



सत्यमेव जयते  
Government of India

भारत सरकार

**Government of India**

विद्युत मंत्रालय

**Ministry of Power**

पूर्वी क्षेत्रीय विद्युत समिति

**EASTERN REGIONAL POWER COMMITTEE**

मासिक प्रगति रिपोर्ट

**PROGRESS REPORT FOR THE MONTH  
OF**

अप्रैल – 2016

**APRIL - 2016**

पूर्वी क्षेत्रीय विद्युत समिति

**Eastern Regional Power Committee**

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## Highlights of Eastern Regional Power System for April-2016

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of **Apr, 2016** was **18607 MW** which is **7.27%** more than the **Apr, 2015** (17346 MW). Individual **Peak Demand (MW)** of majority constituents increased compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of **Apt, 2016** was **385.58 MU** excluding export, which is **18.01%** more than the corresponding period of last year (326.73 MU).
- The **Average regional PLF of thermal units 64.53%** during the month, which is **1.02%** more than the corresponding period of the last year (63.51%).
- **NTPC of TSTPP** registered the highest **PLF of 95.87%**, followed by **IBTPS (Gridco) (94.47%) & CESC (Budge Budge TPS) (94.07%)** during the month of **Apr' 2016**.
- **Total Net generation** of ER was **20125 MW** against total **Effective Capacity of 35334 MW** (including that of Bhutan), and import from CPPs was **1490 MW** at the time of Regional peak (18607 MW on 12.04.16 at 21.00 hrs.)
- The **IEGC frequency** band has been revised w.e.f. 17.02.2014 and the system frequency in the new recommended band (49.9 Hz to 50.05 Hz) remained for 69.99% of time during the period. **Average frequency** for the month was **49.97 Hz**. The instantaneous maximum and the minimum frequency touched were 50.32 Hz and 49.64 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were **50.16 Hz** and **49.73 Hz** respectively (refer **Annexure-I**).
- The **Maximum Voltage** recorded **796KV** at New Ranchi 765 KV S/s whereas the minimum voltage recorded 370 KV at Jeypore 400 KV S/s of Powergrid.
- The **Maximum Export from ER to outside region was 4442 MW on 13<sup>th</sup> Apr'16 at 13.00 hrs.** Total net energy export during the month was 1999.28 MU (including transmission loss), which corresponds to 14.87% of ex-bus total generation (13445 MU) of Eastern Region and 34.75% more than the corresponding period of previous year.
- The import from CPPs/IPP was 1315.28 MU, which is 72.59% more than corresponding period of last year (762.08 MU).

- **The Total Energy Exchange between Nepal and Bihar (ER) was:**

Export / Import by Bihar	Apr, 2016(In MU)	Cum. (Apr'16-Apr'16) in MU
Export to NEPAL by Bihar (NBPDCCL)	179.00	179.00
Import from NEPAL by Bihar (NBPDCCL)	0.00	0.00
Net export to NEPAL by Bihar (NBPDCCL)	179.00	179.00

- **The total energy exchange between India & Bangladesh was:**

Export	During Apr, 2016(In MU)	Cum. (Apr'16-Apr'16) in MU
Exchange between India & Bangladesh	305.79	305.79

- **Export(+)/Import(-) Scenario:**

Region	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy ( MU )
NR	2537	226	867.38
WR	1545	1473	62.17
SR	1231	895	311.41
NER	1225	741	398.22

**SALIENT FEATURES**

( YEAR TO YEAR COMPARISON )

		Apr-16	APRIL-2015	CHANGE	% CHANGE
1)	Effective Capacity (end of the Month)				
	THERMAL (MW)	29155	25495	3660	14.36
	HYDRO (MW)	4686	4298	388	9
	DIESEL (MW)	7	0	7	0
	SOLAR (MW)	10	0	0	0
	TOTAL (MW)	33858	29793	4065	13.65
2)	Peak Demand ( MW )	18861	17439	1422	8.16
3)	Peak Demand Met ( MW )	18607	17346	1261	7.27
4)	Shortage ( MW )	254	93	161	173.45
5)	% Shortage	1.35	0.53	0.82	154.39
6)	Average Energy Requirement Per Day ( MU )	390.83	329.92	60.91	18.46
7)	Average Energy Availability Per Day ( MU )	385.58	326.73	58.85	18.01
8)	Average Shortage Per Day ( MU )	5.25	3.19	2.06	64.69
9)	% Shortage	1.34	0.97	0.37	38.58
10)	Net Generation for the Month				
	Thermal ( MU )	12517.99	9589.25	2928.74	30.54
	Hydro ( MU )	926.09	916.69	9.40	1.03
	Diesel ( MU )	0.00	0.00	0.00	-
	Total ( MU )	13445	10505.94	2939.40	27.98
11)	Generation at the Time of Max. Regional Demand Met ( 12-04-16 at 21.00 Hrs. )				
	Thermal ( MW )	18180	14613	3567	24.41
	Hydro ( MW )	1945	2661	-716	-26.91
	Diesel ( MW )	0	0	0	-
	Total ( MW )	20125	17274	2851	16.51
12)	Inter-Regional Energy Transfer				
	Export ( MU )	1999.28	1483.73	515.55	34.75
	Import ( MU )	0.00	0.00	0.00	-
	Net Exp.(+)/Net Imp.(-) ( MU )	1999.2827	1483.73	515.55	34.75
13)	Import From Captive(MU)	1315.28	762.08	553.20	72.59
14)	Peak Inter Regional Power Transfer				
	Max Export ( MW ) on 13-04-16 at 13.00Hrs	4442	3466	976	28.17
	Max Import ( MW ) on 05-04-16 at 21.00Hrs	1486	665	821	123.53
	Max Net Export(+)/Import (-) ( MW ) on 00-01-00 at 00.00Hrs	4442	3466	976	28.17
15)	Maximum voltage recorded	796	NEW RANCHI		
16)	Minimum voltage recorded	370	JEYPORE		

\$ Excludes 1350 MW contribution from HEPs of Bhutan

\* Includes contribution from HEP of Bhutan ( Chukha, Kurichhu & Tala )

POWER SUPPLY POSITION FOR THE MONTH OF APRIL-2016

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSEB	67.31	71.16	3.85	5.41
JSEB	24.95	25.12	0.18	0.70
DVC	56.99	57.41	0.42	0.73
ODISHA	77.80	77.87	0.07	0.09
WBSEDCL	115.72	116.42	0.70	0.60
CESC	35.77	35.81	0.03	0.09
DPL	5.80	5.81	0.01	0.09
SIKKIM	1.22	1.23	0.01	0.47
<b>REGION</b>	<b>385.58</b>	<b>390.83</b>	<b>5.25</b>	<b>1.34</b>

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSEB	3516	3540	23	0.65
JSEB	1192	1195	4	0.30
DVC	2518	2518	0	0.00
ODISHA	3965	3966	1	0.03
WBSEDCL	6038	6092	54	0.89
CESC	2055	2061	6	0.3
DPL	284	284	0	0.02
SIKKIM	84	84	0	0.00
<b>REGION</b>	<b>18607</b>	<b>18861</b>	<b>254</b>	<b>1</b>

➤ DIVERSITY FACTOR : 1.06

➤ Regional Peak Demand Met on 12-4-2016 at 21.00 hrs. at 49.96 Hz.