

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

May, 2014



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Central Electricity Regulatory Commission  
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## Abbreviations

Abbreviation	Expanded Version
ACBIL	ACB ( India) Limited
ACP	Area Clearing Price
ACV	Area Clearing Volume
AD HYDRO	AD Hydro Power Limited
BALCO	Bharat Aluminium Company Limited
CEA	Central Electricity Authority
CERC	Central Electricity Regulatory Commission
CGPL	Coastal Gujarat Power Limited
CHUZACHEN HEP	Chuzachen Hydro electric power project
DCPP	Donga Mahua Captive Power Plant
DOYANG HEP	Doyang Hydro electric power project
DVC	Damodar Valley Corporation
EMCO	EMCO Energy Limited
ESSAR STEEL	Essar Steel Ltd
GMR KAMALANGA	GMR Kamalanga Energy Ltd.
IEX	Indian Energy Exchange Limited
J&K	Jammu & Kashmir
JINDAL POWER	Jindal Power Limited
JINDAL STAGE-II	Jindal Power Ltd Stage II
KARCHAM WANGTOO	Jaypee Karcham Hydro Corporation Limited
LANCO BUDHIL	Lanco Budhil Hydro Power Private Limited
LANKO_AMK	Lanco Amarkantak Power Private Limited
MALANA	Malana Hydroelectric Plant
Meenakshi	Meenakshi Energy Private Limited
MP	Madhya Pradesh
MUs	Million Units
NEEPCO Stations	North Eastern Electric Power Corporation Limited. Stations
NHPC Stations	National Hydro Electric Power Corporation Ltd. Stations
NJPC	Nathpa Jhakri Hydroelectric Power Station
NLDC	National Load Despatch Centre
NSPCL	NTPC - SAIL Power Company Private Limited
ONGC PALATANA	Oil and Natural Gas Corporation, Palatana
PX	Power Exchange
PXIL	Power Exchange India Limited
RANGANADI HEP	Ranganadi Hydro Electric Project
REC	Renewable Energy Certificate
RGPPL	Ratnagiri Gas and Power Private Limited
RLDC	Regional Load Despatch Centre
RTC	Round - the- Clock
SHREE CEMENT	Shree Cement Limited
SIMHAPURI	Simhapuri Energy Private Limited
SR Grid	Southern Regional Grid
STERLITE	Sterlite Energy Limited
UI	Unscheduled Interchange
UT	Union Territory
VANDANA VIDYUT	Vandana Vidyut Limited

## **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 & 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 Unscheduled Interchange (UI). 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 analysis of the report for the month of May, 2014 is as under:

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

During the month of May 2014, total electricity generation excluding generation from renewable and captive power plants in India was 89661.58 MUs (Table-1).

Of the total electricity generation, 7652.17 MUs (8.53%) were transacted through short-term, comprising of 3709.29 MUs (4.14%) through Bilateral (through traders and term-ahead contracts on Power Exchanges and directly between distribution companies), followed by 2382.99 MUs (2.66%) through day ahead collective transactions on Power Exchanges (IEX and PXIL) and 1559.89 MUs (1.74%) through UI (Table-1 & Figure-2).

Of the total short-term transactions, Bilateral constitute 48.47% (37.46% through traders and term-ahead contracts on Power Exchanges and 11.01% directly between distribution companies) followed by 31.14% through day ahead collective transactions on Power Exchanges and 20.39% through UI (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 trading licensees is provided in Table-2 & Figure-4. The trading licensees undertake electricity transactions through bilateral and through power exchanges. Here, the volume of electricity transacted by the trading licensees includes bilateral transactions and the transactions undertaken through power exchanges. There were 44 trading

licensees as on 31.05.2014, of which only 21 have engaged in trading during May 2014. Top 5 trading licensees had a share of 73.22% in the total volume traded by all the licensees.

Herfindahl-Hirschman Index (HHI) has been used for measuring the competition among the trading licensees. Increase in the HHI generally indicates a decrease in competition and an increase of market power, whereas decrease indicates the opposite. A HHI below 0.15 indicates non-concentration, a HHI between 0.15 to 0.25 indicates moderate concentration and a HHI above 0.25 indicates high concentration. The HHI computed for volume of electricity traded by trading licensees (inter-state & intra-state) was 0.1921 for the month of May 2014, which indicates that there was moderate concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day ahead market was 2347.53 MUs and 35.46 MUs respectively. The volume of total Buy bids and Sale bids was 3354.91 MUs and 3190.92 MUs respectively in IEX and 86.17 MUs and 64.16 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was more demand in IEX (1.05 times) and PXIL (1.34 times) when compared with the supply offered through these exchanges.

The volume of electricity transacted through IEX and PXIL in the term-ahead market was 39.86 MUs and 91.06 MUs respectively (Table-6 & Table-7).

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

**(i) Price of electricity transacted through Traders:** Weighted average sale price has been computed for the electricity transacted through traders and it was ₹4.41/kWh. Weighted average sale price was also computed for the transactions during Round the Clock (RTC), Peak, and Off-Peak periods separately, and the sale prices were ₹4.50/kWh, ₹3.32/kWh and ₹3.46/kWh respectively. Minimum and Maximum sale prices were ₹2.64/kWh and ₹6.99/kWh respectively (Table-3 & 4).

**(ii) Price of electricity transacted Through Power Exchanges:** 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 ₹1.55/kWh, ₹20.00/kWh and ₹3.26/kWh respectively in IEX and ₹1.00/kWh, ₹5.00/kWh and ₹3.15/kWh respectively in PXIL (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹3.58/kWh and ₹3.30/kWh respectively (Table-6 and Table-7).

**(iii) Price of electricity transacted Through UI:** The average UI price was ₹2.09/kWh for all India grid. Minimum and Maximum UI prices were ₹0.00/kWh and ₹8.24/kWh respectively in the All India Grid.

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

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

Of the total bilateral transactions, top 5 regional entities sold 54.21% of the volume, and these were Rajasthan, Karnataka, Jammu & Kashmir, Jindal Power Ltd and Gujarat. Top 5 regional entities purchased 56.84% of the volume, and these were Andhra Pradesh, Uttar Pradesh, Delhi, Haryana and West Bengal (Table-9, 10 & 19).

Of the total Power Exchange transactions, top 5 regional entities sold 50.38% of the volume, and these were Himachal Pradesh, Gujarat, Delhi, Sterlite Energy Ltd. and Jaypee Karcham Hydro Corporation Ltd. Top 5 regional entities purchased 57.80% of the volume, and these were Essar Steel Ltd., Andhra Pradesh, Rajasthan, Maharashtra and Uttar Pradesh. (Table-11, 12 & 19).

