Monthly Report on Short-term Transactions of Electricity in India

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Abbreviations

AbbreviationExpanded VersionACBILACB (India) LimitedACPArea Clearing PriceACVArea Clearing Volume

Adani HVDC Adani Power Limited (High Voltage Direct Line Current Line)

AD HYDRO AD Hydro Power Limited

BALCO Bharat Aluminum Company Limited

CEA Central Electricity Authority

CERC Central Electricity Regulatory Commission

CGPL Coastal Gujarat Power Limited

CHUZACHEN HEP Chuzachen Hydro Electric Power Project

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
DHARIWAL POWER
DGEN Mega Power Project
Dhariwal Power Station

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

GMR CHHATTISGARH
GMR KAMALANGA
GMR Kamalanga Energy Ltd.
IEX
Indian Energy Exchange Limited

ILF&S Infrastructure Leasing & Financial Services Limited

J&K Jammu & Kashmir

JAYPEE NIGRIE Jaypee Nigrie Super Thermal Power Project

JINDAL POWER

JINDAL STAGE-II

Jindal Power Limited

Jindal Power Ltd Stage II

Jindal India Thermal Power

JITPL Jindal India Thermal Power Ltd.

JORETHANG Jorethang Loop Hydroelectric Power Project KARCHAM WANGTOO Jaypee Karcham Hydro Corporation Limited

KORBA WEST POWER Korba West Power Company Limited

KSK MAHANADI KSK Mahanadi Power Ltd

LANKO BUDHIL LancoBudhil Hydro Power Private Limited
LANKOAMK LancoAmarkantak Power Private Limited
LANKOKONDAPALLY LancoKondapally Power Private Limited

LOKTAK Loktak Power Project
MALANA Malana Hydroelectric Plant

Maruti Coal Maruti Clean Coal and Power Limited

MB POWER MB Power Ltd

MEENAKSHI Meenakshi Energy Private Limited

MP Madhya Pradesh MUs Million Units NEEPCO North Eastern Electric Power Corporation Limited

NHPC STATIONS

National Hydro Electric Power Corporation Ltd. Stations

NLC Neyveli Lignite Corporation Limited

NTPC STATIONS National Thermal Power Corporation Ltd. Stations

NJPC Nathpa Jhakri Hydroelectric Power Station

NLDC National Load Despatch Centre

NSPCL NTPC - SAIL Power Company Private Limited

NVVN NTPC Vidyut Vyapar Nigam Limited

NTECL Vallur NTPC Tamilnadu Energy Company Limited Vallur

ONGC Platana ONGC Tripura Power Company

OTC Over The Counter PX Power Exchange

PXIL Power Exchange India Limited
RANGIT HEP Rangit Hydro electric power project
REC Renewable Energy Certificate

RGPPL Ratnagiri Gas and Power Private Limited

RLDC Regional Load Despatch Centre

RTC Round The Clock

Sasan UMPP Sasan Ultra Mega Power Project SEMBCORP Sembcorp Gayatri Power Ltd

SHREE CEMENT Shree Cement Limited

SIMHAPURI Simhapuri Energy Private Limited

SKS Power Generation Chhatisgarh Limited

SPECTRUM Spectrum Power Generation Ltd TEESTA STG3 TEESTA STG3 Hydro Power Project

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 January 2008. Here, "short-term transactions of electricity" refers to the contracts of less than one year period, for electricity transacted (inter-State & intra-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 analyse bilateral contracts executed by traders; (v) to provide information on volume and price of Renewable Energy Certificates (RECs) transacted through power exchanges; and (vi) to disclose/disseminate all relevant market information. The details of the report for the month of January, 2018 are as under:

I: Volume of Short-term Transactions of Electricity

During January 2018, total electricity generation excluding generation from renewable and captive power plants in India was 101202.97 MUs (Table-1).

Of the total electricity generation, 9689.53 MUs (9.57%) was transacted through short-term, comprising of 4611.68 MUs (4.56%) through bilateral (through traders and termahead contracts on power exchanges and directly between distribution companies), followed by 3375.23 MUs (3.34%) through day ahead collective transactions on power exchanges (IEX and PXIL) and 1702.62 MUs (1.68%) through DSM (Table-1 & Figure-2). There were no collective transactions in PXIL.

Of the total short-term transactions, bilateral constitutes 47.59% (30.22% through traders and term-ahead contracts on power exchanges and 17.38% directly between distribution companies) followed by 34.83% through day ahead collective transactions on power exchanges and 17.57% through DSM (Table-1 & Figure-1). Daily volume of short-term transactions is shown in Table-17 & 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-4. The volume of electricity transacted by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges. There were 36 trading licensees as on January, 2018. In January, 2018, 22 trading licensees were engaged in short term trading. Top 5 trading licensees had a share of 77.44% in the total volume traded by all the licensees. These are PTC India Ltd., NTPC Vidyut Vyapar Nigam Ltd., Mittal Processor (P) Ltd., Manikaran Power Ltd. and Arunachal Pradesh Power Corp. 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 0.2025 for the month of January, 2018, which indicates moderate concentration of market power (Table-2).

The volume of electricity transacted through IEX in the day ahead market was 3375.23 MUs. The volume of total buy bids and sell bids was 4450.27 MUs and 6642.14 MUs respectively in IEX while the same was 6.98 MUs and 53.50 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 51.58 MUs and 35.39 MUs respectively (Table-6 & Table-7).

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 ₹2.19/kWh, ₹6.40/kWh and ₹3.92/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 ₹4.18/kWh, ₹0.00/kWh, and ₹3.38/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 separately. The minimum, maximum and weighted average prices were ₹1.50/kWh, ₹5.85/kWh and ₹3.44/kWh respectively in IEX. No trade happened in PXIL. (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹4.19/kWh and ₹3.75/kWh respectively (Table-6 and Table-7).

(iii) *Price of electricity transacted through DSM*: The average deviation settlement price was ₹2.12/kWh. The minimum and maximum deviation settlement prices were ₹0.00/kWh and ₹7.20/kWh respectively (Table-8).

The prices of electricity transacted through trading licensees, power exchanges and DSM and their comparison is shown in Table-18, Figure-5 & 6.

III: Volume of Short-term Transactions of Electricity (Regional Entity¹-Wise)

Of the total bilateral transactions, top 5 regional entities sold 66.04% of the volume, and these were Punjab, Haryana, Delhi, Sembcorp Gayatri Power Ltd. and West Bengal. Top 5 regional entities purchased 52.15% of the volume, and these were Jammu & Kashmir, Tamil Nadu, Madhya Pradesh, Himachal Pradesh and Karnataka (Table-9 & 10).

Of the total power exchange transactions, top 5 regional entities sold 28.93% of the volume, and these were Diligent Power Pvt. Ltd., Damodar Valley Corporation, Madhya Pradesh, Telangana and TEESTA STG3 Hydro Power Project. Top 5 regional entities purchased 54.40% of the volume, and these were Gujarat, Maharashtra, Bihar, Karnataka and Rajasthan (Table-11 & 12).

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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.

Of the total DSM transactions, top 5 regional entities underdrew 28.44% of the volume, and these were NTPC Stations (Western region), Telangana, SKS Power, NTPC Stations (Northern region) and Sasan Ultra Mega Power Project (Table-13). Top 5 regional entities overdrew 30.04% of the volume, and these were Rajasthan, Uttar Pradesh, Tamil Nadu, Odisha and Nepal (Table-14).

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-15 & 19. Top 5 electricity selling regional entities were Punjab, Sembcorp Gayatri Power Ltd., Delhi, Haryana and Diligent Power Pvt. Ltd. Top 5 electricity purchasing regional entities were Jammu & Kashmir, Gujarat, Tamil Nadu, Karnataka and Uttarakhand.

IV: Congestion² on Inter-State Transmission Corridor for Day-Ahead 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"³.

In the month of January 2018, congestion occurred only in IEX. The details of congestion are shown in Table-16. The volume of electricity that could not be cleared due to congestion and could not be transacted through power exchanges is the difference between

³" 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"

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

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.

unconstrained cleared volume (volume of electricity that would have been scheduled, had there been no congestion) and actual cleared volume.

