03	0.21	0.21
ARS_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.23	0.88	0.35	0.35
AVAADA1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.48	3.95	-1.46	-1.46
ADY1_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.09	1.34	-0.26	-0.26
ADY2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.13	1.49	-0.36	-0.36
ADY13_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.33	1.14	0.19	0.19
ADY3_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.20	1.34	-0.14	-0.14
ADY6_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.12	1.43	-0.30	-0.30
ADY10_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.26	1.21	0.06	0.06
AZURE_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.23	2.00	0.22	0.22
FORTUM2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	6.07	3.40	2.67	2.67
AVAADA2_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	2.93	2.87	0.06	0.06
KREDL_PVGD	0.00	0.00	0.00	0.00	0.00	0.00	1.31	0.70	0.62	0.62
NTPC STNS-ER	0.02	0.00	-0.02	18.60	0.00	-18.60	58.29	20.65	37.64	19.01
MAITHON POWER	0.00	0.00	0.00	0.00	0.00	0.00	4.36	5.77	-1.41	-1.41
NPGC	0.00	0.00	0.00	3.36	0.00	-3.36	6.10	2.23	3.87	0.50
ADHUNIK POWER	101.58	0.00	-101.58	0.05	0.00	-0.05	11.87	0.56	11.31	-90.32
CHUZACHEN HEP	59.74	0.00	-59.74	9.46	0.00	-9.46	1.17	1.62	-0.45	-69.66
RANGIT HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.40	0.32	0.32
GMR KAMALANGA	4.56	0.00	-4.56	1.58	0.00	-1.58	1.61	1.10	0.51	-5.63
JITPL	114.24	0.00	-114.24	37.10	0.00	-37.10	1.98	1.12	0.86	-150.47
TEESTA HEP	0.00	0.00	0.00	0.00	0.00	0.00	1.55	2.93	-1.39	-1.39
DAGACHU	64.41	0.00	-64.41	0.00	0.00	0.00	10.98	1.66	9.32	-55.09
JORETHANG	0.00	0.00	0.00	59.79	0.71	-59.08	6.82	1.79	5.03	-54.06
NEPAL(NVVN)	0.00	24.31	24.31	0.00	0.00	0.00	4.76	5.24	-0.48	23.83
BANGLADESH	0.00	129.16	129.16	0.00	0.00	0.00	6.69	3.88	2.81	131.97
HVDC PUS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	-0.15	-0.15
TEESTA STG3	0.15	0.00	-0.15	704.32	0.00	-704.32	3.67	5.61	-1.94	-706.41
DIKCHU HEP	0.00	0.00	0.00	72.00	0.00	-72.00	0.70	4.85	-4.15	-76.15
HVDC ALPD	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.41	-0.36	-0.36
TASHIDENG HEP	0.00	0.00	0.00	57.28	0.00	-57.28	2.78	3.01	-0.22	-57.51
BRBCL,NABINAGA	0.00	0.00	0.00	1.16	0.00	-1.16	6.82	2.29	4.53	3.37
MTPS II	0.00	0.00	0.00	0.00	0.00	0.00	2.90	0.68	2.21	2.21
TALA HEP	0.00	0.00	0.00	0.00	0.00	0.00	171.98	1.19	170.79	170.79
CHUKHA HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.02	125.39	-125.38	-125.38
KURICHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	43.73	-43.73	-43.73
MANGDECHU HEP	0.00	0.00	0.00	0.00	0.00	0.00	9.99	6.86	3.12	3.12
NTPC STNS-NER	0.28	0.00	-0.28	0.14	0.00	-0.14	4.82	2.80	2.02	1.60
NEEPCO STNS	0.00	0.00	0.00	24.04	0.00	-24.04	2.09	9.56	-7.48	-31.51
RANGANADI HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.15	3.58	-3.43	-3.43
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.23	0.07	0.07
ONGC PALATANA	66.20	0.00	-66.20	5.19	0.00	-5.19	1.96	1.19	0.77	-70.62
LOKTAK	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.44	-0.22	-0.22
PARE HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.64	-0.16	-0.16

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

<b>Table-24 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, JUNE 2020</b>					
<b>Sr. No.</b>	<b>Details of REC Transactions</b>	<b>IEX</b>		<b>PXIL</b>	
		<b>Solar</b>	<b>Non-Solar</b>	<b>Solar</b>	<b>Non Solar</b>
A	Volume of Buy Bid	66815	162873	26012	96685
B	Volume of Sell Bid	135169	713238	38692	410653
C	Ratio of Buy Bid to Sell Bid Volume	0.49	0.23	0.67	0.24
D	Market Clearing Volume (MWh)	66815	162873	22683	96685
E	Weighted average Market Clearing Price (₹/MWh)	1000	1000	1010	1000

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

<b>Forbearance and Floor Price w.e.f 1<sup>st</sup> April 2017</b>		
Type of REC	Floor Price (₹/MWh)	Forbearance Price (₹/MWh)
<i>Solar</i>	<i>1000.00</i>	<i>2400.00</i>
<i>Non-Solar</i>	<i>1000.00</i>	<i>3000.00</i>