Of the total UI transactions, top 5 regional entities underdrew 41.05% of the volume, and these were Uttar Pradesh, Gujarat, Delhi, Haryana and Rajasthan. Top 5 regional entities overdrew 39.04% of the volume, and these were Punjab, Maharashtra, West Bengal, Haryana and Rajasthan (Table-13, 14 & 19).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchanges and UI is shown in Table-15 & 19. Top 5 electricity selling regional entities were Himachal Pradesh, Jindal Power Ltd., Karnataka, Gujarat and Jaypee Karcham Hydro Corporation Ltd. Top 5 electricity purchasing regional entities were Andhra Pradesh, Uttar Pradesh, Maharashtra, Punjab and Essar Steel Ltd.

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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.

## **IV: Congestion<sup>2</sup> 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”<sup>3</sup>.

In the month of May 2014, congestion occurred in both the power exchanges, the details of which 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 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 the power exchanges due to congestion was 8.19% and 9.70% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 100.00% in IEX and 75% in PXIL.

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

The concept of Renewable Energy Certificates (RECs) seeks to address mismatch between availability of renewable energy sources 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 market in electricity.

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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.



One REC is equivalent to 1 MWh of 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 session was held on power exchanges in March 2011.

The details of REC transactions for the month of May 2014 are shown in Table-20. The market clearing volume of Solar RECs transacted on IEX and PXIL were 469 and 1651 respectively and the market clearing price of these RECs was ₹9300/MWh on both the power exchanges. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 16142 and 13113 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

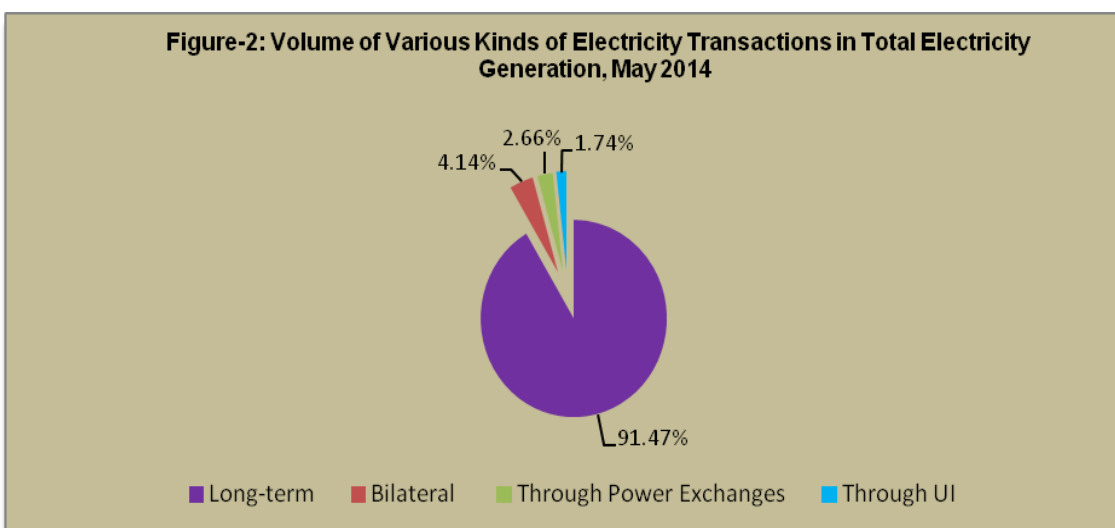
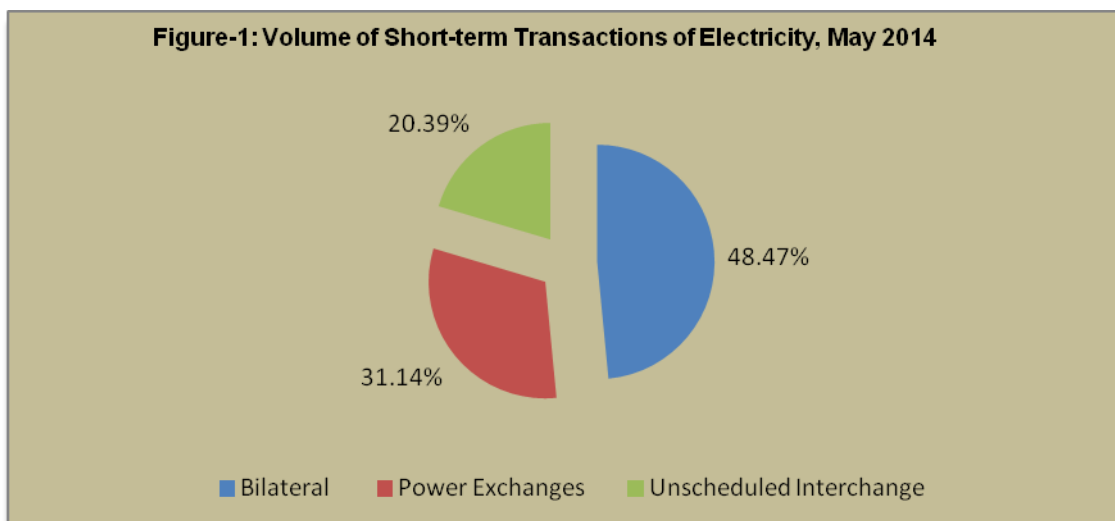
The gap between the volume of buy and sell bids of RECs placed through power exchanges show that there was less demand for Solar RECs and Non-Solar RECs. For Solar RECs, the ratio of buy and sell bids was 0.003 and 0.049 in IEX and PXIL respectively. For Non-Solar RECs, the ratio of buy and sell bids was 0.004 in both IEX and PXIL.

