



**National Load Despatch Centre**  
**पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
**POWER SYSTEM OPERATION CORPORATION LIMITED**  
(A wholly owned subsidiary of POWERGRID)  
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

Date: 20<sup>th</sup> Dec 2016

To,

1. महाप्रबंधक, पू.क्षे.भा.प्रे.के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033  
General Manager, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. महाप्रबंधक, ऊ.क्षे.भा.प्रे.के., 18/ ए , शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016  
General Manager, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi – 110016
3. महाप्रबंधक, प.क्षे.भा.प्रे.के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई -400093  
General Manager, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
4. महाप्रबंधक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नॉग्रह , लापलंग, शिलॉंग - 793006  
General Manager, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. महाप्रबंधक , द.क्षे.भा.प्रे.के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु -560009  
General Manager, SRLDC, 29, Race Course Cross Road, Bangalore-560009

**Sub: Daily PSP Report for the date 19.12.2016.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19 दिसम्बर 2016 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें की वेबसाइट पर उपलब्ध है

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 19<sup>th</sup> December 2016, is available at the NLDC website.

Thanking You.



**पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड**  
**राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली**

Report for previous day

Date of Reporting

19-Dec-16

**A. Maximum Demand**

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW)	39550	41772	32585	15332	2191	131430
Peak Shortage (MW)	526	11	0	0	37	574
Energy Met (MU)	832	990	754	291	37	2903
Hydro Gen(MU)	96	36	22	22	11	187
Wind Gen(MU)	4	12	18	-----	-----	34
Solar Gen (MU)*	2.94	9.65	16.00	0.04	0.02	29

**B. Frequency Profile (%)**

Region	FVI	<49.7	49.7-49.8	49.8-49.9	<49.9	49.9-50.05	> 50.05
All India	0.045	0.00	0.02	7.05	7.07	72.58	20.35

**C. Power Supply Position in States**

Region/Region	States	Max. Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)
NR	Punjab	5339	0	100.7	36.7	-0.6	182
	Haryana	5789	0	113.0	71.4	-0.7	175
	Rajasthan	9122	0	200.8	69.7	2.6	269
	Delhi	3309	0	55.5	42.0	1.9	253
	UP	12619	0	267.3	79.5	-1.6	278
	Uttarakhand	1690	0	30.7	15.9	-0.1	73
	HP	1375	0	23.9	20.5	-0.4	187
	J&K	1700	425	37.0	38.6	-4.7	0
WR	Chhattisgarh	3094	0	65.5	12.2	-1.0	338
	Gujarat	12392	0	265.9	100.4	-0.9	386
	MP	11401	0	221.0	124.4	-2.3	366
	Maharashtra	19168	0	397.4	119.7	-0.8	309
	Goa	386	0	8.0	6.0	1.3	119
	DD	258	0	5.9	5.9	0.0	29
	DNH	667	0	15.5	15.6	0.0	64
	Essar steel	519	0	10.4	9.7	0.7	240
SR	Andhra Pradesh	6162	0	134.6	23.5	2.4	528
	Telangana	7128	0	142.4	66.4	1.6	294
	Karnataka	7814	0	167.5	57.7	3.2	801
	Kerala	3148	0	58.9	51.1	2.3	282
	Tamil Nadu	11534	0	245.6	139.1	0.8	547
	Pondy	256	0	5.4	6.1	-0.7	45
ER	Bihar	3456	0	57.7	54.4	2.5	350
	DVC	2319	0	53.2	-33.0	-1.1	130
	Jharkhand	1127	0	21.7	13.8	2.2	240
	Odisha	3647	0	68.3	19.4	1.0	160
	West Bengal	5591	0	88.0	17.2	1.1	230
NER	Sikkim	88	0	1.8	1.4	0.4	25
	Arunachal Pradesh	89	0	2.0	1.8	0.2	33
	Assam	1330	7	21.4	16.7	1.4	145
	Manipur	148	3	2.2	2.5	-0.3	29
	Meghalaya	264	0	4.7	4.1	-0.2	19
	Mizoram	74	2	1.3	1.4	-0.2	23
	Nagaland	98	2	1.8	1.9	-0.1	18
Tripura	208	0	3.5	1.4	0.2	61	