During the month, the volume of electricity that could not be cleared in IEX due to congestion was 0.34% of the unconstrained cleared volume. In terms of time, congestion occurred was 4.91% in IEX. There was no congestion in PXIL (Table-16).

V: Bilateral Contracts executed by Traders

In addition to the analysis on short-term transactions of electricity in January, 2018, this section covers an analysis of bilateral contracts executed in February, 2018.

(i) *Duration of bilateral contracts:* During February, 2018, a total of 77 bilateral contracts (excluding banking/swap contracts) have been executed by traders for the volume of 1746.53 MUs. Figure-7 shows the percentage of contracts categorized according to the period of power supply. It can be observed from the figure that 50.6% of the bilateral contracts were executed for duration of up to one week, 45.5% of the contracts were executed for duration of more than a week and up to one month, 1.3% of the contracts were executed for duration of more than a month and up to three months, while 2.6% of the contracts were executed for duration of more than three months and upto 12 months.

During the month, 19 banking/swapping bilateral contracts were also executed for the volume of 655.78 MUs.

(ii) Forward Curve based on price of bilateral contracts: A forward curve reflects present day's expectation of prices for a future period. The forward curve of electricity prices are based on sale prices of bilateral contracts executed by traders. The price of each contract for each day is taken into consideration while constructing the forward curve. On the basis of these prices, the weighted average price for each day is calculated using various sale prices of contracts for delivery on that particular day.

Figure-8 represents the forward curve of electricity sale prices for the period from 1st February, 2018 to 27th May, 2018 based on the bilateral contracts⁴ executed till February, 2018. Forward curves have been drawn for the contracts executed in January, 2018 and February, 2018 for the purpose of comparison. It is observed that forward contract prices are significantly higher (for the period from 1st February 2018 to 26th February 2018) for the

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⁴Excluding Banking/Swapping contracts

contracts executed in February, 2018 compared to the contracts executed in January, 2018, after which, the prices of both the contracts have been moving together.

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 January, 2011.

Trading in Renewable Energy Certificates (RECs) which was stayed by the Supreme Court in May 2017 has been allowed since July, 2017. However, the order restricted the trading of non-solar RECs on the condition to comply with the earlier prices.

The details of REC transactions for the month of January, 2018 are shown in Table-20. Market clearing volume of non-solar RECs transacted on IEX and PXIL were 1.82 lacs and 10.49 lacs respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

The gap between the volume of buy and sell bids of RECs placed through power exchanges shows about the variation in demand for non-solar RECs. For non-solar RECs, the ratio of buy bids to sell bids was 0.08 and 0.31 in IEX and PXIL respectively.

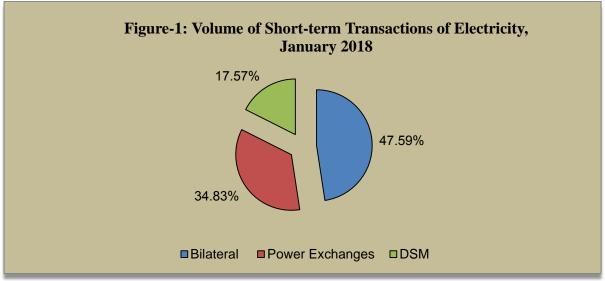
VII: Inferences:

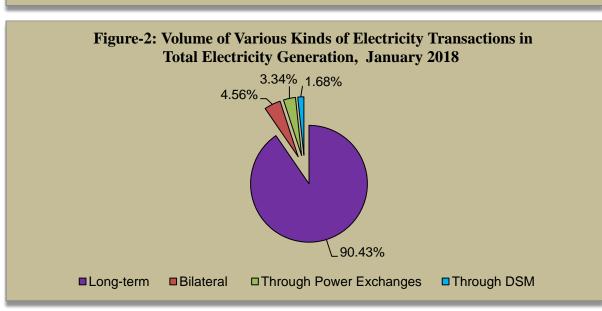
- The percentage of short-term transactions of electricity to total electricity generation was 9.57%.
- Of the total short-term transactions, bilateral constitutes 47.59% (30.22% through traders and term-ahead contracts on power exchanges and 17.38% directly between distribution companies) followed by 34.83% through day ahead collective transactions on power exchanges and 17.57% through DSM (Table-1 & Figure-1).
- There were no collective transactions in PXIL in January, 2018.
- Top 5 trading licensees had a share of 77.44% 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 0.20, indicating moderate concentration of market power.
- The weighted average price of electricity transacted through trading licensees was ₹3.92/kWh. The weighted average prices of electricity transacted through IEX was ₹3.44/kWh.
- The average price of electricity transacted through DSM was ₹2.12/kWh.
- Top 5 electricity selling regional entities were Punjab, Sembcorp Gayatri Power Ltd.,
 Delhi, Haryana and Diligent Power Pvt. Ltd. Top 5 electricity purchasing regional entities were Jammu & Kashmir, Gujarat, Tamil Nadu, Karnataka and Uttarakhand.
- During the month, the volume of electricity that could not be cleared in IEX due to congestion was 0.34% of the unconstrained cleared volume. In terms of time, congestion occurred was 4.91% in IEX.
- In February, 2018, 50.6% of the bilateral contracts were executed for duration of up to one week, 45.5% of the contracts were executed for duration of more than a week and up to one month, 1.3% of the contracts were executed for duration of more than a month and up to three months, while 2.6% of the contracts were executed for duration of more than three months and upto 12 months.

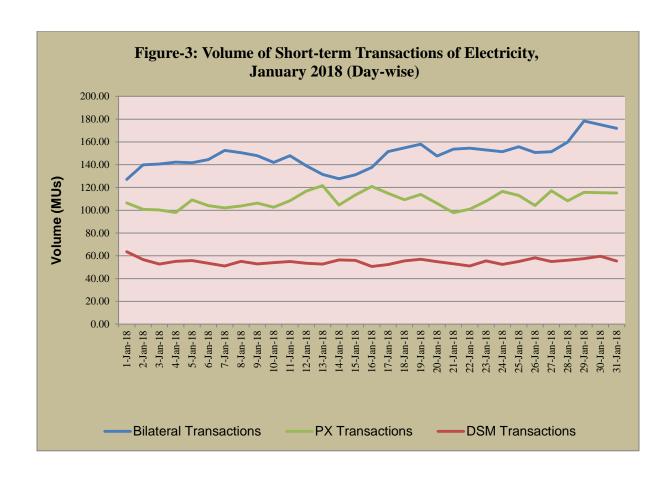
- The forward curve of electricity sale prices for the period from 1st February, 2018 to 27th May, 2018 based on the bilateral contracts⁵ executed till February, 2018 shows that forward contract prices are significantly higher (for the period from 1st February to 26th February 2018) for the contracts executed in February, 2018 compared to the contracts executed in January, 2018, after which, the prices of contracts in January and February have been moving together.
- Market clearing volume of non-solar RECs transacted on IEX and PXIL were 1.82 lacs and 10.49 lacs respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

⁵Excluding Banking/Swapping contracts

Ta	Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), JANUARY 2018				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation	
1	Bilateral	4611.68	47.59	4.56	
	(i) Through Traders and PXs	2927.71	30.22	2.89	
	(ii) Direct	1683.97	17.38	1.66	
2	Through Power Exchanges	3375.23	34.83	3.34	
	(i) IEX	3375.23	34.83	3.34	
	(ii) PXIL	0.00	0.00	0.00	
3	Through DSM	1702.62	17.57	1.68	
	Total	9689.53	-	9.57	
	Total Generation	101202.97	-	-	
Source:	Source: NLDC				