## VI: Inferences:

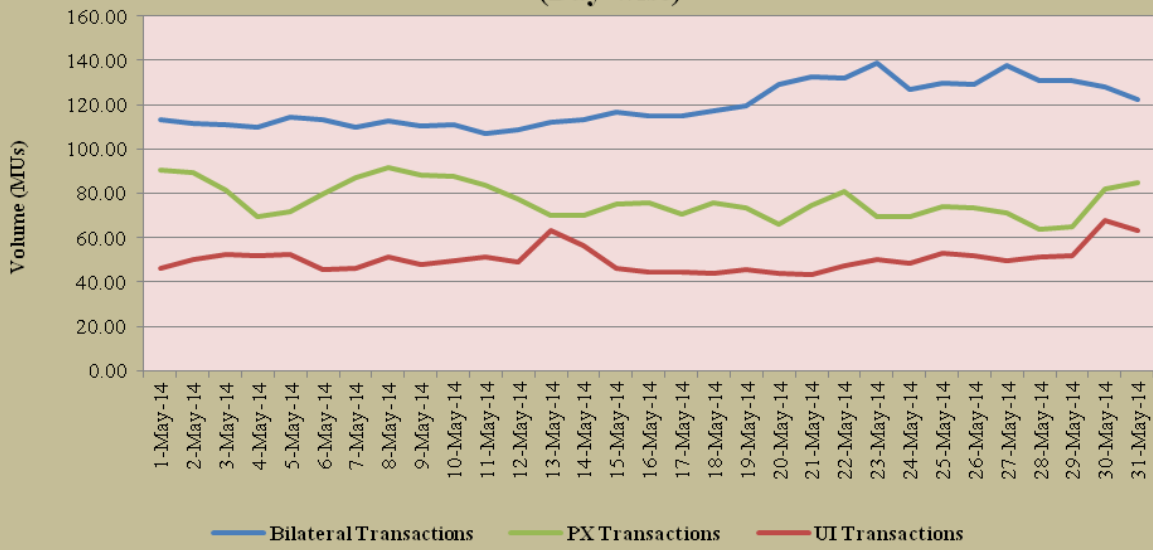
- The percentage of short-term transactions of electricity to total electricity generation was 8.53%.
- Of the total short-term transactions of electricity, 48.47% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 31.14% through Power Exchanges and 20.39% through UI.
- Top 5 trading licensees had a share of 73.22% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1921, indicating moderate concentration of market power.
- The price of electricity transacted through trading licensees (₹4.41/kWh) was higher when compared with the price of electricity transacted through IEX (₹3.26/kWh) and PXIL (₹3.15/kWh) respectively.
- The price of electricity transacted through UI was ₹2.09/kWh
- The gap between the volume of buy bids and sale bids placed through power exchanges indicates that there was more demand in IEX (1: 1.05) and PXIL (1: 1.34) when compared with the supply offered through these exchanges.
- Top 5 electricity selling regional entities were Himachal Pradesh, Jindal Power Ltd., Karnataka, Gujarat and Jaypee Karcham Hydro Corporation Ltd. Top 5 electricity purchasing regional entities were Andhra Pradesh, Uttar Pradesh, Maharashtra, Punjab and Essar Steel Ltd.
- The volume of electricity that could not be cleared in the power exchanges due to congestion was 8.19% and 9.70% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 100.00% in IEX and 75% in PXIL.
- The market clearing volume of Solar RECs transacted on IEX and PXIL were 469 and 1651 respectively and the market clearing price of these RECs was ₹9300/MWh on both the power exchanges. Market clearing volume of Non-Solar RECs transacted on IEX and PXIL were 16142 and 13113 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), MAY 2014				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	3709.29	48.47%	4.14%
	(i) Through Traders and PXs	2866.72	37.46%	3.20%
	(ii) Direct	842.57	11.01%	0.94%
2	Through Power Exchanges	2382.99	31.14%	2.66%
	(i) IEX	2347.53	30.68%	2.62%
	(ii) PXIL	35.46	0.46%	0.04%
3	Through UI	1559.89	20.39%	1.74%
	<b>Total</b>	<b>7652.17</b>	<b>100.00%</b>	<b>8.53%</b>
	<b>Total Generation</b>	<b>89661.58</b>	—	—

Source: NLDC



**Figure-3: Volume of Short-term Transactions of Electricity, May 2014  
(Day-wise)**



<b>Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, MAY 2014</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.	39.23%	0.1539
2	JSW Power Trading Company Ltd	10.27%	0.0105
3	Adani Enterprises Ltd.	8.63%	0.0074
4	Tata Power Trading Company (P) Ltd.	8.57%	0.0073
5	Mittal Processors (P) Ltd.	6.53%	0.0043
6	NTPC Vidyut Vyapar Nigam Ltd.	4.97%	0.0025
7	Knowledge Infrastructure Systems (P) Ltd	4.52%	0.0020
8	Reliance Energy Trading (P) Ltd	3.68%	0.0014
9	Jaiprakash Associates Ltd.	3.60%	0.0013
10	Manikaran Power Ltd.	2.00%	0.0004
11	GMR Energy Trading Ltd.	1.78%	0.0003
12	Shree Cement Ltd.	1.65%	0.0003
13	National Energy Trading & Services Ltd.	1.30%	0.0002
14	RPG Power Trading Company Ltd.	1.10%	0.0001
15	Instinct Infra & Power Ltd.	0.94%	0.0001
16	Arunachal Pradesh Power Corporation (P) ltd	0.58%	0.0000
17	SN Power Markets Pvt. Ltd.	0.41%	0.0000
18	Customized Energy Solutions India (P) Ltd.	0.10%	0.0000
19	Essar Electric Power Development Corp. Ltd.	0.08%	0.0000
20	Pune Power Development (P) Ltd.	0.03%	0.0000
21	My Home Power Private Ltd.	0.03%	0.0000
<b>TOTAL</b>		<b>100.00%</b>	<b>0.1921</b>
<b>Top 5 trading licensees</b>		<b>73.22%</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>			

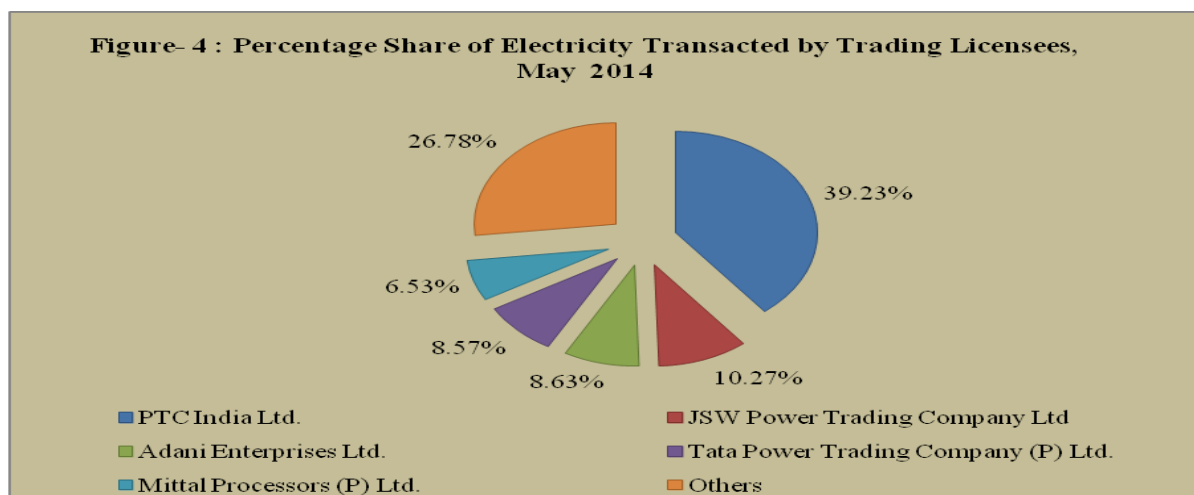


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, MAY 2014		
Sr.No		Sale Price of Traders (₹/kWh)
1	Minimum	2.64
2	Maximum	6.99
3	Weighted Average	4.41

Source: Information submitted by trading licensees

Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), MAY 2014		
Sr.No	Period of Trade	Sale Price of Traders (₹/kWh)
1	RTC	4.50
2	PEAK	3.32
3	OFF PEAK	3.46

Source: Information submitted by trading licensees

Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, MAY 2014			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)
1	Minimum	1.55	1.00
2	Maximum	20.00	5.00
3	Weighted Average	3.26	3.15

