Monthly Report on Short-term Transactions of Electricity in India

October, 2014



Economics Division Central Electricity Regulatory Commission 3rd & 4th Floor, Chanderlok Building 36, Janpath, New Delhi -110001.

Contents

| S.No | Contents | Page No |
|-------|--|---------|
| | Contents | 2 |
| | List of Tables and Figures | 3 |
| | Abbreviations | 4 |
| | Introduction | 6 |
| Ι | Volume of Short-term Transactions of Electricity | 6 |
| II | Price of Short-term Transactions of Electricity | 7 |
| (i) | Price of electricity transacted through Traders | 7 |
| (ii) | Price of electricity transacted Through Power Exchange | 7 |
| (iii) | Price of electricity transacted Through UI | 8 |
| III | Volume of Short-term Transactions of Electricity (Regional Entity- wise) | 8 |
| IV | Congestion on Inter-state Transmission Corridor for Day-Ahead Market on Power Exchanges | 9 |
| V | Analysis of Bilateral Contracts executed by Traders in November 2014 | 10 |
| (i) | Duration of bilateral contracts | 10 |
| (ii) | Forward Curve based on Prices of bilateral contracts | 10 |
| VI | Volume and Price of Renewable Energy Certificates (RECs) | 11 |
| VII | Inferences | 12 |

List of Tables and Figures

| S.No. | List of Tables and Figures | Page No. |
|----------|--|----------|
| Ι | List of Tables | C |
| Table-1 | Volume of Short-term Transactions of Electricity in India | 14 |
| Table-2 | Percentage Share of Electricity Transacted by Trading Licensees | 16 |
| Table-3 | Price of Electricity Transacted through Traders | 17 |
| Table-4 | Price of Electricity Transacted through Traders (Time-wise) | 17 |
| Table-5 | Price of Electricity Transacted through Power Exchanges | 17 |
| Table-6 | Volume and Price of Electricity in Term Ahead Market of IEX | 17 |
| Table-7 | Volume and Price of Electricity in Term Ahead Market of PXIL | 17 |
| Table-8 | Price of Electricity Transacted through UI | 17 |
| Table-9 | Volume of Electricity Sale through Bilateral | 19 |
| Table-10 | Volume of Electricity Purchase through Bilateral | 20 |
| Table-11 | Volume of Electricity Sale through Power Exchanges | 21 |
| Table-12 | Volume of Electricity Purchase through Power Exchanges | 22 |
| Table-13 | Volume of Electricity Export through UI | 23 |
| Table-14 | Volume of Electricity Import through UI | 24 |
| Table-15 | Total Volume of Net Short-term Transactions of Electricity (Regional Entity-wise) | 25 |
| Table-16 | Details of Congestion in Power Exchanges | 27 |
| Table-17 | Volume of Short-term Transactions of Electricity in India (Day- wise) | 28 |
| Table-18 | Price of Short-term Transactions of Electricity (Day-wise) | 29 |
| Table-19 | Volume of Short-term Transactions of Electricity (Regional Entity-wise) | 30 |
| Table-20 | Volume and Price of Renewable Energy Certificates (RECs) Transacted through Power Exchanges | 33 |
| II | List of Figures | |
| Figure-1 | Volume of Short-term Transactions of Electricity | 14 |
| Figure-2 | Volume of Various Kinds of Electricity Transactions in Total Electricity Generation | 14 |
| Figure-3 | Volume of Short-term Transactions of Electricity (Day-wise) | 15 |
| Figure-4 | Percentage Share of Electricity Transacted by Trading Licensees | 16 |
| Figure-5 | Price of Short-term Transactions of Electricity | 18 |
| Figure-6 | Price of Short-term Transactions of Electricity (Day-wise) | 18 |
| Figure-7 | Bilateral Contracts Executed by Traders in September, 2014 | 32 |
| Figure-8 | Forward Curve based on Prices of Bilateral Contracts | 32 |

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 |
| DHARIWAL POWER | Dhariwal Power Station |
| DVC | Damodar Valley Corporation |
| ЕМСО | EMCO Energy Limited |
| ESSAR STEEL | Essar Steel Ltd |
| GMR KAMALANGA | GMR Kamalanga Energy Ltd. |
| IEX | Indian Energy Exchange Limited |
| J&K | Jammu & Kashmir |
| JAYPEE NIGRIE | Jaypee Nigrie Super Thermal Power Project |
| JINDAL POWER | Jindal Power Limited |
| JINDAL STAGE-II | Jindal Power Ltd Stage II |
| JITPL | Jindal India Thermal Power Ltd. |
| KARCHAM WANGTOO | Jaypee Karcham Hydro Corporation Limited |
| KSK MAHANADI | KSK Mahanadi Power Ltd |
| LANCO BUDHIL | Lanco Budhil Hydro Power Private Limited |
| LANKO_AMK | Lanco Amarkantak Power Private Limited |
| LANKO_KONDAPALLY | Lanco Kondapally 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 |
| OTC | Over The Counter |
| LANKO_AMK LANKO_KONDAPALLY MALANA Meenakshi MP MUs NEEPCO Stations NHPC Stations NJPC NLDC NSPCL ONGC PALATANA | Lanco Amarkantak Power Private Limited Lanco Kondapally Power Private Limited Malana Hydroelectric Plant Meenakshi Energy Private Limited Madhya Pradesh Million Units North Eastern Electric Power Corporation Limited. Stations National Hydro Electric Power Corporation Ltd. Stations Nathpa Jhakri Hydroelectric Power Station National Load Despatch Centre NTPC - SAIL Power Company Private Limited Oil and Natural Gas Corporation, Palatana |

| 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 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 October, 2014 is as under:

I: Volume of Short-term Transactions of Electricity

During the month of October 2014, total electricity generation excluding generation from renewable and captive power plants in India was 90417.87 MUs (Table-1).

Of the total electricity generation, 7776.76 MUs (8.60%) were transacted through short-term, comprising of 3201.36 MUs (3.54%) through Bilateral (through traders and term-ahead contracts on Power Exchanges and directly between distribution companies), followed by 2799.79 MUs (3.10%) through day ahead collective transactions on Power Exchanges (IEX and PXIL) and 1775.60 MUs (1.96%) through UI (Table-1 & Figure-2).

Of the total short-term transactions, Bilateral constitute 41.17% (29.76% through traders and term-ahead contracts on Power Exchanges and 11.41% directly between distribution companies) followed by 36% through day ahead collective transactions on Power Exchanges and 22.83% 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 47 trading licensees as on 31.10.2014, of which only 23 have engaged in trading during October 2014. Top 5 trading licensees had a share of 69.80% 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 0.1452 for the month of October 2014, which indicates non-concentration of market power (Table-2).

The volume of electricity transacted through IEX and PXIL in the day ahead market was 2790.75 MUs and 9.04 MUs respectively. The volume of total Buy bids and Sale bids was 4490.46 MUs and 3825.42 MUs respectively in IEX and 64.24 MUs and 15.70 MUs respectively in PXIL. The gap between the volume of buy bids and sale bids placed through power exchanges shows that there was greater demand in IEX (1.17 times) and PXIL (4.09 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 20.17 MUs and 39.97 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 $\overline{4.56/kWh}$. 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 $\overline{4.61/kWh}$, $\overline{4.77/kWh}$ and $\overline{4.15/kWh}$ respectively. Minimum and Maximum sale prices were $\overline{2.52/kWh}$ and $\overline{7.99/kWh}$ 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

₹1.10/kWh, ₹20/kWh and ₹4.33/kWh respectively in IEX and ₹1.20/kWh, ₹6.52/kWh and ₹3.45/kWh respectively in PXIL (Table-5).

The price of electricity transacted through IEX and PXIL in the term-ahead market was ₹4.63/kWh and ₹4.61/kWh respectively (Table-6 and Table-7).

(iii) Price of electricity transacted Through UI: The average UI price was ₹2.22/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 53.92% of the volume, and these were Karnataka, Gujarat, Jindal Power Ltd, Simhapuri Energy Private Ltd and Sterlite India Ltd. Top 5 regional entities purchased 66.35% of the volume, and these were Maharashtra, Andhra Pradesh, Uttar Pradesh, Bihar and Telangana. (Table-9, 10 & 19).

Of the total Power Exchange transactions, top 5 regional entities sold 36.57% of the volume, and these were Sterlite India Ltd, Karnataka, Chhattisgarh, Jindal Power Ltd and Gujarat. Top 5 regional entities purchased 61.71% of the volume, and these were Maharashtra, Uttar Pradesh, Telangana, Gujarat and Rajasthan. (Table-11, 12 & 19).

Of the total UI transactions, top 5 regional entities underdrew 44.59% of the volume, and these were Maharashtra, Punjab, Tamilnadu, Haryana and Gujarat. Top 5 regional entities overdrew 39.93% of the volume, and these were Uttar Pradesh, Rajasthan, West Bengal, Kerala and Pondicherry. (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 Karnataka, Jindal Power Ltd, Sterlite India

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.

Ltd, Gujarat and Simhapuri Energy Private Ltd , and. Top 5 electricity purchasing regional entities were Maharashtra, Uttar Pradesh , Andhra Pradesh, Telangana and Bihar.

