

POWER BULLETIN

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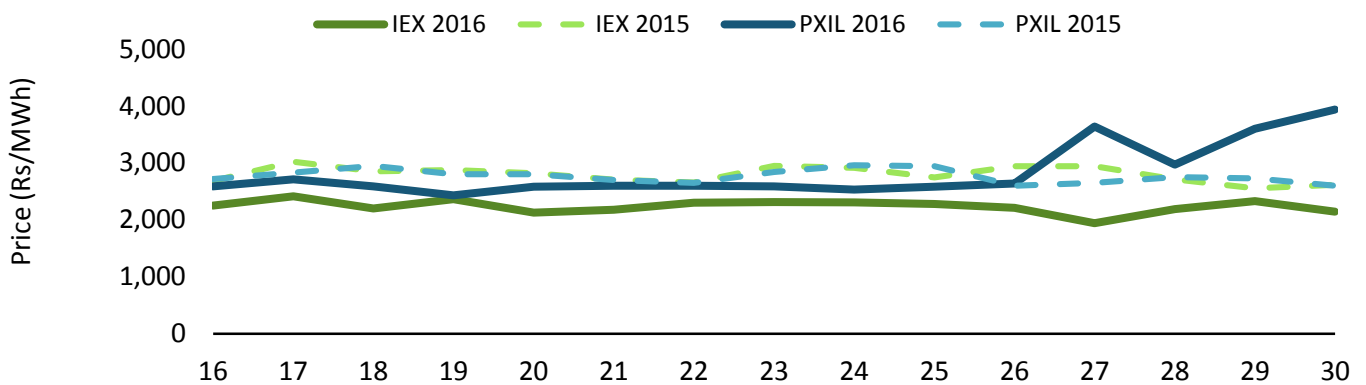
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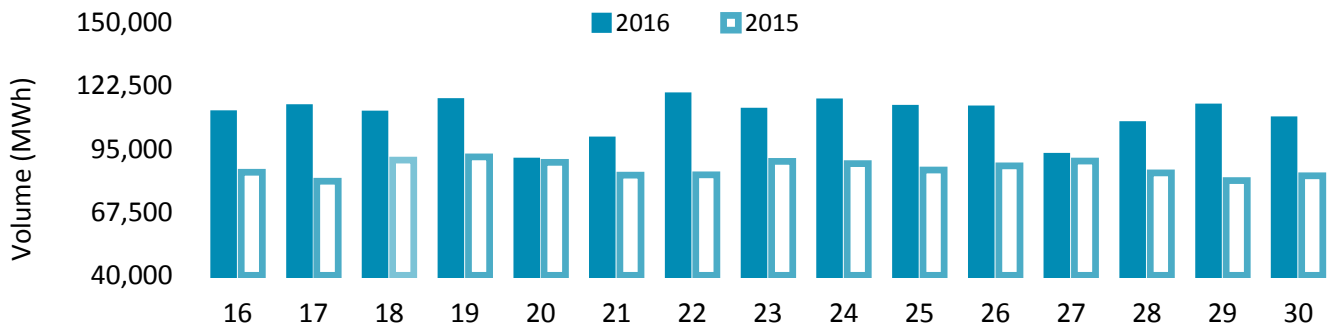
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Exchange-based Power Trading

