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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

DB Power Diligent Power Pvt. Ltd.

DCPP Donga Mahua Captive Power Plant

DVC Damodar Valley Corporation

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

JITPL Jindal India Thermal Power Ltd.

KARCHAM WANGTOO

Lanco Budhil Hydro Power Private Limited

LANKO_AMK

Lanco Amarkantak Power Private Limited

MALANA Malana Hydroelectric Plant

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

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
SHREE CEMENT Shree Cement Limited

SIMHAPURI Simhapuri Energy Private Limited

STERLITE Sterlite Energy Limited

TEESTA HEP Teesta Hydro electric power project

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 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 analysis of the report for the month of June, 2014 is as under:

I: Volume of Short-term Transactions of Electricity

During the month of June 2014, total electricity generation excluding generation from renewable and captive power plants in India was 88480.04 MUs (Table-1).

Of the total electricity generation, 8755.84 MUs (9.90%) were transacted through short-term, comprising of 4422.44 MUs (5%) through Bilateral (through traders and termahead contracts on Power Exchanges and directly between distribution companies), followed by 2642.58 MUs (2.99%) through day ahead collective transactions on Power Exchanges (IEX and PXIL) and 1690.82 MUs (1.91%) through UI (Table-1 & Figure-2).

Of the total short-term transactions, Bilateral constitute 50.51% (37.92% through traders and term-ahead contracts on Power Exchanges and 12.59% directly between distribution companies) followed by 30.18% through day ahead collective transactions on Power Exchanges and 19.31% 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 45 trading licensees as on 30.06.2014, of which only 24 have engaged in trading during June 2014. Top 5 trading licensees had a share of 70.91% 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 0.1875 for the month of June 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 2616.78 MUs and 25.80 MUs respectively. The volume of total Buy bids and Sale bids was 4035.03 MUs and 3284.95 MUs respectively in IEX and 72.21 MUs and 43.39 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was almost greater demand in IEX (1.23 times) and PXIL (1.66 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 26.54 MUs and 40.54 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 ₹3.91/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 ₹3.93/kWh, ₹3.12kWh and ₹3.54/kWh respectively. Minimum and Maximum sale prices were ₹2.24/kWh and ₹6.04/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 ₹1.34/kWh, ₹10.62/kWh and ₹3.71/kWh respectively in IEX and ₹1.00/kWh, ₹6.17/kWh and ₹3.63/kWh respectively in PXIL (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹4.17/kWh and ₹3.69/kWh respectively (Table-6 and Table-7).

(iii) *Price of electricity transacted Through UI:* The average UI price was ₹2.97/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 Entity¹-Wise)

Of the total bilateral transactions, top 5 regional entities sold 47.24% of the volume, and these were Himachal Pradesh, Rajasthan, Jammu and Kashmir, Gujarat and Jaypee Karcham Hydro Corporation Ltd. Top 5 regional entities purchased 58.65% of the volume, and these were Punjab, Haryana, Andhra Pradesh, Delhi and Uttar Pradesh (Table-9, 10 & 19).

Of the total Power Exchange transactions, top 5 regional entities sold 40.54% of the volume, and these were Himachal Pradesh, Gujarat, Chhattisgarh, Delhi and Jindal Power Ltd. Top 5 regional entities purchased 51.08% of the volume, and these were Rajasthan, Maharashtra, Punjab, Andhra Pradesh and Essar Steel Ltd. (Table-11, 12 & 19).

Of the total UI transactions, top 5 regional entities underdrew 40.10% of the volume, and these were Gujarat, Uttar Pradesh, Haryana, Tamilnadu and Punjab. Top 5 regional entities overdrew 31.85% of the volume, and these were Maharashtra, Punjab, West Bengal, Uttar Pradesh and Telangana (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 &

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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.

19. Top 5 electricity selling regional entities were Himachal Pradesh, Gujarat, Jaypee Karcham Hydro Corporation Ltd., Jindal Power Ltd and Sterlite India Ltd. Top 5 electricity purchasing regional entities were Punjab, Andhra Pradesh, Haryana, Maharashtra and Uttar Pradesh.

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 June 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 8.98% and 7.92% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 89.69% in IEX and 30.69% in PXIL.

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.

V: Analysis of Bilateral Contracts executed by Traders in July 2014⁴

(i) Duration of bilateral contracts:

During June and July, 2014, a total of 259 bilateral contracts (excluding banking/swap contracts) have been executed by traders for the volume of 6613 MUs. Figure-7 shows the percentage of contracts categorized according to the period of power supply. It can be observed from the figure that 52.1% of the contracts were executed for a duration of up to one week, followed by 47.5% of the contracts were executed for a duration of more than a week and upto one month and 0.4% of the contracts were executed for a duration of more than one month and upto 3 months.

During the same period, 51 banking/swapping bilateral contracts were also executed for the volume of 408 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. For constructing the forward curve, the price of each contract is taken to be price for each day of that contract's period. On the basis of these prices, 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 August 2014 to May 2015 based on bilateral contracts⁵ executed during July, 2014. The forward curve drawn in June 2014 has also been depicted for the period August 2014 onwards for comparison purposes. It is observed that there is an increasing trend in the forward prices for the period from August to October, 2014 because of contracts executed in July 2014 were at higher prices when compared to contracts executed in June 2014. Since, no new contracts are executed for delivery beyond October 2014, the forward prices for the period from November 2014 to May 2015 continues to be same.

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⁴ 'Monthly OTC (Electricity Traders) report' based on analysis of weekly reports has been discontinued and Analysis of Bilateral Contracts is being presented in this report hereinafter.

⁵ Excluding Banking/Swapping contracts

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 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.