Tal	Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, JANUARY 2018				
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl- Hirschman Index		
1	PTC India Ltd.	39.69	0.1575		
2	NTPC Vidyut Vyapar Nigam Ltd.	10.79	0.0116		
3	Mittal Processors (P) Ltd.	10.64	0.0113		
4	Manikaran Power Ltd.	10.17	0.0103		
5	Arunachal Pradesh Power Corporation (P) ltd	6.17	0.0038		
6	Tata Power Trading Company (P) Ltd.	5.77	0.0033		
7	GMR Energy Trading Ltd.	5.21	0.0027		
8	Jaiprakash Associates Ltd.	2.73	0.0007		
9	Adani Enterprises Ltd.	1.88	0.0004		
10	JSW Power Trading Company Ltd	1.76	0.0003		
11	National Energy Trading & Services Ltd.	1.47	0.0002		
12	Knowledge Infrastructure Systems (P) Ltd	1.18	0.0001		
13	RPG Power Trading Company Ltd.	0.76	0.0001		
14	Customized Energy Solutions India (P) Ltd.	0.39	0.0000		
15	Shree Cement Ltd.	0.33	0.0000		
16	Instinct Infra & Power Ltd.	0.31	0.0000		
17	Statkraft Markets Pvt. Ltd.	0.31	0.0000		
18	My Home Power Private Ltd.	0.22	0.0000		
19	Essar Electric Power Development Corp. Ltd.	0.19	0.0000		
20	Parshavanath Power Projects Private Limited	0.01	0.0000		
21	Gita Power & Infrastructure Private Limited	0.01	0.0000		
22	Phillip Commodities India (P) Ltd.	0.01	0.0000		
	TOTAL 100.00% 0.2025				
	Top 5 trading licensees 77.44%				

Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions (interstate & 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

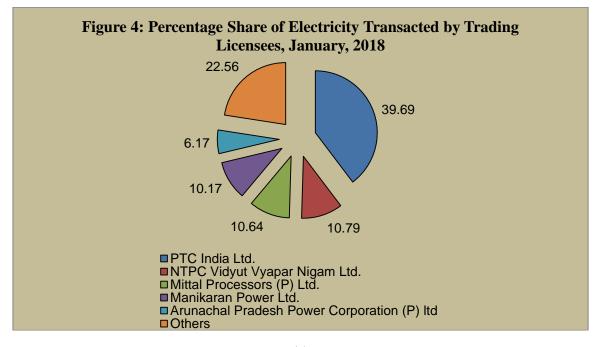


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JANUARY 2018			
Sr.No Item Sale Price of Traders (₹/kWh)			
1	Minimum	2.19	
2	Maximum	6.40	
3	Weighted Average	3.92	

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JANUARY 2018			
Sr.No	Sr.No Period of Trade Sale Price of Traders (₹/kWh)		
1	RTC	4.18	
2	PEAK	0.00	
3	OFF PEAK	3.38	

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, JANUARY 2018				
Sr.No	Sr.No ACP Price in IEX (₹/kWh) Price in PXIL (₹/kWh)			
1	Minimum	1.50	0.00	
2	Maximum	5.85	0.00	
3	Weighted Average	3.44	0.00	

Source: Information submitted by IEX and PXIL

Та	Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JANUARY 2018				
Sr.No	Sr.No Term ahead contracts				
1	Intra-Day Contracts	33.44	4.22		
2	Day Ahead Contingency Contracts	18.15	4.14		
	Total 51.58 4.19				

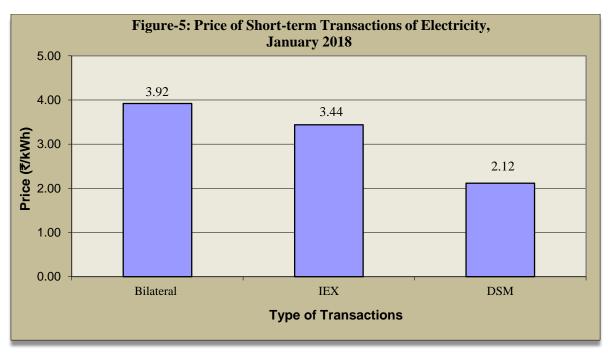
Source: IEX

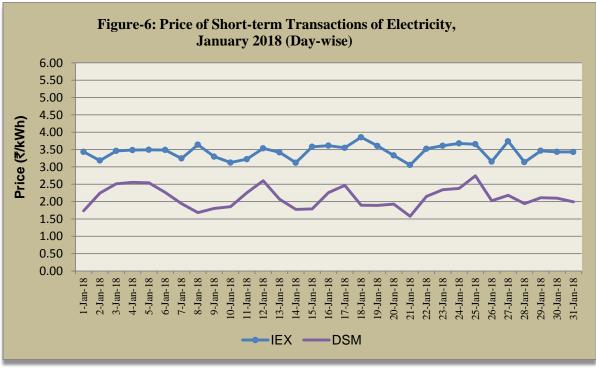
Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JANUARY 2018				
Sr.No	Sr.No Term ahead contracts			
1	Intra-Day Contracts	13.79	3.98	
2	Weekly Contracts	21.60	3.60	
	Total	35.39	3.75	

Source: PXIL

Tak	Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH DSM, JANUARY 2018			
Sr.No Item Price in All India Grid (₹/kWh)				
1	Minimum	0.00		
2	Maximum	7.20		
3	Average	2.12		

Source: NLDC





Note: There were no collective transactions in PXIL in January, 2018.

Table-9: VOLUME OF ELECTRICITY SOLD THROUGH BILATERAL, JANUARY 2018			
Name of the Entity	Volume of Sale (MUs)	% of Volume	
PUNJAB	1080.57	23.20	
HARYANA	628.89	13.50	
DELHI	606.54	13.02	
SEMBCORP	547.91	11.77	
WEST BENGAL	211.51	4.54	
ESSAR POWER	173.85	3.73	
GMR CHATTISGARH	150.19	3.23	
JINDAL POWER	147.50	3.17	
RAJASTHAN	109.71	2.36	
ADHUNIK POWER LTD	94.64	2.03	
GUJARAT	77.99	1.67	
SHREE CEMENT	71.08	1.53	
JINDAL STAGE-II	68.06	1.46	
JAYPEE NIGRIE	64.92	1.39	
DB POWER	50.63	1.09	
JITPL	48.53	1.04	
ONGC PALATANA	48.36	1.04	
MB POWER	47.09	1.01	
SKS POWER	41.91	0.90	
ANDHRA PRADESH	38.10	0.82	
TELANGANA	34.54	0.74	
DAGACHU	27.97	0.60	
HIMACHAL PRADESH	27.35	0.59	
DVC	27.28	0.59	
ILF&S			
MAHARASHTRA	25.08 23.21	0.54 0.50	
MP			
	20.02	0.43	
KARNATAKA	18.70	0.40	
TRN ENERGY	15.33	0.33	
J&K	14.78	0.32	
UTTAR PRADESH	12.47	0.27	
CHANDIGARH	11.16	0.24	
ASSAM	10.54	0.23	
SPECTRUM	10.28	0.22	
JHABUA POWER_MP	8.99	0.19	
MEGHALAYA	8.42	0.18	
ACBIL	7.57	0.16	
SIKKIM	7.50	0.16	
TRIPURA	7.15	0.15	
GOA	5.32	0.11	
LANKO_AMK	5.08	0.11	
TAMIL NADU	5.01	0.11	
BALCO	4.02	0.09	
TEESTA STG3	2.25	0.05	
NAGALAND	2.24	0.05	
ODISHA	2.16	0.05	
MIZORAM	1.44	0.03	
THERMAL POWERTECH	1.40	0.03	
GMR KAMALANGA	0.71	0.02	
MARUTI COAL	0.54	0.01	
KERALA	0.22	0.00	
Total	4656.88	100.00	
Volume Sold by top 5 Regional Entities	3075.42	66.04	