Source: Information submitted by IEX and PXIL

Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, MAY 2014			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	16.69	3.92
2	Day Ahead Contingency Contracts	4.87	4.04
3	Weekly Contracts	18.30	3.14
	<b>Total</b>	<b>39.86</b>	<b>3.58</b>

Source: IEX

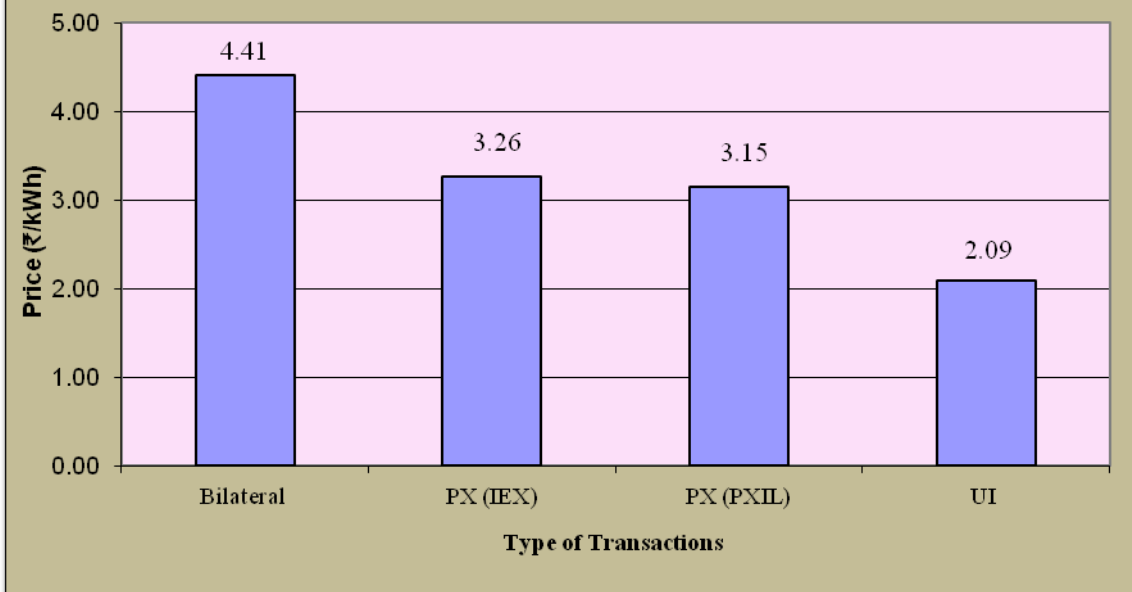
Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, MAY 2014			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)
1	Intra-Day Contracts	5.03	3.95
2	Daily Contracts	16.50	3.76
3	Weekly Contracts	69.53	3.14
	<b>Total</b>	<b>91.06</b>	<b>3.30</b>

Source: PXIL

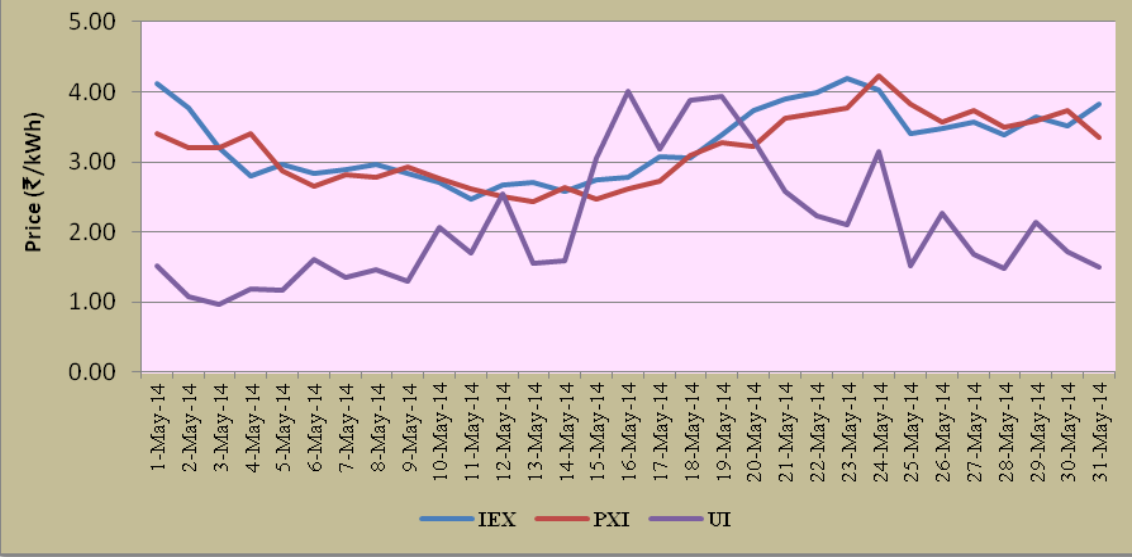
Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH UI, MAY 2014		
Sr.No		Price in All India Grid (₹/kWh)
1	Minimum	0.00
2	Maximum	8.24
3	Average	2.09

Source: NLDC

**Figure-5: Price of Short-term Transactions of Electricity, May 2014**



**Figure-6: Price of Short-term Transactions of Electricity, May 2014 (Day-wise)**



<b>Table-9: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL, MAY 2014</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
Rajasthan	451.91	14.24%
Karnataka	377.96	11.91%
J & K	333.54	10.51%
JINDAL POWER	327.88	10.33%
Gujarat	228.89	7.21%
SIMHAPURI	227.33	7.16%
Himachal Pradesh	174.20	5.49%
SHREE CEMENT	146.72	4.62%
KARCHAM WANGTOO	139.20	4.39%
West Bengal	133.17	4.20%
STERLITE	99.51	3.14%
Orissa	57.97	1.83%
Kerala	54.94	1.73%
DVC	52.74	1.66%
DCPP	48.34	1.52%
MAITHON POWER LTD	44.59	1.41%
Delhi	42.44	1.34%
Haryana	42.04	1.33%
ACBIL	40.71	1.28%
NSPCL	38.28	1.21%
Meghalaya	33.86	1.07%
Chattisgarh	18.22	0.57%
MP	15.63	0.49%
Uttarakhand	14.88	0.47%
Tamilnadu	10.20	0.32%
Jharkhand	7.44	0.23%
Andhra Pradesh	5.42	0.17%
Maharashtra	3.76	0.12%
Tripura	1.16	0.04%
<b>Total</b>	<b>3172.92</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>1720.17</b>	<b>54.21%</b>