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 October 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 9.30% and 2.93% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 96.74% in IEX and 43.92% in PXIL.

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

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"

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 November 2014⁴

(i) Duration of bilateral contracts:

During November, 2014, a total of 109 bilateral contracts (excluding banking/swap contracts) have been executed by traders for the volume of 2488 MUs. Figure-7 shows the percentage of contracts categorized according to the period of power supply. It can be observed from the figure that 64.2% of the contracts were executed for a duration of up to one week, followed by 34.9% of the contracts executed for a duration of more than a week and upto one month and with a small contribution of 0.9% of the contracts executed for a duration for a duration more than three months and upto 12 months.

During the same period, 44 banking/swapping bilateral contracts were also executed for the volume of 1235 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 December 2014 to May 2016 based on bilateral contracts executed till November, 2014. The forward curve drawn for October 2014 has also been depicted for the period December 2014 onwards for comparison purposes. For the last few months no contracts were being executed for delivery beyond October 2014. It is observed that both the forward curves have similar shape. With the execution of new contracts in November 2014, there is a dip in the forward prices for the period from December 2014 to December 2015.

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.

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 October 2014 are shown in Table-20. The market clearing volume of Solar RECs transacted on IEX and PXIL were 232 and 147 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 36411 and 37591 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 0.001 for both IEX and PXIL respectively. For Non-Solar RECs, the ratio of buy and sell bids was 0.008 and 0.007 in IEX and PXIL respectively

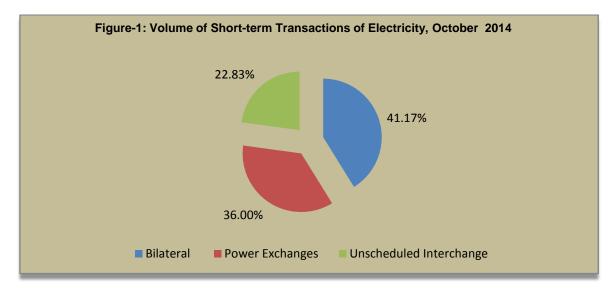
VII: Inferences:

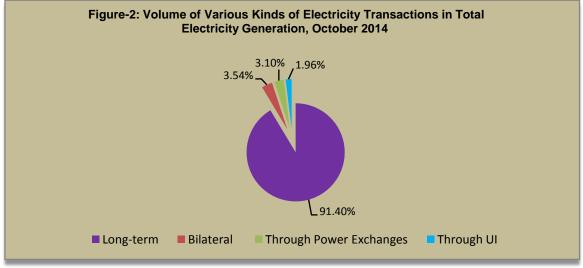
- The percentage of short-term transactions of electricity to total electricity generation was 8.60%.
- Of the total short-term transactions of electricity, 41.17% was transacted through bilateral (through traders and term ahead contracts on power exchanges and directly by distribution companies), followed by 36.00% through Power Exchanges and 22.83% through UI.
- Top 5 trading licensees had a share of 69.80% in the total volume traded by all the trading licensees.
- The Herfindahl Hirschman Index computed for volume of electricity traded by trading licensees was 0.1452, indicating non-concentration of market power.
- The price of electricity transacted through trading licensees (₹4.56/kWh) and the price of electricity transacted through IEX (₹4.33/kWh) and PXIL (₹3.45/kWh) respectively.
- The price of electricity transacted through UI was ₹2.22/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: 1.17) and PXIL (1: 4.09) when compared with the supply offered through these exchanges.
- Top 5 electricity selling regional entities were Karnataka, Jindal Power Ltd, Sterlite India Ltd, Gujarat and Simhapuri Energy Private Ltd. Top 5 electricity purchasing regional entities were Maharashtra, Uttar Pradesh, Andhra Pradesh, Telangana and Bihar.
- The volume of electricity that could not be cleared in the power exchanges due to congestion was 9.30% and 2.93% of the unconstrained cleared volume in IEX and PXIL, respectively. In terms of time, congestion occurred was 96.74% in IEX and 43.92% in PXIL.
- In November 2014, 64.2% of the bilateral contracts (excluding banking/swapping) were executed for a duration of up to one week, followed by 34.9% of the contracts were

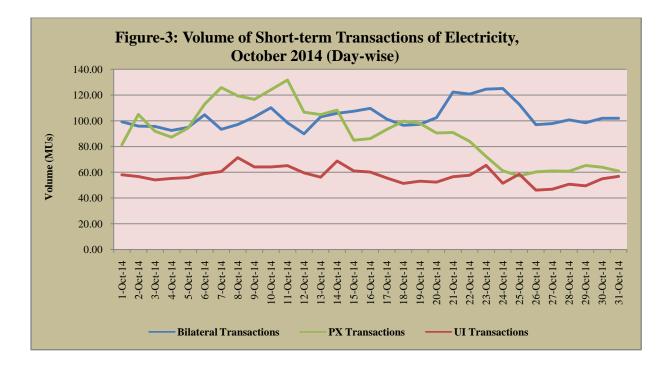
executed for a duration of more than a week and upto one month and 0.9% of the contracts were executed for a duration of more than three months and upto 12 months.

- There is a decreasing trend in the forward prices from December, 2014 till December 2015 because contracts executed in November 2014 were at lower prices when compared to contracts executed till October 2014.
- The market clearing volume of Solar RECs transacted on IEX and PXIL were 232 and 147 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 36411 and 37591 respectively and the market clearing price of these RECs was ₹1500/MWh on both the power exchanges.

| Table | Table-1: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY (ALL INDIA), OCTOBER 2014 | | | | |
|--------------|--|-----------------|--|--------------------------|--|
| Sr.No | Short-term transactions | Volume (MUs) | % to Volume of short-term transactions | % to Total Generation | |
| 1 | Bilateral | 3201.36 | 41.17% | 3.54% | |
| | (i) Through Traders and PXs | 2314.12 | 29.76% | 2.56% | |
| | (ii) Direct | 887.24 | 11.41% | 0.98% | |
| 2 | Through Power Exchanges | 2799.79 | 36.00% | 3.10% | |
| | (i) IEX | 2790.75 | 35.89% | 3.09% | |
| | (ii) PXIL | 9.04 | 0.12% | 0.01% | |
| 3 | Through UI | 1775.60 | 22.83% | 1.96% | |
| | Total | 7776.76 | 100.00% | 8.60% | |
| | Total Generation | 90417.87 | _ | _ | |
| Source: NLDC | | | | | |



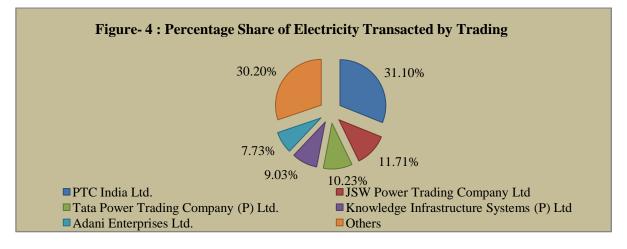




| Table-2: PERCENTAGE SHARE OF ELECTRICITY TRANSACTED BY TRADING LICENSEES, OCTOBER 2014 | | | | |
|---|---|---|-----------------------------------|--|
| Sr.No | Name of the Trading Licensee | % Share in total Volume transacted by Trading Licensees | Herfindahl- Hirschman Index | |
| 1 | PTC India Ltd. | 31.10% | 0.0967 | |
| 2 | JSW Power Trading Company Ltd | 11.71% | 0.0137 | |
| 3 | Tata Power Trading Company (P) Ltd. | 10.23% | 0.0105 | |
| 4 | Knowledge Infrastructure Systems (P) Ltd | 9.03% | 0.0081 | |
| 5 | Adani Enterprises Ltd. | 7.73% | 0.0060 | |
| 6 | Mittal Processors (P) Ltd. | 6.77% | 0.0046 | |
| 7 | NTPC Vidyut Vyapar Nigam Ltd. | 3.86% | 0.0015 | |
| 8 | Manikaran Power Ltd. | 3.47% | 0.0012 | |
| 9 | Shree Cement Ltd. | 3.31% | 0.0011 | |
| 10 | Jaiprakash Associates Ltd. | 2.75% | 0.0008 | |
| 11 | RPG Power Trading Company Ltd. | 1.46% | 0.0002 | |
| 12 | GMR Energy Trading Ltd. | 1.46% | 0.0002 | |
| 13 | Essar Electric Power Development Corp. Ltd. | 1.25% | 0.0002 | |
| 14 | National Energy Trading & Services Ltd. | 1.07% | 0.0001 | |
| 15 | Arunachal Pradesh Power Corporation (P) ltd | 0.95% | 0.0001 | |
| 16 | Reliance Energy Trading (P) Ltd | 0.92% | 0.0001 | |
| 17 | Ambitious Power Trading Company Ltd. | 0.92% | 0.0001 | |
| 18 | Instinct Infra & Power Ltd. | 0.80% | 0.0001 | |
| 19 | My Home Power Private Ltd. | 0.47% | 0.0000 | |
| 20 | Indrajit Power Technology (P) Ltd. | 0.34% | 0.0000 | |
| 21 | SN Power Markets Pvt. Ltd. | 0.29% | 0.0000 | |
| 22 | Customized Energy Solutions India (P) Ltd. | 0.07% | 0.0000 | |
| 23 | Pune Power Development (P) Ltd. | 0.06% | 0.0000 | |
| | TOTAL 100.00% 0.1452 | | | |
| Top 5 trading licensees69.80% | | | | |
| Note 1: Volume of electricity transacted by the trading licensees includes bilateral transactions | | | | |