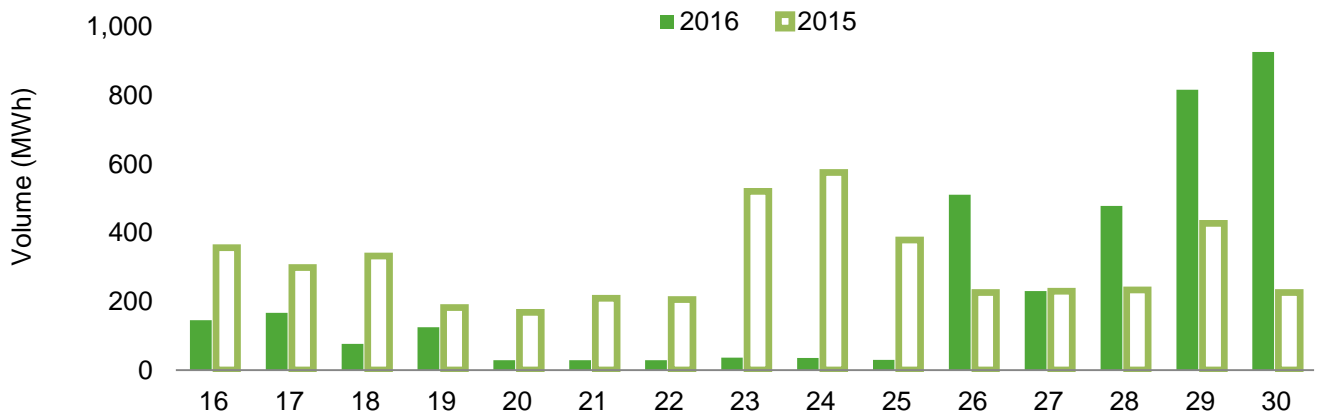
Year-on-year price comparison of power traded on IEX and PXIL (16 – 30 November)



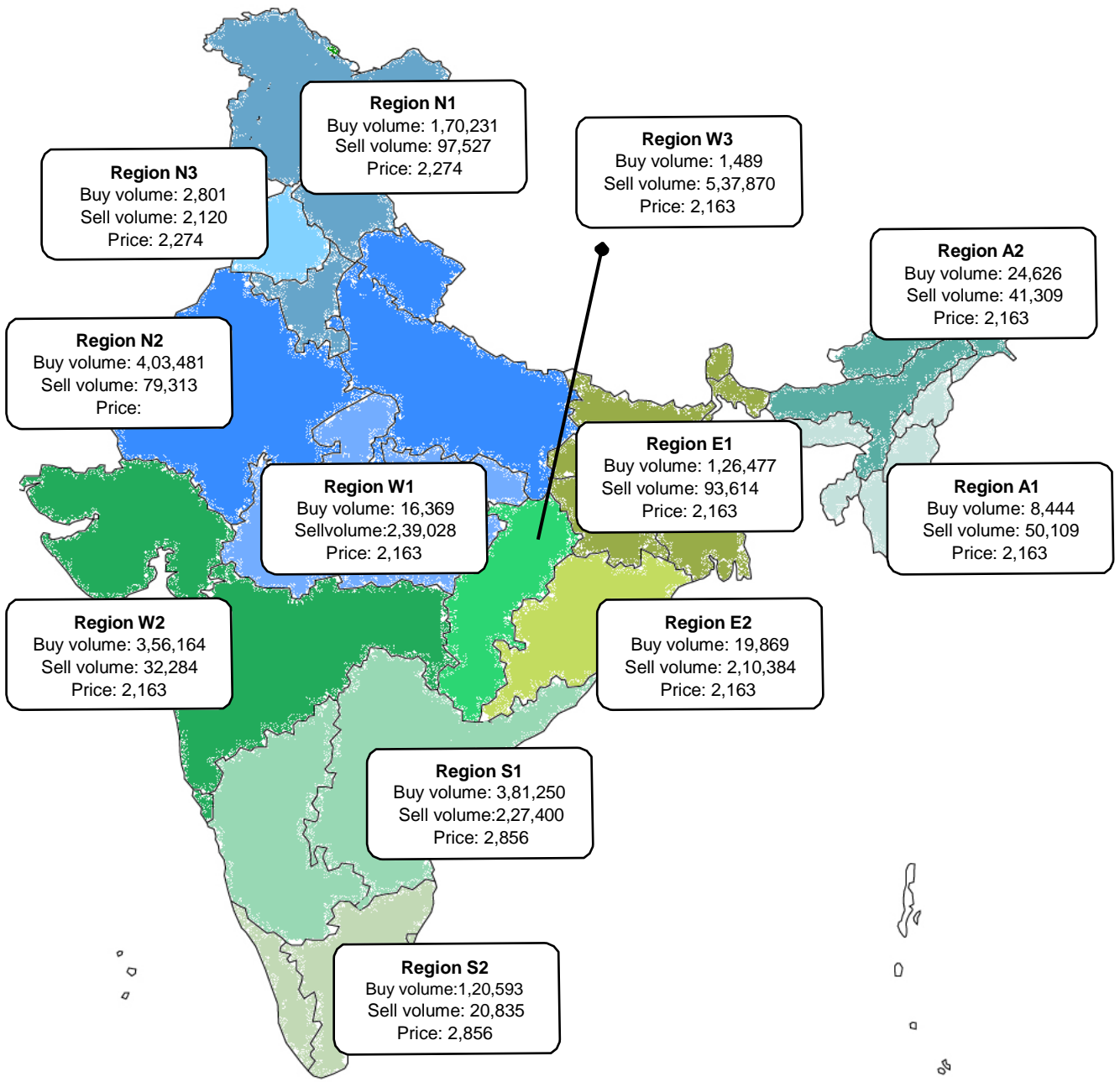
Year-on-year volume comparison of power traded on IEX (16 – 30 November)