**D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)**

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.1	-6.0	-11.9
Day peak (MW)	312.9	-300.6	-592.0

**E. Import/export By Regions(in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)**

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.9	-155.6	57.7	-81.5	4.2	-2.3
Actual(MU)	170.1	-164.1	65.6	-79.2	4.1	-3.5
O/D/U/D(MU)	-2.8	-8.5	7.9	2.3	-0.1	-1.2

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	Total
Central Sector	6171	11646	2660	2220	64	22761
State Sector	8425	18629	7982	6134	110	41280
Total	14596	30275	10642	8354	173	64041

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

सचिव(ऊर्जा)/संयुक्त सचिव(पारिषद)/(ओ एम)/निदेशक(ओ एम)/मुख्य अभियंता-के०वि०प्रा०(ग्रि०प्र०)/अध्यक्ष एवं प्रबंध निदेशक (पावरग्रिड)/मुख्य कार्यपालक अधिकारी(पोसीको)/सभी राज्यों के मुख्य सचिव/ऊर्जा सचिव

INTER-REGIONAL EXCHANGES								
								Date of Reporting : 19-Dec-16
								Import=(+ve) /Export =(-ve) for NET (MU)
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	765KV	GAYA-VARANASI	D/C	0	428	0.0	13.4	-13.4
2		SASARAM-FATEHPUR	S/C	93	197	0.0	1.2	-1.2
3		GAYA-BALIA	S/C	0	360	0.0	6.7	-6.7
4	HVDC LINK	PUSAULI B/B	S/C	0	348	0.0	8.3	-8.3
5	400 KV	PUSAULI-SARNATH	S/C	0	273	0.0	0.0	0.0
6		PUSAULI -ALLAHABAD	S/C	0	108	0.0	0.0	0.0
7		MUZAFFARPUR-GORAKHPUR	D/C	3	535	0.0	9.0	-9.0
8		PATNA-BALIA	Q/C	0	939	0.0	16.9	-16.9
9		BIHARSHARIFF-BALIA	D/C	26	286	0.0	4.7	-4.7
10		BARH-GORAKHPUR	D/C	0	550	0.0	11.2	-11.2
11		BIHARSHARIFF-VARANASI	D/C	35	0	0.0	2.4	-2.4
12	220 KV	PUSAULI-SAHUPURI	S/C	0	167	0.0	3.0	-3.0
13	132 KV	SONE NAGAR-RIHAND	S/C	0	0	0.6	0.0	0.6
14		GARWAH-RIHAND	S/C	35	0	0.9	0.0	0.9
15		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
16		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>1.4</b>	<b>76.7</b>	<b>-75.3</b>
<b>Import/Export of ER (With WR)</b>								
17	765 KV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	82	555	0.0	7.0	-7.0
18		NEW RANCHI-DHARAMJAIGARH	D/C	419	164	2.0	0.0	2.0
19	400 KV	ROURKELA - RAIGARH ( SEL LILO BYPASS)	S/C	114	93	0.0	0.7	-0.7
20		JHARSUGUDA-RAIGARH	S/C	89	98	0.0	0.8	-0.8
21		IBEUL-RAIGARH	S/C	67	67	0.0	0.5	-0.5
22		STERLITE-RAIGARH	D/C	0	265	0.0	4.6	-4.6
23		RANCHI-SIPAT	D/C	210	108	1.1	0.0	1.1
24	220 KV	BUDHIPADAR-RAIGARH	S/C	34	98	0.0	0.7	-0.7
25		BUDHIPADAR-KORBA	D/C	119	14	1.3	0.0	1.3
<b>ER-WR</b>						<b>4.3</b>	<b>14.4</b>	<b>-10.1</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	280	0.0	13.5	-13.5
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1676	0.0	32.7	-32.7
28	765 KV	ANGUL-SRIKAKULAM	D/C	0.0	0	0.0	0.0	0.0
29	400 KV	TALCHER-I/C		496.5	30	7.2	0.1	7.1
30	220 KV	BALIMELA-UPPER-SILERRU	S/C	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>7.2</b>	<b>46.2</b>	<b>-46.2</b>
<b>Import/Export of ER (With NER)</b>								
31	400 KV	BINAGURI-BONGAIGAON	Q/C	458	4	6.4	0.0	6
32	220 KV	ALIPURDUAR-SALAKATI	D/C	0	0	0.8	0.0	1
<b>ER-NER</b>						<b>7.2</b>	<b>0.0</b>	<b>7.2</b>
<b>Import/Export of NR (With NER)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	12.1	12.1
<b>NR-NER</b>						<b>0.0</b>	<b>12.1</b>	<b>12.1</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	V'CHAL B/B	D/C	500	0	11.6	0.0	11.6
35	HVDC	APL -MHG	D/C	0	1714	0.0	39.9	-39.9
36	765 KV	GWALIOR-AGRA	D/C	0	2592	0.0	50.6	-50.6
37	765 KV	PHAGI-GWALIOR	D/C	0	1784	0.0	32.6	-32.6
38	400 KV	ZERDA-KANKROLI	S/C	171	34	1.7	0.0	1.7
39	400 KV	ZERDA -BHINMAL	S/C	82	140	0.0	0.9	-0.9
40	400 KV	V'CHAL -RIHAND	S/C	0	0	0.0	0.0	0.0
41	400KV	RAPP-SHUJALPUR	D/C	0	380	0	7	-7
42	220 KV	BADOD-KOTA	S/C	89	0	1.3	0.0	1.3
43		BADOD-MORAK	S/C	38	88	0.3	0.1	0.2
44		MEHGAON-AURAIYA	S/C	93	0	1.6	0.0	1.6
45		MALANPUR-AURAIYA	S/C	43	0	0.6	0.0	0.6
46		132KV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0
<b>WR-NR</b>						<b>17.0</b>	<b>130.9</b>	<b>-113.9</b>
<b>Import/Export of WR (With SR)</b>								
47	HVDC LINK	BHADRAWATI B/B	-	0	1000	0.0	22.1	-22.1
48		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
49	765 KV	SOLAPUR-RAICHUR	D/C	0	1912	0.0	34.2	-34.2
50	400 KV	KOLHAPUR-KUDGI	D/C	0	387	0.0	4.3	-4.3
51	220 KV	KOLHAPUR-CHIKODI	D/C	0	270	0.0	5.6	-5.6
52		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0
53		XELDEM-AMBEWADI	S/C	78	0	1.5	0.0	1.5
<b>WR-SR</b>						<b>1.5</b>	<b>66.2</b>	<b>-64.7</b>
<b>TRANSNATIONAL EXCHANGE</b>								
54		BHUTAN						6.1
55		NEPAL						-6.0
56		BANGLADESH						-11.9



