

**MONTHLY REPORT ON  
SHORT-TERM TRANSACTIONS OF ELECTRICITY  
(December 2009)**

**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. In this context, “short-term transactions of electricity” means the contracts of less than one year period for electricity transacted 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; and (iii) to disclose/disseminate all relevant market information. The analysis of the report for the month of December 2009 is as under:

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

During the Month of December 2009, total electricity generation excluding generation from renewable and captive power plants in India was 63417.34 MUs (Table-1).

Of the total electricity generation, 5934.97 MUs (9.36%) were transacted through short-term, comprising of 2864.03 MUs (4.52%) through Bilateral (through traders and Power Exchanges and directly between distribution companies), followed by 2430.84 MUs (3.83%) through UI and 640.09 MUs (1.01%) through Power Exchanges (IEX and PXIL) (Table-1 & Chart-2).

Of the total short-term transactions, Bilateral constitute 48.26% (36.71% through traders and Power Exchanges and 11.55% direct between distribution companies) followed by 40.96% through UI and 10.79% through Power Exchanges (Table-1& Chart-1). Daily volume of short-term transactions is shown in Chart-3&4.

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 & Chart-5. The trading

licensees are undertaking 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 are 38 trading licensees as on 30.12.2009, of which only 11 have engaged in trading during December 2009. Top 5 trading licenses had a share of 79.32% in the total volume traded by all the licensees.

Herfindahl-Hirschman Index (HHI) has been used for measuring the competition among the trading licensees. Increases in the HHI generally indicate a decrease in competition and an increase of market power, whereas decreases indicate the opposite. A HHI above 0.18 indicates high concentration. The HHI computed for volume of electricity traded by trading licensees was 0.1785 shows moderate concentration/market power (Table-2).

The volume of electricity transacted through IEX and PXIL was 541.95 MUs and 98.14 MUs respectively. The volume of total Buy bids and Sale bids was 821.12 MUs and 1359.28 MUs respectively in IEX and 144.84 MUs and 369.61 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was less demand in IEX (0.60 times) and in PXIL (0.39 times) when compared with the supply offered through these exchanges.

The volume of electricity transacted through IEX in the term ahead contracts was 32.80 MU. Of which, the volume in the 'day ahead contingency contracts' was 2.00 MU and in 'weekly contracts' was 30.80 MU (Table-5A). There is no electricity transacted through PXIL in the term ahead contracts.

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

**(1) Price of electricity transacted through Traders:** Weighted average sale price has been computed for the electricity transacted through traders and it was Rs.4.99. The weighted average sale price also computed for the transactions during Round the clock (RTC), Peak and Off-Peak periods separately and the sale price was Rs.4.96, Rs.5.12 and Rs.5.06 respectively. Minimum and Maximum sale price was Rs.1.40 and Rs.7.19 respectively (Table-3 & 4).

**(2) Price of electricity transacted Through Power Exchange:** The Minimum, Maximum and Weighted Average Price has been computed for the volume transacted through IEX and PXIL separately. The Minimum, Maximum and Weighted Average Price was Rs.0.57, Rs.5.70 and Rs.3.22 respectively in IEX and Rs.0.60, Rs.5.60 and Rs.3.07 respectively in PXIL (Table-5).

The weighted average price of electricity transacted through IEX in the term-ahead contracts was Rs.3.32/kWh in the 'day ahead contingency contracts' and Rs.4.45/KWh in the 'weekly contracts' (Table-5A).

**(3) Price of electricity transacted Through UI:** All-India UI price has been computed for NEW Grid and SR Grid separately. The average UI price was Rs.3.26 in the NEW Grid and Rs.3.92 in the SR Grid. Minimum and Maximum price of UI was Rs.0.00 and Rs.10.29 respectively in the New Grid and Rs.0.00 and Rs.10.29 respectively in the SR Grid (Table-6).

The weighted average price/average price of electricity transacted through trading licensees, power exchanges and UI and its comparison is shown in Chart-6&7.

### **III: Volume of Short-term Transactions of Electricity (Regional Entity-Wise):**

Of the total bilateral transactions, top 5 regional entities selling 60.36% of the volume are Chattisgarh, West Bengal, Karnataka, Jindal Power Ltd and Punjab and top 5 regional entities purchasing 71.15% of the volume are Rajasthan, Tamil Nadu, Uttar Pradesh, Madhya Pradesh and Jammu & Kashmir (Table-7 & 8).

Of the total Power Exchange transactions, top 5 regional entities selling 79.83% of the volume are Karnataka, Jindal Power Ltd, Chattisgarh, Gujarat and West Bengal and top 5 regional entities purchasing 80.99% of the volume are Rajasthan, Tamil Nadu, Uttar Pradesh, Maharashtra and Kerala (Table-9 & 10).

Of the total UI transactions, top 5 regional entities exporting 47.39% of the volume are Chattisgarh, Gujarat, Orissa, Delhi and Madhya Pradesh and top 5 regional entities importing 58.86% of the volume are Haryana, Rajasthan, Maharashtra, Punjab and Andhra Pradesh (Table-11 & 12).

Regional entity-wise total volume of net short-term transactions of electricity i.e. volume of net transactions through bilateral, power exchange and UI was shown in Table-13. Top 5 regional entities selling electricity are Chattisgarh, Jindal Power Ltd, Gujarat, Karnataka and West Bengal and top 5 regional entities purchasing electricity are Rajasthan, Tamil Nadu, Maharashtra, Uttar Pradesh and Haryana.

#### **IV: Inferences:**

- The percentage of short-term transactions of electricity to total electricity generation was 9.36%.
- Of the total short-term transactions of electricity, 48.26% transacted through bilateral (through traders and power exchanges and directly by distribution companies) followed by 40.96% through UI and 10.79% through Power Exchanges.
- Top 5 trading licenses are having share of 79.32% in the total volume traded by all the trading licensees.
- The price of electricity transacted through Trading Licensees was relatively high (Rs.4.99/KWh) when compared with the price of electricity transacted through Power Exchanges (Rs.3.22/KWh in IEX and Rs.3.07/KWh in PXIL) and the price of electricity transacted through UI (Rs.3.26/KWh in NEW Grid and Rs.3.92/KWh in SR Grid).
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1785 shows moderate concentration/market power.
- The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was less demand in IEX (0.60 times) and in PXIL (0.39 times) when compared with the supply offered through the exchanges.
- Top 5 regional entities selling electricity are Chattisgarh, Jindal Power Ltd, Gujarat, Karnataka and West Bengal and top 5 regional entities purchasing electricity are Rajasthan, Tamil Nadu, Maharashtra, Uttar Pradesh and Haryana.