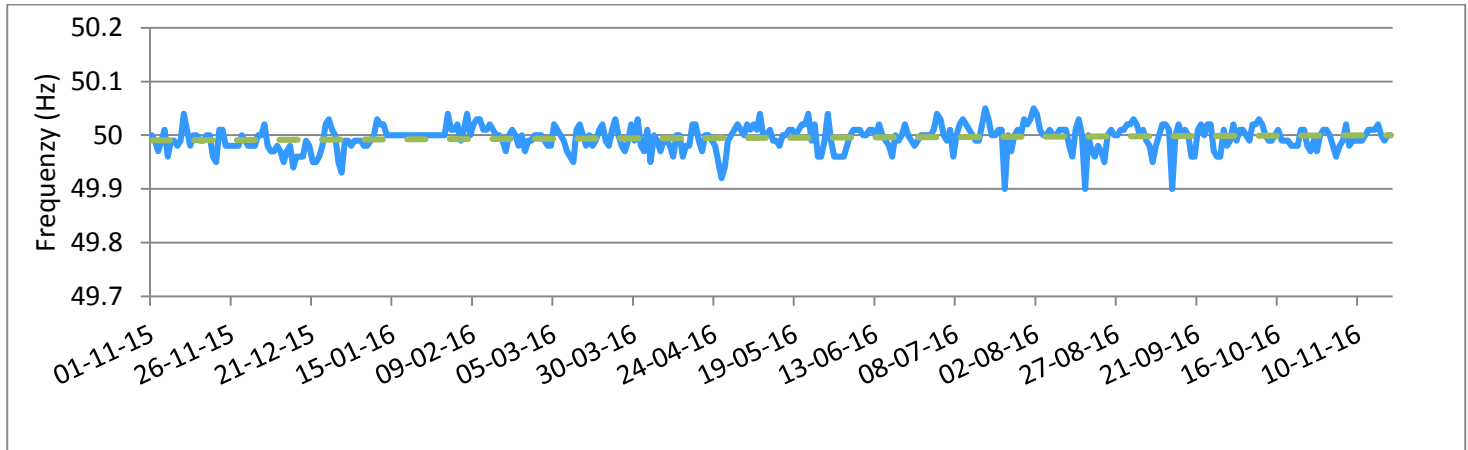
Year-on-year volume comparison of power traded on PXIL (16 – 30 November)



Area-wise Average Power Trading Data from IEX (16 – 30 November 2016)