**DATE OF REPORTING: 19.12.2016**  
**LINE OUTAGE REPORT FOR 18.12.2016**

Name of Line	Voltage (kV)	Region	Ownership	Outage		Revival	Reason of Outage/Remark
				Date	Time		
<b>IR Links</b>							
<b>NR</b>							
1	KHEDAR-NIBHAWALI 2	400	NR	HVPSL	12.12.16	2130	STILL OUT HIGH VOLTAGE
2	MAINPURI-PARICHA-II	400	NR	UPPTCL	16.12.16	0030	STILL OUT HIGH VOLTAGE
3	AGRA-BHAWANA/CHERALI-I	800	NR	PGCIL	16.12.16	0032	STILL OUT HIGH VOLTAGE
4	PARBATI POOL-PARBATI-3-I	400	NR	PGCIL	25.11.16	2318	STILL OUT HIGH VOLTAGE
5	AMBER-I/RODANA	400	NR	REVPNL	17.12.16	0009	STILL OUT HIGH VOLTAGE
6	AGRA-SIKAR-I	400	NR	PGCIL	17.12.16	1950	STILL OUT HIGH VOLTAGE
7	PATNAGAR/PGCIL-KHEDAR/HVPSL-1	400	NR	HVPSL	17.12.16	2139	STILL OUT HIGH VOLTAGE
8	RATANAGAR-SURATGARH-2	400	NR	REVPNL	26.11.16	2142	STILL OUT HIGH VOLTAGE
9	CHAMERAPUR-JALANDHAR-2	400	NR	PGCIL	17.11.16	2143	STILL OUT HIGH VOLTAGE
10	KATHAL-PATBAN-2	400	NR	PGCIL	18.12.16	0032	STILL OUT HIGH VOLTAGE
11	Patiala(PG)-Patran(PTCL)-2	400	NR	PGCIL	18.12.16	0033	STILL OUT HIGH VOLTAGE
12	Makhu-Mukasar-2	400	NR	PSEB	18.12.16	0105	STILL OUT HIGH VOLTAGE
13	Mukasar-Talwandi Sabo-1	400	NR	PSEB	18.12.16	0111	STILL OUT HIGH VOLTAGE
14	Nakodar-Rajma (TH)-1	400	NR	PSEB	18.12.16	0116	STILL OUT HIGH VOLTAGE
15	Fatehgarh-Mojar	400	NR	PGCIL	18.12.16	1913	STILL OUT HIGH VOLTAGE
16	Ranaghat (RVPSL)-Sikar (PG)-1	400	NR	PGCIL	18.12.16	1918	STILL OUT HIGH VOLTAGE
17	Jodhpur-H-Merta-1	400	NR	REVPNL	18.12.16	1921	STILL OUT HIGH VOLTAGE
18	Chamara (NHPC)-Jalandhar(PG)-2	400	NR	PGCIL	18.12.16	1923	STILL OUT HIGH VOLTAGE
19	Akal-Jodhpur-II	400	NR	REVPNL	18.12.16	1923	STILL OUT HIGH VOLTAGE
20	Kota(PG)-Merta(RVPSL)-1	400	NR	PGCIL	18.12.16	1926	STILL OUT HIGH VOLTAGE
21	Bikaner-Merta	400	NR	REVPNL	18.12.16	2005	STILL OUT HIGH VOLTAGE
22	Bikaner-Dabwana-1	400	NR	REVPNL	18.12.16	2005	STILL OUT HIGH VOLTAGE
23	Neemrana-Sikar-2	400	NR	PGCIL	18.12.16	2011	STILL OUT HIGH VOLTAGE
24	Jhakai (SVNL)-Kuchamanwongot(JP)-2	400	NR	JEDYERO	18.12.16	2011	STILL OUT HIGH VOLTAGE
25	Bhivadi-Neemrana-1	400	NR	PGCIL	18.12.16	2012	STILL OUT HIGH VOLTAGE