Table-10: VOLUME OF ELECTRICITY PURCHASED THROUGH BILATERAL, JANUARY 2018			
Name of the Entity	Volume of Purchase (MUs)	% of Volume	
J&K	610.08	13.23	
TAMIL NADU	484.75	10.51	
MP	456.91	9.91	
HIMACHAL PRADESH	428.37	9.29	
KARNATAKA	424.67	9.21	
TELANGANA	308.54	6.69	
UTTARAKHAND	300.69	6.52	
ANDHRA PRADESH	264.22	5.73	
GUJARAT	187.08	4.06	
ESSAR STEEL	167.84	3.64	
MAHARASHTRA	122.76	2.66	
ASSAM	107.53	2.33	
BANGLADESH	106.09	2.30	
JHARKHAND	94.64	2.05	
NEPAL(NVVN)	89.06	1.93	
BIHAR	77.47	1.68	
CHHATTISGARH	63.86	1.38	
RAJASTHAN	51.68	1.12	
ODISHA	46.90	1.02	
MEGHALAYA	44.33	0.96	
UTTAR PRADESH	36.56	0.79	
DELHI	30.20	0.65	
KERALA	27.90	0.60	
MANIPUR	26.15	0.57	
GOA	21.81	0.47	
SIKKIM	12.55	0.27	
HARYANA	10.51	0.23	
PUNJAB	4.40	0.10	
WEST BENGAL	3.03	0.07	
DVC	0.60	0.01	
MIZORAM	0.48	0.01	
TRIPURA	0.03	0.00	
TOTAL	4611.68	100.00	
Volume Purchased by top 5 Regional Entities	2404.79	52.15	

Table-11: VOLUME OF ELECTRICITY SOLD THROUGH POWER EXCHANGES, JANUARY 2018				
Name of the Entity	Volume of Sale (MUs)	% of Volume		
DB POWER	261.29	7.74		
DVC	214.91	6.37		
MP	188.50	5.58		
TELANGANA	171.04	5.07		
TEESTA STG3	140.63	4.17		
NLC	140.46	4.16		
SEMBCORP	116.98	3.47		
KARNATAKA	114.55	3.39		
DELHI	110.40	3.27		
WEST BENGAL	107.10	3.17		
CHHATTISGARH	105.55	3.13		
MAHARASHTRA	93.02	2.76		
ANDHRA PRADESH	87.35	2.59		
GUJARAT	85.20	2.52		
PUNJAB	81.97	2.43		
JAYPEE NIGRIE	75.06	2.43		
MB POWER	70.68	2.09		
ODISHA	69.97	2.09		
THERMAL POWERTECH	69.90	2.07		
ASSAM	68.13	2.02		
JINDAL POWER	63.88			
		1.89 1.78		
HARYANA	60.23			
HIMACHAL PRADESH	59.18	1.75		
TRIPURA JINDAL STAGE-II	57.18	1.69		
	50.68	1.50		
TRN ENERGY RAJASTHAN	50.29	1.49		
	47.39	1.40		
UTTAR PRADESH	46.20	1.37		
ACBIL	44.95	1.33		
NTPC STATIONS-WR	40.25	1.19		
KERALA	39.77	1.18		
SKS POWER	35.43	1.05		
JITPL	32.54	0.96		
J&K	30.89	0.92		
KARCHAM WANGTOO	29.53	0.88		
GOA	27.45	0.81		
GMR CHATTISGARH	25.88	0.77		
NTPC STATIONS-SR	20.66	0.61		
SPECTRUM	19.42	0.58		
MIZORAM	18.41	0.55		
MANIPUR	16.34	0.48		
TAMIL NADU	16.05	0.48		
DADRA & NAGAR HAVELI	15.04	0.45		
SHREE CEMENT	14.33	0.42		
MARUTI COAL	11.06	0.33		
ESSAR POWER	10.92	0.32		
AD HYDRO	10.64	0.32		
SIKKIM	10.12	0.30		
SAINJ HEP	9.02	0.27		
CHUZACHEN HEP	8.67	0.26		

TASHIDENG HEP	8.43	0.25
UTTARAKHAND	8.14	0.24
NTPC STATIONS-NER	7.88	0.23
JORETHANG	7.83	0.23
DIKCHU HEP	6.29	0.19
MEGHALAYA	5.75	0.17
JHABUA POWER_MP	5.38	0.16
MAITHON POWER LTD	5.06	0.15
NJPC	4.51	0.13
ILF&S	3.39	0.10
NTPC STATIONS-NR	3.28	0.10
BIHAR	3.17	0.09
CHANDIGARH	2.72	0.08
NTPC STATIONS-ER	2.54	0.08
GMR KAMALANGA	2.06	0.06
DHARIWAL POWER	1.33	0.04
EMCO	0.83	0.02
MALANA	0.66	0.02
LANCO BUDHIL	0.58	0.02
ONGC PALATANA	0.29	0.01
TOTAL	3375.23	100.00
Volume sold by top 5 Regional Entities	976.37	28.93

Table-12: VOLUME OF ELECTRICITY PURCHASED THROUGH POWER EXCHANGES, JANUARY 2018					
Name of the Entity	Volume of Purchase (MUs)	% of Volume			
GUJARAT	583.99	17.30			
MAHARASHTRA	413.20	12.24			
BIHAR	359.49	10.65			
KARNATAKA	250.85	7.43			
RAJASTHAN	228.56	6.77			
UTTARAKHAND	211.51	6.27			
TELANGANA	199.00	5.90			
ANDHRA PRADESH	166.40	4.93			
J&K	143.23	4.24			
ESSAR STEEL	129.21	3.83			
WEST BENGAL	94.85	2.81			
MP	80.64	2.39			
ODISHA	80.57	2.39			
TAMIL NADU	75.52	2.24			
HARYANA	68.92	2.04			
DELHI	63.70	1.89			
ASSAM	61.31	1.82			
HIMACHAL PRADESH	37.88	1.12			
DAMAN AND DIU	25.28	0.75			
KERALA	24.61	0.73			
MEGHALAYA	13.96	0.41			
GOA	10.60	0.31			
CHHATTISGARH	9.44	0.28			
DVC	8.75	0.26			
CHANDIGARH	8.68	0.26			
DADRA & NAGAR HAVELI	6.28	0.19			
PONDICHERRY	5.28	0.16			
PUNJAB	4.93	0.15			
ARUNACHAL PRADESH	3.98	0.12			
NAGALAND	2.58	0.08			
MANIPUR	1.36	0.04			
TRIPURA	0.68	0.02			
TOTAL	3375.23	100.00			
Volume purchased by top 5 Regional Entities	1836.09	54.40			

Table-13: VOLUME OF ELECTRICITY UNDER DRAWAL (EXPORTED) THROUGH DSM, JANUARY 2018					
Name of the Entity	Volume of Underdrawal (MUs)	% of Volume			
NTPC STATIONS-WR	117.05	7.52			
TELANGANA	106.16	6.82			
SKS POWER	78.73	5.06			
NTPC STATIONS-NR	73.58	4.73			
SASAN UMPP	67.05	4.31			
NLC	64.27	4.13			
MP	61.40	3.95			
MAHARASHTRA	59.06	3.79			
KARNATAKA	54.18	3.48			
GUJARAT	52.36	3.36			
ANDHRA PRADESH	47.94	3.08			
PUNJAB	47.28	3.04			
BIHAR	43.77	2.81			
UTTARAKHAND	43.09	2.77			
DVC	42.79	2.75			
CHHATTISGARH	41.94	2.70			
NHPC STATIONS	33.52	2.15			
TAMIL NADU	31.94	2.05			
NTPC STATIONS-ER	29.41	1.89			
UTTAR PRADESH	27.30	1.75			
NTPC STATIONS-SR	26.32	1.69			
DELHI	24.83	1.60			
RAJASTHAN	22.34	1.44			
J&K	21.35	1.37			
ESSAR STEEL	21.21	1.36			
HARYANA	20.69	1.33			
LANKO AMK	17.98	1.16			
NSPCL	12.57	0.81			
PONDICHERRY	12.39	0.80			
NEPAL(NVVN)	11.76	0.76			
JHARKHAND	9.47	0.61			
HIMACHAL PRADESH	8.95	0.57			
JAYPEE NIGRIE	8.90	0.57			
KSK MAHANADI	8.26	0.53			
MEGHALAYA	7.50	0.48			
WEST BENGAL	7.49	0.48			
TRN ENERGY	7.32	0.47			
MB POWER	7.22	0.46			
JINDAL STAGE-II	7.14	0.46			
JITPL	6.93	0.45			
ACBIL	6.78	0.44			
MIZORAM	6.65	0.43			
NEEPCO STATIONS	6.61	0.42			
DB POWER	6.46	0.41			
NJPC	6.42	0.41			
ASSAM	6.41	0.41			
TEESTA HEP	6.36	0.41			
SIKKIM	6.32	0.41			
KARCHAM WANGTOO	6.06	0.39			
ODISHA	6.01	0.39			
05101111	0.01	0.00			