Average Daily Frequency of Indian Power Grid

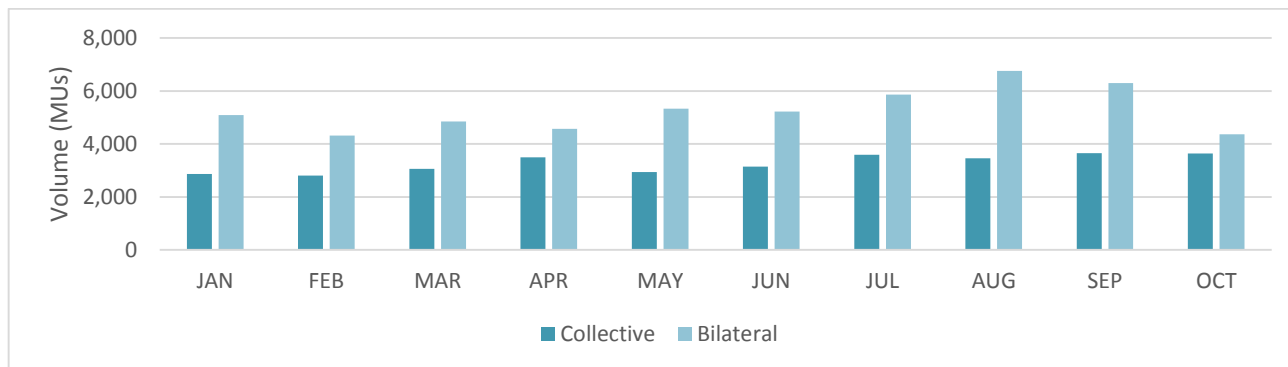


Short Term Open Access

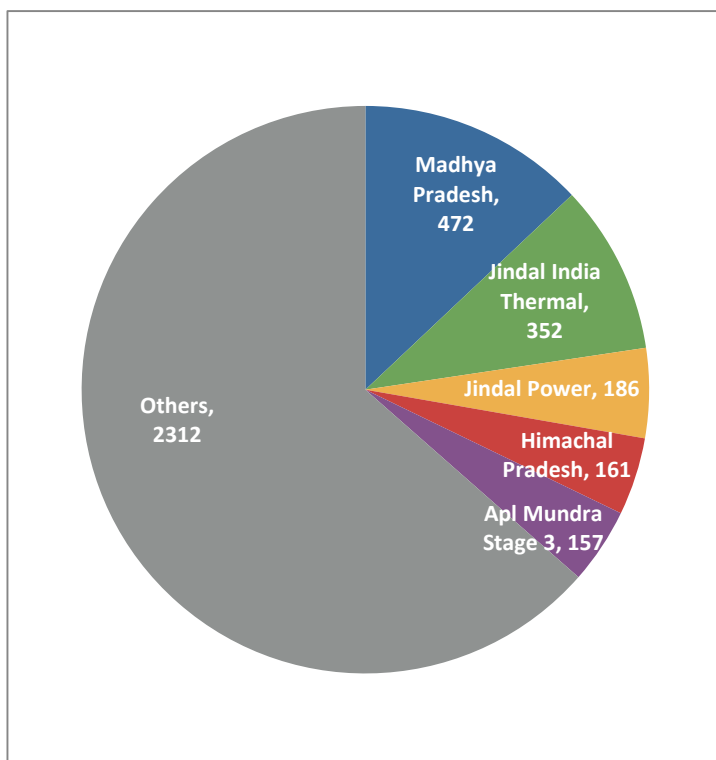
Approved Bilateral Short Term Open Access (in million kWh)

Month RLDC	FEB '16	MAR '16	APRIL '16	MAY '16	JUN'16	JUL'16	AUG'16	SEP'16	OCT'16
North	1692	1243	840	1832	2266	3536	3769	2761	1180
West	858	1238	1008	1224	1053	1146	1012	1423	1483
South	781	1032	1183	1007	911	493	1118	1112	902
East	785	1141	1420	1150	941	627	793	944	732
North-East	199	201	122	126	60	66	72	60	74
TOTAL	4315	4855	4573	5339	5231	5868	6765	6301	4371