<b>VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA) (MUs)</b>						<b>Total Electricity Generation (MUs) as given at CEA Website*</b>
<b>Month: Dec 2009</b>						
<b>Date</b>	<b>Bilateral</b>		<b>Power Exchange (Market Clearing Volume of day ahead market)</b>		<b>Unscheduled Interchange (Over Drawl+Under Generation)</b>	
	<b>Through Traders and PXs</b>	<b>Direct</b>	<b>IEX</b>	<b>PXI</b>		
1-Dec-09	56.42	23.19	16.44	6.79	74.43	1997.94
2-Dec-09	56.96	22.64	25.13	5.79	69.49	2023.10
3-Dec-09	59.28	22.21	23.68	5.82	71.79	2012.53
4-Dec-09	66.24	23.06	27.09	5.59	61.03	2026.56
5-Dec-09	66.45	23.05	21.75	5.23	67.15	2027.50
6-Dec-09	67.33	20.85	19.02	2.83	75.96	1979.34
7-Dec-09	68.52	23.05	22.86	3.71	75.14	2016.32
8-Dec-09	69.09	23.05	23.02	3.47	80.69	2039.90
9-Dec-09	66.54	22.98	23.74	3.63	72.40	2053.23
10-Dec-09	74.28	22.92	21.78	3.80	70.66	2060.27
11-Dec-09	71.95	22.25	21.45	3.20	70.26	2060.32
12-Dec-09	72.95	22.25	17.40	5.16	73.68	2043.05
13-Dec-09	71.38	20.10	20.16	3.83	76.27	2021.54
14-Dec-09	75.64	23.61	15.47	2.54	69.97	2067.91
15-Dec-09	76.71	23.28	16.12	4.31	78.62	2077.87
16-Dec-09	76.07	23.10	16.92	2.58	86.05	2068.91
17-Dec-09	79.49	22.85	12.72	2.42	83.89	2040.31
18-Dec-09	78.33	22.28	13.29	2.17	86.12	2025.93
19-Dec-09	79.07	22.05	13.87	1.50	83.23	2017.80
20-Dec-09	74.70	18.88	14.51	0.43	86.93	1981.69
21-Dec-09	67.74	21.28	14.01	0.63	79.85	2004.66
22-Dec-09	70.02	22.08	13.32	2.55	77.94	2044.10
23-Dec-09	70.31	22.30	13.92	1.38	83.80	2079.53
24-Dec-09	72.04	22.17	13.25	1.47	88.39	2087.05
25-Dec-09	71.84	20.46	12.80	1.67	85.22	2088.33
26-Dec-09	72.15	22.04	13.77	1.77	81.93	2068.77
27-Dec-09	71.69	19.54	12.35	1.03	87.60	2061.40
28-Dec-09	69.73	22.00	13.85	0.97	88.31	2070.61
29-Dec-09	68.45	22.00	16.48	3.58	77.11	2088.98
30-Dec-09	68.55	22.00	16.15	3.97	84.06	2080.34
31-Dec-09	68.65	22.00	15.64	4.35	82.87	2101.55
<b>Total</b>	<b>2178.58</b>	<b>685.46</b>	<b>541.95</b>	<b>98.14</b>	<b>2430.84</b>	<b>63417.34</b>

Source: NLDC

\* Gross Electricity Generation excluding electricity generation from renewables and captive power plants.

												Format-2
PRICE OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (Rs/KWh)												
Month: Dec 2009												
Market Segment	Day ahead market of IEX			Day ahead market of PXIL			Under Draw/Over Drawl from the Grid (UI)					
Date	Minimum MCP	Maximum MCP	Weighted Average*	Minimum MCP	Maximum MCP	Weighted Average*	NEW Grid			SR Grid		
							Minimum Price	Maximum Price	Average Price**	Minimum Price	Maximum Price	Average Price**
1-Dec-09	1.30	4.00	2.86	1.65	4.00	2.76	0.60	6.84	3.37	0.60	7.01	4.01
2-Dec-09	1.29	4.50	3.01	1.50	4.00	2.73	0.48	5.65	3.20	1.08	6.84	4.00
3-Dec-09	1.40	4.00	2.79	1.22	4.00	2.65	0.72	6.16	3.43	1.56	10.29	4.57
4-Dec-09	1.40	4.25	2.96	1.40	4.50	2.91	0.24	10.29	3.69	0.60	6.50	3.90
5-Dec-09	1.31	5.00	3.10	1.48	4.50	2.84	0.72	7.01	3.88	0.84	5.99	3.90
6-Dec-09	1.09	4.00	2.64	1.65	4.50	2.68	0.00	6.16	2.44	0.00	5.31	2.89
7-Dec-09	1.09	4.50	2.97	1.25	4.50	2.74	0.00	4.80	2.47	0.48	5.65	3.60
8-Dec-09	0.99	4.20	2.81	1.24	4.50	2.68	0.72	6.16	3.43	0.84	10.29	4.62
9-Dec-09	0.95	4.50	3.01	1.22	4.50	2.90	0.36	6.50	3.80	0.00	10.29	4.39
10-Dec-09	0.99	5.00	3.72	1.10	4.50	3.26	1.08	6.50	4.00	1.56	10.29	4.56
11-Dec-09	0.60	5.00	3.78	1.65	4.20	3.93	0.84	6.50	3.46	0.84	10.29	4.77
12-Dec-09	0.99	5.00	3.89	1.80	4.60	3.86	0.72	7.01	3.89	1.80	10.29	5.31
13-Dec-09	0.99	5.00	3.65	1.12	5.00	2.86	1.08	6.50	3.49	0.96	6.84	3.72
14-Dec-09	0.60	5.05	3.89	1.40	5.00	3.05	0.00	7.18	4.01	1.32	10.29	4.56
15-Dec-09	0.63	5.25	3.74	1.80	5.00	3.65	0.00	6.67	3.56	1.80	10.29	4.55
16-Dec-09	0.81	5.70	3.93	1.80	3.75	3.45	0.84	5.99	3.54	1.80	10.29	4.66
17-Dec-09	0.57	5.70	3.79	1.79	3.60	3.31	0.24	6.84	3.77	0.96	6.16	4.02
18-Dec-09	0.82	5.70	3.51	1.25	5.47	3.77	0.36	6.67	3.39	0.60	6.84	3.82
19-Dec-09	0.58	5.60	3.45	1.70	5.60	3.54	0.36	6.33	3.59	0.00	6.84	3.99
20-Dec-09	0.97	5.40	2.95	1.60	3.50	2.78	0.00	6.84	2.94	0.00	6.16	2.99
21-Dec-09	0.58	5.20	3.37	1.80	3.50	2.97	0.00	5.99	2.43	0.00	6.16	3.48
22-Dec-09	0.75	4.80	3.24	1.49	3.70	3.36	0.00	5.48	2.81	0.72	6.84	3.36
23-Dec-09	0.58	4.80	3.19	1.48	3.50	2.94	0.24	5.99	2.83	1.32	5.99	3.57
24-Dec-09	0.58	5.00	3.08	1.98	5.20	3.19	0.24	5.99	3.08	0.72	5.82	3.54
25-Dec-09	0.57	4.80	2.90	1.47	5.20	3.39	0.48	5.82	2.94	0.72	5.82	3.79
26-Dec-09	0.57	5.00	3.01	0.60	5.20	3.17	0.48	6.33	3.12	1.32	6.16	3.77
27-Dec-09	0.57	5.00	2.66	0.60	5.10	2.98	0.72	5.99	2.55	1.32	5.48	3.32
28-Dec-09	0.57	5.00	3.04	1.15	5.00	3.08	0.00	5.82	3.14	1.44	6.67	3.81
29-Dec-09	0.99	5.00	3.24	1.20	5.00	3.05	0.36	6.67	3.50	0.72	5.65	3.43
30-Dec-09	0.60	4.80	3.02	1.15	4.80	3.00	0.00	5.65	2.37	0.00	5.65	2.87
31-Dec-09	1.00	4.70	3.12	1.15	4.70	2.96	0.00	5.65	2.88	0.48	7.01	3.87
	<b>0.57#</b>	<b>5.70#</b>	<b>3.22</b>	<b>0.60#</b>	<b>5.60#</b>	<b>3.07</b>	<b>0.00#</b>	<b>10.29#</b>	<b>3.26</b>	<b>0.00#</b>	<b>10.29#</b>	<b>3.92</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 Market Clearing Volume (MCV) and Market Clearing Price (MCP) for each hour of the day