THERMAL POWERTECH	5.30	0.34
GOA	5.29	0.34
CGPL	5.13	0.33
EMCO	5.04	0.32
KERALA	4.55	0.29
JINDAL POWER	4.52	0.29
CHANDIGARH	4.46	0.29
MAITHON POWER LTD	4.12	0.26
TRIPURA	3.89	0.25
DCPP	3.60	0.23
MANIPUR	3.41	0.22
GMR CHATTISGARH	3.39	0.22
BALCO	3.33	0.21
GMR KAMALANGA	3.28	0.21
SEMBCORP	3.14	0.20
JHABUA POWER_MP	2.97	0.19
BANGLADESH	2.96	0.19
NAGALAND	2.83	0.18
TEESTA STG3	2.65	0.17
RGPPL (DABHOL)	2.38	0.15
URI-2	2.10	0.13
ESSAR POWER	1.99	0.13
ADHUNIK POWER LTD	1.77	0.11
COASTGEN	1.52	0.10
SHREE CEMENT	1.49	0.10
ILF&S	1.34	0.09
RANGIT HEP	1.34	0.09
RANGANADI HEP	1.21	0.08
DAMAN AND DIU	1.04	0.07
ARUNACHAL PRADESH	0.97	0.06
AD HYDRO	0.96	0.06
DHARIWAL POWER	0.94	0.06
NETCL VALLUR	0.87	0.06
JORETHANG	0.85	0.05
CHUZACHEN HEP	0.79	0.05
LOKTAK	0.73	0.05
TASHIDENG HEP	0.61	0.04
DADRA & NAGAR HAVELI	0.47	0.03
RKM POWER	0.41	0.03
DIKCHU HEP	0.35	0.02
DOYANG HEP	0.34	0.02
LANCO BUDHIL	0.24	0.02
MALANA	0.05	0.00
Total	1556.14	100.00
Volume Exported by top 5 Regional Entities	442.58	28.44

Mane of the Entity	Table-14: VOLUME OF ELECTRICITY OVER DRAWAL (IMPORTED) THROUGH DSM, JANUARY 2018				
UTTAR PRADESH	Name of the Entity	Volume of Over drawal (MUs)	% of Volume		
TAMIL NADU 102.27 5.85 ODISHA 98.83 5.66 NEPAL (NVVN) 82.11 4.70 HARYANA 78.47 4.49 NTPC STATIONS-NR 74.94 4.29 GUJARAT 68.04 3.89 MAHARASHTRA 65.89 3.77 WEST BENGAL 56.51 3.23 NTPC STATIONS-WR 54.44 3.12 MP 46.73 2.67 BIHAR 46.68 2.67 BIHAR 46.68 2.67 NTPC STATIONS-SR 45.95 2.63 NTPC STATIONS-ER 42.70 2.44 PUNJAB 42.47 2.43 HIMACHAL PRADESH 33.74 2.22 JHARKHAND 33.27 1.90 KARNATAKA 32.42 1.86 ANDHRA PRADESH 31.88 1.82 DADRA & NAGAR HAVELI 26.01 1.49 KERALA 23.67 1.35 ESSAR STEEL 23.18 1.33	RAJASTHAN	135.38	7.75		
DDISHA 98.83 5.66	UTTAR PRADESH	106.26	6.08		
NEPAL(NVVN) 82.11	TAMIL NADU	102.27	5.85		
HARYANA	ODISHA	98.83	5.66		
HARYANA	NEPAL(NVVN)	82.11	4.70		
NTPC STATIONS-NR 74.94 4.29					
GUJARAT 68.04 3.89 MAHARASHTRA 65.89 3.77 WEST BENGAL 56.51 3.23 NTPC STATIONS-WR 54.44 3.12 MP 46.73 2.67 BIHAR 46.68 2.67 NTPC STATIONS-SR 45.95 2.63 NTPC STATIONS-ER 42.70 2.44 PUNJAB 42.47 2.43 HIMACHAL PRADESH 38.74 2.22 JHARKHAND 33.27 1.90 KARNATAKA 32.42 1.86 ANDHRA PRADESH 31.88 1.82 DADRA & NAGAR HAVELI 26.01 1.49 KERALA 23.67 1.35 ESSAR STEEL 23.18 1.33 ASSAM 22.23 1.27 CGPL 21.20 1.21 J & K 20.40 1.17 DAMAN AND DIU 18.20 1.04 UTTARAKHAND 16.65 0.95 NETCL VALLUR 16.65 0.95					
MAHARASHTRA 65.89 3.77 WEST BENGAL 56.51 3.23 MTPC STATIONS-WR 54.44 3.12 MP 46.73 2.67 BIHAR 46.68 2.67 NTPC STATIONS-SR 45.95 2.63 NTPC STATIONS-ER 42.70 2.44 PUNJAB 42.47 2.43 HIMACHAL PRADESH 38.74 2.22 JHARKHAND 33.27 1.90 KARNATAKA 32.42 1.86 ANDHRA PRADESH 31.88 1.82 DADRA & NAGAR HAVELI 26.01 1.49 KERALA 23.67 1.35 ESSAR STEEL 23.18 1.33 ASSAM 22.23 1.27 CGPL 21.20 1.21 J & K 20.40 1.17 DAMAN AND DIU 18.20 1.04 UTTARAKHAND 16.65 0.95 NETCL VALLUR 16.32 0.93 DELHI 16.12 0.92					
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BIHAR					
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NTPC STATIONS-ER					
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TRIPURA 7.28 0.42 BANGLADESH 6.66 0.38 ILF&S 6.20 0.36 SHREE CEMENT 4.73 0.27 JHABUA POWER_MP 4.73 0.27 JINDAL STAGE-II 4.68 0.27		7.84	0.45		
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JINDAL STAGE-II 4.68 0.27					
INACIALAND 5.97 U.23	NAGALAND	3.97	0.23		

NJPC	3.87	0.22
GMR CHATTISGARH	3.65	0.21
KARCHAM WANGTOO	3.45	0.20
RGPPL (DABHOL)	3.37	0.19
MAITHON POWER LTD	3.16	0.18
ESSAR POWER	3.15	0.18
TEESTA STG3	3.02	0.17
MEENAKSHI	2.96	0.17
EMCO	2.76	0.17
NHPC STATIONS	2.73	0.16
JITPL	2.73	0.15
DB POWER	2.47	0.13
RKM POWER	2.26	0.14
JAYPEE NIGRIE	2.20	0.13
NSPCL NSPCL	2.14	0.12
JINDAL POWER	1.88	0.11
SIKKIM	1.88	0.11
MANIPUR	1.87	0.11
JORETHANG	1.76	0.10
COASTGEN	1.70	0.10
PONDICHERRY	1.66	0.09
MEGHALAYA	1.64	0.09
ACBIL	1.58	0.09
TRN ENERGY	1.55	0.09
TASHIDENG HEP	1.44	0.08
ADHUNIK POWER LTD	1.44	0.08
RANGANADI HEP	1.44	0.08
NEEPCO STATIONS	1.04	0.06
MIZORAM	1.00	0.06
DGEN MEGA POWER	0.97	0.06
LANKO KONDAPALLI	0.83	0.05
SIMHAPURI	0.77	0.04
SASAN UMPP	0.75	0.04
AD HYDRO	0.71	0.04
CHUZACHEN HEP	0.61	0.04
RANGIT HEP	0.60	0.03
LANCO BUDHIL	0.57	0.03
SKS POWER	0.55	0.03
DCPP	0.53	0.03
DIKCHU HEP	0.35	0.02
DOYANG HEP	0.35	0.02
URI-2	0.32	0.02
KORBA WEST POWER	0.28	0.02
DHARIWAL POWER	0.28	0.02
LOKTAK	0.17	0.01
KSK MAHANADI	0.14	0.01
MALANA	0.14	0.01
TEESTA HEP	0.07	0.00
LANKO_AMK	0.01	0.00
TOTAL	1746.97	100.00
Volume Imported by top 5 Regional Entities	524.84	30.04