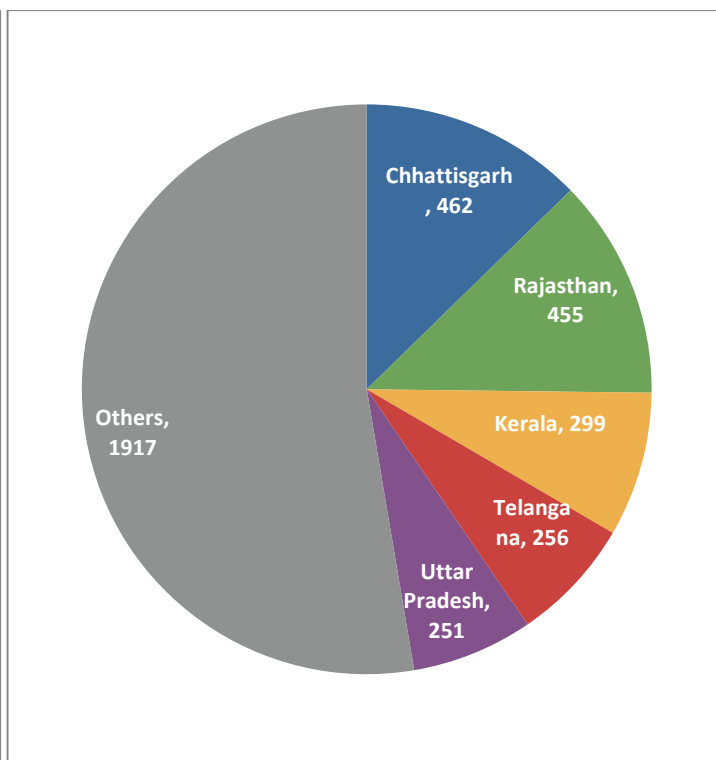
Approved Bilateral & Collective STOAs (million kWh) FY 2015-16 and FY 2016-17



Major Sellers at Exchanges in October' 2016 (MUs)



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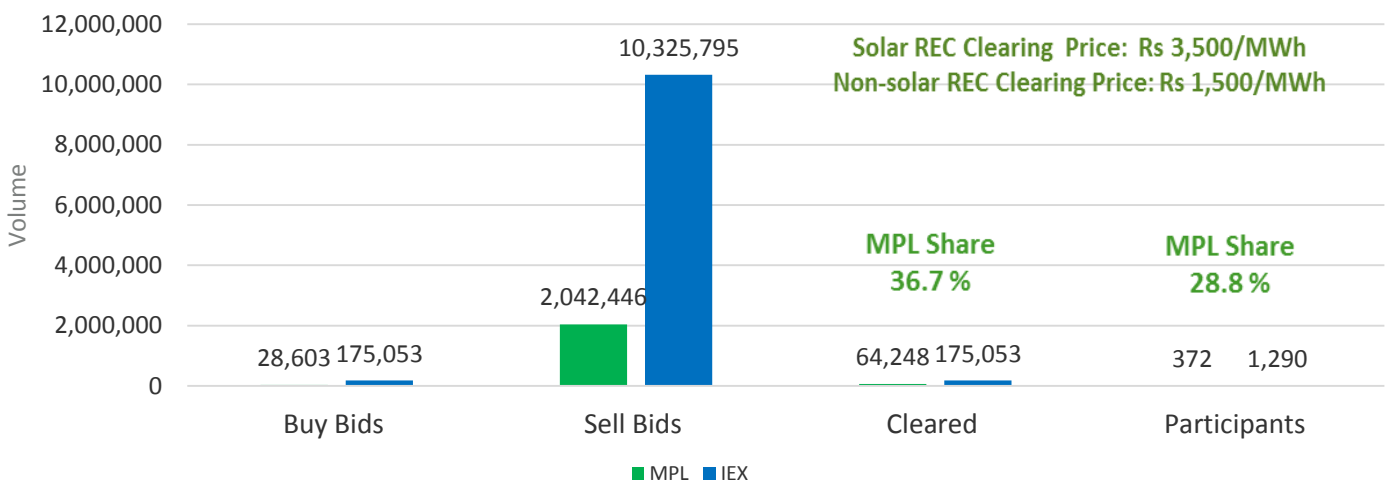


Storage status of important reservoirs (As on 24 November 2016)