\*\* 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

VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (STATE-WISE) (MUs)										
Month: Dec 2009										
Name of the State/UT/Other Regional Entity	Through Bilateral			Through Power Exchange			Through UI with Regional Grid			Total Net**
	Sale	Purchase	Net*	Sale	Purchase	Net*	Export (Under Drawl)	Import (Over Drawl)	Net*	
Punjab	281.70	32.33	-249.37	7.06	17.38	10.32	10.31	185.75	175.44	-63.60
Haryana	122.08	14.63	-107.46	0.57	21.34	20.77	0.58	421.41	420.83	334.14
Rajasthan	42.39	598.17	555.78	4.61	166.04	161.43	28.42	279.84	251.42	968.62
Delhi	171.53	203.44	31.92	55.95	4.57	-51.38	191.32	2.97	-188.35	-207.82
Uttar Pradesh	2.40	385.24	382.84	0.00	85.21	85.21	136.80	62.18	-74.62	393.43
Uttarakhand	0.00	110.52	110.52	0.00	0.00	0.00	2.05	104.57	102.53	213.05
Himachal Pradesh	7.18	189.97	182.79	21.40	0.00	-21.40	29.67	30.50	0.83	162.23
J & K	37.38	206.93	169.55	0.00	0.00	0.00	19.08	78.59	59.51	229.05
UT Chandigarh	5.43	22.02	16.59	0.00	0.00	0.00	5.29	9.65	4.36	20.95
MP	12.20	278.13	265.93	8.70	0.11	-8.59	155.40	59.60	-95.80	161.53
Maharashtra	29.97	197.47	167.50	0.96	82.18	81.22	56.36	262.95	206.59	455.30
Gujarat	189.77	0.00	-189.77	79.68	2.17	-77.50	199.08	24.49	-174.59	-441.87
Chattisgarh	475.18	0.00	-475.18	116.89	0.00	-116.89	308.99	3.30	-305.69	-897.76
Daman and Diu	0.00	0.00	0.00	2.94	0.00	-2.94	53.28	0.00	-53.28	-56.22
Dadra & Nagar Haveli	0.00	0.00	0.00	0.00	0.00	0.00	46.20	1.03	-45.18	-45.18
Andhra Pradesh	194.76	1.93	-192.82	7.43	45.88	38.45	49.84	120.59	70.75	-83.62
Karnataka	319.39	1.80	-317.59	128.47	0.00	-128.47	17.49	117.48	99.98	-346.08
Kerala	110.77	17.82	-92.95	0.00	73.36	73.36	1.64	72.76	71.12	51.53
Tamilnadu	55.72	578.61	522.90	0.00	111.61	111.61	80.25	61.76	-18.49	616.02
Pondicherry	0.00	0.00	0.00	0.00	0.00	0.00	26.41	0.27	-26.15	-26.15
West Bengal	359.69	11.98	-347.71	68.85	2.97	-65.88	23.73	115.09	91.36	-322.23
Orissa	29.68	0.00	-29.68	2.15	1.32	-0.83	196.08	18.36	-177.72	-208.23
Bihar	0.00	0.00	0.00	0.00	7.85	7.85	50.05	10.54	-39.51	-31.66
Jharkhand	0.00	25.28	25.28	0.00	0.00	0.00	52.37	2.05	-50.32	-25.04
Sikkim	0.00	0.00	0.00	11.06	0.00	-11.06	2.94	14.83	11.89	0.83
DVC	45.65	0.00	-45.65	0.00	0.00	0.00	132.18	10.18	-122.00	-167.65
Arunachal Pradesh	0.17	0.00	-0.17	0.00	1.68	1.68	1.25	4.20	2.95	4.45
Assam	0.00	0.00	0.00	0.00	0.00	0.00	41.93	3.14	-38.80	-38.80
Manipur	0.00	0.00	0.00	0.00	0.00	0.00	4.16	5.99	1.83	1.83
Meghalaya	8.42	0.00	-8.42	0.00	16.29	16.29	0.40	22.51	22.11	29.97
Mizoram	0.00	0.60	0.60	0.00	0.12	0.12	0.17	5.19	5.01	5.73
Nagaland	0.00	0.00	0.00	0.00	0.00	0.00	0.40	9.31	8.91	8.91
Tripura	9.38	0.12	-9.26	6.01	0.00	-6.01	13.99	0.62	-13.36	-28.63
GOA	0.00	0.00	0.00	0.00	0.00	0.00	32.73	3.97	-28.77	-28.77
JINDAL POWER	290.96	0.00	-290.96	117.12	0.00	-117.12	63.57	11.42	-52.14	-460.22
LANKO_AMK	0.00	0.00	0.00	0.00	0.00	0.00	144.16	0.12	-144.05	-144.05
MUNDRA APL	0.00	0.00	0.00	0.00	0.00	0.00	9.17	3.25	-5.92	-5.92
LANKO_KONDAPALLY	59.41	0.00	-59.41	0.24	0.00	-0.24	29.87	18.24	-11.63	-71.28