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 June 2014 are shown in Table-20. The market clearing volume of Solar RECs transacted on IEX and PXIL were 636 and 1018 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 50743 and 88711 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

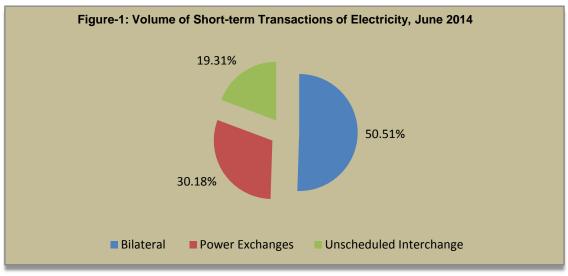
The gap between the volume of buy and sell bids of RECs placed through power exchanges show that there was less demand for Solar RECs and Non-Solar RECs. For Solar RECs, the ratio of buy and sell bids was 0.004 and 0.012 in IEX and PXIL respectively. For Non-Solar RECs, the ratio of buy and sell bids was 0.016 and 0.023 in IEX and PXIL respectively

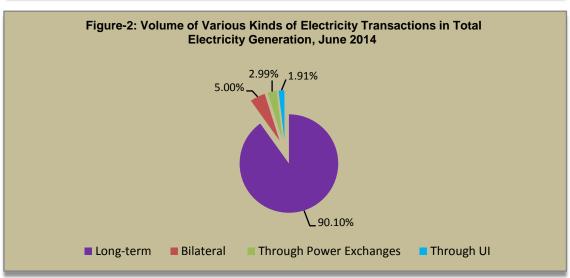
VII: Inferences:

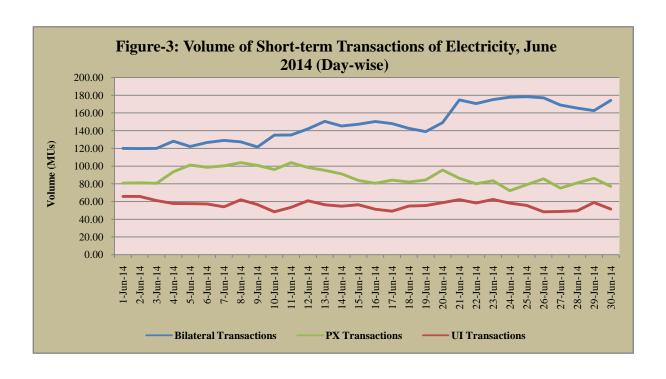
- The percentage of short-term transactions of electricity to total electricity generation was 9.90%.
- Of the total short-term transactions of electricity, 50.51% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 30.18% through Power Exchanges and 19.31% through UI.
- Top 5 trading licensees had a share of 70.91% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1875, indicating moderate concentration of market power.
- The price of electricity transacted through trading licensees (₹3.91/kWh) was higher when compared with the price of electricity transacted through IEX (₹3.71/kWh) and PXIL (₹3.63/kWh) respectively.
- The price of electricity transacted through UI was ₹2.97/kWh
- The gap between the volume of buy bids and sale bids placed through power exchanges indicates that there was almost more demand in IEX (1: 1.23) and PXIL (1: 1.66) when compared with the supply offered through these exchanges.
- Top 5 electricity selling regional entities were Himachal Pradesh, Gujarat, Jaypee Karcham Hydro Corporation Ltd., Jindal Power Ltd and Sterlite India Ltd. Top 5 electricity purchasing regional entities were Punjab, Andhra Pradesh, Haryana, Maharashtra and Uttar Pradesh.
- The volume of electricity that could not be cleared in the power exchanges due to congestion was 8.98% and 7.92% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 89.69% in IEX and 30.69% in PXIL.

- In June and July 2014, 52.1% of the bilateral contracts (excluding banking/swapping) were executed for a duration of up to one week, followed by 47.5% of the contracts were executed for a duration of more than a week and upto one month and 0.4% of the contracts were executed for a duration of more than one month and upto 3 months.
- There is an increasing trend in the forward prices for the period from August to October,
 2014 because of contracts executed in July 2014 were at higher prices when compared to contracts executed in June 2014.
- The market clearing volume of Solar RECs transacted on IEX and PXIL were 636 and 1018 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 50743 and 88711 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), JUNE 2014				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	4422.44	50.51%	5.00%
	(i) Through Traders and PXs	3320.00	37.92%	3.75%
	(ii) Direct	1102.44	12.59%	1.25%
2	Through Power Exchanges	2642.58	30.18%	2.99%
	(i) IEX	2616.78	29.89%	2.96%
	(ii) PXIL	25.80	0.29%	0.03%
3	Through UI	1690.82	19.31%	1.91%
	Total	8755.84	100.00%	9.90%
	Total Generation	88480.04	_	_
Source: NLDC				







Tab	Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING				
	LICENSEES, JUNE 2014				
Sr.No	Name of the Trading Licensee	% Share in total Volume transacted by Trading Licensees	Herfindahl- Hirschman Index		
1	PTC India Ltd.	39.02%	0.1522		
2	Tata Power Trading Company (P) Ltd.	9.61%	0.0092		
3	JSW Power Trading Company Ltd	9.05%	0.0082		
4	NTPC Vidyut Vyapar Nigam Ltd.	6.73%	0.0045		
5	Mittal Processors (P) Ltd.	6.51%	0.0042		
6	Adani Enterprises Ltd.	5.29%	0.0028		
7	Knowledge Infrastructure Systems (P) Ltd	4.21%	0.0018		
8	Shree Cement Ltd.	3.75%	0.0014		
9	Reliance Energy Trading (P) Ltd	3.28%	0.0011		
10	GMR Energy Trading Ltd.	2.63%	0.0007		
11	Manikaran Power Ltd.	2.37%	0.0006		
12	RPG Power Trading Company Ltd.	1.53%	0.0002		
13	Jaiprakash Associates Ltd.	1.48%	0.0002		
14	National Energy Trading & Services Ltd.	1.16%	0.0001		
15	Arunachal Pradesh Power Corporation (P) ltd	0.86%	0.0001		
16	Essar Electric Power Development Corp. Ltd.	0.67%	0.0000		
17	Instinct Infra & Power Ltd.	0.62%	0.0000		
18	SN Power Markets Pvt. Ltd.	0.49%	0.0000		
19	My Home Power Private Ltd.	0.31%	0.0000		
20	HMM Infra ltd.	0.25%	0.0000		
21	Indrajit Power Technology (P) Ltd.	0.08%	0.0000		
22	Customized Energy Solutions India (P) Ltd.	0.07%	0.0000		
23	Pune Power Development (P) Ltd.	0.04%	0.0000		
24	Ambitious Power Trading Company Ltd.	0.01%	0.0000		
	TOTAL 100.00% 0.1875				
	Top 5 trading licensees	70.91%			