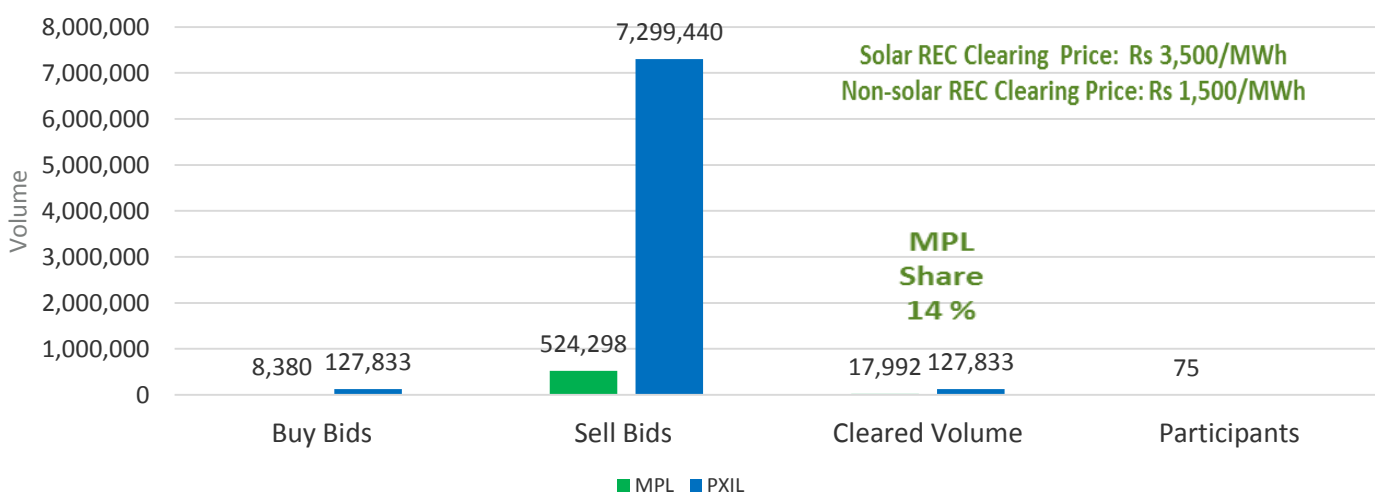
Region – No. of reservoirs	Filing position w.r.t. FRL							
	100%	91-99%	81-90%	71-80%	61-70%	51-60%	41-50%	< 40%
North (HP, Punjab, Rajasthan) – 6	1	1	-	-	-	3	1	-
East (Jharkhand, Odisha, Tripura, West Bengal) – 15	3	2	3	3	1	1	1	1
West (Maharashtra, Gujarat) – 27	3	5	8	3	2	1	2	3
Central (MP, UP, Uttarakhand, Chhattisgarh) – 12	1	3	4	1	1	1	-	1
South (Karnataka, TN, AP, Kerala) – 31	2	-	1	-	3	6	2	17

Summary of REC Trading & MPL share – 30th November 2016

Summary REC trading on IEX



Summary REC trading on PXIL



News Updates

Power distribution reforms: All is not well for states tariff revision

Progress of timely and proper tariff revision in the current financial year is very moderate

BESTs power bills to drop by 35% from November

BEST announced that it will stop levying TDLR (transport division loss recovery) surcharge with immediate effect.

Kahalgaon plant to generate low cost power soon

Kahalgaon Super Thermal Power Station has achieved 74.31% of the total PLF with a record generation of 1,5,275.02 MUs of electricity in the FY15-16

Sembcorp Gayatri Power completes first 660 MW unit

The second unit of 660 MW is expected to be completed in the first quarter of 2017

India Power completes acquisition of Meenakshi Energy plan

Acquisition has been done by transferring Rs. 2,800 crore of Meenakshis debt into its own accounts and buying out Rs. 3,800 crore of equity at \$1

CESC extends power distribution operations to Bharatpur

Bharatpur city currently has more than 52,000 power consumers with annual energy sales amounting to 230 MUs.