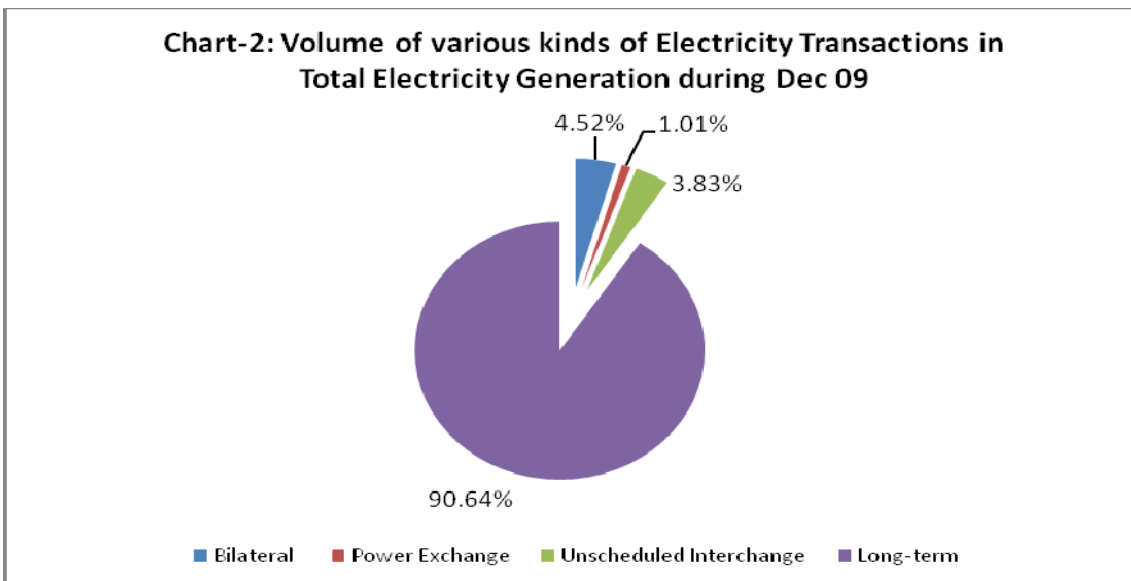
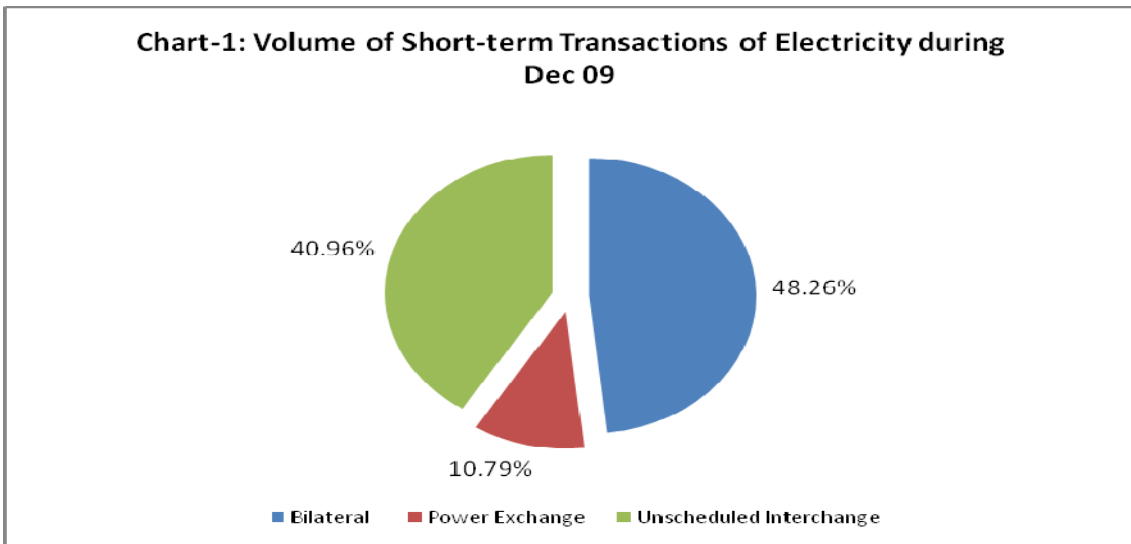
Source: NLDC