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

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

Source: Information submitted by trading licensees

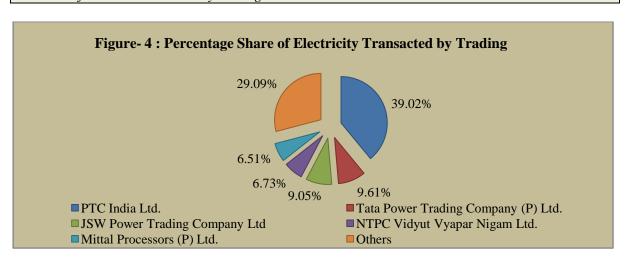


Table-3: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS, JUNE 2014			
Sr.No	Sr.No Sale Price of Traders (₹/kWh)		
1	Minimum	2.24	
2	2 Maximum 6.04		
3	Weighted Average	3.91	

Source: Information submitted by trading licensees

Table	Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), JUNE 2014		
Sr.No	Sr.No Period of Trade Sale Price of Traders (₹/kWh)		
1	RTC	3.93	
2	PEAK	3.12	
3	OFF PEAK	3.54	

Source: Information submitted by trading licensees

Table	Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, JUNE 2014			
Sr.No	ACP	Price in IEX (₹/kWh)	Price in PXIL (₹/kWh)	
1	Minimum	1.34	1.00	
2	Maximum	10.62	6.17	
3	Weighted Average	3.71	3.63	

Source: Information submitted by IEX and PXIL

Tabl	Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, JUNE 2014				
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)		
1	Intra-Day Contracts	23.99	4.14		
2	Day Ahead Contingency Contracts	2.30	4.50		
3	Weekly Contracts	0.25	4.00		
	Total	26.54	4.17		

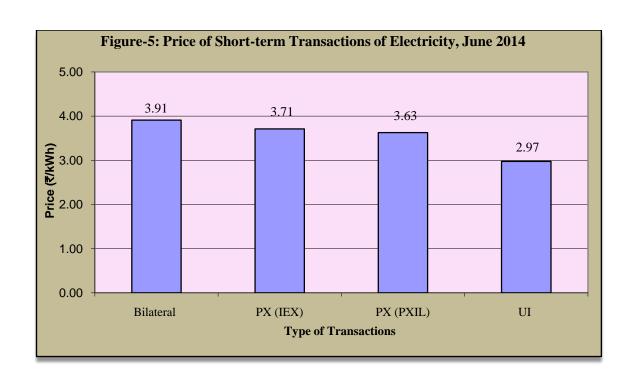
Source: IEX

Table	Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, JUNE 2014			
Sr.No	Term ahead contracts	Actual Scheduled Volume (MUs)	Weighted Average Price (₹/kWh)	
1	Intra-Day Contracts	19.25	3.64	
2	Daily Contracts	11.82	3.88	
3	Weekly Contracts	9.47	3.55	
	Total	40.54	3.69	

Source: PXIL

	Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH UI, JUNE 2014			
Sr.No Price in All India Grid (₹/kWh)		Price in All India Grid (₹/kWh)		
1	Minimum	0		
2	2 Maximum 8.24			
3	Average 2.97			

Source: NLDC



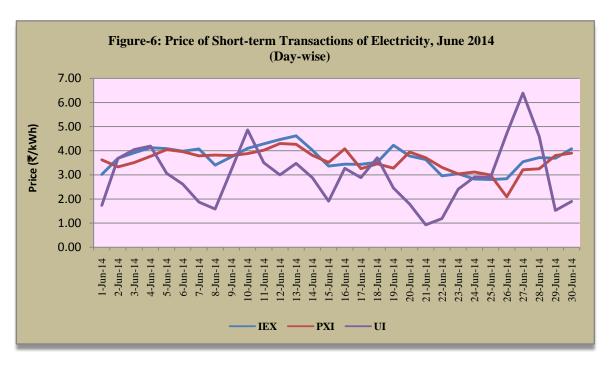


Table-9: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL, JUNE 2014			
Name of the State/UT/Other Regional Entity	Volume of Sale (MUs)	% of Volume	
Himachal Pradesh	456.40	11.38%	
Rajasthan	430.28	10.73%	
J&K	381.44	9.51%	
Gujarat	315.23	7.86%	
KARCHAM WANGTOO	310.83	7.75%	
STERLITE	281.46	7.02%	
JINDAL POWER	260.97	6.51%	
Karnataka	255.88	6.38%	
SIMHAPURI	240.69	6.00%	
Orissa	230.52	5.75%	
West Bengal	192.42	4.80%	
SHREE CEMENT	141.09	3.52%	
MP	102.90	2.57%	
MAITHON POWER LTD	72.45	1.81%	
DVC	69.34	1.73%	
AD HYDRO	61.24	1.53%	
Chattisgarh	39.58	0.99%	
Meghalaya	31.57	0.79%	
NSPCL	23.11	0.58%	
Jharkhand	19.70	0.49%	
Haryana	15.60	0.39%	
Uttarakhand	14.34	0.36%	
JITPL	13.01	0.32%	
Tripura	12.97	0.32%	
Assam	12.84	0.32%	
Delhi	9.74	0.24%	
ACBIL	8.68	0.22%	
Tamilnadu	5.00	0.12%	
Telangana	0.58	0.01%	
Maharashtra	0.12	0.00%	
Total	4009.97	100.00%	
Volume of sale by top 5 States	1894.19	47.24%	

Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL, JUNE 2014			
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume	
Punjab	750.11	17.41%	
Haryana	616.07	14.30%	
Andhra Pradesh	411.34	9.55%	
Delhi	403.17	9.36%	
Uttar Pradesh	346.25	8.04%	
Telangana	340.36	7.90%	
Maharashtra	273.99	6.36%	
Bihar	236.24	5.48%	
Kerala	197.51	4.58%	
Orissa	120.56	2.80%	
West Bengal	107.62	2.50%	
Dadra & Nagar Haveli	106.56	2.47%	
Jharkhand	100.08	2.32%	
Uttarakhand	89.93	2.09%	
Assam	51.33	1.19%	
Chattisgarh	27.24	0.63%	
Rajasthan	21.89	0.51%	
Tamilnadu	19.48	0.45%	
Nagaland	13.94	0.32%	
Daman and Diu	13.82	0.32%	
Gujarat	13.79	0.32%	
UT Chandigarh	12.66	0.29%	
Goa	12.40	0.29%	
J & K	7.35	0.17%	
Sikkim	4.08	0.09%	
Karnataka	3.73	0.09%	
DVC	3.10	0.07%	
Tripura	1.23	0.03%	
Meenakshi	0.95	0.02%	
Manipur	0.65	0.02%	
MP	0.21	0.00%	
Meghalaya	0.18	0.00%	
Total	4308.25	100.00%	
Volume of Purchase by top 5 States	2526.94	58.65%	

Table-11: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGES, JUNE 2								
Name of the State/UT/Other Regional	Volume of Sale (MUs)	% of Volume						
Entity	222.22	40.700/						
Himachal Pradesh	362.83	13.73%						
Gujarat	220.35	8.34%						
Chattisgarh	167.99	6.36%						
Delhi	160.47	6.07%						
JINDAL POWER	159.58	6.04%						
KARCHAM WANGTOO	133.82	5.06%						
Karnataka	126.56	4.79%						
MP	107.30	4.06%						
STERLITE	105.98	4.01%						
Orissa	102.71	3.89%						
Haryana	99.73	3.77%						
AD HYDRO	73.79	2.79%						
DCPP	72.15	2.73%						
ACBIL	64.07	2.42%						
GMR KAMALANGA	50.20	1.90%						
JITPL	50.05	1.89%						
Maharashtra	48.81	1.85%						
LANCO BUDHIL	46.46	1.76%						
DB POWER	46.19	1.75%						
Sikkim	43.42	1.64%						
Rajasthan	39.49	1.49%						
West Bengal	38.82	1.47%						
J & K	33.45	1.27%						
Tripura	30.85	1.17%						
EMCO	26.46	1.00%						
ONGC PALATANA	25.68	0.97%						
NJPC	25.59	0.97%						
DVC	24.30	0.92%						
CHUZACHEN HEP	20.44	0.77%						
TEESTA HEP	19.22	0.73%						
	18.43	0.70%						
MAITHON POWER LTD		0.60%						
SHREE CEMENT	15.92	0.58%						
JINDAL STAGE-II	15.31	0.49%						
VANDANA VIDYUT	13.01	0.48%						
Meghalaya	12.73							
Telangana	7.83	0.30%						
MALANA	6.46	0.24%						
Uttarakhand	5.01	0.19%						
RANGIT HEP	3.65	0.14%						
Kerala	2.74	0.10%						
NEEPCO Stations	2.59	0.10%						
Assam	2.25	0.08%						
Mizoram	2.02	0.08%						
Andhra Pradesh	1.80	0.07%						
ADHUNIK POWER LTD	1.69	0.06%						
SIMHAPURI	1.27	0.05%						
Manipur	1.14	0.04%						
BALCO	0.77	0.03%						
Total	2642.58	100.00%						
Volume of sale by top 5 States	1071.23	40.54%						

Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES, JUNE 2014								
Name of the State/UT/Other Regional Entity	Volume of Purchase (MUs)	% of Volume						
Rajasthan	346.12	13.10%						
Maharashtra	273.45	10.35%						
Punjab	256.20	9.70%						
Andhra Pradesh	245.67	9.30%						
ESSAR STEEL	228.51	8.65%						
Gujarat	221.21	8.37%						
Uttar Pradesh	186.62	7.06%						
West Bengal	126.63	4.79%						
Uttarakhand	107.92	4.08%						
Telangana	104.39	3.95%						
Assam	95.77	3.62%						
Bihar	82.53	3.12%						
Orissa	78.90	2.99%						
Haryana	76.64	2.90%						
MP	45.98	1.74%						
Delhi	31.07	1.18%						
Daman and Diu	27.94	1.06%						
Karnataka	26.63	1.01%						
J&K	23.16	0.88%						
BALCO	16.46	0.62%						
Kerala	11.41	0.43%						
Meghalaya	9.04	0.34%						
Chattisgarh	4.76	0.18%						
Arunachal Pradesh	4.60	0.17%						
UT Chandigarh	4.37	0.17%						
Manipur	3.39	0.13%						
Tamilnadu	2.05	0.08%						
Tripura	0.04	0.00%						
Total	2642.58	100.00%						
Volume of purchase by top 5 States	1349.95	51.08%						

Name of the State/UT/Other Regional Entity		
	Volume of Export (MUs)	% of Volume
Gujarat	138.86	10.65%
Uttar Pradesh	107.48	8.24%
Haryana	99.09	7.60%
Tamilnadu	98.42	7.55%
Punjab	79.23	6.07%
Delhi	71.71	5.50%
MP	71.08	5.45%
Rajasthan	67.48	5.17%
Maharashtra	67.00	5.14%
Telangana	51.38	3.94%
NHPC Stations	45.88	3.52%
Bihar	35.79	2.74%
		2.56%
Jharkhand Ola William I and I	33.38	2.51%
Chattisgarh	32.69	2.33%
Andhra Pradesh	30.41	
DVC	27.75	2.13%
Karnataka	26.18	2.01%
J&K	24.74	1.90%
Uttarakhand	20.14	1.54%
West Bengal	18.44	1.41%
Orissa	18.14	1.39%
STERLITE	13.45	1.03%
KARCHAM WANGTOO	11.02	0.84%
CGPL	10.61	0.81%
Goa	8.65	0.66%
Meghalaya	7.74	0.59%
Assam	7.48	0.57%
Himachal Pradesh	7.03	0.54%
NJPC	6.52	0.50%
JINDAL POWER	6.35	0.49%
Sikkim		0.42%
	5.49	0.41%
Daman and Diu	5.30	0.40%
Dadra & Nagar Haveli	5.25	0.37%
Manipur	4.79	0.34%
Pondicherry	4.47	
MAITHON POWER LTD	3.61	0.28%
Tripura	3.26	0.25%
DCPP	3.01	0.23%
Arunachal Pradesh	2.95	0.23%
NEEPCO Stations	2.73	0.21%
LANKO_AMK	2.69	0.21%
AD HYDRO	2.46	0.19%
Nagaland	2.10	0.16%
NSPCL	2.07	0.16%
Kerala	2.03	0.16%
SIMHAPURI	1.77	0.14%
Mizoram	1.54	0.12%
UT Chandigarh	1.46	0.11%
SHREE CEMENT	1.29	0.10%
ACBIL	1.11	0.09%
BALCO	0.89	0.07%
RGPPL	0.04	0.00%
Total	1304.40	100.00%
	1007.70	100.00 /0