	Table-15: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), JANUARY 2018				
Sr.No.	Name of the Entity	Total volume of net short-term transactions of electricity*			
1	J&K	706.68			
2	GUJARAT	623.55			
3	TAMIL NADU	609.53			
4	KARNATAKA	520.52			
5	UTTARAKHAND	477.62			
6	BIHAR	436.70			
7	MAHARASHTRA	426.56			
8	HIMACHAL PRADESH	409.52			
9	MP	314.36			
10	ESSAR STEEL	299.02			
11	ANDHRA PRADESH	289.11			
12	RAJASTHAN	236.17			
13	TELANGANA	204.86			
14	NEPAL(NVVN)	159.40			
15	ODISHA	148.15			
16	JHARKHAND	118.43			
17	BANGLADESH	109.79			
18	ASSAM	105.79			
19	UTTAR PRADESH	56.86			
20	DAMAN AND DIU	42.45			
21	MEGHALAYA	38.27			
22	KERALA	31.63			
23	ARUNACHAL PRADESH	17.90			
24	DADRA & NAGAR HAVELI	16.62			
25	CGPL	16.07			
26	NETCL VALLUR	15.45			
27	NTPC STATIONS-ER	10.75			
28	MANIPUR	9.62			
29	GOA	7.19			
30	MEENAKSHI	2.96			
31	GMR KAMALANGA	2.30			
32 33	RKM POWER	1.85 1.48			
	NAGALAND BCBBL (DABHOL)				
34 35	RGPPL (DABHOL) DGEN MEGA POWER	0.99			
		0.97			
36 37	LANKO KONDAPALLI SIMHAPURI	0.83 0.77			
38	MALANA	-0.57			
39	CHANDIGARH	-0.65			
40	RANGIT HEP	-0.74			
41	NTPC STATIONS-SR	-1.03			
42	URI-2	-1.78			
43	NTPC STATIONS-NR	-1.93			
44	DHARIWAL POWER	-1.99			
45	DCPP	-3.07			
46	EMCO	-3.10			
47	PONDICHERRY	-5.45			
48	NEEPCO STATIONS	-5.56			
49	MAITHON POWER LTD	-6.02			
50	DIKCHU HEP	-6.29			

STATE	51	TEESTA HEP	-6.29				
53 NJPC -7.06 54 TASHIDENG HEP -7.60 55 NTPC STATIONS-NER -7.88 56 KSK MAHANADI -8.12 57 CHUZACHEN HEP -8.85 58 SAINJ HEP -9.02 59 SIKKIM -9.51 60 NSPCL -10.45 61 AD HYDRO -10.89 62 MARUTI COAL -11.60 63 JHABUA POWER MP -12.61 64 DAGACHU -15.50 65 LANKO, AMK -23.05 66 ILF&S -23.61 67 MIZORAM -25.02 68 SPECTRUM -29.70 69 NHPC STATIONS -30.79 70 KARCHAM WANGTOO -32.14 71 ONGC PALATANA -48.65 72 ACBIL -57.72 73 TRIPURA -60.24 74 CHHATTISGARH -61.98 75 SASAN UMPP <td></td> <td></td> <td></td>							
54 TASHIDENG HEP -7.60 55 NTPC STATIONS-NER -7.88 56 KSK MAHANADI -8.12 57 CHUZACHEN HEP -8.85 58 SAINJ HEP -9.02 59 SIKKIM -9.51 60 NSPCL -10.45 61 AD HYDRO -10.89 62 MARUTI COAL -11.60 63 JHABUA POWER MP -12.61 64 DAGACHU -15.50 65 LANKO, AMK -23.05 66 ILF&S -23.61 67 MIZORAM -25.02 68 SPECTRUM -29.70 69 NHPC STATIONS -30.79 70 KARCHAM WANGTOO -32.14 71 ONGC PALATANA -48.65 72 ACBIL -57.72 73 TRIPURA -60.24 74 CHHATTISGARH -61.98 75 SASAN UMPP -66.30 76 THERMA							
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61 AD HYDRO							
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electricity through bilateral, power exchange and UI							
(-) indicates sale and (+) indicates purchase							
	(-) indic	cates sale and (+) indicates purchase					

	Table-16: DETAILS OF CONGESTION IN POWER EXCHANGES, JANUARY 2018					
	Details of Congestion IEX					
Α	Unconstrained Cleared Volume* (MUs)	3389.22				
В	Actual Cleared Volume and hence scheduled (MUs)	3377.79				
С	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	11.43				
D	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	0.34%				
Е	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month) 4.91%					
F	F Congestion occurrence (%) time block wise					
	0.00 - 6.00 hours	2.74%				
	6.00 - 12.00 hours	50.68%				
	12.00 - 18.00 hours 17.81%					
	18.00 - 24.00 hours 28.77%					
Sourc	* This power would have been scheduled had there been no congestion. Source: IEX & PXIL& NLDC					
Note:	There were no collective transactions in PXIL in January, 2018	3.				

Date	Bilateral		Power Exchange (Area Clearing Volume# of Day Ahead Market)		Deviation Settlement (Over	Total Electricity Generation
	Through Traders and PXs**	Direct	IEX	PXIL	Drawl+Under Generation)	(MU) as given at CEA Website*
1-Jan-18	78.58	48.50	106.44	0.00	63.53	
2-Jan-18	85.28	54.54	100.76	0.00	56.72	
3-Jan-18	85.26	55.36	100.22	0.00	52.73	
4-Jan-18	86.81	55.43	98.01	0.00	55.05	
5-Jan-18	85.78	55.93	109.05	0.00	55.78	
6-Jan-18	88.56	55.96	104.02	0.00	53.40	
7-Jan-18	91.58	60.90	102.06	0.00	50.98	
8-Jan-18	89.04	61.58	103.71	0.00	55.12	
9-Jan-18	88.93	58.92	106.31	0.00	52.83	
10-Jan-18	88.47	53.47	102.62	0.00	54.02	
11-Jan-18	97.90	50.05	108.45	0.00	54.98	
12-Jan-18	87.30	51.77	116.79	0.00	53.48	
13-Jan-18	83.04	48.41	121.58	0.00	52.69	
14-Jan-18	78.37	49.33	104.64	0.00	56.43	
15-Jan-18	83.02	48.11	113.50	0.00	56.01	
16-Jan-18	85.00	52.59	120.89	0.00	50.66	
17-Jan-18	99.04	52.57	114.84	0.00	52.25	
18-Jan-18	101.63	53.11	109.29	0.00	55.47	
19-Jan-18	97.37	60.69	113.90	0.00	56.92	
20-Jan-18	96.43	51.16	106.05	0.00	54.79	
21-Jan-18	94.18	59.43	97.82	0.00	53.06	
22-Jan-18	97.35	57.21	100.88	0.00	51.01	
23-Jan-18	95.87	57.15	108.03	0.00	55.51	
24-Jan-18	99.27	52.17	116.49	0.00	52.47	
25-Jan-18	102.86	52.94	113.07	0.00	55.02	
26-Jan-18	98.01	52.73	104.23	0.00	58.14	
27-Jan-18	96.80	54.64	117.06	0.00	54.99	
28-Jan-18	106.30	53.51	108.30	0.00	56.14	
29-Jan-18	123.71	54.76	115.73	0.00	57.47	
30-Jan-18	118.75	56.38	115.40	0.00	59.55	
31-Jan-18	117.22	54.66	115.11	0.00	55.42	
Total	2927.71	1683.97	3375.23	0.00	1702.62	101202.97

Table-17: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA

Source: NLDC

Note: The data on total electricity generation (day-wise) could not be accessed from CEA website.

^{*} 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.

[#] Area Clearing Volume represents the scheduled volume of all the bid areas.