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, OCTOBER 2014 | | | | |
|--|------------------------------------|--|--|--|
| Sr.No | r.No Sale Price of Traders (₹/kWh) | | | |
| 1 | Minimum 2.52 | | | |
| 2 | 2 Maximum 7.99 | | | |
| 3 Weighted Average 4.56 | | | | |
| Source: Information submitted by trading licensees | | | | |

Source: Information submitted by trading licensees

| Table-4: PRICE OF ELECTRICITY TRANSACTED THROUGH TRADERS (TIME-WISE), OCTOBER 2014 | | | | |
|---|---|------|--|--|
| Sr.No | Sr.No Period of Trade Sale Price of Traders (₹/kWh) | | | |
| 1 | RTC | 4.61 | | |
| 2 | 2 PEAK 4.77 | | | |
| 3 | 3 OFF PEAK 4.15 | | | |

Source: Information submitted by trading licensees

| Table-5: PRICE OF ELECTRICITY TRANSACTED THROUGH POWER EXCHANGES, OCTOBER 2014 | | | | | |
|---|---------------------------|-------|------|--|--|
| Sr.NoACPPrice in IEX (₹/kWh)Price in PXIL (₹/kWh) | | | | | |
| 1 | Minimum | 1.10 | 1.20 | | |
| 2 | Maximum | 20.00 | 6.52 | | |
| 3 | 3Weighted Average4.333.45 | | | | |

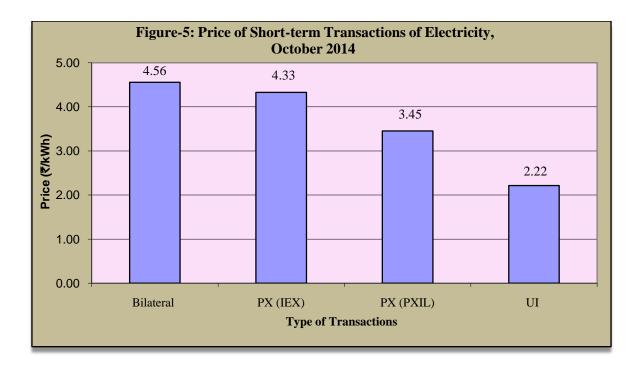
Source: Information submitted by IEX and PXIL

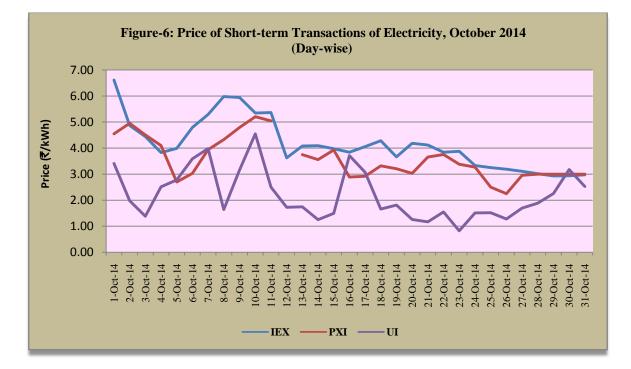
| Table-6: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF IEX, OCTOBER 2014 | | | | |
|---|------------------------------------|----------------------------------|-----------------------------------|--|
| Sr.No | Term ahead contracts | Actual Scheduled Volume (MUs) | Weighted Average Price (₹/kWh) | |
| 1 | Intra-Day Contracts | 17.07 | 4.66 | |
| 2 | Day Ahead Contingency Contracts | 0.94 | 4.00 | |
| 3 | Daily Contracts | 2.16 | 4.62 | |
| | Total | 20.17 | 4.63 | |

Source: IEX

| Table-7: VOLUME AND PRICE OF ELECTRICITY IN TERM AHEAD MARKET OF PXIL, OCTOBER 2014 | | | | | | |
|--|--|-------|------|--|--|--|
| Sr.No | Sr.NoTerm ahead contractsActual Scheduled Volume (MUs)Weighted Average Price (₹/kWh) | | | | | |
| 1 | Intra-Day Contracts | 12.39 | 4.76 | | | |
| 2 Daily Contracts 27.58 4.55 | | | | | | |
| Total 39.97 4.61 | | | | | | |
| Source: PXIL | | | | | | |

Table-8: PRICE OF ELECTRICITY TRANSACTED THROUGH UI, OCTOBER 2014Sr.NoPrice in All India Grid (₹/kWh)1Minimum2Maximum3Average2.22Source: NLDC





| Table-9: VOLUME OF ELECTRICITY SALE THROUGH BILATERAL, OCTOBER 2014 | | | |
|--|----------------------|-------------|--|
| Name of the State/UT/Other Regional Entity | Volume of Sale (MUs) | % of Volume | |
| Karnataka | 385.27 | 15.87% | |
| Gujarat | 296.64 | 12.22% | |
| JINDAL POWER | 266.83 | 10.99% | |
| SIMHAPURI | 196.32 | 8.09% | |
| STERLITE | 164.07 | 6.76% | |
| Rajasthan | 158.56 | 6.53% | |
| Delhi | 150.24 | 6.19% | |
| SHREE CEMENT | 122.62 | 5.05% | |
| Haryana | 112.73 | 4.64% | |
| MP | 103.94 | 4.28% | |
| DVC | 68.00 | 2.80% | |
| J&K | 67.45 | 2.78% | |
| Orissa | 63.05 | 2.60% | |
| West Bengal | 50.67 | 2.09% | |
| KARCHAM WANGTOO | 48.67 | 2.00% | |
| Meghalaya | 42.13 | 1.74% | |
| Uttar Pradesh | 23.28 | 0.96% | |
| ACBIL | 18.91 | 0.78% | |
| Punjab | 16.80 | 0.69% | |
| Chattisgarh | 14.10 | 0.58% | |
| Telangana | 13.52 | 0.56% | |
| MAITHON POWER LTD | 13.05 | 0.54% | |
| NSPCL | 12.90 | 0.53% | |
| AD HYDRO | 6.45 | 0.27% | |
| Himachal Pradesh | 6.24 | 0.26% | |
| Maharashtra | 3.41 | 0.14% | |
| Tripura | 1.33 | 0.05% | |
| Uttarakhand | 0.62 | 0.03% | |
| Total | 2427.82 | 100.00% | |
| Volume of sale by top 5 States | 1309.13 | 53.92% | |

| Table-10: VOLUME OF ELECTRICITY PURCHASE THROUGH BILATERAL, OCTOBER 2014 | | | | | | |
|---|-----------------------------|-------------|--|--|--|--|
| Name of the State/UT/Other Regional Entity | Volume of Purchase (MUs) | % of Volume | | | | |
| Maharashtra | 476.67 | 16.34% | | | | |
| Andhra Pradesh | 468.98 | 16.08% | | | | |
| Uttar Pradesh | 365.27 | 12.52% | | | | |
| Bihar | 319.48 | 10.95% | | | | |
| Telangana | 304.91 | 10.45% | | | | |
| Haryana | 190.64 | 6.54% | | | | |
| Jharkhand | 137.37 | 4.71% | | | | |
| Uttarakhand | 127.15 | 4.36% | | | | |
| Orissa | 123.65 | 4.24% | | | | |
| Punjab | 75.20 | 2.58% | | | | |
| MP | 68.52 | 2.35% | | | | |
| Delhi | 45.45 | 1.56% | | | | |
| Goa | 41.37 | 1.42% | | | | |
| J&K | 35.88 | 1.23% | | | | |
| Himachal Pradesh | 32.94 | 1.13% | | | | |
| Chattisgarh | 29.38 | 1.01% | | | | |
| West Bengal | 20.07 | 0.69% | | | | |
| Gujarat | 19.21 | 0.66% | | | | |
| Meghalaya | 10.53 | 0.36% | | | | |
| Tamilnadu | 7.62 | 0.26% | | | | |
| Sikkim | 6.22 | 0.21% | | | | |
| Kerala | 4.18 | 0.14% | | | | |
| Tripura | 3.97 | 0.14% | | | | |
| Karnataka | 1.08 | 0.04% | | | | |
| Meenakshi | 0.99 | 0.03% | | | | |
| Rajasthan | 0.30 | 0.01% | | | | |
| Total | 2917.02 | 100.00% | | | | |
| Volume of Purchase by top 5 States | 1935.31 | 66.35% | | | | |