Table-14: VOLUME OF ELECTRICITY IMPORT THROUGH UI, JUNE 2014							
Name of the State/UT/Other Regional Entity	Volume of Import (MUs)	% of Volume					
Maharashtra	111.27	7.83%					
Punjab	99.92	7.03%					
West Bengal	99.66	7.01%					
Uttar Pradesh	72.62	5.11%					
Telangana	69.12	4.86%					
Kerala	68.79	4.84%					
Haryana	68.75	4.84%					
Orissa	65.74	4.63%					
Andhra Pradesh	60.81	4.28%					
Rajasthan	52.70	3.71%					
Himachal Pradesh	42.00	2.96%					
J & K	41.71	2.94%					
Chattisgarh	41.11	2.89%					
Delhi	39.50	2.78%					
Assam	37.60	2.65%					
DVC	36.32	2.56%					
KARCHAM WANGTOO	32.15	2.26%					
UT Chandigarh	31.46	2.21%					
		2.16%					
Bihar	30.73						
Uttarakhand	30.27	2.13% 2.05%					
Karnataka	29.20	2.05% 1.87%					
Goa	26.51						
ACBIL	20.84	1.47%					
STERLITE	18.49	1.30%					
MP	17.18	1.21%					
Tamilnadu	15.54	1.09%					
JINDAL POWER	15.50	1.09%					
Arunachal Pradesh	11.66	0.82%					
NHPC Stations	10.69	0.75%					
Dadra & Nagar Haveli	10.50	0.74%					
Gujarat	10.44	0.73%					
Jharkhand	10.24	0.72%					
Tripura	9.47	0.67%					
Daman and Diu	8.16	0.57%					
AD HYDRO	7.96	0.56%					
BALCO	7.69	0.54%					
Nagaland	7.27	0.51%					
CGPL	6.56	0.46%					
MAITHON POWER LTD	6.11	0.43%					
Pondicherry	5.05	0.36%					
RGPPL	4.64	0.33%					
SIMHAPURI	4.25	0.30%					
SHREE CEMENT	3.96	0.28%					
DCPP	3.88	0.27%					
NJPC	3.70	0.26%					
Mizoram	3.27	0.23%					
Meghalaya	3.10	0.22%					
Sikkim	2.58	0.18%					
NSPCL SIKKIM		0.11%					
	1.51	0.09%					
Manipur	1.29						
NEEPCO Stations	1.19	0.08%					
LANKO_AMK	0.32	0.02%					
Total	1420.98	100.00%					
Volume of Import by top 5 States	452.58	31.85%					

Table-1	Table-15: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), JUNE 2014						
Sr.No.	Name of the State/UT/Other Regional Entity	Total volume of net short-term transactions of electricity*					
1	Punjab	1027.00					
2	Andhra Pradesh	685.60					
3	Haryana	547.05					
4	Maharashtra	542.78					
5	Uttar Pradesh	498.01					
6	Telangana	454.09					
7	Bihar	313.71					
8	Kerala	272.95					
9	Delhi	231.81					
10	ESSAR STEEL	228.51					
11	Uttarakhand	188.63					
12	Assam	162.13					
13	Dadra & Nagar Haveli	111.81					
14	West Bengal	84.23					
15	Jharkhand	57.23					
16	UT Chandigarh	47.02					
17	Daman and Diu	44.62					
18	Goa	30.27					
19	BALCO	22.50					
20	Nagaland	19.11					
21	Arunachal Pradesh	12.08					
22	RGPPL	4.60					
23	Meenakshi	2.07					
24	Pondicherry	0.58					
25	Mizoram	-0.29					
26	Manipur	-0.60					
27	ADHUNIK POWER LTD	-1.69					
28	LANKO AMK	-2.37					
29	RANGIT HEP	-3.65					
30	CGPL	-4.05					
31	NEEPCO Stations	-4.13					
32	MALANA	-6.46					
33	VANDANA VIDYUT	-13.01					
34	JINDAL STAGE-II	-15.31					
35	TEESTA HEP	-19.22					
36	CHUZACHEN HEP	-19.22					
37							
38	NSPCL ONCC DALATANA	-23.67					
39	ONGC PALATANA	-25.68					
40	EMCO	-26.46					
41	NJPC	-28.40					
	NHPC Stations	-35.20					
42	Tripura Markalaus	-36.32					
43	Meghalaya	-39.71					
44	Sikkim	-42.26					
45	DB POWER	-46.19					
46	LANCO BUDHIL	-46.46					
47	GMR KAMALANGA	-50.20					
48	ACBIL	-53.02					
49	JITPL	-63.06					
50	Tamilnadu	-66.34					
51	DCPP	-71.28					
52	DVC	-81.97					
53	Orissa	-86.17					
54	MAITHON POWER LTD	-88.38					

55	Rajasthan	-116.53
56	AD HYDRO	-129.52
57	SHREE CEMENT	-154.33
58	Chattisgarh	-167.14
59	MP	-217.91
60	SIMHAPURI	-239.49
61	Karnataka	-349.07
62	J&K	-367.42
63	STERLITE	-382.39
64	JINDAL POWER	-411.40
65	KARCHAM WANGTOO	-423.52
66	Gujarat	-428.99
67	Himachal Pradesh	-783.83