\* (-) indicates sale and (+) indicates purchase

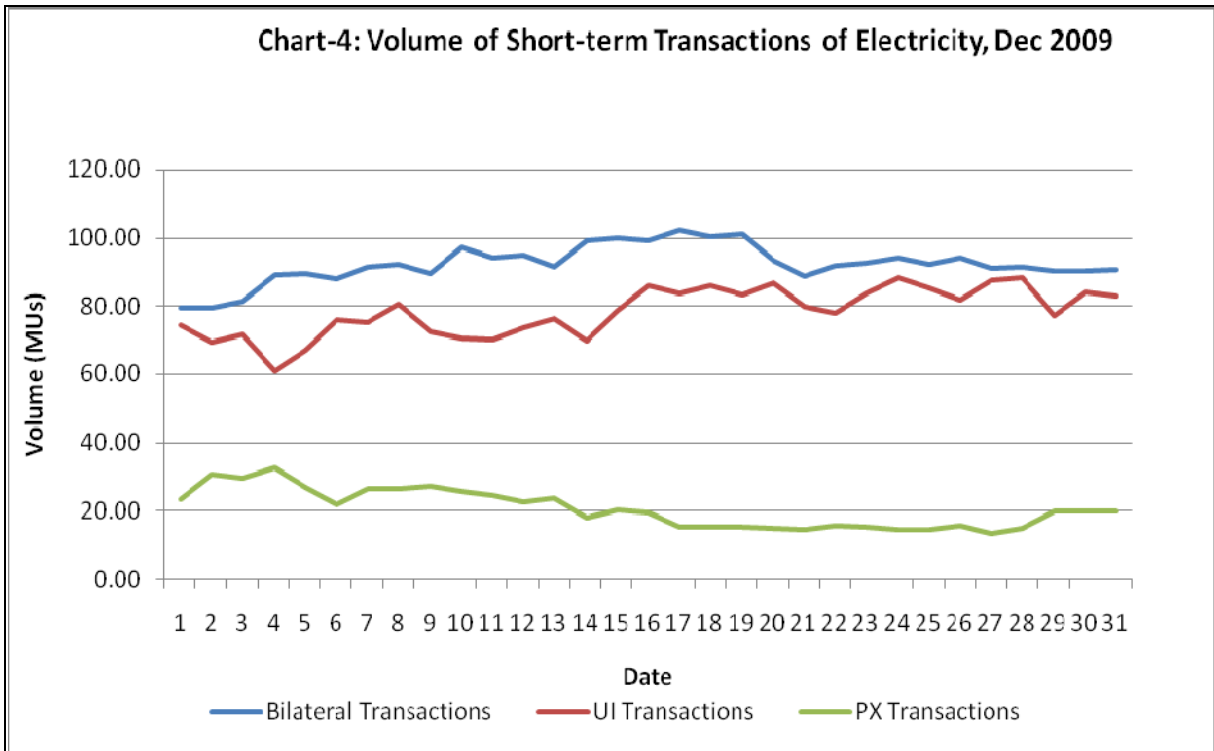
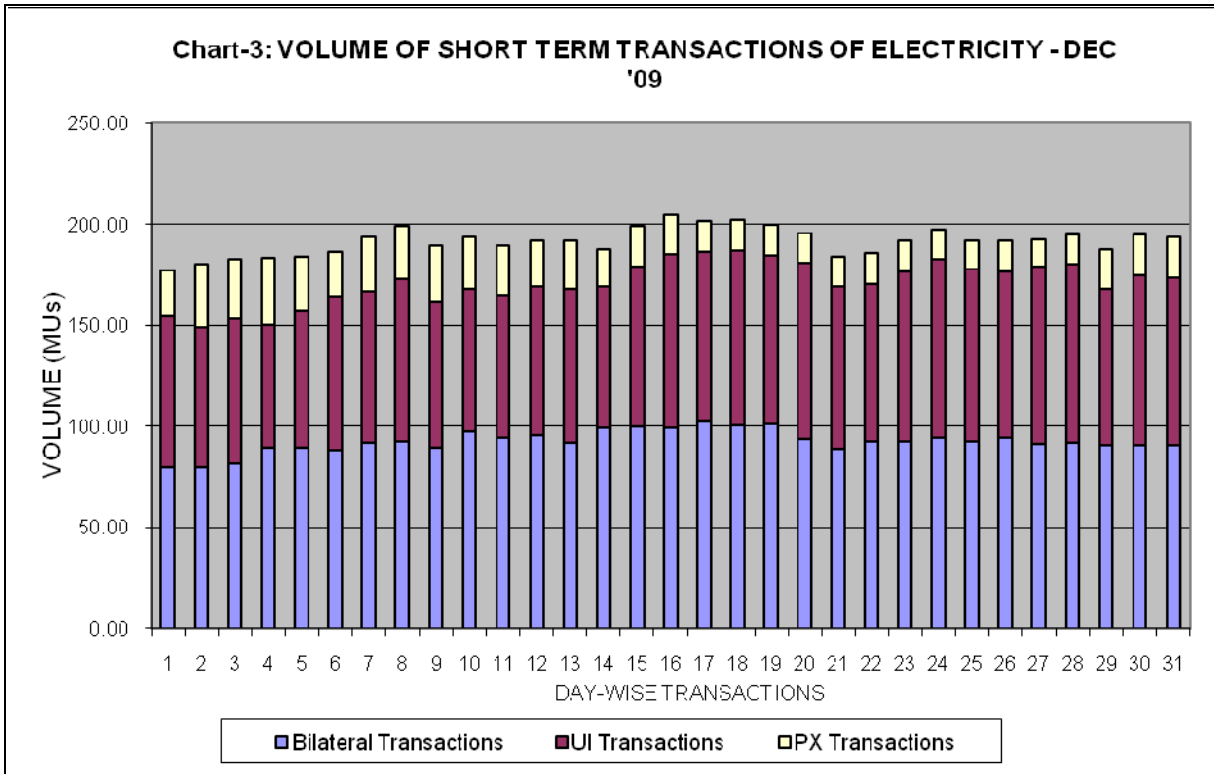
\*\* Total net includes net of transactions through bilateral, power exchange and UI

Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA) DURING DEC 2009				
Sr.No	Short-term transactions	Volume (MUs)	% to Volume of short-term transactions	% to Total Generation
1	Bilateral	2864.03	48.26%	4.52%
	(i) Through Traders and PXs	2178.58	36.71%	3.44%
	(ii) Direct	685.46	11.55%	1.08%
2	Through Power Exchange	640.09	10.79%	1.01%
3	Through UI	2430.84	40.96%	3.83%
	<b>Total</b>	<b>5934.97</b>	<b>100.00%</b>	<b>9.36%</b>
	<b>Total Generation</b>	<b>63417.34</b>		

Source: NLDC







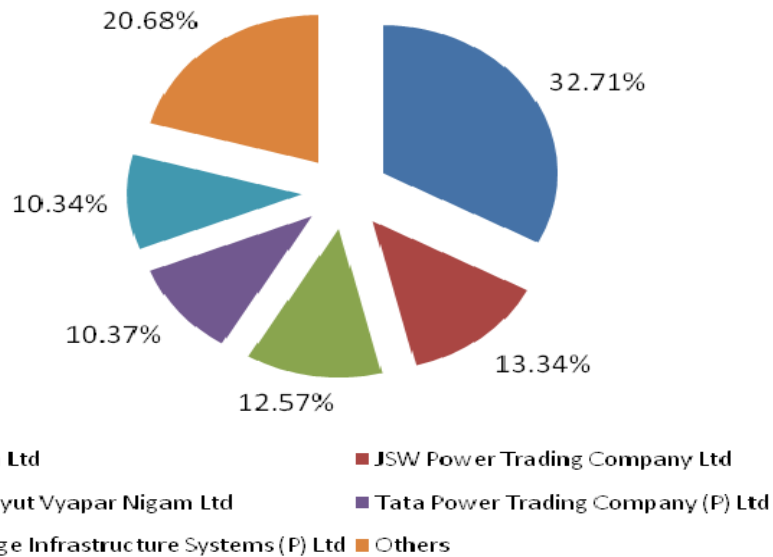
**Table-2: Percentage Share of Electricity Traded by Trading Licensees during Dec 2009**