| Table-11: VOLUME OF ELECTRI | ICITY SALE THROUGH POWE | R EXCHANGES, |
|---|-------------------------|--------------|
| Name of the State/UT/Other Regional Entity | Volume of Sale (MUs) | % of Volume |
| STERLITE | 244.27 | 8.72% |
| Karnataka | 227.29 | 8.12% |
| Chattisgarh | 210.62 | 7.52% |
| JINDAL POWER | 173.50 | 6.20% |
| Gujarat | 168.35 | 6.01% |
| DCPP | 167.60 | 5.99% |
| Orissa | 166.83 | 5.96% |
| JINDAL STAGE-II | 165.82 | 5.92% |
| Himachal Pradesh | 132.18 | 4.72% |
| Rajasthan | 85.25 | 3.04% |
| MAITHON POWER LTD | 75.75 | 2.71% |
| KARCHAM WANGTOO | 75.56 | 2.70% |
| Delhi | 66.01 | 2.36% |
| SHREE CEMENT | 64.95 | 2.32% |
| JAYPEE NIGRIE | 59.95 | 2.14% |
| Haryana | 46.93 | 1.68% |
| MP | 46.72 | 1.67% |
| West Bengal | 46.54 | 1.66% |
| ACBIL | 43.21 | 1.54% |
| DVC | 38.49 | 1.37% |
| ADHUNIK POWER LTD | 37.75 | 1.35% |
| CHUZACHEN HEP | 37.25 | 1.33% |
| | 35.72 | 1.28% |
| EMCO | | 1.20% |
| Tripura | 33.51 | 1.19% |
| Sikkim | 33.39 | 1.13% |
| J & K VANDANA VIDYUT | 31.60 | 1.02% |
| | 28.53 | 0.87% |
| Telangana AD HYDRO | 24.31 | 0.86% |
| | 24.00 | 0.83% |
| Maharashtra | 23.33 | |
| Assam | 23.27 | 0.83% |
| TEESTA HEP | 20.74 | 0.74% |
| KSK MAHANADI | 20.04 | 0.72% |
| SIMHAPURI | 16.67 | 0.60% |
| Uttarakhand | 14.37 | 0.51% |
| | 11.32 | 0.40% |
| ONGC PALATANA | 9.87 | 0.35% |
| NJPC | 9.77 | 0.35% |
| Meenakshi | 9.58 | 0.34% |
| RANGIT HEP | 8.44 | 0.30% |
| Goa | 8.32 | 0.30% |
| Meghalaya | 6.68 | 0.24% |
| Mizoram | 6.11 | 0.22% |
| NEEPCO Stations | 5.37 | 0.19% |
| Andhra Pradesh | 4.98 | 0.18% |
| Kerala | 2.42 | 0.09% |
| Nagaland | 1.80 | 0.06% |
| Manipur | 1.36 | 0.05% |
| ESSAR POWER | 1.20 | 0.04% |
| Arunachal Pradesh | 0.99 | 0.04% |

| Punjab | 0.58 | 0.02% |
|--------------------------------|---------|---------|
| Bihar | 0.49 | 0.02% |
| DHARIWAL POWER | 0.23 | 0.01% |
| UT Chandigarh | 0.01 | 0.00% |
| Total | 2799.81 | 100.00% |
| Volume of sale by top 5 States | 1024.02 | 36.57% |

| Table-12: VOLUME OF ELECTRICITY PURCHASE THROUGH POWER EXCHANGES, OCTOBER 2014 | | | | | | | |
|---|-----------------------------|-------------|--|--|--|--|--|
| Name of the State/UT/Other Regional Entity | Volume of Purchase (MUs) | % of Volume | | | | | |
| Maharashtra | 772.15 | 27.58% | | | | | |
| Uttar Pradesh | 270.13 | 9.65% | | | | | |
| Telangana | 248.24 | 8.87% | | | | | |
| Gujarat | 247.06 | 8.82% | | | | | |
| Rajasthan | 190.09 | 6.79% | | | | | |
| ESSAR STEEL | 183.63 | 6.56% | | | | | |
| West Bengal | 177.17 | 6.33% | | | | | |
| Orissa | 122.74 | 4.38% | | | | | |
| Uttarakhand | 101.37 | 3.62% | | | | | |
| Andhra Pradesh | 74.14 | 2.65% | | | | | |
| Kerala | 68.84 | 2.46% | | | | | |
| Delhi | 59.31 | 2.12% | | | | | |
| Punjab | 46.12 | 1.65% | | | | | |
| Tamilnadu | 39.39 | 1.41% | | | | | |
| Haryana | 36.25 | 1.29% | | | | | |
| MP | 32.53 | 1.16% | | | | | |
| Himachal Pradesh | 26.68 | 0.95% | | | | | |
| Daman and Diu | 23.82 | 0.85% | | | | | |
| Assam | 18.28 | 0.65% | | | | | |
| Karnataka | 14.44 | 0.52% | | | | | |
| Meghalaya | 10.90 | 0.39% | | | | | |
| J&K | 10.68 | 0.38% | | | | | |
| BALCO | 9.73 | 0.35% | | | | | |
| Manipur | 8.27 | 0.30% | | | | | |
| UT Chandigarh | 3.87 | 0.14% | | | | | |
| Arunachal Pradesh | 3.27 | 0.12% | | | | | |
| Tripura | 0.72 | 0.03% | | | | | |
| Total | 2799.79 | 100.00% | | | | | |
| Volume of purchase by top 5 States | 1727.67 | 61.71% | | | | | |

| Table-13: VOLUME OF ELECTRICITY EXPORT THROUGH UI, OCTOBER 2014 | | | | | | | |
|---|------------------------|-------------|--|--|--|--|--|
| Name of the State/UT/Other Regional Entity | Volume of Export (MUs) | % of Volume | | | | | |
| Maharashtra | 143.59 | 11.98% | | | | | |
| Punjab | 125.29 | 10.45% | | | | | |
| Tamilnadu | 103.07 | 8.60% | | | | | |
| Haryana | 86.33 | 7.20% | | | | | |
| Gujarat | 76.18 | 6.36% | | | | | |
| Bihar | 61.78 | 5.16% | | | | | |
| Uttar Pradesh | 51.06 | 4.26% | | | | | |
| Delhi | 50.89 | 4.25% | | | | | |
| Rajasthan | 47.12 | 3.93% | | | | | |
| NHPC Stations | 45.80 | 3.82% | | | | | |
| Chattisgarh | 45.75 | 3.82% | | | | | |
| MP | 41.33 | 3.45% | | | | | |
| | | 1.95% | | | | | |
| Andhra Pradesh | 23.32 | 1.92% | | | | | |
| Orissa | 23.02 | 1.91% | | | | | |
| J&K | 22.88 | 1.80% | | | | | |
| West Bengal | 21.62 | 1.43% | | | | | |
| DVC | 17.09 | 1.43% | | | | | |
| Jharkhand | 16.98 | 1.42% | | | | | |
| Pondicherry | 16.81 | 1.25% | | | | | |
| STERLITE | 14.99 | | | | | | |
| JINDAL POWER | 14.96 | 1.25% | | | | | |
| Karnataka | 14.96 | 1.25% | | | | | |
| Goa | 14.66 | 1.22% | | | | | |
| CGPL | 10.88 | 0.91% | | | | | |
| Sikkim | 10.27 | 0.86% | | | | | |
| Himachal Pradesh | 9.10 | 0.76% | | | | | |
| Uttarakhand | 8.76 | 0.73% | | | | | |
| Assam | 7.84 | 0.65% | | | | | |
| MAITHON POWER LTD | 6.92 | 0.58% | | | | | |
| NJPC | 6.55 | 0.55% | | | | | |
| Dadra & Nagar Haveli | 6.51 | 0.54% | | | | | |
| Telangana | 5.86 | 0.49% | | | | | |
| KARCHAM WANGTOO | 5.23 | 0.44% | | | | | |
| Daman and Diu | 4.90 | 0.41% | | | | | |
| Meghalaya | 4.51 | 0.38% | | | | | |
| NEEPCO Stations | 4.14 | 0.35% | | | | | |
| Kerala | 3.45 | 0.29% | | | | | |
| ACBIL | 3.02 | 0.25% | | | | | |
| Tripura | 2.85 | 0.24% | | | | | |
| LANKO_AMK | 2.85 | 0.24% | | | | | |
| DCPP | 2.51 | 0.21% | | | | | |
| UT Chandigarh | 2.43 | 0.20% | | | | | |
| NSPCL | 2.43 | 0.18% | | | | | |
| SIMHAPURI | 1.88 | 0.16% | | | | | |
| | | 0.10% | | | | | |
| SHREE CEMENT | 1.16 | 0.09% | | | | | |
| Arunachal Pradesh | 1.10 | 0.09% | | | | | |
| Nagaland | 1.10 | 0.09% | | | | | |
| Manipur | 1.05 | 0.08% | | | | | |
| BALCO | 0.94 | 0.08% | | | | | |
| AD HYDRO | 0.72 | | | | | | |
| RGPPL(Dabhol) | 0.21 | 0.02% | | | | | |
| Mizoram | 0.12 | 0.01% | | | | | |
| Total | 1198.49 | 100.00% | | | | | |
| Volume of Export by top 5 States | 534.45 | 44.59% | | | | | |