^{*} 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

Tab	Table-16: DETAILS OF CONGESTION IN POWER EXCHANGES, JUNE 2014								
	Details of Congestion	IEX	PXIL						
A	Unconstrained Cleared Volume* (MUs)	2874.87	28.02						
В	Actual Cleared Volume and hence scheduled (MUs)	2616.78	25.80						
С	Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B)	258.09	2.22						
D	Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume	8.98%	7.92%						
Е	Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month)	89.69%	30.69%						
F	Congestion occurrence (%) time block wise								
	0.00 - 6.00 hours	25.28%	21.95%						
	6.00 - 12.00 hours	26.02%	29.52%						
	12.00 - 18.00 hours	23.15%	27.38%						
	18.00 - 24.00 hours	25.55%	21.15%						
* This	power would have been scheduled had there been no co	ngestion.							
Sourc	e: IEX & PXIL								

Table-17: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (MUs), JUNE 2014 (DAY-WISE)

Date	Bilater	al	Power Exch Clearing Vol Ahead	ume# of Day	Unscheduled Interchange (Over Drawl+ Under	
	Through Traders and PXs**	Direct	IEX	PXI	Generation)	
1-Jun-14	92.15	27.89	79.85	0.97	65.76	
2-Jun-14	92.23	27.54	79.92	1.13	65.71	
3-Jun-14	90.95	29.00	78.66	1.97	61.05	
4-Jun-14	96.81	31.28	91.94	1.61	57.75	
5-Jun-14	90.67	31.37	99.98	1.22	57.59	
6-Jun-14	94.34	32.30	97.45	1.29	57.32	
7-Jun-14	97.02	32.01	99.09	1.20	53.98	
8-Jun-14	96.95	30.33	102.27	1.60	62.04	
9-Jun-14	98.02	23.61	100.59	0.24	56.47	
10-Jun-14	108.27	26.71	95.91	0.29	48.39	
11-Jun-14	108.09	27.07	102.47	1.48	53.40	
12-Jun-14	113.47	28.48	98.10	0.46	60.95	
13-Jun-14	120.38	30.07	94.52	0.66	56.43	
14-Jun-14	116.90	28.33	90.74	0.59	54.68	
15-Jun-14	118.97	28.28	82.72	1.09	56.31	
16-Jun-14	119.74	30.47	79.67	0.84	51.33	
17-Jun-14	115.12	32.75	83.69	0.52	49.14	
18-Jun-14	111.02	31.53	81.42	0.68	54.89	
19-Jun-14	109.29	29.57	83.66	0.64	55.47	
20-Jun-14	113.23	35.86	94.74	0.87	58.66	
21-Jun-14	123.44	51.25	85.57	0.60	62.13	
22-Jun-14	120.70	49.79	79.17	0.79	58.42	
23-Jun-14	128.25	46.77	83.05	0.40	62.29	
24-Jun-14	127.42	50.40	71.70	0.56	58.08	
25-Jun-14	127.85	50.46	78.36	0.58	55.68	
26-Jun-14	129.32	47.63	84.57	1.05	48.40	
27-Jun-14	115.15	53.74	74.88	0.22	48.73	
28-Jun-14	116.45	49.03	80.18	0.75	49.46	
29-Jun-14	109.87	52.64	85.71	0.52	58.89	
30-Jun-14	117.93	56.27	76.19	0.98	51.40	
Total	3320.00	1102.44	2616.78	25.80	1690.82	

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), JUNE 2014 (DAY-WISE)											
Market Segment	Day	ahead mar	ket of IEX	Day al	head mark	cet of PXIL	Under Draw	I/Over Drawl from	the Grid (UI)		
	Mini-	Maxi-	Weighted	Mini-	Maxi-	Weighted		All India Grid			
Date	mum ACP	mum ACP	Average Price*	mum ACP	mum ACP	Average Price*	Mini-mum Price	Maxi-mum Price	Average Price**		
1-Jun-14	1.61	6.51	3.02	2.88	4.80	3.62	0.00	8.24	1.74		
2-Jun-14	2.30	6.01	3.69	3.25	3.75	3.33	0.00	8.24	3.68		
3-Jun-14	2.20	6.01	3.91	3.50	3.90	3.51	0.00	8.24	4.05		
4-Jun-14	2.52	6.00	4.13	2.60	4.62	3.77	0.00	8.24	4.19		
5-Jun-14	2.65	5.92	4.09	3.90	4.25	4.05	0.00	8.24	3.06		
6-Jun-14	2.90	6.29	3.98	3.75	4.11	3.96	0.00	8.24	2.61		
7-Jun-14	2.71	6.51	4.07	3.00	4.50	3.79	0.00	7.20	1.87		
8-Jun-14	1.34	6.66	3.40	2.92	4.80	3.82	0.00	7.82	1.59		
9-Jun-14	1.60	7.01	3.75	3.31	5.00	3.80	0.00	8.24	3.22		
10-Jun-14	2.58	10.62	4.10	3.25	5.00	3.88	0.00	8.24	4.86		
11-Jun-14	2.71	7.01	4.28	2.90	5.20	4.02	0.00	0.00 8.24			
12-Jun-14	2.80	7.00	4.47	3.00	5.30	4.30	0.00	8.24	3.00		
13-Jun-14	3.00	7.00	4.62	2.90	5.00	4.27	0.00	8.24	3.48		
14-Jun-14	2.35	7.00	4.02	3.30	4.12	3.81	0.00	7.82	2.88		
15-Jun-14	2.00	7.25	3.37	2.18	6.17	3.52	0.00	8.03	1.91		
16-Jun-14	2.07	7.26	3.45	3.20	6.10	4.08	0.00	8.24	3.27		
17-Jun-14	2.03	7.26	3.43	2.40	4.00	3.26	0.00	8.24	2.88		
18-Jun-14	1.60	7.26	3.53	2.50	4.80	3.46	0.00	8.24	3.71		
19-Jun-14	2.71	7.15	4.23	1.00	5.10	3.28	0.00	8.24	2.46		
20-Jun-14	2.20	7.25	3.78	1.00	5.15	3.95	0.00	8.24	1.79		
21-Jun-14	1.50	7.26	3.64	1.00	5.00	3.71	0.00	3.24	0.93		
22-Jun-14	1.54	7.30	2.96	1.00	5.00	3.31	0.00	3.45	1.18		
23-Jun-14	1.50	7.30	3.04	3.00	3.30	3.04	0.00	8.24	2.41		
24-Jun-14	1.50	7.31	2.83	2.75	3.80	3.12	0.00	7.20	2.90		
25-Jun-14	1.40	7.21	2.81	2.65	3.70	2.99	0.00	8.24	2.90		
26-Jun-14	1.42	7.11	2.84	1.75	3.10	2.09	0.00	8.24	4.71		
27-Jun-14	2.47	7.21	3.54	1.00	3.75	3.21	1.07	8.24	6.39		
28-Jun-14	2.46	6.96	3.72	2.00	4.40	3.25	0.00	8.24	4.59		
29-Jun-14	2.21	6.96	3.69	2.50	4.50	3.80	0.00	5.32	1.52		
30-Jun-14	2.00	6.83	4.08	3.00	5.20	3.90	0.00	5.95	1.89		
	1.34#	10.62#	3.71	1.00#	6.17#	3.63	0.00#	8.24#	2.97		