26	Jhakai-Panchkula-2	400	NR	PGCIL	18.12.16	2016	STILL OUT HIGH VOLTAGE
27	Agas-Sikar-2	400	NR	PGCIL	18.12.16	2051	STILL OUT HIGH VOLTAGE
28	Agas-Jaipur-South-1	400	NR	PGCIL	18.12.16	2052	STILL OUT HIGH VOLTAGE
29	Ballaigarh-Mainpuri-1	400	NR	PGCIL	18.12.16	2053	STILL OUT HIGH VOLTAGE
30	Fatehgarh-Mainpuri-1	400	NR	PGCIL	18.12.16	2054	STILL OUT HIGH VOLTAGE
31	Agas-Bhivadi-2	400	NR	PGCIL	18.12.16	2055	STILL OUT HIGH VOLTAGE
32	Bhivadi-Hisar	400	NR	PGCIL	18.12.16	2056	STILL OUT HIGH VOLTAGE
33	Ludhiana-Patiala-2	400	NR	PGCIL	18.12.16	2100	STILL OUT HIGH VOLTAGE
34	Abdullapur-Kuchamanwongot-1	400	NR	JPL	18.12.16	2103	STILL OUT HIGH VOLTAGE
35	Abdullapur-Karakshetra(PG)-2	400	NR	PGCIL	18.12.16	2128	STILL OUT HIGH VOLTAGE
36	Jalandhar-Karakshetra(PG)-1	400	NR	PGCIL	18.12.16	2133	STILL OUT HIGH VOLTAGE
37	Nalagarh(PG)-Rampran(SVNL)-2	400	NR	PGCIL	18.12.16	2140	STILL OUT HIGH VOLTAGE
38	Chamara-pool-Jalandhar-1	400	NR	PGCIL	18.12.16	2157	STILL OUT HIGH VOLTAGE
39	Ballaigarh-Kampur-1	400	NR	PGCIL	18.12.16	0311	STILL OUT HIGH VOLTAGE
<b>WR</b>							
1	CHIBGOAN-JULWANA-SC-1	400	WR	MPPCL	28.11.16	1934	STILL OUT HIGH VOLTAGE
2	KOLHAPUR-MAPSUSA-1	400	WR	PGCIL	17.12.16	1648	STILL OUT HIGH VOLTAGE
3	DHARAMNAGAR-PURGAJABALPUR/PS-III	765	WR	PGCIL	17.12.16	1825	STILL OUT HIGH VOLTAGE
4	KARAD-KOLHAPUR-1	400	WR	MSECL	17.12.16	1707	STILL OUT HIGH VOLTAGE
5	KARAD-JAGAD-II	400	WR	MSECL	17.12.16	1824	STILL OUT HIGH VOLTAGE
6	Aurangabad-Wardha-I	765	WR	PGCIL	18.12.16	2071	STILL OUT HIGH VOLTAGE
7	Pune-CKS/Solapur/Solapur(PG)-I	765	WR	PGCIL	18.12.16	2085	STILL OUT HIGH VOLTAGE
8	Bhachani(PG)-Essar Vadnar(GFCO)-II	400	WR	PGCIL	18.12.16	0235	STILL OUT HIGH VOLTAGE
9	SOLAPUR/PG-KOLHAPUR/MSECL-I	400	WR	PGCIL	18.12.16	1725	STILL OUT HIGH VOLTAGE
10	SHINDWAR-KARACHI-I	400	WR	PGCIL	18.12.16	1276	STILL OUT HIGH VOLTAGE
11	BHUSAWAL-AURANGABAD-SC	400	WR	MSECL	18.12.16	1807	STILL OUT HIGH VOLTAGE
12	Rajapur(PG)-Kopergo(PG)-II	400	WR	BTEL	18.12.16	2115	STILL OUT HIGH VOLTAGE
13	SR-KARACHI-I	400	WR	MPPCL	18.12.16	1816	STILL OUT HIGH VOLTAGE