| ame of the State/UT/Other Regional Entity Volu ttar Pradesh ajasthan ajasthan //////////////////////////////////// | Ime of Import (MUs) Import (MUs) 175.47 | % of Volume 13.16% 11.54% 5.14% 5.11% 4.98% 4.17% 3.72% 3.63% 3.61% 3.57% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% 1.70% |
|---|---|---|
| ajasthan/est Bengaleralaondicherry& K& Karnatakattarakhandlaharashtrandhra Pradeshimachal PradeshrissaaryanaPujaratVCiharhattisgarhunjabssamelhioanarkhandT Chandigarhurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)iizoramadra & Nagar Haveliripura | 153.79 68.52 68.17 66.39 55.65 49.62 48.35 48.06 47.54 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 11.54% 5.14% 5.11% 4.98% 4.17% 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| Vest Bengal | 68.52 68.17 66.39 55.65 49.62 48.35 48.06 47.54 45.93 42.83 42.83 42.83 30.04 29.68 28.85 24.87 22.73 20.56 | 5.14% 5.11% 4.98% 4.17% 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| erala | 68.17 66.39 55.65 49.62 48.35 48.06 47.54 45.93 42.83 42.83 42.83 30.04 29.68 28.85 24.87 22.73 20.56 | 5.11% 4.98% 4.17% 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% |
| ondicherry& Karnatakattarakhandlaharashtrandhra Pradeshimachal PradeshirissaaryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)lizoramadra & Nagar Haveliripura | 66.39 55.65 49.62 48.35 48.06 47.54 45.93 42.83 42.83 42.83 42.83 42.83 28.85 28.85 24.87 22.73 20.56 | 4.98% 4.17% 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| & KImage: style s | 55.65 49.62 48.35 48.06 47.54 45.93 42.84 28.85 24.87 22.73 20.56 | 4.17% 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| arnatakattarakhandlaharashtrandhra Pradeshimachal PradeshirissaaryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)iizoramadra & Nagar Haveliripura | 49.62 48.35 48.06 47.54 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.72% 3.63% 3.61% 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| ttarakhand laharashtra ndhra Pradesh imachal Pradesh imachal Pradesh rissa aryana IP ujarat VC ihar hattisgarh unjab ssam elhi ooa narkhand T Chandigarh TERLITE amilnadu runachal Pradesh GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 48.35 48.06 47.54 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.63% 3.61% 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| IaharashtraImplementationndhra PradeshImplementationimachal PradeshImplementationrissaImplementationaryanaImplementationIPImplementationujaratVCiharImplementationhattisgarhImplementationunjabImplementationssamImplementationelhiImplementationoaImplementationnarkhandImplementationT ChandigarhImplementationTERLITEImplementationamilnaduImplementationrunachal PradeshImplementationGPL(Coastal Gujarat Power Ltd)ImplementationCBILImplementationHPC StationsImplementationagalandImplementationALCOImplementationGPPL(Dabhol)ImplementationIzoramImplementationadra & Nagar HaveliImplementationripuraImplementation | 48.06 47.54 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.61% 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| ndhra Pradeshimachal PradeshrissaaryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)iizoramadra & Nagar Haveliripura | 47.54 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.57% 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| imachal PradeshrrissaaryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)lizoramadra & Nagar Haveliripura | 45.93 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.45% 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| rissa aryana eryana ery | 42.83 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.21% 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| aryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)lizoramadra & Nagar Haveliripura | 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| aryanaIPujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)lizoramadra & Nagar Haveliripura | 42.80 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.21% 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| IP Image: second se | 41.46 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 3.11% 2.46% 2.25% 2.23% 2.16% 1.87% |
| ujaratVCiharhattisgarhunjabssamelhioanarkhandT ChandigarhTERLITEamilnadurunachal PradeshGPL(Coastal Gujarat Power Ltd)CBILHPC StationsagalandALCOGPPL(Dabhol)lizoramadra & Nagar Haveliripura | 32.81 30.04 29.68 28.85 24.87 22.73 20.56 | 2.46% 2.25% 2.23% 2.16% 1.87% |
| VC inar ihar inar hattisgarh inar unjab ssam ssam inar elhi inar oa inarkhand T Chandigarh inarkhand T Chandigarh inarkhand T Chandigarh inarkhand T Chandigarh inarkhand TERLITE inarkhand amilnadu inarkhand runachal Pradesh inarkhand GPL(Coastal Gujarat Power Ltd) inarkhand CBIL inarkhand HPC Stations inarkhand agaland inarkhand ALCO inarkhand GPPL(Dabhol) inarkhand izoram inarkhand adra & Nagar Haveli inipura | 30.04 29.68 28.85 24.87 22.73 20.56 | 2.25% 2.23% 2.16% 1.87% |
| ihar hattisgarh hattis | 29.68 28.85 24.87 22.73 20.56 | 2.23% 2.16% 1.87% |
| hattisgarh unjab unjab ssam ssam elhi oa narkhand T Chandigarh T T Chandigarh T TERLITE amilnadu amilnadu runachal Pradesh GPL(Coastal Gujarat Power Ltd) C CBIL HPC Stations agaland ALCO GPPL(Dabhol) [izoram izoram adra & Nagar Haveli ripura L | 28.85 24.87 22.73 20.56 | 2.16% 1.87% |
| unjab | 24.87 22.73 20.56 | 1.87% |
| ssam elhi elhi elhi elhi elhi elhi elhi elhi | 22.73 20.56 | |
| elhi oa oa inarkhand T Chandigarh inarkhand T Chandigarh inarkhand TERLITE inarkhand amilnadu inarkhand runachal Pradesh inarkhand GPL(Coastal Gujarat Power Ltd) inarkhand CBIL inarkhand HPC Stations inarkhand agaland inarkhand ALCO inarkhand GPPL(Dabhol) inarkhand izoram inarkhand adra & Nagar Haveli inpura | 20.56 | 1.1070 |
| oa | | 1.54% |
| arkhand T Chandigarh T Chandigarh T Chandigarh TERLITE amilnadu runachal Pradesh GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 10.00 | 1.41% |
| T Chandigarh TERLITE amilnadu runachal Pradesh GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 17.93 | 1.35% |
| TERLITE Image: Constant of the second se | 16.75 | 1.26% |
| amilnadu runachal Pradesh GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 15.40 | 1.16% |
| runachal Pradesh GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | | 1.13% |
| GPL(Coastal Gujarat Power Ltd) CBIL HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 15.01 | 0.84% |
| CBIL HPC Stations agaland ALCO GPPL(Dabhol) Izoram adra & Nagar Haveli ripura | 11.26 | 0.84% |
| HPC Stations agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 10.84 | |
| agaland ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura Electronic Alectronic Alect | 6.86 | 0.51% |
| ALCO GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 6.62 | 0.50% |
| GPPL(Dabhol) lizoram adra & Nagar Haveli ripura | 5.89 | 0.44% |
| lizoram adra & Nagar Haveli ripura | 5.77 | 0.43% |
| adra & Nagar Haveli | 5.50 | 0.41% |
| ripura | 5.40 | 0.41% |
| | 5.39 | 0.40% |
| anipur | 5.08 | 0.38% |
| | 4.84 | 0.36% |
| IAITHON POWER LTD | 4.48 | 0.34% |
| HREE CEMENT | 4.17 | 0.31% |
| leghalaya | 3.15 | 0.24% |
| ARCHAM WANGTOO | 3.08 | 0.23% |
| JPC | 2.83 | 0.21% |
| CPP(Donga Mahua Captive Power Plant) | 2.58 | 0.19% |
| aman and Diu | 2.43 | 0.18% |
| SPCL | 1.64 | 0.12% |
| elangana | 1.62 | 0.12% |
| IMHAPURI | 1.47 | 0.11% |
| EEPCO Stations | 1.29 | 0.10% |
| NDAL POWER | 0.88 | 0.07% |
| ANKO_AMK | | 0.05% |
| ikkim | 0.73 | 0.05% |
| D HYDRO | 0.73 | 0.04% |
| otal | 0.67 | 100.00% |
| olume of Import by top 5 States | | 39.93% |

| Sr.No. | WISE), OCTOBER 20 Name of the State/UT/Other Regional Entity | Total volume of net short-term transactions of electricity* |
|----------|--|--|
| 1 | Maharashtra | 1126.55 |
| 2 | Uttar Pradesh | 736.53 |
| 3 | Andhra Pradesh | 562.36 |
| 4 | Telangana | 511.08 |
| 5 | Bihar | 286.89 |
| 6 | Uttarakhand | 253.12 |
| 7 | ESSAR STEEL | 183.63 |
| 8 | West Bengal | 146.93 |
| 9 | Jharkhand | 138.33 |
| 10 | Kerala | 135.32 |
| 11 | Rajasthan | 53.25 |
| 12 | Pondicherry | 49.59 |
| 13 | Goa | 37.24 |
| 14 15 | Orissa | 36.30 |
| 15 | Haryana | 23.70 |
| 16 | Daman and Diu | 21.35 |
| 17 | UT Chandigarh BALCO | 18.18 |
| 10 | Arunachal Pradesh | 14.56 |
| 20 | Manipur | 12.45 |
| 20 | Assam | 9.89 |
| 22 | RGPPL(Dabhol) | 5.29 |
| 23 | Punjab | 3.52 |
| 24 | Nagaland | 3.00 |
| 25 | CGPL(Coastal Gujarat Power Ltd) | -0.05 |
| 26 | DHARIWAL POWER | -0.23 |
| 27 | Mizoram | -0.83 |
| 28 | Dadra & Nagar Haveli | -1.12 |
| 29 | ESSAR POWER | -1.20 |
| 30 | LANKO_AMK | -2.12 |
| 31 | NEEPCO Stations | -8.22 |
| 32 | RANGIT HEP | -8.44 |
| 33 | Meenakshi | -8.59 |
| 34 | ONGC PALATANA | -9.87 |
| 35 | LANCO BUDHIL | -11.32 |
| 36 | NSPCL | -13.41 |
| 37 | NJPC | -13.49 |
| 38 | J&K | -19.73 |
| 39 | KSK MAHANADI | -20.04 |
| 40 | TEESTA HEP | -20.74 |
| 41 | Tripura | -27.91 |
| 42 | VANDANA VIDYUT | -28.53 |
| 43 | Meghalaya | -28.73 |
| 44 | AD HYDRO | -30.57 |
| 45 | EMCO | -35.72 |
| 46 | Sikkim | -36.77 |
| 47 | | -37.25 |
| 48 | ADHUNIK POWER LTD | -37.75 |
| 49 | NHPC Stations | -39.18 |
| 50 51 | Tamilnadu | -41.05 |
| 51 | Himachal Pradesh | -41.97 |
| | MP | -49.49 |
| 53 | | -58.28 |
| 54 | JAYPEE NIGRIE | -59.95 |