<b>Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL, MAY 2014</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
Andhra Pradesh	702.33	20.13%
Uttar Pradesh	473.90	13.58%
Delhi	333.12	9.55%
Haryana	252.05	7.22%
West Bengal	221.40	6.35%
Maharashtra	200.19	5.74%
Bihar	193.78	5.55%
Uttarakhand	171.65	4.92%
Punjab	157.10	4.50%
Jharkhand	132.27	3.79%
Kerala	122.36	3.51%
Dadra & Nagar Haveli	110.11	3.16%
Orissa	83.65	2.40%
Tamilnadu	63.98	1.83%
Assam	49.88	1.43%
Chattisgarh	49.27	1.41%
Goa	43.82	1.26%
Meghalaya	28.98	0.83%
Rajasthan	26.35	0.76%
Daman and Diu	14.28	0.41%
Karnataka	13.64	0.39%
Nagaland	12.91	0.37%
DVC	8.79	0.25%
UT Chandigarh	7.44	0.21%
Tripura	4.79	0.14%
Gujarat	4.64	0.13%
Sikkim	2.78	0.08%
J & K	2.22	0.06%
Meenakshi	0.99	0.03%
<b>Total</b>	<b>3488.69</b>	<b>100.00%</b>
<b>Volume of Purchase by top 5 States</b>	<b>1982.81</b>	<b>56.84%</b>

<b>Table-11: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGES, MAY 2014</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
Himachal Pradesh	346.58	14.54%
Gujarat	220.11	9.24%
Delhi	218.97	9.19%
STERLITE	211.14	8.86%
KARCHAM WANGTOO	203.75	8.55%
Karnataka	133.15	5.59%
JINDAL POWER	119.95	5.03%
Chattisgarh	104.05	4.37%
Orissa	79.45	3.33%
Haryana	65.01	2.73%
AD HYDRO	59.62	2.50%
West Bengal	49.72	2.09%
MP	47.03	1.97%
DCPP	39.73	1.67%
ACBIL	38.13	1.60%
Andhra Pradesh	37.62	1.58%
Rajasthan	37.05	1.55%
LANCO BUDHIL	35.32	1.48%
J & K	31.95	1.34%
JINDAL STAGE-II	29.59	1.24%
MAITHON POWER LTD	28.68	1.20%
DVC	28.44	1.19%
Sikkim	24.27	1.02%
SHREE CEMENT	24.18	1.01%
Tripura	23.12	0.97%
SIMHAPURI	17.75	0.74%
NJPC	16.61	0.70%
Maharashtra	14.22	0.60%
Assam	13.17	0.55%
CHUZACHEN HEP	12.49	0.52%
VANDANA VIDYUT	12.03	0.50%
Meghalaya	10.98	0.46%
BALCO	10.01	0.42%
ONGC PALATANA	9.34	0.39%
EMCO	8.30	0.35%
NEEPCO Stations	5.83	0.24%
GMR KAMALANGA	4.26	0.18%
Uttarakhand	4.08	0.17%
MALANA	2.99	0.13%
ADHUNIK POWER LTD	1.24	0.05%
RANGANADI HEP	1.08	0.05%
Kerala	0.85	0.04%
Meenakshi	0.81	0.03%
Mizoram	0.33	0.01%
DOYANG HEP	0.02	0.00%
<b>Total</b>	<b>2382.99</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>1200.55</b>	<b>50.38%</b>

<b>Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES, MAY 2014</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
ESSAR STEEL	337.77	14.17%
Andhra Pradesh	292.88	12.29%
Rajasthan	269.13	11.29%
Maharashtra	239.04	10.03%
Uttar Pradesh	238.47	10.01%
Gujarat	184.40	7.74%
Punjab	177.08	7.43%
Bihar	138.68	5.82%
Haryana	111.24	4.67%
West Bengal	94.44	3.96%
Uttarakhand	91.76	3.85%
Assam	51.72	2.17%
MP	43.14	1.81%
Karnataka	34.75	1.46%
Daman and Diu	31.18	1.31%
Delhi	14.66	0.62%
Meghalaya	9.45	0.40%
J & K	7.16	0.30%
Arunachal Pradesh	3.96	0.17%
Orissa	3.38	0.14%
Himachal Pradesh	2.67	0.11%
Tripura	2.32	0.10%
Chattisgarh	1.85	0.08%
UT Chandigarh	0.87	0.04%
Tamilnadu	0.84	0.04%
Manipur	0.15	0.01%
<b>Total</b>	<b>2382.99</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>1377.29</b>	<b>57.80%</b>

<b>Table-13: VOLUME OF ELECTRICITY EXPORT THROUGH UI, MAY 2014</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Export (MUs)</b>	<b>% of Volume</b>
Uttar Pradesh	144.32	12.30%
Gujarat	115.97	9.88%
Delhi	83.06	7.08%
Haryana	73.06	6.23%
Rajasthan	65.24	5.56%
Tamilnadu	63.70	5.43%
Bihar	59.70	5.09%
Chattisgarh	53.37	4.55%
Maharashtra	52.60	4.48%
MP	47.85	4.08%
NHPC Stations	36.10	3.08%
Orissa	32.16	2.74%
Jharkhand	31.71	2.70%
Andhra Pradesh	29.58	2.52%
Punjab	28.22	2.41%
DVC	25.47	2.17%
Uttarakhand	22.93	1.95%
J & K	22.33	1.90%
Karnataka	20.20	1.72%
West Bengal	17.85	1.52%
Goa	15.10	1.29%
Assam	12.68	1.08%
Himachal Pradesh	12.38	1.06%
JINDAL POWER	10.58	0.90%
STERLITE	10.45	0.89%
Sikkim	9.82	0.84%
CGPL	9.60	0.82%
NJPC	8.58	0.73%
KARCHAM WANGTOO	7.26	0.62%
Manipur	4.80	0.41%
Daman and Diu	4.80	0.41%
Pondicherry	4.08	0.35%
NEEPCO Stations	4.08	0.35%
MAITHON POWER LTD	3.90	0.33%
Kerala	2.91	0.25%
Dadra & Nagar Haveli	2.79	0.24%
UT Chandigarh	2.67	0.23%
Nagaland	2.49	0.21%
SHREE CEMENT	2.43	0.21%
LANKO_AMK	2.34	0.20%
AD HYDRO	2.15	0.18%
NSPCL	2.04	0.17%
ACBIL	1.91	0.16%
SIMHAPURI	1.75	0.15%
DCPP	1.70	0.15%
BALCO	1.41	0.12%
Meghalaya	1.09	0.09%
Tripura	0.84	0.07%
Arunachal Pradesh	0.56	0.05%
Mizoram	0.50	0.04%
RGPPL(Dabhol)	0.06	0.00%
<b>Total</b>	<b>1173.21</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>481.65</b>	<b>41.05%</b>