14	DEHGM-VADAVI-I	400	WR	PGCIL	18.12.16	2132	STILL OUT HIGH VOLTAGE
<b>ER</b>							
1	TALA-BINAGUR-IV	400	ER	PGCIL	01.11.16	1329	STILL OUT HIGH VOLTAGE
2	CHEKHA-BIRPORA-I	220	ER	PGCIL	29.11.16	2255	STILL OUT HIGH VOLTAGE
<b>SR</b>							
1	VEMAGIRI-GAUMBI CCCT-2	400	SR	APTRANSCO	07.11.16	1617	STILL OUT HIGH VOLTAGE
2	SATTENPALLY-SRISAILAM-II	400	SR	APTRANSCO	05.11.16	1916	STILL OUT HIGH VOLTAGE
3	KIMMAM-NSAGAR-2	400	SR	PGCIL	06.12.16	1817	STILL OUT HIGH VOLTAGE
4	KUDGI-NARENDRA-I	400	SR	PGCIL	17.12.16	1250	STILL OUT HIGH VOLTAGE
5	KURNOOL-NPS-I	765	SR	PGCIL	15.11.16	1508	STILL OUT HIGH VOLTAGE
6	RAMAGUNDAM-HYDERABAD-4	400	SR	PGCIL	18.12.16	2159	STILL OUT HIGH VOLTAGE
7	MAHBOOBNAGAR-URAVAKONDA-I	400	SR	PGCIL	17.11.16	2029	STILL OUT HIGH VOLTAGE
8	KAYATHAR-KAMUDHI-1	400	SR	PGCIL	04.12.16	2240	STILL OUT HIGH VOLTAGE
9	SATTENPALLY-SRISAILAM-2	400	SR	PGCIL	05.11.16	1916	STILL OUT HIGH VOLTAGE
10	DHARMAPURI-NAGAPATNAM-I	400	SR	PGCIL	01.12.16	2147	STILL OUT HIGH VOLTAGE
11	VEMAGIRI-GVK-2	400	SR	PGCIL	01.12.16	1715	STILL OUT HIGH VOLTAGE
12	HYDERABAD-NSAGAR	400	SR	PGCIL	02.12.16	0901	STILL OUT HIGH VOLTAGE
13	VIAIYADA-VEMAGIRI-2	400	SR	PGCIL	16.12.16	2157	STILL OUT HIGH VOLTAGE
14	VTPS-MALKARAM-I	400	SR	PGCIL	15.12.16	2218	STILL OUT HIGH VOLTAGE
15	VIAIYADA-NELLORE-II	400	SR	PGCIL	07.12.16	0240	STILL OUT HIGH VOLTAGE
16	SRISAILAM-SRANKAPALLY	400	SR	PGCIL	11.11.16	0239	STILL OUT HIGH VOLTAGE
17	GUTTUR-NARENDRA-II	400	SR	PGCIL	11.12.16	1814	STILL OUT HIGH VOLTAGE
18	TRICHY-KARAKUDY	400	SR	PGCIL	12.12.16	0239	STILL OUT HIGH VOLTAGE
19	KURNOOL-THIRUVALLM-II	765	SR	PGCIL	12.12.16	2035	STILL OUT HIGH VOLTAGE
20	MYSORE-HASSANA-I	400	SR	PGCIL	13.12.16	0103	STILL OUT HIGH VOLTAGE
21	VIAIYADA-VEMAGIRI-III	400	SR	PGCIL	13.12.16	0100	STILL OUT HIGH VOLTAGE
<b>NER</b>							
1	BALIPARA-BONGAIGAN-IV	400	NER	PGCIL	13.12.16	1945	STILL OUT HIGH VOLTAGE
2	BNC-BANGANGA-I	400	NER	PGCIL	18.12.16	2029	STILL OUT HIGH VOLTAGE
3	BALIPARA-BONGAIGAN-I	400	NER	PGCIL	18.12.16	2206	STILL OUT HIGH VOLTAGE
4	BNC-AGRA POLE-I	HVDC	NER-NR	PGCIL	18.12.16	0011	STILL OUT HIGH VOLTAGE
<b>LINES UNDER</b>							