Table-15: TOTAL VOLUME OF NET SHORT-TERM TRANSACTIONS OF ELECTRICITY (REGIONAL ENTITY-WISE), OCTOBER 2014

| 55 | MAITHON POWER LTD | -91.23 | | | | | | |
|------------|--|---------|--|--|--|--|--|--|
| 56 | DVC | -93.53 | | | | | | |
| 57 | KARCHAM WANGTOO | -126.38 | | | | | | |
| 58 | Delhi | -141.81 | | | | | | |
| 59 | JINDAL STAGE-II | -165.82 | | | | | | |
| 60 | DCPP | -167.53 | | | | | | |
| 61 | SHREE CEMENT | -184.56 | | | | | | |
| 62 | Chattisgarh | -212.25 | | | | | | |
| 63 | SIMHAPURI | -213.39 | | | | | | |
| 64 | Gujarat | -242.08 | | | | | | |
| 65 | STERLITE | -407.93 | | | | | | |
| 66 | JINDAL POWER | -454.41 | | | | | | |
| 67 | Karnataka | -562.38 | | | | | | |
| | * Total volume of net short-term transactions of electricity includes net of transactions of electricity through bilateral, power exchange and UI | | | | | | | |
| (-) indica | (-) indicates sale and (+) indicates purchase | | | | | | | |

| | Table-16: DETAILS OF CONGESTION IN POWER EXCHANGES, OCTOBER 2014 | | | | | | | |
|--------|--|---------|--------|--|--|--|--|--|
| | Details of Congestion | IEX | PXIL | | | | | |
| А | Unconstrained Cleared Volume* (MUs) | 3076.85 | 9.31 | | | | | |
| В | Actual Cleared Volume and hence scheduled (MUs) | 2790.75 | 9.04 | | | | | |
| С | Volume of electricity that could not be cleared and hence not scheduled because of congestion (MUs) (A-B) | 286.10 | 0.27 | | | | | |
| D | Volume of electricity that could not be cleared as % to Unconstrained Cleared Volume | 9.30% | 2.93% | | | | | |
| E | Percentage of the time congestion occurred during the month (Number of hours congestion occurred/Total number of hours in the month) | 96.74% | 43.92% | | | | | |
| F | Congestion occurrence (%) time block wise | | | | | | | |
| | 0.00 - 6.00 hours | 24.80% | 21.12% | | | | | |
| | 6.00 - 12.00 hours | 25.43% | 27.62% | | | | | |
| | 12.00 - 18.00 hours | 25.36% | 20.73% | | | | | |
| | 18.00 - 24.00 hours | 24.42% | 30.53% | | | | | |
| * This | power would have been scheduled had there been no conges | tion. | | | | | | |
| Source | e: IEX & PXIL & NLDC | | | | | | | |

| Table-17: VOLUME OF SHORT-TERM TRANSACTIONS OF ELECTRICITY IN INDIA (MUs), OCTOBER 2014 (DAY-WISE) | | | | | | | | |
|---|---------------------------------|-------------------|---------------------------------------|--|---|----------|--|--|
| Date | Bilate | | nange (Area ume# of Day Market) | Unscheduled Interchange (Over Drawl+ Under | Total Electricity Generation (MU) as given at CEA | | | |
| | Through Traders and PXs** | Direct | IEX | ΡΧΙ | Generation) | Website | | |
| 1-Oct-14 | 76.52 | 22.71 | 81.18 | 0.12 | 58.02 | 3111.69 | | |
| 2-Oct-14 | 72.87 | 23.01 | 104.76 | 0.11 | 56.60 | 3089.95 | | |
| 3-Oct-14 | 73.68 | 21.93 | 91.63 | 0.25 | 54.01 | 3033.91 | | |
| 4-Oct-14 | 70.48 | 22.08 | 87.02 | 0.28 | 55.19 | 3039.79 | | |
| 5-Oct-14 | 66.17 | 28.71 | 94.10 | 0.28 | 55.75 | 3114.13 | | |
| 6-Oct-14 | 73.93 | 30.77 | 112.64 | 0.24 | 58.85 | 3127.13 | | |
| 7-Oct-14 | 64.41 | 28.97 | 125.62 | 0.16 | 60.49 | 3080.20 | | |
| 8-Oct-14 | 66.02 | 31.04 | 119.18 | 0.16 | 71.32 | 3008.86 | | |
| 9-Oct-14 | 72.84 | 30.04 | 116.39 | 0.14 | 64.12 | 3012.70 | | |
| 10-Oct-14 | 77.23 | 32.95 | 123.88 | 0.16 | 64.08 | 3006.41 | | |
| 11-Oct-14 | 74.18 | 24.28 | 131.36 | 0.26 | 65.14 | 2979.32 | | |
| 12-Oct-14 | 61.23 | 28.67 | 106.60 | 0.00 | 59.48 | 2861.46 | | |
| 13-Oct-14 | 71.71 | 31.32 | 104.54 | 0.22 | 56.14 | 2850.33 | | |
| 14-Oct-14 | 63.24 | 42.58 | 107.93 | 0.33 | 68.68 | 2823.89 | | |
| 15-Oct-14 | 61.29 | 46.07 | 84.60 | 0.29 | 61.03 | 2847.75 | | |
| 16-Oct-14 | 66.62 | 43.00 | 85.83 | 0.30 | 60.18 | 2908.99 | | |
| 17-Oct-14 | 67.68 | 33.61 | 92.82 | 0.40 | 55.58 | 2921.90 | | |
| 18-Oct-14 | 68.88 | 27.61 | 99.31 | 0.43 | 51.27 | 2890.73 | | |
| 19-Oct-14 | 70.09 | 27.13 | 97.69 | 0.31 | 53.02 | 2831.09 | | |
| 20-Oct-14 | 74.52 | 27.93 | 89.97 | 0.52 | 52.31 | 2892.09 | | |
| 21-Oct-14 | 94.22 | 28.13 | 90.26 | 0.64 | 56.47 | 2915.76 | | |
| 22-Oct-14 | 94.20 | 26.53 | 83.37 | 0.63 | 57.70 | 2879.11 | | |
| 23-Oct-14 | 96.86 | 27.66 | 71.55 | 0.74 | 65.32 | 2778.39 | | |
| 24-Oct-14 | 100.03 | 25.02 | 60.75 | 0.47 | 51.43 | 2728.48 | | |
| 25-Oct-14 | 87.54 | 25.24 | 57.02 | 0.17 | 58.51 | 2697.54 | | |
| 26-Oct-14 | 70.88 | 26.10 | 59.83 | 0.51 | 46.10 | 2623.26 | | |
| 27-Oct-14 | 71.53 | 26.35 | 61.00 | 0.03 | 46.85 | 2727.88 | | |
| 28-Oct-14 | 74.28 | 26.36 | 60.58 | 0.24 | 50.73 | 2802.09 | | |
| 29-Oct-14 | 74.55 | 23.94 | 65.04 | 0.24 | 49.44 | 3147.80 | | |
| 30-Oct-14 | 78.23 | 23.75 | 63.62 | 0.23 | 54.96 | 2842.62 | | |
| 31-Oct-14 | 78.23 | 23.75 | 60.69 | 0.17 | 56.83 | 2842.62 | | |
| Total | 2314.12 | 887.24 | 2790.75 | 9.04 | 1775.60 | 90417.87 | | |
| Source: NLD | | | | | | | | |
| * Gross Elect | ricity Generation e | xcluding electric | city generation fr | om renewables | and captive power plar | nts. | | |