**Table-14: VOLUME OF ELECTRICITY IMPORT THROUGH UI, MAY 2014**

<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Import (MUs)</b>	<b>% of Volume</b>
Punjab	118.73	9.11%
Maharashtra	113.29	8.69%
West Bengal	109.22	8.38%
Haryana	102.29	7.85%
Rajasthan	65.17	5.00%
J & K	53.14	4.08%
Kerala	52.28	4.01%
Andhra Pradesh	50.07	3.84%
Uttar Pradesh	49.72	3.82%
Bihar	44.37	3.41%
Orissa	38.58	2.96%
MP	37.85	2.90%
Karnataka	35.18	2.70%
Himachal Pradesh	31.82	2.44%
DVC	27.82	2.14%
Chattisgarh	27.05	2.08%
Uttarakhand	26.10	2.00%
Goa	24.16	1.85%
UT Chandigarh	20.75	1.59%
KARCHAM WANGTOO	18.28	1.40%
Tamilnadu	17.72	1.36%
NHPC Stations	17.61	1.35%
Assam	15.98	1.23%
Gujarat	14.64	1.12%
Meghalaya	14.25	1.09%
Jharkhand	14.13	1.08%
Arunachal Pradesh	14.10	1.08%
STERLITE	13.92	1.07%
Delhi	13.90	1.07%
Tripura	13.61	1.04%
CGPL	12.19	0.94%
Dadra & Nagar Haveli	9.65	0.74%
DCPP	9.38	0.72%
ACBIL	7.01	0.54%
Manipur	6.99	0.54%
RGPPL(Dabhol)	6.65	0.51%
JINDAL POWER	6.15	0.47%
Daman and Diu	5.37	0.41%
NJPC	5.16	0.40%
Mizoram	4.89	0.38%
MAITHON POWER LTD	4.83	0.37%
Nagaland	4.70	0.36%
Pondicherry	4.63	0.36%
BALCO	3.76	0.29%
AD HYDRO	3.39	0.26%
SIMHAPURI	3.28	0.25%
NEEPCO Stations	3.00	0.23%
NSPCL	1.89	0.15%
SHREE CEMENT	1.74	0.13%
Sikkim	1.49	0.11%
LANKO_AMK	1.07	0.08%
<b>Total</b>	<b>1302.93</b>	<b>100.00%</b>
<b>Volume of Import by top 5 States</b>	<b>508.69</b>	<b>39.04%</b>

<b>Table-15: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), MAY 2014</b>		
<b>Sr.No.</b>	<b>Name of the State/UT/Other Regional Entity</b>	<b>Total volume of net short-term transactions of electricity*</b>
1	Andhra Pradesh	972.65
2	Uttar Pradesh	617.77
3	Maharashtra	481.94
4	Punjab	424.68
5	ESSAR STEEL	337.77
6	Bihar	317.13
7	Haryana	285.47
8	Uttarakhand	247.63
9	West Bengal	224.33
10	Dadra & Nagar Haveli	116.97
11	Kerala	115.94
12	Jharkhand	107.24
13	Assam	91.74
14	Goa	52.87
15	Daman and Diu	46.04
16	UT Chandigarh	26.38
17	Arunachal Pradesh	17.50
18	Delhi	17.20
19	Nagaland	15.12
20	Tamilnadu	8.64
21	Meghalaya	6.74
22	RGPPL(Dabhol)	6.59
23	Mizoram	4.06
24	CGPL	2.59
25	Manipur	2.35
26	Pondicherry	0.55
27	Meenakshi	0.18
28	DOYANG HEP	-0.02
29	RANGANADI HEP	-1.08
30	ADHUNIK POWER LTD	-1.24
31	LANKO_AMK	-1.28
32	MALANA	-2.99
33	GMR KAMALANGA	-4.26
34	Tripura	-4.39
35	NEEPCO Stations	-6.91
36	BALCO	-7.66
37	EMCO	-8.30
38	ONGC PALATANA	-9.34
39	VANDANA VIDYUT	-12.03
40	CHUZACHEN HEP	-12.49
41	NHPC Stations	-18.81
42	NJPC	-20.03
43	MP	-29.52
44	JINDAL STAGE-II	-29.59
45	Sikkim	-29.81
46	LANCO BUDHIL	-35.32
47	NSPCL	-38.43
48	Orissa	-43.97
49	AD HYDRO	-58.38
50	DVC	-70.04
51	MAITHON POWER LTD	-72.34
52	ACBIL	-73.74
53	DCPP	-80.40

54	Chattisgarh	-97.48
55	SHREE CEMENT	-171.58
56	Rajasthan	-193.55
57	SIMHAPURI	-243.56
58	STERLITE	-307.19
59	J & K	-325.31
60	KARCHAM WANGTOO	-331.93
61	Gujarat	-361.29
62	Karnataka	-447.74
63	JINDAL POWER	-452.26
64	Himachal Pradesh	-498.68
* 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-16: DETAILS OF CONGESTION IN POWER EXCHANGES, MAY 2014</b>			
	<b>Details of Congestion</b>	<b>IEX</b>	<b>PXIL</b>
A	Unconstrained Cleared Volume* (MUs)	2557.03	39.27
B	Actual Cleared Volume and hence scheduled (MUs)	2347.53	35.46
C	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	209.51	3.81
D	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	8.19%	9.70%
E	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	100.00%	75.00%
F	Congestion occurrence (%) time block wise		
	0.00 - 6.00 hours	25.00%	25.76%
	6.00 - 12.00 hours	25.00%	25.72%
	12.00 - 18.00 hours	25.00%	24.73%
	18.00 - 24.00 hours	25.00%	23.79%
<i>* This power would have been scheduled had there been no congestion.</i>			
<i>Source: IEX &amp; PXIL</i>			



<b>Table-17: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (MUs) (DAY-WISE), MAY 2014</b>						
Date	Bilateral		Power Exchange (Area Clearing Volume# of Day Ahead Market)		Unscheduled Interchange (Over Drawl+Under Generation)	Total Electricity Generation (MU) as given at CEA Website*
	Through Traders and PXs**	Direct	IEX	PXI		
1-May-14	89.29	23.71	89.37	1.15	46.21	2929.57
2-May-14	85.01	26.33	87.35	1.91	50.34	2891.96
3-May-14	84.92	26.16	79.84	1.65	52.61	2901.16
4-May-14	83.41	26.44	68.65	0.72	52.01	2835.91
5-May-14	88.45	25.85	70.95	0.62	52.17	2871.72
6-May-14	87.04	26.09	78.75	0.74	45.58	2952.11
7-May-14	84.16	25.85	86.35	0.81	45.97	2931.93
8-May-14	85.74	26.66	90.70	1.01	51.55	2849.98
9-May-14	85.12	25.19	87.01	1.20	47.64	2862.59
10-May-14	83.92	27.30	86.88	0.90	49.67	2804.67
11-May-14	80.74	26.00	82.79	0.77	51.51	2797.80
12-May-14	82.04	26.91	76.94	0.59	49.13	2862.93
13-May-14	81.98	30.19	69.42	0.64	62.98	2792.93
14-May-14	84.55	28.94	69.37	0.57	56.14	2803.55
15-May-14	86.98	29.93	74.36	0.85	46.34	2885.94
16-May-14	86.44	28.45	74.58	0.94	44.72	2893.04
17-May-14	87.46	27.52	69.25	1.36	44.24	2836.35
18-May-14	89.21	27.85	74.19	1.52	44.10	2868.74
19-May-14	91.33	27.92	72.27	1.07	45.52	2929.93
20-May-14	102.56	26.85	64.75	1.48	43.83	2974.90
21-May-14	105.24	27.13	72.73	1.96	43.18	3001.23
22-May-14	105.33	26.58	78.72	1.91	47.04	3004.75
23-May-14	112.23	26.53	68.19	1.34	50.04	2971.63
24-May-14	98.89	27.77	67.80	1.53	48.63	2952.10
25-May-14	102.13	27.77	72.67	1.23	53.20	2822.80
26-May-14	102.41	26.91	72.42	1.26	51.89	2824.51
27-May-14	110.88	26.98	70.59	0.82	49.69	2918.02
28-May-14	103.59	27.01	62.83	1.02	51.04	2938.15
29-May-14	104.16	26.75	64.21	0.90	51.72	2944.02
30-May-14	97.41	30.84	80.24	1.55	67.97	2908.86
31-May-14	94.12	28.17	83.39	1.44	63.24	2897.80
<b>Total</b>	<b>2866.72</b>	<b>842.57</b>	<b>2347.53</b>	<b>35.46</b>	<b>1559.89</b>	<b>89661.58</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.