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

[#] Maximum/Minimum in the month

Table-19: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY*-WISE) (MUs), JUNE 2014										
Name of the	Through Bilateral			Through Power Exchange			Through UI with Regional Grid			
State/UT/Other Regional Entity	Sale	Pur- chase	Net**	Sale	Pur- chase	Net**	Export (Under Drawl)	Import (Over Drawl)	Net**	Total Net***
Punjab	0.00	750.11	750.11	0.00	256.20	256.20	79.23	99.92	20.69	1027.00
Haryana	15.60	616.07	600.48	99.73	76.64	-23.09	99.09	68.75	-30.34	547.05
Rajasthan	430.28	21.89	-408.38	39.49	346.12	306.63	67.48	52.70	-14.77	-116.53
Delhi	9.74	403.17	393.43	160.47	31.07	-129.41	71.71	39.50	-32.21	231.81
Uttar Pradesh	0.00	346.25	346.25	0.00	186.62	186.62	107.48	72.62	-34.87	498.01
Uttarakhand	14.34	89.93	75.59	5.01	107.92	102.91	20.14	30.27	10.13	188.63
Himachal Pradesh	456.40	0.43	-455.97	362.83	0.00	-362.83	7.03	42.00	34.97	-783.83
J&K	381.44	7.35	-374.09	33.45	23.16	-10.29	24.74	41.71	16.97	-367.42
UT Chandigarh	0.00	12.66	12.66	0.00	4.37	4.37	1.46	31.46	29.99	47.02
MP	102.90	0.21	-102.69	107.30	45.98	-61.32	71.08	17.18	-53.90	-217.91
Maharashtra	0.12	273.99	273.86	48.81	273.45	224.64	67.00	111.27	44.27	542.78
Gujarat	315.23	13.79	-301.44	220.35	221.21	0.86	138.86	10.44	-128.42	-428.99
Chattisgarh	39.58	27.24	-12.34	167.99	4.76	-163.23	32.69	41.11	8.42	-167.14
Daman and Diu	0.00	13.82	13.82	0.00	27.94	27.94	5.30	8.16	2.86	44.62
Dadra & Nagar Haveli	0.00	106.56	106.56	0.00	0.00	0.00	5.25	10.50	5.25	111.81
Andhra Pradesh	0.00	411.34	411.34	1.80	245.67	243.86	30.41	60.81	30.40	685.60
Karnataka	255.88	3.73	-252.15	126.56	26.63	-99.93	26.18	29.20	3.01	-349.07
Kerala	0.00	197.51	197.51	2.74	11.41	8.67	2.03	68.79	66.76	272.95
Tamilnadu	5.00	19.48	14.48	0.00	2.05	2.05	98.42	15.54	-82.87	-66.34
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	4.47	5.05	0.58	0.58
Telangana	0.58	340.36	339.78	7.83	104.39	96.57	51.38	69.12	17.74	454.09
West Bengal	192.42	107.62	-84.80	38.82	126.63	87.82	18.44	99.66	81.22	84.23
Orissa	230.52	120.56	-109.96	102.71	78.90	-23.81	18.14	65.74	47.60	-86.17
Bihar	0.00	236.24	236.24	0.00	82.53	82.53	35.79	30.73	-5.06	313.71
Jharkhand	19.70	100.08	80.38	0.00	0.00	0.00	33.38	10.24	-23.14	57.23
Sikkim	0.00	4.08	4.08	43.42	0.00	-43.42	5.49	2.58	-2.91	-42.26
DVC	69.34	3.10	-66.24	24.30	0.00	-24.30	27.75	36.32	8.56	-81.97
Arunachal Pradesh	0.00	0.00	0.00	1.24	4.60	3.36	2.95	11.66	8.72	12.08
Assam	12.84	51.33	38.49	2.25	95.77	93.53	7.48	37.60	30.12	162.13
Manipur	0.00	0.65	0.65	1.14	3.39	2.25	4.79	1.29	-3.50	-0.60
Meghalaya	31.57	0.18	-31.39	12.73	9.04	-3.68	7.74	3.10	-4.63	-39.71
Mizoram	0.00	0.00	0.00	2.02	0.00	-2.02	1.54	3.27	1.74	-0.29
Nagaland	0.00	13.94	13.94	0.00	0.00	0.00	2.10	7.27	5.17	19.11
Tripura	12.97	1.23	-11.73	30.85	0.04	-30.81	3.26	9.47	6.22	-36.32
Goa	0.00	12.40	12.40	0.00	0.00	0.00	8.65	26.51	17.87	30.27
NHPC Stations	0.00	0.00	0.00	0.00	0.00	0.00	45.88	10.69	-35.20	-35.20
NJPC	0.00	0.00	0.00	25.59	0.00	-25.59	6.52	3.70	-2.81	-28.40