** 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.

| Market Segment | Day | ahead mar | ket of IEX | Day ahead market of PXIL | | | Under Drawl/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-Oct-14 | 5.00 | 9.52 | 6.61 | 4.50 | 4.80 | 4.55 | 0.00 | 8.24 | 3.41 | |
| 2-Oct-14 | 2.90 | 9.62 | 4.87 | 4.50 | 5.51 | 4.96 | 0.00 | 8.24 | 1.98 | |
| 3-Oct-14 | 1.45 | 9.31 | 4.45 | 3.50 | 6.01 | 4.51 | 0.00 | 3.45 | 1.38 | |
| 4-Oct-14 | 1.15 | 10.53 | 3.83 | 3.50 | 6.51 | 4.10 | 0.00 | 6.36 | 2.52 | |
| 5-Oct-14 | 1.70 | 10.55 | 3.99 | 1.20 | 6.51 | 2.70 | 0.00 | 6.36 | 2.78 | |
| 6-Oct-14 | 3.30 | 10.31 | 4.80 | 1.70 | 6.51 | 3.03 | 0.00 | 8.03 | 3.59 | |
| 7-Oct-14 | 3.10 | 10.42 | 5.29 | 3.40 | 4.40 | 3.94 | 0.00 | 8.24 | 3.98 | |
| 8-Oct-14 | 4.90 | 10.47 | 5.98 | 4.00 | 4.80 | 4.33 | 0.00 | 6.36 | 1.65 | |
| 9-Oct-14 | 3.75 | 10.15 | 5.94 | 4.80 | 4.80 | 4.80 | 0.00 | 8.24 | 3.17 | |
| 10-Oct-14 | 2.85 | 11.03 | 5.35 | 5.20 | 5.81 | 5.21 | 0.36 | 7.20 | 4.55 | |
| 11-Oct-14 | 3.50 | 11.03 | 5.37 | 2.22 | 6.52 | 5.05 | 0.00 | 0.00 6.36 | | |
| 12-Oct-14 | 2.26 | 12.00 | 3.63 | - | - | - | 0.00 | 5.74 | 1.73 | |
| 13-Oct-14 | 3.00 | 11.03 | 4.08 | 2.75 | 4.80 | 3.75 | 0.00 | 0.00 5.95 | | |
| 14-Oct-14 | 3.00 | 11.03 | 4.10 | 2.80 | 4.60 | 3.56 | 0.00 6.16 | | 1.26 | |
| 15-Oct-14 | 1.70 | 20.00 | 3.98 | 3.00 | 5.45 | 3.93 | 0.00 | 6.16 | 1.50 | |
| 16-Oct-14 | 2.24 | 10.26 | 3.85 | 1.72 | 3.75 | 2.89 | 0.00 | 8.24 | 3.71 | |
| 17-Oct-14 | 2.64 | 10.02 | 4.06 | 2.21 | 4.05 | 2.92 | 0.00 | 6.36 | 3.08 | |
| 18-Oct-14 | 2.90 | 10.00 | 4.29 | 2.70 | 3.80 | 3.32 | 0.00 | 5.74 | 1.66 | |
| 19-Oct-14 | 2.30 | 10.01 | 3.67 | 2.90 | 3.50 | 3.21 | 0.00 | 6.16 | 1.82 | |
| 20-Oct-14 | 2.65 | 10.53 | 4.19 | 2.60 | 3.50 | 3.03 | 0.00 | 5.32 | 1.26 | |
| 21-Oct-14 | 2.50 | 11.02 | 4.12 | 2.80 | 5.50 | 3.66 | 0.00 | 4.91 | 1.17 | |
| 22-Oct-14 | 1.68 | 11.02 | 3.84 | 2.50 | 5.80 | 3.76 | 0.00 | 6.36 | 1.55 | |
| 23-Oct-14 | 1.10 | 20.00 | 3.88 | 2.00 | 5.95 | 3.38 | 0.00 | 3.45 | 0.83 | |
| 24-Oct-14 | 1.10 | 20.00 | 3.33 | 2.70 | 6.50 | 3.27 | 0.00 | 3.45 | 1.52 | |
| 25-Oct-14 | 1.37 | 10.02 | 3.25 | 2.50 | 2.50 | 2.50 | 0.00 | 5.95 | 1.52 | |
| 26-Oct-14 | 1.50 | 10.02 | 3.20 | 2.25 | 2.25 | 2.25 | 0.00 | 4.91 | 1.28 | |
| 27-Oct-14 | 1.50 | 10.02 | 3.11 | 2.57 | 3.75 | 2.96 | 0.00 | 6.16 | 1.70 | |
| 28-Oct-14 | 1.66 | 20.00 | 3.02 | 3.00 | 3.00 | 3.00 | 0.00 | 6.36 | 1.89 | |
| 29-Oct-14 | 1.65 | 20.00 | 2.94 | 3.00 | 3.00 | 3.00 | 0.00 | 7.82 | 2.26 | |
| 30-Oct-14 | 1.66 | 20.00 | 2.94 | 3.00 | 3.00 | 3.00 | 0.00 | 8.24 | 3.18 | |
| 31-Oct-14 | 1.68 | 20.00 | 2.98 | 3.00 | 3.00 | 3.00 | 0.00 | 8.24 | 2.53 | |
| | 1.10# | 20.00# | 4.33 | 1.20# | 6.52# | 3.45 | 0.00# | 8.24# | 2.22 | |

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

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-T | | ISACTIONS | OF ELEC | TRICITY (I | REGIONAL | ENTITY*- | WISE) (MU | ls), OCTOE | 3ER 2014 |
|-----------------------------------|------------|---------------|-----------|---------|---------------|----------|----------------------------|---------------------------|------------|--------------|
| Name of the | Thr | ough Bilate | eral | Through | n Power E | xchange | Throug | h UI with R Grid | egional | |
| State/UT/Other Regional Entity | Sale | Pur- chase | Net** | Sale | Pur- chase | Net** | Export (Under Drawl) | Import (Over Drawl) | Net** | Total Net*** |
| Punjab | 16.80 | 75.20 | 58.40 | 0.58 | 46.12 | 45.54 | 125.29 | 24.87 | -100.42 | 3.52 |
| Haryana | 112.73 | 190.64 | 77.91 | 46.93 | 36.25 | -10.68 | 86.33 | 42.80 | -43.53 | 23.70 |
| Rajasthan | 158.56 | 0.30 | -158.26 | 85.25 | 190.09 | 104.84 | 47.12 | 153.79 | 106.67 | 53.25 |
| Delhi | 150.24 | 45.45 | -104.78 | 66.01 | 59.31 | -6.70 | 50.89 | 20.56 | -30.32 | -141.81 |
| Uttar Pradesh | 23.28 | 365.27 | 341.99 | 0.00 | 270.13 | 270.13 | 51.06 | 175.47 | 124.41 | 736.53 |
| Uttarakhand | 0.62 | 127.15 | 126.52 | 14.37 | 101.37 | 87.00 | 8.76 | 48.35 | 39.60 | 253.12 |
| Himachal Pradesh | 6.24 | 32.94 | 26.70 | 132.18 | 26.68 | -105.51 | 9.10 | 45.93 | 36.83 | -41.97 |
| J&K | 67.45 | 35.88 | -31.57 | 31.60 | 10.68 | -20.93 | 22.88 | 55.65 | 32.77 | -19.73 |
| UT Chandigarh | 0.00 | 0.00 | 0.00 | 0.01 | 3.87 | 3.86 | 2.43 | 16.75 | 14.32 | 18.18 |
| MP | 103.94 | 68.52 | -35.43 | 46.72 | 32.53 | -14.19 | 41.33 | 41.46 | 0.13 | -49.49 |
| Maharashtra | 3.41 | 476.67 | 473.26 | 23.33 | 772.15 | 748.82 | 143.59 | 48.06 | -95.52 | 1126.55 |
| Gujarat | 296.64 | 19.21 | -277.43 | 168.35 | 247.06 | 78.71 | 76.18 | 32.81 | -43.37 | -242.08 |
| Chattisgarh | 14.10 | 29.38 | 15.28 | 210.62 | 0.00 | -210.62 | 45.75 | 28.85 | -16.91 | -212.25 |
| Daman and Diu | 0.00 | 0.00 | 0.00 | 0.00 | 23.82 | 23.82 | 4.90 | 2.43 | -2.47 | 21.35 |
| Dadra & Nagar Haveli | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 6.51 | 5.39 | -1.12 | -1.12 |
| Andhra Pradesh | 0.00 | 468.98 | 468.98 | 4.98 | 74.14 | 69.16 | 23.32 | 47.54 | 24.22 | 562.36 |
| Karnataka | 385.27 | 1.08 | -384.18 | 227.29 | 14.44 | -212.85 | 14.96 | 49.62 | 34.66 | -562.38 |
| Kerala | 0.00 | 4.18 | 4.18 | 2.42 | 68.84 | 66.41 | 3.45 | 68.17 | 64.72 | 135.32 |
| Tamilnadu | 0.00 | 7.62 | 7.62 | 0.00 | 39.39 | 39.39 | 103.07 | 15.01 | -88.06 | -41.05 |
| Pondicherry | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 16.81 | 66.39 | 49.59 | 49.59 |
| Telangana | 13.52 | 304.91 | 291.39 | 24.31 | 248.24 | 223.93 | 5.86 | 1.62 | -4.24 | 511.08 |
| West Bengal | 50.67 | 20.07 | -30.61 | 46.54 | 177.17 | 130.63 | 21.62 | 68.52 | 46.90 | 146.93 |
| Orissa | 63.05 | 123.65 | 60.60 | 166.83 | 122.74 | -44.09 | 23.02 | 42.83 | 19.80 | 36.30 |
| Bihar | 0.00 | 319.48 | 319.48 | 0.49 | 0.00 | -0.49 | 61.78 | 29.68 | -32.10 | 286.89 |
| Jharkhand | 0.00 | 137.37 | 137.37 | 0.00 | 0.00 | 0.00 | 16.98 | 17.93 | 0.95 | 138.33 |
| Sikkim | 0.00 | 6.22 | 6.22 | 33.39 | 0.00 | -33.39 | 10.27 | 0.67 | -9.61 | -36.77 |
| DVC | 68.00 | 0.00 | -68.00 | 38.49 | 0.00 | -38.49 | 17.09 | 30.04 | 12.96 | -93.53 |
| Arunachal Pradesh | 0.00 | 0.00 | 0.00 | 0.99 | 3.27 | 2.28 | 1.10 | 11.26 | 10.16 | 12.45 |
| Assam | 0.00 | 0.00 | 0.00 | 23.27 | 18.28 | -4.99 | 7.84 | 22.73 | 14.89 | 9.89 |
| Manipur | 0.00 | 0.00 | 0.00 | 1.36 | 8.27 | 6.91 | 1.05 | 4.84 | 3.79 | 10.70 |
| Meghalaya | 42.13 | 10.53 | -31.60 | 6.68 | 10.90 | 4.22 | 4.51 | 3.15 | -1.36 | -28.73 |
| Mizoram | 0.00 | 0.00 | 0.00 | 6.11 | 0.00 | -6.11 | 0.12 | 5.40 | 5.28 | -0.83 |
| Nagaland | 0.00 | 0.00 | 0.00 | 1.80 | 0.00 | -1.80 | 1.10 | 5.89 | 4.79 | 3.00 |
| Tripura | 1.33 | 3.97 | 2.64 | 33.51 | 0.72 | -32.79 | 2.85 | 5.08 | 2.23 | -27.91 |
| Goa | 0.00 | 41.37 | 41.37 | 8.32 | 0.00 | -8.32 | 14.66 | 18.85 | 4.19 | 37.24 |
| NHPC Stations | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 45.80 | 6.62 | -39.18 | -39.18 |