Table-18: PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (DAY-WISE)(₹kWh), JANUARY, 2018							
Market Segment	Day ahead market of IEX Under Drawl/Over Drawl from the Grid (DSM)						
Date	Minimum ACP	Maximum ACP	Weighted Average Price*	Minimum Price	All India Grid Maximum Price	Average Price**	
1-Jan-18	1.75	5.25	3.43	0.00	7.20	1.73	
2-Jan-18	1.50	4.67	3.18	0.00	5.32	2.24	
3-Jan-18	1.70	5.40	3.46	0.00	5.11	2.51	
4-Jan-18	1.70	5.50	3.49	0.00	5.95	2.55	
5-Jan-18	1.50	5.47	3.49	0.00	6.36	2.54	
6-Jan-18	1.75	5.85	3.49	0.00	5.11	2.26	
7-Jan-18	1.85	5.00	3.24	0.00	5.11	1.94	
8-Jan-18	1.85	5.69	3.64	0.00	3.45	1.68	
9-Jan-18	1.85	4.50	3.30	0.00	3.45	1.80	
10-Jan-18	1.87	4.60	3.12	0.00	4.91	1.85	
11-Jan-18	1.80	4.50	3.22	0.00	5.32	2.25	
12-Jan-18	1.80	5.30	3.53	0.00	5.32	2.60	
13-Jan-18	1.92	5.25	3.42	0.00	4.91	2.07	
14-Jan-18	1.84	4.51	3.12	0.00	3.45	1.77	
15-Jan-18	1.80	5.25	3.58	0.00	3.45	1.79	
16-Jan-18	1.75	5.25	3.61	0.00	3.45	2.26	
17-Jan-18	1.92	5.25	3.55	0.00	4.91	2.46	
18-Jan-18	1.92	5.62	3.85	0.00	6.16	1.89	
19-Jan-18	1.92	5.69	3.61	0.00	3.45	1.89	
20-Jan-18	1.92	4.50	3.33	0.00	3.45	1.93	
21-Jan-18	1.75	4.40	3.05	0.00	3.24	1.58	
22-Jan-18	1.80	4.90	3.52	0.00	5.32	2.15	
23-Jan-18	1.79	5.25	3.61	0.00	5.32	2.34	
24-Jan-18	1.80	5.78	3.68	0.00	4.91	2.38	
25-Jan-18	1.92	5.85	3.65	0.00	6.16	2.74	
26-Jan-18	1.92	5.25	3.15	0.00	3.45	2.02	
27-Jan-18	1.92	5.49	3.74	0.00	5.11	2.18	
28-Jan-18	2.00	5.00	3.14	0.00	3.45	1.94	
29-Jan-18	1.92	5.12	3.46	0.00	3.45	2.11	
30-Jan-18	1.92	5.00	3.43	0.00	4.91	2.10	
31-Jan-18	1.80	5.00	3.43	0.00	5.74	1.99	
	1.50#	5.85#	3.44	0.00#	7.20#	2.12	

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

Note: There were no collective transactions in PXIL in January, 2018.

^{*} 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

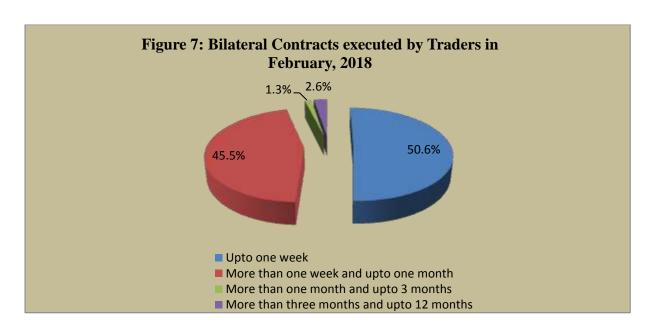
Table-19: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MUs), JANUARY 2018										
	Through Bilateral		Through Power Exchange			Through DSM with Regional Grid				
Name of the Entity	Sale	Pur- chase	Net**	Sale	Pur- chase	Net**	Import (Over Drawl)	Export (Under Drawl)	Net**	Total Net***
PUNJAB	1080.57	4.40	-1076.17	81.97	4.93	-77.05	42.47	47.28	-4.81	-1158.03
HARYANA	628.89	10.51	-618.39	60.23	68.92	8.70	78.47	20.69	57.78	-551.91
RAJASTHAN	109.71	51.68	-58.03	47.39	228.56	181.17	135.38	22.34	113.04	236.17
DELHI	606.54	30.20	-576.34	110.40	63.70	-46.69	16.12	24.83	-8.71	-631.74
UP	12.47	36.56	24.09	46.20	0.00	-46.20	106.26	27.30	78.96	56.86
UTTARAKHAN		300.69	300.69	8.14	211.51	203.37	16.65	43.09	-26.44	477.62
HP	27.35	428.37	401.02	59.18	37.88	-21.30	38.74	8.95	29.79	409.52
J & K	14.78	610.08	595.30	30.89	143.23	112.34	20.40	21.35	-0.95	706.68
MP	20.02	456.91	436.90	188.50	80.64	-107.86	46.73	61.40	-14.67	314.36
MAHARASHTR	23.21	122.76	99.55	93.02	413.20	320.18	65.89	59.06	6.83	426.56
GUJARAT	77.99	187.08	109.09	85.20	583.99	498.79	68.04	52.36	15.68	623.55
CHHATTISGAR		63.86	63.86	105.55	9.44	-96.11	12.21	41.94	-29.73	-61.98
GOA	5.32	21.81	16.49	27.45	10.60	-16.85	12.84	5.29	7.55	7.19
DAMAN & DIU	0.00	0.00	0.00	0.00	25.28	25.28	18.20	1.04	17.17	42.45
D&N HAVELI	0.17	0.00	-0.17	15.04	6.28	-8.76	26.01	0.47	25.54	16.62
AP	38.10	264.22	226.12	87.35	166.40	79.05	31.88	47.94	-16.06	289.11
KARNATAKA	18.70	424.67	405.97	114.55	250.85	136.30	32.42	54.18	-21.76	520.52
KERALA	0.22	27.90	27.68	39.77	24.61	-15.16	23.67	4.55	19.11	31.63
TAMIL NADU	5.01	484.75	479.74	16.05	75.52	59.47	102.27	31.94	70.33	609.53
PONDICHERR	0.00	0.00	0.00	0.00	5.28	5.28	1.66	12.39	-10.73	-5.45
TELANGANA	34.54	308.54	274.00	171.04	199.00	27.95	9.07	106.16	-97.09	204.86
WEST BENGA	211.51	3.03	-208.47	107.10	94.85	-12.24	56.51	7.49	49.03	-171.69
ODISHA	2.16	46.90	44.74	69.97	80.57	10.59	98.83	6.01	92.82	148.15
BIHAR JHARKHAND	0.00	77.47	77.47	3.17	359.49	356.32	46.68	43.77	2.91	436.70
SIKKIM	0.00 7.50	94.64	94.64	0.00 10.12	0.00	0.00 -10.12	33.27	9.47 6.32	23.79 -4.44	118.43
DVC	27.28	12.55 0.60	5.05 -26.68	214.91	0.00 8.75	-10.12	1.88 15.24	42.79	-4.44	-9.51 -260.40
ARUNACHAL F		0.00	0.00	0.00	3.98	3.98	14.89	0.97	13.92	17.90
ASSAM	10.54	107.53	96.99	68.13	61.31	-6.82	22.23	6.41	15.82	105.99
MANIPUR	0.00	26.15	26.15	16.34	1.36	-14.98	1.87	3.41	-1.54	9.62
MEGHALAYA	8.42	44.33	35.91	5.75	13.96		1.64	7.50	-5.86	38.27
MIZORAM	1.44	0.48	-0.96	18.41	0.00	-18.41	1.00	6.65	-5.66	-25.02
NAGALAND	2.24	0.40	-2.24	0.00	2.58	2.58	3.97	2.83	1.14	1.48
TRIPURA	7.15	0.03	-7.12	57.18	0.68	-56.50	7.28	3.89	3.39	-60.24
NTPC -NR	0.00	0.00	0.00	3.28	0.00	-3.28	74.94	73.58	1.35	-1.93
NHPC STN	0.00	0.00	0.00	0.00	0.00	0.00	2.73	33.52	-30.79	-30.79
NJPC	0.00	0.00	0.00	4.51	0.00	-4.51	3.87	6.42	-2.55	-7.06
AD HYDRO	0.00	0.00	0.00	10.64	0.00	-10.64	0.71	0.96	-0.25	-10.89
KARCHAM WA		0.00	0.00	29.53	0.00	-29.53	3.45	6.06	-2.61	-32.14
SHREE CEME	71.08	0.00	-71.08	14.33	0.00	-14.33	4.73	1.49	3.25	-82.16
URI-2	0.00	0.00	0.00	0.00	0.00	0.00	0.32	2.10	-1.78	-1.78
SAINJ HEP	0.00	0.00	0.00	9.02	0.00	-9.02	0.00	0.00	0.00	-9.02
NTPC -WR	0.00	0.00	0.00	40.25	0.00	-40.25	54.44	117.05	-62.61	-102.86
JINDAL POWE		0.00	-147.50	63.88	0.00	-63.88	1.88	4.52	-2.64	-214.02
LANKO AMK	5.08	0.00	-5.08	0.00	0.00	0.00	0.01	17.98	-17.97	-214.02
NSPCL	0.00	0.00	0.00	0.00	0.00	0.00	2.12	12.57	-10.45	-10.45
ACBIL	7.57	0.00	-7.57	44.95	0.00	-44.95	1.58	6.78	-5.20	-57.72
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	21.20	5.13	16.07	16.07
DCPP	0.00	0.00	0.00	0.00	0.00	0.00	0.53	3.60	-3.07	-3.07
EMCO	0.00	0.00	0.00	0.83	0.00	-0.83	2.76	5.04	-2.27	-3.10
ESSAR STEEL	0.00	167.84	167.84	0.00	129.21	129.21	23.18	21.21	1.97	299.02
KSK MAHANAI	0.00	0.00	0.00	0.00	0.00	0.00	0.14	8.26	-8.12	-8.12
	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.20	0.12	0.12