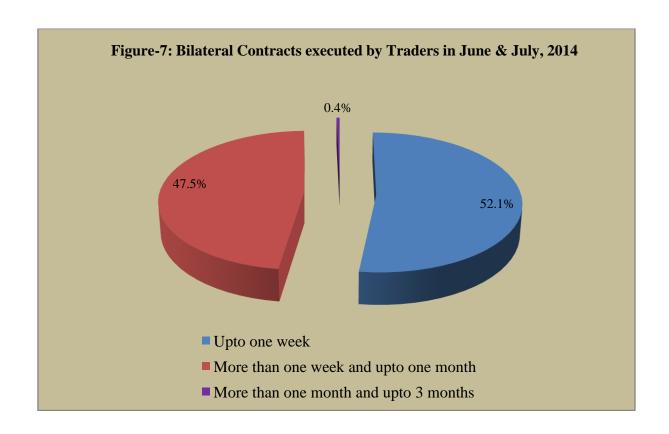
AD HYDRO	61.24	0.00	-61.24	73.79	0.00	-73.79	2.46	7.96	5.50	-129.52
KARCHAM WANGTOO	310.83	0.00	-310.83	133.82	0.00	-133.82	11.02	32.15	21.13	-423.52
SHREE CEMENT	141.09	0.00	-141.09	15.92	0.00	-15.92	1.29	3.96	2.67	-154.33
LANCO BUDHIL	0.00	0.00	0.00	46.46	0.00	-46.46	0.00	0.00	0.00	-46.46
MALANA	0.00	0.00	0.00	6.46	0.00	-6.46	0.00	0.00	0.00	-6.46
JINDAL POWER	260.97	0.00	-260.97	159.58	0.00	-159.58	6.35	15.50	9.15	-411.40
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	2.69	0.32	-2.37	-2.37
NSPCL	23.11	0.00	-23.11	0.00	0.00	0.00	2.07	1.51	-0.56	-23.67
ACBIL	8.68	0.00	-8.68	64.07	0.00	-64.07	1.11	20.84	19.73	-53.02
BALCO	0.00	0.00	0.00	0.77	16.46	15.70	0.89	7.69	6.80	22.50
RGPPL	0.00	0.00	0.00	0.00	0.00	0.00	0.04	4.64	4.60	4.60
CGPL	0.00	0.00	0.00	0.00	0.00	0.00	10.61	6.56	-4.05	-4.05
DCPP	0.00	0.00	0.00	72.15	0.00	-72.15	3.01	3.88	0.87	-71.28
EMCO	0.00	0.00	0.00	26.46	0.00	-26.46	0.00	0.00	0.00	-26.46
VANDANA VIDYUT	0.00	0.00	0.00	13.01	0.00	-13.01	0.00	0.00	0.00	-13.01
ESSAR STEEL	0.00	0.00	0.00	0.00	228.51	228.51	0.00	0.00	0.00	228.51
JINDAL STAGE-II	0.00	0.00	0.00	15.31	0.00	-15.31	0.00	0.00	0.00	-15.31
DB POWER	0.00	0.00	0.00	46.19	0.00	-46.19	0.00	0.00	0.00	-46.19
SIMHAPURI	240.69	0.00	-240.69	1.27	0.00	-1.27	1.77	4.25	2.48	-239.49
Meenakshi	0.00	0.95	0.95	0.00	1.12	1.12	0.00	0.00	0.00	2.07
STERLITE	281.46	0.00	-281.46	105.98	0.00	-105.98	13.45	18.49	5.04	-382.39
MAITHON POWER LTD	72.45	0.00	-72.45	18.43	0.00	-18.43	3.61	6.11	2.50	-88.38
ADHUNIK POWER LTD	0.00	0.00	0.00	1.69	0.00	-1.69	0.00	0.00	0.00	-1.69
CHUZACHEN HEP	0.00	0.00	0.00	20.44	0.00	-20.44	0.00	0.00	0.00	-20.44
RANGIT HEP	0.00	0.00	0.00	3.65	0.00	-3.65	0.00	0.00	0.00	-3.65
GMR KAMALANGA	0.00	0.00	0.00	50.20	0.00	-50.20	0.00	0.00	0.00	-50.20
JITPL	13.01	0.00	-13.01	50.05	0.00	-50.05	0.00	0.00	0.00	-63.06
TEESTA HEP	0.00	0.00	0.00	19.22	0.00	-19.22	0.00	0.00	0.00	-19.22
NEEPCO Stations	0.00	0.00	0.00	2.59	0.00	-2.59	2.73	1.19	-1.53	-4.13
ONGC PALATANA	0.00	0.00	0.00	25.68	0.00	-25.68	0.00	0.00	0.00	-25.68

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



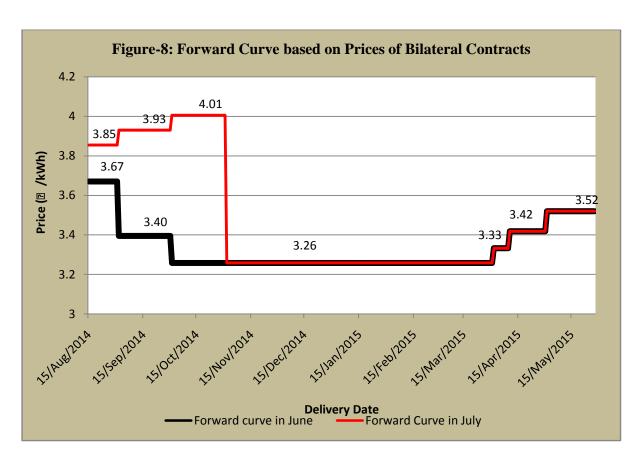


Table-20: VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, JUNE 2014									
0 11	5		EX	P	PXIL				
Sr.No.	Details of REC Transactions	Solar	Non-Solar	Solar	Non Solar				
Α	Volume of Buy Bid	636	50743	1018	88711				
В	Volume of Sell Bid	147026	3166863	88520	3809585				
С	Ratio of Buy Bid to Sell Bid Volume	0.004	0.016	0.012	0.023				
D	Market Clearing Volume (MWh)	636	50743	1018	88711				
Е	Market Clearing Price (₹/MWh)	9300	1500	9300	1500				

Source: IEX and PXIL

Note 1: 1 REC = 1 MWh

Note 2:

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