Uttar Pradesh govt gives nod to power projects worth Rs 768 crore

The funds are approved to improve the infrastructure of power supply in the state

NHPC Q2 net up 28% on higher output

Gross generation of the company was up by 2 % to 8,941 MUs during July-September

Surcharge waiver on power bills to recover Rs 4,000cr dues

Waiver has been announced for domestic and non-domestic consumers using power up to 2kW for both urban & rural areas

Slow progress in commissioning pvt sector hydro power projects

Only 3,269 MW has been operationalised so far out of the overall plans for 38,039 MW

Gurgaon power department all set to invest Rs 200 crore to maintain and upgrade feeders

Around Rs 1 crore is required to upgrade and maintain one feeder on an average

Vedanta looks to raise captive power generation capacity

Company is considering setting up 350 MW super critical units in JV at its different production bases in the country

Government mulls central transmission entity

Government is looking at creating a separate entity to function as a dedicated CTU with operational and financial authority

BGR Energy Systems bags Rs 2,789 crore order from NLC India

NLCI jointly with UPRVUNL is setting up a 1,980 MW coal based super critical thermal power plant at Ghatampur, UP

Telangana Genco revs up efforts for green signal to Yadadri power plant

Yadadri station would have five units with 800 MW plants & would be constructed with a cost of Rs 28,000 crores

Big chunk of pvt coal-based IPP under operational stress:Ficci

71 GW of private coal based IPP is under operational stress mainly due to absence of FSA and PPA

BHEL commissions 93 MW power plant at Hazira for RIL

It will meet the power requirements of Reliance Industries refinery projects at Hazira and Dahej

Indian power distribution companies revival key to generation volumes in 2017: Fitch

Indian state utilities will have large capex requirements in 2017

Low power generation capacity utilisation to continue in 2017

NTPC, NHPC and PGCIL will benefit from regulatory certainty under the current five-year tariff period

NTPC- Talcher Thermal achieves highest generation in a single day

It generated 11.496 MUs of electricity at 104.13% CUF on November 23rd 2016

Private capacity accounts for 41% of total power generation in India

Private capacity has moved up to 124 GW in 2015-16 due to favourable government policies

NTPC-BHEL power gear unit finally up, but downsized

6,000 crore JV between NTPC and BHEL for manufacturing power equipments was finally into production mode at Mannavaram, Chittoor, AP

3 lakh defaulters pay Rs 108 crore to Maharashtra state electricity distribution company

Over 3 lakh consumers from Pune, Pimpri Chinchwad and adjoining rural areas have paid their arrears amounting to Rs 108 crore to MSEDCL

Dow eyes power plants for new wastewater treatment technology in India

Company is looking at power sector that has to adhere to stringent wastewater treatment norms

Madhya Pradesh to get 17,000 crore boost in energy sector by 2020

Hindustan Power will invest Rs 17,000 crore in Madhya Pradesh in the energy sector by 2020