Sr.No	Name of the Trading Licensee	% Share in total Volume traded by Licensees	Herfindahl-Hirschman Index
1	PTC India Ltd	32.71%	0.1070
2	JSW Power Trading Company Ltd	13.34%	0.0178
3	NTPC Vidyut Vyapar Nigam Ltd	12.57%	0.0158
4	Tata Power Trading Company (P) Ltd	10.37%	0.0107
5	Knowledge Infrastructure Systems (P) Ltd	10.34%	0.0107
6	Reliance Energy Trading (P) Ltd	9.33%	0.0087
7	Lanco Electric Utility Ltd	8.70%	0.0076
8	Adani Enterprises Ltd	1.14%	0.0001
9	GMR Energy Trading Ltd	0.78%	0.0001
10	RPG Power Trading Company Ltd	0.67%	0.0000
11	Instinct Advertisement & Marketing Ltd	0.06%	0.0000
	<b>Total</b>	<b>100.00%</b>	<b>0.1785</b>
	<b>Top 5 trading licensees</b>	<b>79.32%</b>	

Note: Volume of electricity traded by the licensees includes bilateral transactions and the transactions undertaken through power exchanges.

Source: Information submitted by trading licensees

**Chart-5: Percentage Share of Electricity Traded by Trading Licensees during Dec 09**



<b>Table-3: PRICE OF POWER TRANSACTED THROUGH TRADERS</b>		
<b>Sr.No</b>	<b>Period of Trade</b>	<b>Weighted Average Sale Price (Rs)</b>
1	RTC	4.96
2	PEAK	5.12
3	OFF PEAK	5.06
	<b>Total</b>	<b>4.99</b>

Source: Information submitted by trading licensees

<b>Table-4: PRICE OF POWER TRANSACTED THROUGH TRADERS</b>		
<b>Sr.No</b>		<b>Sale Price (Rs/KWh)</b>
1	Minimum	1.40
2	Maximum	7.19
3	Weighted Average	<b>4.99</b>

Source: Information submitted by trading licensees

<b>Table-5: PRICE OF POWER TRANSACTED THROUGH POWER EXCHANGE (Rs/KWh)</b>			
<b>Sr.No</b>	<b>MCP</b>	<b>IEX</b>	<b>PXIL</b>
1	Minimum	0.57	0.60
2	Maximum	5.70	5.60
3	Weighted Average	3.22	3.07

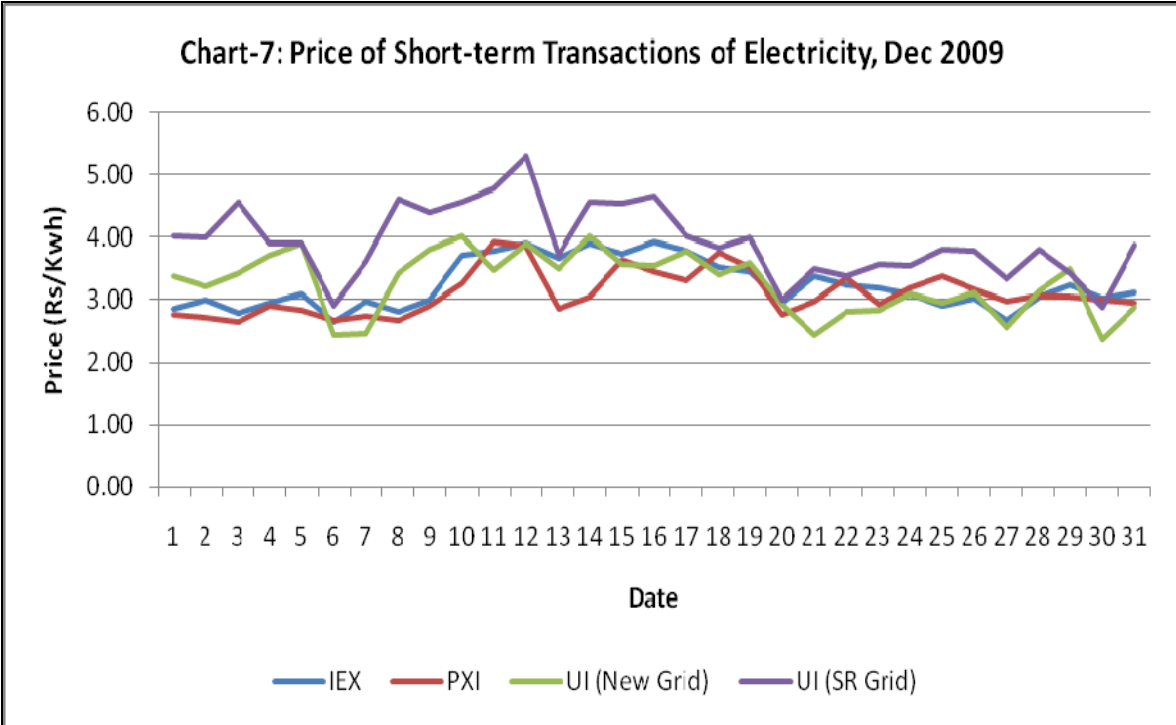
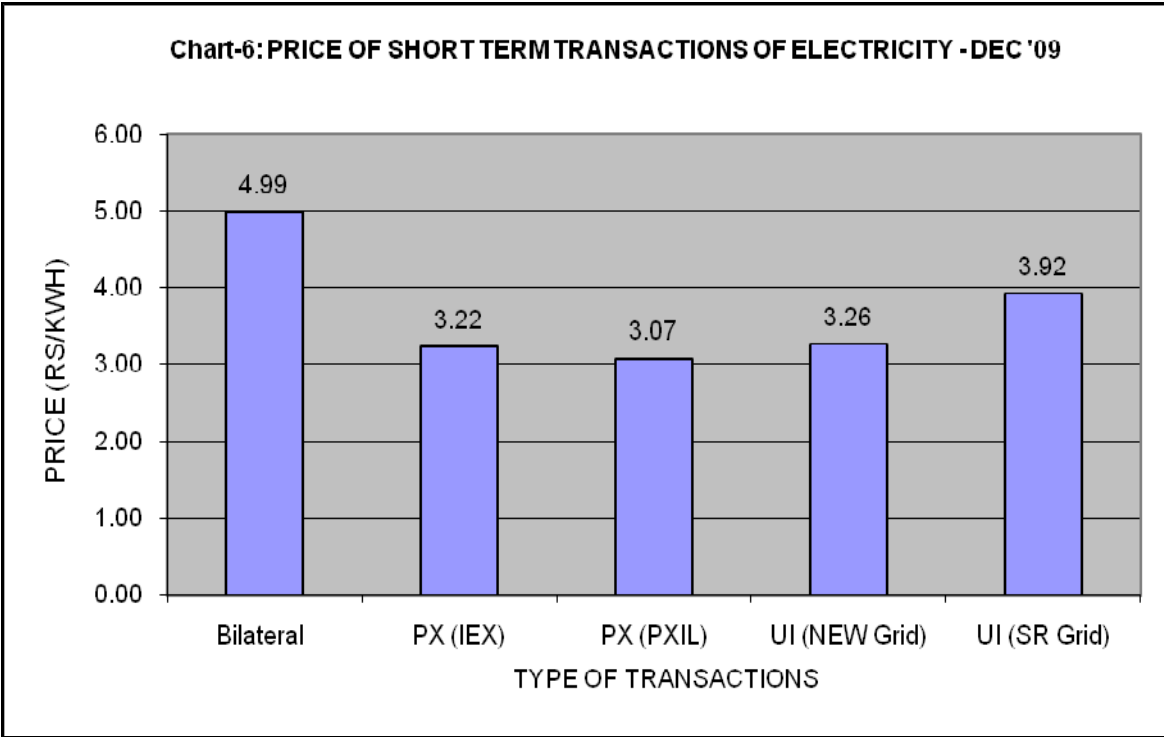
Source: Information submitted by IEX and PXIL

