



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**

मई - 2016

MAY - 2016

पूर्वी क्षेत्रीय विद्युत समिति

Eastern Regional Power Committee

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Highlights of Eastern Regional Power System for May-2016

- The **Maximum Net Demand** met of Eastern Region (ER) during the month of May, 2016 was 18306 MW which is 4.00% more than the May, 2015 (17602 MW). Individual Peak Demand (MW) of majority constituents decreased compared to the corresponding period of last year.
- The **Average Net Energy Consumption** per day in ER for the month of May, 2016 was 350.35 MU excluding export, which is 1.15% more than the corresponding period of last year (346.36 MU).
- The **Average regional PLF of thermal units 62.29% during the month**, which is 2.36% less than the corresponding period of the last year (64.65%).
- **Budge-Budge** of CESC registered the highest PLF of 96.90%, followed by TTPS (Gridco) (96.42%) & NTPC (TSTPP) (92.90%) during the month of May' 2016.
- **Total Net generation** of ER was 18764 MW against total **Effective Capacity** of 35334 MW (including that of Bhutan), and import from CPPs was 1022 MW at the time of Regional peak (18306 MW on 02.05.16 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 69.80% of time during the period. **Average frequency** for the month was 50.00 Hz. The instantaneous maximum and the minimum frequency touched were 50.44 Hz and 49.56 Hz respectively. The integrated (Fifteen minutes time block average) maximum and minimum frequency were 50.26 Hz and 49.73 Hz respectively (refer Annexure-I).
- The **Maximum Voltage** recorded 431KV at Jamshedpur 400 KV S/s whereas the minimum voltage recorded 369 KV at Jeypore 400 KV S/s of Powergrid.
- The **Maximum Export from ER to outside region** was 4937 MW on 31st May'16 at 12.00 hrs. Total net energy export during the month was 2021.56 MU (including transmission loss), which corresponds to 15.79% of ex-bus total generation (12800 MU) of Eastern Region and 8.07% less than the corresponding period of previous year.
- The import from CPPs/IPPs was 1656.04 MU, which is 112.20% more than corresponding period of last year (780.42 MU).
- The **Total Energy Exchange between Nepal and Bihar (ER) was:**

Export / Import by Bihar	May, 2016(In MU)	Cum. (Apr'16-May'16) in MU
Export to NEPAL by Bihar (NBPDC)	114.00	293.00
Export to NEPAL by NVVN	56.00	110.00

- The total energy exchange between India & Bangladesh was:

Export	During May, 2016(In MU)	Cum. (Apr'16-May'16) in MU
Exchange between India & Bangladesh	326.50	632.29

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

Region	Max. Export of Power ER (MW)	Max. Import of Power by ER (MW)	Net Export of Energy (MU)
NR	2673	389	867.38
WR	1635	1587	62.17
SR	1307	440	311.41
NER	1064	485	398.22

SALIENT FEATURES

(YEAR TO YEAR COMPARISON)

		May-16	MAY-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)	18600	17717	883	4.98
3)	Peak Demand Met (MW)	18306	17602	704	4.00
4)	Shortage (MW)	294	115	179	155.55
5)	% Shortage	1.58	0.65	0.93	143.09
6)	Average Energy Requirement Per Day (MU)	355.45	349.67	5.78	1.65
7)	Average Energy Availability Per Day (MU)	350.35	346.36	3.99	1.15
8)	Average Shortage Per Day (MU)	5.10	3.31	1.79	54.14
9)	% Shortage	1.44	0.95	0.49	51.09
10)	Net Generation for the Month				
	Thermal (MU)	11657.85	10579.55	1078.30	10.19
	Hydro (MU)	1140.92 *	1324.80	-183.88	-13.88
	Diesel (MU)	0.00	0.00	0.00	-
	Total (MU)	12800	11904.35	895.75	7.52
11)	Generation at the Time of Max. Regional Demand Met (02-05-16 at 21.00 Hrs.)				
	Thermal (MW)	16750	15889	861	5.42
	Hydro (MW)	2014 *	2776	-762	-27.45
	Diesel (MW)	0	0	0	-
	Total (MW)	18764	18665	99	0.53
12)	Inter-Regional Energy Transfer				
	Export (MU)	2021.56	2199	-177.44	-8.07
	Import (MU)	0.00	0.00	0.00	-
	Net Exp.(+)/Net Imp.(-) (MU)	2021.5575	2199	-177.44	-8.07
13)	Import From Captive(MU)	1656.04	780.42	875.62	112.20
14)	Peak Inter Regional Power Transfer				
	Max Export (MW) on 31-05-16 at 12.00Hrs	4937	4490	447	9.96
	Max Import (MW) on 10-05-16 at 19.00Hrs	1608	416	1192	286.65
	Max Net Export(+)/Import (-) (MW) on 00-01-00 at 00.00Hrs	4607	4490	117	2.62
15)	Maximum voltage recorded	431	JAMSHEDPUR		
16)	Minimum voltage recorded	369	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 MAY-2016

A) Net Average Energy Per Day

System	Demand Met (MU/Day)	Requirement (MU/Day)	Shortage (MU/Day)	% Shortage
BSEB	64.08	67.76	3.68	5.43
JSEB	21.83	21.98	0.15	0.69
DVC	48.93	49.29	0.36	0.74
ODISHA	70.64	70.66	0.01	0.02
WBSEDCL	104.35	105.23	0.88	0.84
CESC	33.82	33.83	0.01	0.02
DPL	5.54	5.55	0.00	0.02
SIKKIM	1.16	1.17	0.00	0.40
REGION	350.35	355.45	5.10	1.44

B) Peak Demand in MW:

System	Demand Met (MW)	Requirement (MW)	Shortage (MW)	% Shortage
BSEB	3634	3659	25	0.68
JSEB	1116	1117	1	0.10
DVC	2493	2540	48	1.88
ODISHA	3965	3968	3	0.08
WBSEDCL	5820	5854	34	0.59
CESC	2009	2011	2	0.1
DPL	274	275	0	0.09
SIKKIM	79	79	0	0.00
REGION	18306	18600	294	2

➤ DIVERSITY FACTOR : 1.06

➤ Regional Peak Demand Met on 2-5-2016 at 21.00 hrs. at 49.99 Hz.