Regulatory Updates

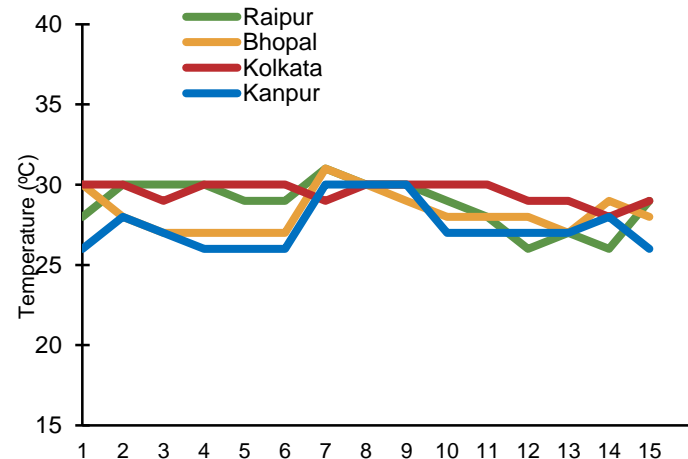
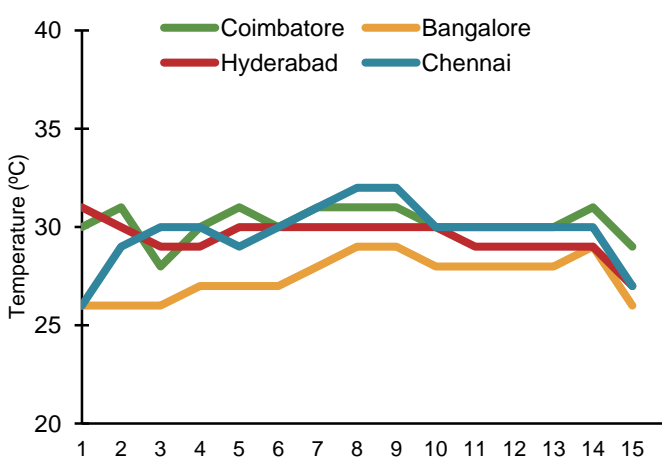
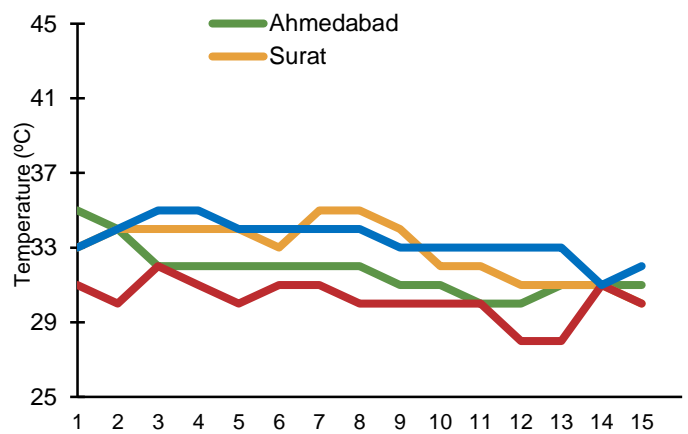
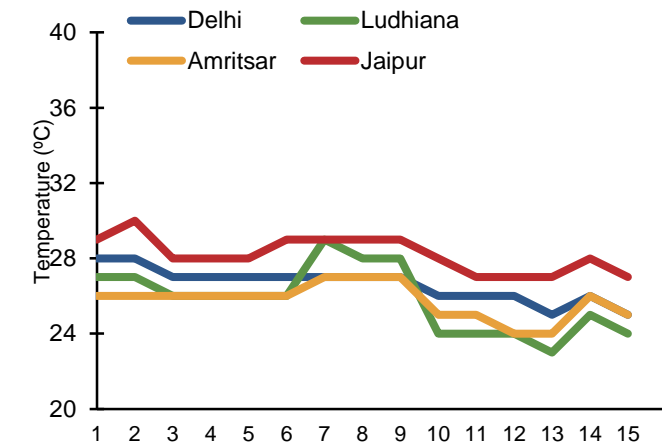
❖ **Punjab generic levelled generation tariff rates for Renewable Energy Power Projects for FY 2016-17.**

- Generic tariff shall be applicable for Solar PV Power Projects up to 31.03.2018 and for Solar Thermal Projects up to 31.03.2019 provided the Power Purchase Agreements (PPAs) are signed on or before 31.03.2017.
- As there is no installable potential for wind energy in the State. In the event of such a project being established, tariff for Wind Zone-1.

Particulars	Applicable Tariff Rates(Rs/kWh)	Benefit of Accelerated Depreciation, if available(Rs/kWh)	Net Applicable Tariff Rate upon adjusting for Accelerated Depreciation benefit
<u>Solar Power Projects</u>			
Solar PV	5.68	0.60	5.08
Solar Thermal	12.07	1.25	10.82
<u>Wind Energy Power Projects</u>			
Wind Zone-1	6.60	0.71	5.89
<u>Small Hydro Power Projects</u>			
Below 5 MW	5.54	-	-
5 to 25 MW	4.69	-	-

Forecasted High Temperatures for Major Cities (01-15 December 2016)

Source:AccuWeather



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