ESSAR POWE	173.85	0.00	-173.85	10.92	0.00	-10.92	3.15	1.99	1.16	-183.62
JINDAL STG-II	68.06	0.00	-68.06	50.68	0.00	-50.68	4.68	7.14	-2.46	-121.21
DB POWER	50.63	0.00	-50.63	261.29	0.00	-261.29	2.47	6.46	-3.98	-315.90
DHARIWAL PC	0.00	0.00	0.00	1.33	0.00	-1.33	0.28	0.94	-0.66	-1.99
JAYPEE NIGR	64.92	0.00	-64.92	75.06	0.00	-75.06	2.14	8.90	-6.75	-146.74
GMR CHATTIS	150.19	0.00	-150.19	25.88	0.00	-25.88	3.65	3.39	0.25	-175.82
MB POWER	47.09	0.00	-47.09	70.68	0.00	-70.68	7.32	7.22	0.10	-117.67
MARUTI COAL	0.54	0.00	-0.54	11.06	0.00	-11.06	0.00	0.00	0.00	-11.60
SPECTRUM	10.28	0.00	-10.28	19.42	0.00	-19.42	0.00	0.00	0.00	-29.70
JHABUA_MP	8.99	0.00	-8.99	5.38	0.00	-5.38	4.73	2.97	1.76	-12.61
SASAN UMPP	0.00	0.00	0.00	0.00	0.00	0.00	0.75	67.05	-66.30	-66.30
TRN ENERGY	15.33	0.00	-15.33	50.29	0.00	-50.29	1.55	7.32	-5.76	-71.38
RKM POWER	0.00	0.00	0.00	0.00	0.00	0.00	2.26	0.41	1.85	1.85
SKS POWER	41.91	0.00	-41.91	35.43	0.00	-35.43	0.55	78.73	-78.18	-155.52
NTPC -SR	0.00	0.00	0.00	20.66	0.00	-20.66	45.95	26.32	19.63	-1.03
MEENAKSHI	0.00	0.00	0.00	0.00	0.00	0.00	2.96	0.00	2.96	2.96
THERMAL PO	1.40	0.00	-1.40	69.90	0.00	-69.90	9.88	5.30	4.57	-66.73
ILF&S	25.08	0.00	-25.08	3.39	0.00	-3.39	6.20	1.34	4.86	-23.61
NLC	0.00	0.00	0.00	140.46	0.00	-140.46	15.80	64.27	-48.47	-188.93
SEMBCORP	547.91	0.00	-547.91	116.98	0.00	-116.98	11.29	3.14	8.15	-656.74
NETCL VALLU	0.00	0.00	0.00	0.00	0.00	0.00	16.32	0.87	15.45	15.45
NTPC -ER	0.00	0.00	0.00	2.54	0.00	-2.54	42.70	29.41	13.30	10.75
MAITHON POV	0.00	0.00	0.00	5.06	0.00	-5.06	3.16	4.12	-0.96	-6.02
ADHUNIK P	94.64	0.00	-94.64	0.00	0.00	0.00	1.44	1.77	-0.33	-94.96
CHUZACHEN I	0.00	0.00	0.00	8.67	0.00	-8.67	0.61	0.79	-0.18	-8.85
GMR KAMALA	0.71	0.00	-0.71	2.06	0.00	-2.06	8.35	3.28	5.06	2.30
JITPL	48.53	0.00	-48.53	32.54	0.00	-32.54	2.58	6.93	-4.35	-85.41
TEESTA HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.07	6.36	-6.29	-6.29
DAGACHU	27.97	0.00	-27.97	0.00	0.00	0.00	12.47	0.00	12.47	-15.50
JORETHANG	0.00	0.00	0.00	7.83	0.00	-7.83	1.76	0.85	0.90	-6.92
NEPAL(NVVN)	0.00	89.06	89.06	0.00	0.00	0.00	82.11	11.76	70.34	159.40
BANGLADESH	0.00	106.09	106.09	0.00	0.00	0.00	6.66	2.96	3.71	109.79
TEESTA STG3	2.25	0.00	-2.25	140.63	0.00	-140.63	3.02	2.65	0.37	-142.51
DIKCHU HEP	0.00	0.00	0.00	6.29	0.00	-6.29	0.35	0.35	0.00	-6.29
TASHIDENG H	0.00	0.00	0.00	8.43	0.00	-8.43	1.44	0.61	0.83	-7.60
NTPC NER	0.00	0.00	0.00	7.88	0.00	-7.88	0.00	0.00	0.00	-7.88
NEEPCO STN:	0.00	0.00	0.00	0.00	0.00	0.00	1.04	6.61	-5.56	-5.56
RANGANADI H	0.00	0.00	0.00	0.00	0.00	0.00	1.44	1.21	0.23	0.23
DOYANG HEP	0.00	0.00	0.00	0.00	0.00	0.00	0.35	0.34	0.00	0.00
ONGC PALATA	48.36	0.00	-48.36	0.29	0.00	-0.29	0.00	0.00	0.00	-48.65
Source: NLDC	,									
* :										

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

^{** (-)} indicates sale and (+) indicates purchase,

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



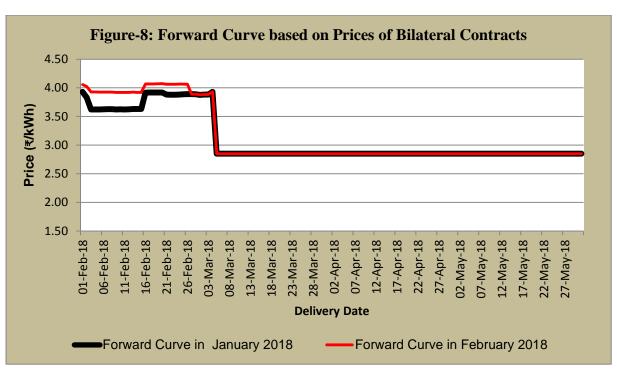


Table-20 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, JANUARY 2018						
Sr.No.	Details of REC Transactions	IEX	PXIL			
	Details of NEC Transactions	Non-Solar	Non Solar			
А	Volume of Buy Bid	182254	1048572			
В	Volume of Sell Bid	2327874	3432528			
С	Ratio of Buy Bid to Sell Bid Volume	0.08	0.31			
D	Market Clearing Volume (MWh)	182254	1048572			
Е	Market Clearing Price (₹/MWh)	1500	1500			

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

Forbearance and Floor Price w.e.f 1st March 2015						
Type of REC	Floor Price (₹MWh)	Forbearance Price (₹MWh)				
Non-Solar	1500.00	3300.00				