| NJPC | 0.00 | 0.00 | 0.00 | 9.77 | 0.00 | -9.77 | 6.55 | 2.83 | -3.72 | -13.49 |
|-------------------|--------|------|---------|--------|--------|---------|-------|-------|--------|---------|
| AD HYDRO | 6.45 | 0.00 | -6.45 | 24.00 | 0.00 | -24.00 | 0.33 | 0.59 | -0.12 | -30.57 |
| KARCHAM WANGTOO | 48.67 | 0.00 | -48.67 | 75.56 | 0.00 | -75.56 | 5.23 | 3.08 | -2.15 | -126.38 |
| SHREE CEMENT | 122.62 | 0.00 | -122.62 | 64.95 | 0.00 | -64.95 | 1.16 | 4.17 | 3.01 | -120.36 |
| LANCO BUDHIL | 0.00 | 0.00 | 0.00 | 11.32 | 0.00 | -11.32 | 0.00 | 0.00 | 0.00 | -11.32 |
| JINDAL POWER | 266.83 | 0.00 | -266.83 | 173.50 | 0.00 | -173.50 | 14.96 | 0.88 | -14.09 | -454.41 |
| LANKO AMK | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 2.85 | 0.00 | -2.12 | -434.41 |
| NSPCL | 12.90 | 0.00 | -12.90 | 0.00 | 0.00 | 0.00 | 2.05 | 1.64 | -0.51 | -13.41 |
| ACBIL | 12.90 | 0.00 | | 43.21 | 0.00 | | | 6.86 | 3.84 | |
| | | | -18.91 | | | -43.21 | 3.02 | | | -58.28 |
| BALCO | 0.00 | 0.00 | 0.00 | 0.00 | 9.73 | 9.73 | 0.94 | 5.77 | 4.83 | 14.56 |
| RGPPL(Dabhol) | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.21 | 5.50 | 5.29 | 5.29 |
| CGPL | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 10.88 | 10.84 | -0.05 | -0.05 |
| DCPP | 0.00 | 0.00 | 0.00 | 167.60 | 0.00 | | 2.51 | 2.58 | 0.07 | -167.53 |
| | 0.00 | 0.00 | 0.00 | 35.72 | 0.00 | -35.72 | 0.00 | 0.00 | 0.00 | -35.72 |
| | 0.00 | 0.00 | 0.00 | 28.53 | 0.00 | -28.53 | 0.00 | 0.00 | 0.00 | -28.53 |
| ESSAR STEEL | 0.00 | 0.00 | 0.00 | 0.00 | 183.63 | 183.63 | 0.00 | 0.00 | 0.00 | 183.63 |
| KSK MAHANADI | 0.00 | 0.00 | 0.00 | 20.04 | 0.00 | -20.04 | 0.00 | 0.00 | 0.00 | -20.04 |
| ESSAR POWER | 0.00 | 0.00 | 0.00 | 1.20 | 0.00 | -1.20 | 0.00 | 0.00 | 0.00 | -1.20 |
| JINDAL STAGE-II | 0.00 | 0.00 | 0.00 | 165.82 | 0.00 | -165.82 | 0.00 | 0.00 | 0.00 | -165.82 |
| DHARIWAL POWER | 0.00 | 0.00 | 0.00 | 0.23 | 0.00 | -0.23 | 0.00 | 0.00 | 0.00 | -0.23 |
| JAYPEE NIGRIE | 0.00 | 0.00 | 0.00 | 59.95 | 0.00 | -59.95 | 0.00 | 0.00 | 0.00 | -59.95 |
| LANKO_KONDAPALLY | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| SIMHAPURI | 196.32 | 0.00 | -196.32 | 16.67 | 0.00 | -16.67 | 1.88 | 1.47 | -0.41 | -213.39 |
| Meenakshi | 0.00 | 0.99 | 0.99 | 9.58 | 0.00 | -9.58 | 0.00 | 0.00 | 0.00 | -8.59 |
| STERLITE | 164.07 | 0.00 | -164.07 | 244.27 | 0.00 | -244.27 | 14.99 | 15.40 | 0.41 | -407.93 |
| MAITHON POWER LTD | 13.05 | 0.00 | -13.05 | 75.75 | 0.00 | -75.75 | 6.92 | 4.48 | -2.44 | -91.23 |
| ADHUNIK POWER LTD | 0.00 | 0.00 | 0.00 | 37.75 | 0.00 | -37.75 | 0.00 | 0.00 | 0.00 | -37.75 |
| CHUZACHEN HEP | 0.00 | 0.00 | 0.00 | 37.25 | 0.00 | -37.25 | 0.00 | 0.00 | 0.00 | -37.25 |
| RANGIT HEP | 0.00 | 0.00 | 0.00 | 8.44 | 0.00 | -8.44 | 0.00 | 0.00 | 0.00 | -8.44 |
| TEESTA HEP | 0.00 | 0.00 | 0.00 | 20.74 | 0.00 | -20.74 | 0.00 | 0.00 | 0.00 | -20.74 |
| NEEPCO Stations | 0.00 | 0.00 | 0.00 | 5.37 | 0.00 | -5.37 | 4.14 | 1.29 | -2.85 | -8.22 |
| ONGC PALATANA | 0.00 | 0.00 | 0.00 | 9.87 | 0.00 | -9.87 | 0.00 | 0.00 | 0.00 | -9.87 |
| 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



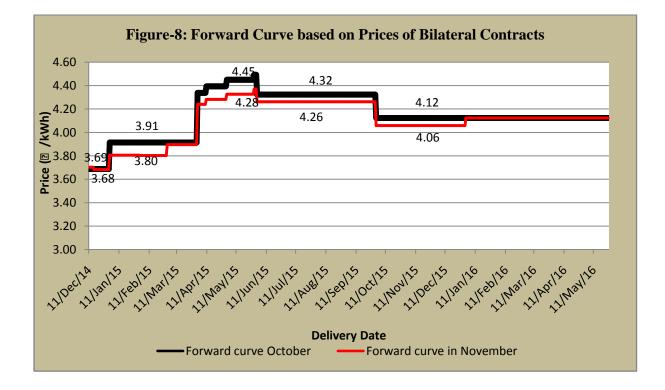


Table-20 : VOLUME AND PRICE OF RENEWABLE ENERGY CERTIFICATES (RECs) TRANSACTED THROUGH POWER EXCHANGES, OCTOBER 2014

| 0 | | I | EX | PXIL | | |
|--------|--|--------|-----------|--------|-----------|--|
| Sr.No. | Details of REC Transactions | Solar | Non-Solar | Solar | Non Solar | |
| А | Volume of Buy Bid | 232 | 36411 | 147 | 37591 | |
| В | Volume of Sell Bid | 187483 | 4766941 | 262879 | 5380305 | |
| С | Ratio of Buy Bid to Sell Bid Volume | 0.001 | 0.008 | 0.001 | 0.007 | |
| D | Market Clearing Volume (MWh) | 232 | 36411 | 147 | 37591 | |
| E | 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 |