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

**Table-18: PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (₹/kWh), MAY 2014 (DAY-WISE)**

Market Segment	Day ahead market of IEX			Day ahead market of PXIL			Under Draw/Over Draw from the Grid (UI)		
	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	All India Grid		
Date	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	Mini-mum ACP	Maxi-mum ACP	Weighted Average Price*	Mini-mum Price	Maxi-mum Price	Average Price**
1-May-14	2.10	7.00	4.12	3.20	4.80	3.41	0.00	5.95	1.51
2-May-14	1.98	7.00	3.77	3.20	3.20	3.20	0.00	5.32	1.09
3-May-14	1.84	6.50	3.21	3.20	4.80	3.21	0.00	6.36	0.98
4-May-14	1.68	6.25	2.80	3.16	3.95	3.41	0.00	5.32	1.19
5-May-14	1.74	6.00	2.96	2.85	3.80	2.88	0.00	5.32	1.18
6-May-14	1.75	5.50	2.84	1.90	3.65	2.65	0.00	5.32	1.60
7-May-14	1.75	6.00	2.89	1.75	3.89	2.81	0.00	5.11	1.35
8-May-14	1.75	5.50	2.96	1.75	3.65	2.78	0.00	6.36	1.47
9-May-14	1.75	5.50	2.83	1.80	3.80	2.92	0.00	5.74	1.30
10-May-14	1.70	3.67	2.71	1.75	3.80	2.76	0.00	5.95	2.07
11-May-14	1.70	3.00	2.48	1.75	3.50	2.62	0.00	6.16	1.70
12-May-14	1.70	5.10	2.67	1.70	3.50	2.51	0.00	5.95	2.54
13-May-14	1.76	5.21	2.71	1.21	3.50	2.43	0.00	8.03	1.55
14-May-14	1.62	5.21	2.59	1.70	3.00	2.63	0.00	6.16	1.60
15-May-14	1.60	5.21	2.75	1.50	3.20	2.47	0.00	8.03	3.06
16-May-14	1.58	5.21	2.78	1.68	3.20	2.61	0.00	8.24	4.01
17-May-14	1.59	5.21	3.07	1.00	3.25	2.73	0.00	8.24	3.18
18-May-14	1.55	20.00	3.05	1.65	3.90	3.10	0.00	8.24	3.89
19-May-14	1.59	20.00	3.39	2.70	4.00	3.27	0.00	8.03	3.94
20-May-14	2.30	16.00	3.73	2.60	3.90	3.22	0.00	7.82	3.32
21-May-14	2.61	20.00	3.89	3.25	4.50	3.63	0.00	6.36	2.57
22-May-14	2.80	20.00	3.98	2.70	4.50	3.69	0.00	6.36	2.22
23-May-14	2.77	20.00	4.18	2.85	4.95	3.77	0.00	6.16	2.10
24-May-14	2.76	20.00	4.02	3.12	5.00	4.22	0.00	6.36	3.14
25-May-14	2.20	20.00	3.40	2.80	4.80	3.83	0.00	6.36	1.52
26-May-14	2.28	18.00	3.48	2.55	4.70	3.56	0.00	8.24	2.28
27-May-14	2.47	18.00	3.57	3.08	4.30	3.74	0.00	5.11	1.69
28-May-14	2.20	9.01	3.39	2.90	3.77	3.49	0.00	7.20	1.49
29-May-14	2.05	8.51	3.64	3.00	4.40	3.59	0.00	8.24	2.13
30-May-14	2.50	7.51	3.52	2.96	3.90	3.74	0.00	8.03	1.72
31-May-14	2.57	7.01	3.83	2.60	3.70	3.35	0.00	7.20	1.50
	<b>1.55#</b>	<b>20.00#</b>	<b>3.26</b>	<b>1.00#</b>	<b>5.00#</b>	<b>3.15</b>	<b>0.00#</b>	<b>8.24#</b>	<b>2.09</b>

Source: Data on price of PX transactions from IEX and PXIL and data on UI 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 UI of 96 time blocks of 15 minutes each in a day. UI price includes Ceiling UI Rate +40% additional UI charge.