1	ATHENA-KOTRAPSI-I	400	WR	PGCIL	30.04.16	2202	STILL OUT Y-PH DEPT RELAY OPERATE AT ATHENA. PROVISION OF DEPT RELAY AT ATHENA AND SETTINGS ARE BEING CHECKED BY ATHENA DEPT OUT AFTER PTC
2	ATHENA-KOTRAPSI-II	400	WR	PGCIL	01.05.16	1146	STILL OUT FOR TESTING AND CHECKING WORKS. KEPT OUT AFTER PTC
3	MARIANI-MOKCHUNG-II	220	NER	PGCIL	12.07.16	0111	STILL OUT TOWER TILTED DUE TO LANDSLIDE
4	PATNA-KIRANGANSI-EC	400	ER	PGCIL	26.07.16	1200	STILL OUT TOWER CYC LARSED AT LOC NO. 51
5	BHARANAGAR-BIRUA-I & II	400	ER	PGCIL	23.02.16	0951	STILL OUT Y-S FAULT
6	BINAUP/NIPTI/BINA-I,SC	400	WR	PGCIL	21.10.16	1811	STILL OUT THE NIPTI TESTING IS COMPLETED SO THE LINE IS KEPT OPEN
7	Koteswar Pool(PG)-Koteswar(THDC)-1	400	NR	PGCIL	18.12.16	1920	STILL OUT B-PHASE LINE ISOLATOR PROBLEM AT MERUIT
8	Koteswar Pool(PG)-Koteswar(THDC)-2	400	NR	PGCIL	18.12.16	1920	STILL OUT B-PHASE LINE ISOLATOR PROBLEM AT MERUIT
9	Mesur-Koteswar Pool-2	400	NR	PGCIL	18.12.16	1920	STILL OUT B-PHASE LINE ISOLATOR PROBLEM AT MERUIT
10	Koteswar Pool(PG)-Tehr(THDC)-1	400	NR	PGCIL	18.12.16	1920	STILL OUT B-PHASE LINE ISOLATOR PROBLEM AT MERUIT
11	Koteswar Pool(PG)-Tehr(THDC)-2	400	NR	PGCIL	18.12.16	1920	STILL OUT B-PHASE LINE ISOLATOR PROBLEM AT MERUIT
12	KHANDWA-BHTEL-I	400	WR	PGCIL	26.11.16	1951	STILL OUT LINE RE-ITERATION WORK
13	KORBA-BIRNIMPUR	400	WR	PGCIL	18.12.16	1907	STILL OUT REACTOR WITH MAL OPERATION BECAUSE OF DC EARTH FAULT
14	ALAMATHI-VALLER-I	400	SR	PGCIL	15.12.16	1623	STILL OUT CVT OIL LEAKAGE
15	GUTTUR-NARENDRA-I	400	SR	PGCIL	17.12.16	1913	STILL OUT BUS BAR PROTECTION OPERATED
16	KARGA-NARENDRA-I	400	SR	PGCIL	18.11.16	1120	STILL OUT DTR RECEIVED AT NARENDRA END
<b>STATE SECTOR</b>							
1	MIEERAMUNDALI-MENDHASAL-SC	400	ER	OPTCL	23.05.16	1720	STILL OUT TOWER CYC LARSED NEAR TO MENDHASAL
2	WARIA-BIRNANAGAR-II	220	ER	WSECL	09.09.16	0946	STILL OUT TRIPPED ON N FAULT
3	SATNAP/PG-MAHARAMP/SC	220	WR	MSECL	26.10.16	1946	STILL OUT KEPT OPEN AT MAHAR END AS PER M/P REQUIREMENT
4	BAMNALI-JATHARA-I	400	NR	DTL	22.05.16	2029	STILL OUT PHASE TO EARTH FAULT TOWER DAMAGE