<b>Table-5A: Term ahead market of IEX</b>			
<b>Sr.No</b>	<b>Term ahead contracts</b>	<b>Actual Scheduled Volume (MUs)</b>	<b>Weighted Average Price (Rs/kwh)</b>
1	Intra-Day Contracts		
2	Day-Ahead Contingency Contracts	2.00	3.32
3	Daily Contracts		
4	Weekly Contracts	30.80	4.45
	<b>Total</b>	<b>32.80</b>	

Source: IEX

<b>Table-6: PRICE OF POWER TRANSACTED THROUGH UI (Rs/KWh)</b>			
<b>Sr.No</b>		<b>NEW Grid</b>	<b>SR Grid</b>
1	Minimum	0.00	0.00
2	Maximum	10.29	10.29
3	Average	3.26	3.92

Source: NLDC



<b>Table-7: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
Chattisgarh	475.18	16.61%
West Bengal	359.69	12.57%
Karnataka	319.39	11.16%
JINDAL POWER	290.96	10.17%
Punjab	281.70	9.85%
Andhra Pradesh	194.76	6.81%
Gujarat	189.77	6.63%
Delhi	171.53	5.99%
Haryana	122.08	4.27%
Kerala	110.77	3.87%
LANKO_KONDAPALLY	59.41	2.08%
Tamilnadu	55.72	1.95%
DVC	45.65	1.60%
Rajasthan	42.39	1.48%
J & K	37.38	1.31%
Maharashtra	29.97	1.05%
Orissa	29.68	1.04%
MP	12.20	0.43%
Tripura	9.38	0.33%
Meghalaya	8.42	0.29%
Himachal Pradesh	7.18	0.25%
UT Chandigarh	5.43	0.19%
Uttar Pradesh	2.40	0.08%
Arunachal Pradesh	0.17	0.01%
Uttarakhand	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Pondicherry	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Mizoram	0.00	0.00%
Nagaland	0.00	0.00%
GOA	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
<b>Total</b>	<b>2861.19</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>1726.91</b>	<b>60.36%</b>

<b>Table-8: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
Rajasthan	598.17	20.79%
Tamilnadu	578.61	20.11%
Uttar Pradesh	385.24	13.39%
MP	278.13	9.67%
J & K	206.93	7.19%
Delhi	203.44	7.07%
Maharashtra	197.47	6.86%
Himachal Pradesh	189.97	6.60%
Uttarakhand	110.52	3.84%
Punjab	32.33	1.12%
Jharkhand	25.28	0.88%
UT Chandigarh	22.02	0.77%
Kerala	17.82	0.62%
Haryana	14.63	0.51%
West Bengal	11.98	0.42%
Andhra Pradesh	1.93	0.07%
Karnataka	1.80	0.06%
Mizoram	0.60	0.02%
Tripura	0.12	0.00%
Gujarat	0.00	0.00%
Chattisgarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Pondicherry	0.00	0.00%
Orissa	0.00	0.00%
Bihar	0.00	0.00%
Sikkim	0.00	0.00%
DVC	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Meghalaya	0.00	0.00%
Nagaland	0.00	0.00%
GOA	0.00	0.00%
JINDAL POWER	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
LANKO_KONDAPALLY	0.00	0.00%
<b>Total</b>	<b>2876.98</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>2047.07</b>	<b>71.15%</b>

<b>Table-9: VOLUME OF ELECTRICITY SALE THROUGH POWER EXCHANGE</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Sale (MUs)</b>	<b>% of Volume</b>
Karnataka	128.47	20.07%
JINDAL POWER	117.12	18.30%
Chattisgarh	116.89	18.26%
Gujarat	79.68	12.45%
West Bengal	68.85	10.76%
Delhi	55.95	8.74%
Himachal Pradesh	21.40	3.34%
Sikkim	11.06	1.73%
MP	8.70	1.36%
Andhra Pradesh	7.43	1.16%
Punjab	7.06	1.10%
Tripura	6.01	0.94%
Rajasthan	4.61	0.72%
Daman and Diu	2.94	0.46%
Orissa	2.15	0.34%
Maharashtra	0.96	0.15%
Haryana	0.57	0.09%
LANKO_KONDAPALLY	0.24	0.04%
Uttar Pradesh	0.00	0.00%
Uttarakhand	0.00	0.00%
J & K	0.00	0.00%
UT Chandigarh	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Kerala	0.00	0.00%
Tamilnadu	0.00	0.00%
Pondicherry	0.00	0.00%
Bihar	0.00	0.00%
Jharkhand	0.00	0.00%
DVC	0.00	0.00%
Arunachal Pradesh	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Meghalaya	0.00	0.00%
Mizoram	0.00	0.00%
Nagaland	0.00	0.00%
GOA	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
<b>Total</b>	<b>640.09</b>	<b>100.00%</b>
<b>Volume of sale by top 5 States</b>	<b>511.01</b>	<b>79.83%</b>