# Maximum/Minimum in the month

**Table-19: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY\*-WISE) (MUs), MAY 2014**

Name of the State/UT/Other Regional Entity	Through Bilateral			Through Power Exchange			Through UI with Regional Grid			Total Net***
	Sale	Pur-chase	Net**	Sale	Pur-chase	Net**	Export (Under Drawl)	Import (Over Drawl)	Net**	
Punjab	0.00	157.10	157.10	0.00	177.08	177.08	28.22	118.73	90.50	424.68
Haryana	42.04	252.05	210.00	65.01	111.24	46.23	73.06	102.29	29.23	285.47
Rajasthan	451.91	26.35	-425.56	37.05	269.13	232.08	65.24	65.17	-0.07	-193.55
Delhi	42.44	333.12	290.67	218.97	14.66	-204.31	83.06	13.90	-69.16	17.20
Uttar Pradesh	0.00	473.90	473.90	0.00	238.47	238.47	144.32	49.72	-94.60	617.77
Uttarakhand	14.88	171.65	156.77	4.08	91.76	87.68	22.93	26.10	3.17	247.63
Himachal Pradesh	174.20	0.00	-174.20	346.58	2.67	-343.91	12.38	31.82	19.44	-498.68
J & K	333.54	2.22	-331.33	31.95	7.16	-24.79	22.33	53.14	30.81	-325.31
UT Chandigarh	0.00	7.44	7.44	0.00	0.87	0.87	2.67	20.75	18.07	26.38
MP	15.63	0.00	-15.63	47.03	43.14	-3.88	47.85	37.85	-10.01	-29.52
Maharashtra	3.76	200.19	196.43	14.22	239.04	224.82	52.60	113.29	60.69	481.94
Gujarat	228.89	4.64	-224.25	220.11	184.40	-35.71	115.97	14.64	-101.33	-361.29
Chattisgarh	18.22	49.27	31.04	104.05	1.85	-102.20	53.37	27.05	-26.32	-97.48
Daman and Diu	0.00	14.28	14.28	0.00	31.18	31.18	4.80	5.37	0.58	46.04
Dadra & Nagar Haveli	0.00	110.11	110.11	0.00	0.00	0.00	2.79	9.65	6.86	116.97
Andhra Pradesh	5.42	702.33	696.91	37.62	292.88	255.25	29.58	50.07	20.49	972.65
Karnataka	377.96	13.64	-364.32	133.15	34.75	-98.40	20.20	35.18	14.98	-447.74
Kerala	54.94	122.36	67.43	0.85	0.00	-0.85	2.91	52.28	49.37	115.94
Tamilnadu	10.20	63.98	53.78	0.00	0.84	0.84	63.70	17.72	-45.98	8.64
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	4.08	4.63	0.55	0.55
West Bengal	133.17	221.40	88.23	49.72	94.44	44.72	17.85	109.22	91.37	224.33
Orissa	57.97	83.65	25.68	79.45	3.38	-76.07	32.16	38.58	6.42	-43.97
Bihar	0.00	193.78	193.78	0.00	138.68	138.68	59.70	44.37	-15.33	317.13
Jharkhand	7.44	132.27	124.83	0.00	0.00	0.00	31.71	14.13	-17.59	107.24
Sikkim	0.00	2.78	2.78	24.27	0.00	-24.27	9.82	1.49	-8.32	-29.81
DVC	52.74	8.79	-43.95	28.44	0.00	-28.44	25.47	27.82	2.35	-70.04
Arunachal Pradesh	0.00	0.00	0.00	0.00	3.96	3.96	0.56	14.10	13.54	17.50
Assam	0.00	49.88	49.88	13.17	51.72	38.55	12.68	15.98	3.30	91.74
Manipur	0.00	0.00	0.00	0.00	0.15	0.15	4.80	6.99	2.20	2.35
Meghalaya	33.86	28.98	-4.88	10.98	9.45	-1.54	1.09	14.25	13.15	6.74
Mizoram	0.00	0.00	0.00	0.33	0.00	-0.33	0.50	4.89	4.39	4.06
Nagaland	0.00	12.91	12.91	0.00	0.00	0.00	2.49	4.70	2.21	15.12
Tripura	1.16	4.79	3.64	23.12	2.32	-20.80	0.84	13.61	12.77	-4.39
Goa	0.00	43.82	43.82	0.00	0.00	0.00	15.10	24.16	9.06	52.87
NHPC Stations	0.00	0.00	0.00	0.00	0.00	0.00	36.10	17.61	-18.81	-18.81
NJPC	0.00	0.00	0.00	16.61	0.00	-16.61	8.58	5.16	-3.42	-20.03

AD HYDRO	0.00	0.00	0.00	59.62	0.00	-59.62	2.15	3.39	1.24	-58.38
KARCHAM WANGTOO	139.20	0.00	-139.20	203.75	0.00	-203.75	7.26	18.28	11.01	-331.93
SHREE CEMENT	146.72	0.00	-146.72	24.18	0.00	-24.18	2.43	1.74	-0.68	-171.58
LANCO BUDHIL	0.00	0.00	0.00	35.32	0.00	-35.32	0.00	0.00	0.00	-35.32
MALANA	0.00	0.00	0.00	2.99	0.00	-2.99	0.00	0.00	0.00	-2.99
JINDAL POWER	327.88	0.00	-327.88	119.95	0.00	-119.95	10.58	6.15	-4.43	-452.26
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	2.34	1.07	-1.28	-1.28
NSPCL	38.28	0.00	-38.28	0.00	0.00	0.00	2.04	1.89	-0.15	-38.43
ACBIL	40.71	0.00	-40.71	38.13	0.00	-38.13	1.91	7.01	5.10	-73.74
BALCO	0.00	0.00	0.00	10.01	0.00	-10.01	1.41	3.76	2.34	-7.66
RGPPL(Dabhol)	0.00	0.00	0.00	0.00	0.00	0.00	0.06	6.65	6.59	6.59
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	9.60	12.19	2.59	2.59
DCPP	48.34	0.00	-48.34	39.73	0.00	-39.73	1.70	9.38	7.68	-80.40
EMCO	0.00	0.00	0.00	8.30	0.00	-8.30	0.00	0.00	0.00	-8.30
VANDANA VIDYUT	0.00	0.00	0.00	12.03	0.00	-12.03	0.00	0.00	0.00	-12.03
ESSAR STEEL	0.00	0.00	0.00	0.00	337.77	337.77	0.00	0.00	0.00	337.77
JINDAL STAGE-II	0.00	0.00	0.00	29.59	0.00	-29.59	0.00	0.00	0.00	-29.59
SIMHAPURI	227.33	0.00	-227.33	17.75	0.00	-17.75	1.75	3.28	1.52	-243.56
Meenakshi	0.00	0.99	0.99	0.81	0.00	-0.81	0.00	0.00	0.00	0.18
STERLITE	99.51	0.00	-99.51	211.14	0.00	-211.14	10.45	13.92	3.47	-307.19
MAITHON POWER LTD	44.59	0.00	-44.59	28.68	0.00	-28.68	3.90	4.83	0.93	-72.34
ADHUNIK POWER LTD	0.00	0.00	0.00	1.24	0.00	-1.24	0.00	0.00	0.00	-1.24
CHUZACHEN HEP	0.00	0.00	0.00	12.49	0.00	-12.49	0.00	0.00	0.00	-12.49
GMR KAMALANGA	0.00	0.00	0.00	4.26	0.00	-4.26	0.00	0.00	0.00	-4.26
NEEPCO Stations	0.00	0.00	0.00	5.83	0.00	-5.83	4.08	3.00	-1.08	-6.91
RANGANADI HEP	0.00	0.00	0.00	1.08	0.00	-1.08	0.00	0.00	0.00	-1.08
DOYANG HEP	0.00	0.00	0.00	0.02	0.00	-0.02	0.00	0.00	0.00	-0.02
ONGC PALATANA	0.00	0.00	0.00	9.34	0.00	-9.34	0.00	0.00	0.00	-9.34

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 UI

<b>Table-20 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, MAY 2014</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	469	16142	1651	13113
B	Volume of Sell Bid	178986	3615695	33669	3014178
C	Ratio of Buy Bid to Sell Bid Volume	0.003	0.004	0.049	0.004
D	Market Clearing Volume (MWh)	469	16142	1651	13113
E	Market Clearing Price (₹/MWh)	9300	1500	9300	1500

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

<i>Forbearance and Floor Price w.e.f 1st April 2012</i>		
Type of REC	<i>Floor Price (₹/MWh)</i>	<i>Forbearance Price (₹/MWh)</i>
<i>Solar</i>	<i>9300.00</i>	<i>13400.00</i>
<i>Non-Solar</i>	<i>1500.00</i>	<i>3300.00</i>