5	GUTTUR-BIRYUR-I	400	SR	PGCIL	17.12.16	1913	STILL OUT LA FLASHOVER
6	JAMALAMADUGU-KURNOOL-2	400	SR	PGCIL	23.11.16	0952	STILL OUT CONSTRUCTION WORK
7	AMRITSAR-MAKHU-I	400	NR	PSEB	16.12.16	2155	STILL OUT PHASE TO EARTH FAULT
<b>LINES UNDER</b>							
<b>CENTRAL SECTOR</b>							
1	KHANDWA-BHTEL-II	400	WR	PGCIL	27.09.16	1109	STILL OUT LINE RE-ITERATION WORKS
2	KHANDWA (PG)-INDORE (PG)-1	400	WR	PGCIL	18.11.16	1230	STILL OUT PAINTING WORK
3	KHANDWA (PG)-INDORE (PG)-II	400	WR	PGCIL	18.11.16	1230	STILL OUT PAINTING WORK
4	KURUKSHETRA-SONEPAT-I	400	NR	PGCIL	25.11.16	1234	STILL OUT ISOLATOR STUCK AT KURUKSHETRA END
5	RAPUR-DHARAMAYAGARH	765	WR	PGCIL	09.12.16	1129	STILL OUT L.I.O WORKS
6	DURG-CHAMPA-I	765	WR	PGCIL	16.12.16	1728	STILL OUT DESTRIKING WORKS
7	BONGAIGAN-BHINAGIRI-IV	400	NER	PGCIL	16.12.16	0926	STILL OUT SD ANHLED BY PGCIL
8	BONGAIGAN-BHINAGIRI-III	400	NER	PGCIL	16.12.16	0926	STILL OUT SD ANHLED BY PGCIL
9	RAPUR-DHARAMAYAGARH	765	WR	PGCIL	09.12.16	1129	STILL OUT L.I.O WORKS
10	MERUIT-KOTESHWAR POOL-1	400	NR	PGCIL	18.12.16	1259	STILL OUT FOR ISOLATOR MODIFICATION OF MERUIT LINE WITH BUS 2 AT KOTESHWAR
<b>STATE SECTOR</b>							
1	KHAMMAM-KPS-I	400	SR	APTRANSCO	23.11.16	0810	STILL OUT CONSTRUCTION WORK
2	LONKHAND-KOTNA-V-I	400	WR	MSECL	19.11.16	0714	STILL OUT CONSTRUCTION WORK
3	DHRI-KAPRA-I	400	NR	PSEB	08.12.16	0228	STILL OUT TRIPPED DUE TO E.G.C.
4	MIRAM-NEELI-BHINAGAR-I	220	ER	OPTCL	25.11.16	0951	STILL OUT INSUR CONTROLLER
5	BALLABHARH-BAMNALI-I	400	NR	DTL	17.12.16	0156	STILL OUT OPEN
6	KCPA-KARAKHANGUD-2	400	NR	JEDYERO	17.12.16	0156	STILL OUT OPEN
7	BARDILI-YUNDA-I	400	NR	UPPTCL	18.12.16	1019	STILL OUT FOR YUNDA (L.I.O) LINE TRIPPED DUE TO INSUR CONTROLLER MALFUNCTION AT K. WANDE (PG) POLYMER INSULATOR REPLACEMENT
<b>CENTRAL SECTOR</b>							
1	SARNAI-VARANASI-I	400	NR	PGCIL	06.12.16	1034	STILL OUT TDC CONTROL LINE LOADING
<b>STATE SECTOR</b>							
1	U-SLEPH-BALDELA	220	ER-SR	OPTCL	27.04.15	1141	STILL OUT SLE CHARGED
2	KURANAGAR-THIRABHISHWAR-I	400	WR	MSECL	10.10.16	1015	STILL OUT TDC CONTROL LINE LOADING ON THIRABHISHWAR PDS