<b>Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGE</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Purchase (MUs)</b>	<b>% of Volume</b>
Rajasthan	166.04	25.94%
Tamilnadu	111.61	17.44%
Uttar Pradesh	85.21	13.31%
Maharashtra	82.18	12.84%
Kerala	73.36	11.46%
Andhra Pradesh	45.88	7.17%
Haryana	21.34	3.33%
Punjab	17.38	2.72%
Meghalaya	16.29	2.54%
Bihar	7.85	1.23%
Delhi	4.57	0.71%
West Bengal	2.97	0.46%
Gujarat	2.17	0.34%
Arunachal Pradesh	1.68	0.26%
Orissa	1.32	0.21%
Mizoram	0.12	0.02%
MP	0.11	0.02%
Uttarakhand	0.00	0.00%
Himachal Pradesh	0.00	0.00%
J & K	0.00	0.00%
UT Chandigarh	0.00	0.00%
Chattisgarh	0.00	0.00%
Daman and Diu	0.00	0.00%
Dadra & Nagar Haveli	0.00	0.00%
Karnataka	0.00	0.00%
Pondicherry	0.00	0.00%
Jharkhand	0.00	0.00%
Sikkim	0.00	0.00%
DVC	0.00	0.00%
Assam	0.00	0.00%
Manipur	0.00	0.00%
Nagaland	0.00	0.00%
Tripura	0.00	0.00%
GOA	0.00	0.00%
JINDAL POWER	0.00	0.00%
LANKO_AMK	0.00	0.00%
MUNDRA APL	0.00	0.00%
LANKO_KONDAPALLY	0.00	0.00%
<b>Total</b>	<b>640.10</b>	<b>100.00%</b>
<b>Volume of purchase by top 5 States</b>	<b>518.40</b>	<b>80.99%</b>



<b>Table-11: VOLUME OF ELECTRICITY EXPORT THROUGH UI</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Export (MUs)</b>	<b>% of Volume</b>
Chattisgarh	308.99	13.93%
Gujarat	199.08	8.98%
Orissa	196.08	8.84%
Delhi	191.32	8.63%
MP	155.40	7.01%
LANKO_AMK	144.16	6.50%
Uttar Pradesh	136.80	6.17%
DVC	132.18	5.96%
Tamilnadu	80.25	3.62%
JINDAL POWER	63.57	2.87%
Maharashtra	56.36	2.54%
Daman and Diu	53.28	2.40%
Jharkhand	52.37	2.36%
Bihar	50.05	2.26%
Andhra Pradesh	49.84	2.25%
Dadra & Nagar Haveli	46.20	2.08%
Assam	41.93	1.89%
GOA	32.73	1.48%
LANKO_KONDAPALLY	29.87	1.35%
Himachal Pradesh	29.67	1.34%
Rajasthan	28.42	1.28%
Pondicherry	26.41	1.19%
West Bengal	23.73	1.07%
J & K	19.08	0.86%
Karnataka	17.49	0.79%
Tripura	13.99	0.63%
Punjab	10.31	0.46%
MUNDRA APL	9.17	0.41%
UT Chandigarh	5.29	0.24%
Manipur	4.16	0.19%
Sikkim	2.94	0.13%
Uttarakhand	2.05	0.09%
Kerala	1.64	0.07%
Arunachal Pradesh	1.25	0.06%
Haryana	0.58	0.03%
Meghalaya	0.40	0.02%
Nagaland	0.40	0.02%
Mizoram	0.17	0.01%
<b>Total</b>	<b>2217.62</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>1050.87</b>	<b>47.39%</b>

<b>Table-12: VOLUME OF ELECTRICITY IMPORT THROUGH UI</b>		
<b>Name of the State/UT/Other Regional Entity</b>	<b>Volume of Import (MUs)</b>	<b>% of Volume</b>
Haryana	421.41	19.52%
Rajasthan	279.84	12.96%
Maharashtra	262.95	12.18%
Punjab	185.75	8.60%
Andhra Pradesh	120.59	5.59%
Karnataka	117.48	5.44%
West Bengal	115.09	5.33%
Uttarakhand	104.57	4.84%
J & K	78.59	3.64%
Kerala	72.76	3.37%
Uttar Pradesh	62.18	2.88%
Tamilnadu	61.76	2.86%
MP	59.60	2.76%
Himachal Pradesh	30.50	1.41%
Gujarat	24.49	1.13%
Meghalaya	22.51	1.04%
Orissa	18.36	0.85%
LANKO_KONDAPALLY	18.24	0.84%
Sikkim	14.83	0.69%
JINDAL POWER	11.42	0.53%
Bihar	10.54	0.49%
DVC	10.18	0.47%
UT Chandigarh	9.65	0.45%
Nagaland	9.31	0.43%
Manipur	5.99	0.28%
Mizoram	5.19	0.24%
Arunachal Pradesh	4.20	0.19%
GOA	3.97	0.18%
Chattisgarh	3.30	0.15%
MUNDRA APL	3.25	0.15%
Assam	3.14	0.15%
Delhi	2.97	0.14%
Jharkhand	2.05	0.10%
Dadra & Nagar Haveli	1.03	0.05%
Tripura	0.62	0.03%
Pondicherry	0.27	0.01%
LANKO_AMK	0.12	0.01%
Daman and Diu	0.00	0.00%
<b>Total</b>	<b>2158.68</b>	<b>100.00%</b>
<b>Volume of Export by top 5 States</b>	<b>1270.54</b>	<b>58.86%</b>

<b>Table-13: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE)</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	Rajasthan	968.62
2	Tamilnadu	616.02
3	Maharashtra	455.30
4	Uttar Pradesh	393.43
5	Haryana	334.14
6	J & K	229.05
7	Uttarakhand	213.05
8	Himachal Pradesh	162.23
9	MP	161.53
10	Kerala	51.53
11	Meghalaya	29.97
12	UT Chandigarh	20.95
13	Nagaland	8.91
14	Mizoram	5.73
15	Arunachal Pradesh	4.45
16	Manipur	1.83
17	Sikkim	0.83
18	MUNDRA APL	-5.92
19	Jharkhand	-25.04
20	Pondicherry	-26.15
21	Tripura	-28.63
22	GOA	-28.77
23	Bihar	-31.66
24	Assam	-38.80
25	Dadra & Nagar Haveli	-45.18
26	Daman and Diu	-56.22
27	Punjab	-63.60
28	LANKO_KONDAPALLY	-71.28
29	Andhra Pradesh	-83.62
30	LANKO_AMK	-144.05
31	DVC	-167.65
32	Delhi	-207.82
33	Orissa	-208.23
34	West Bengal	-322.23
35	Karnataka	-346.08
36	Gujarat	-441.87
37	JINDAL POWER	-460.22
38	Chattisgarh	-897.76
* 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		