## 1). All India Power System Scenario - Comparison with the same week of previous year

Date of Reporting: 19.12.16

### Northern Region

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	42025	39284	7.0
Peak Shortage	1139	1798	-36.7
Energy Met	846	821	3.0
Hydro	98	127	-22.8
Wind	8	6	34.9

### Eastern Region

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	16086	16407	-2.0
Peak Shortage	355	274	29.6
Energy Met	300	329	-8.7
Hydro	22	17	28.6
Wind	-	-	-

### Western Region

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	44414	42477	4.6
Peak Shortage	44	245	-82.2
Energy Met	1008	984	2.5
Hydro	46	27	71.7
Wind	27	26	3.1

### North-Eastern Region

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	2222	2232	-0.4
Peak Shortage	37	70	-47.0
Energy Met	37	36	3.2
Hydro	10	8	33.8
Wind	-	-	-

### Southern Region

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	32816	31687	3.6
Peak Shortage	7	944	-99.2
Energy Met	743	729	2.0
Hydro	23	44	-47.4
Wind	31	8	305.5

### All India Summary

	12.12.16 TO 18.12.16	12.12.15 TO 18.12.15	% Increase
Peak Demand	137563	132086	4.1
Peak Shortage	1582	3331	-52.5
Energy Met	2935	2899	1.2
Hydro	200	224	-10.5
Wind	66	40	65.2
Gen Outage	67212	56048	19.9

### All India Frequency Profile

Date	<49.7		49.7-49.8		AVE. Freq.	FVI
	18.12.16	18.12.15	18.12.16	18.12.15	18.12.16	18.12.16
NEW GRID	0.0	0.0	0.0	1.1	50.00	0.045
SR GRID	0.0	0.0	0.0	1.1	50.00	0.045

Date	49.8-49.9		<49.9		49.9-50.05		>50.05	
	18.12.16	18.12.15	18.12.16	18.12.15	18.12.16	18.12.15	18.12.16	18.12.15
NEW GRID	7.05	10.47	7.07	11.6	72.58	66.75	20.35	21.67
SR GRID	7.05	10.47	7.07	11.6	72.58	66.75	20.35	21.67

## 2). Market Data (Power Exchange)

For Date: 19.12.16

### Volume

Exchange	Provisional (MUs)	Final (MUs)
PXI	0.83	0.83
IEX	109.47	109.28
<b>Total</b>	<b>110.30</b>	<b>110.11</b>

### Congestion

Link	Time Block
ER-SR	29-32,65-67,74-75
SR DRAWAL	29-32,65-67,74-75
WR-SR	01-96
S2 DRAWAL	NIL
NR DRAWAL	NIL



## ( C ). GENERATION LOSS DUE TO LESS REQUISITION /HIGH COST

Date of Reporting: 19.12.2016

	Station Name	Fuel Type	Installed Capacity (MW)	UNITS		Average Declared Capacity	Average Schedule	Less Requisition
				S/D	Fuel Shortage			
NR	ANTA	GAS	419			0	0	0
		RLNG				0	0	0
		LF				412	0	412
		<b>Total</b>				412	0	412
	AURAIYA	GAS	663			0	0	0
		RLNG				0	0	0
		LF				625	0	625
		<b>Total</b>				625	0	625
	DADRI	GAS	830			366	276	90
		RLNG				0	0	0
		LF				406	0	405
		<b>Total</b>				771	276	495
	<b>NR TOTAL</b>	<b>1912</b>			<b>1808</b>	<b>276</b>	<b>1532</b>	
WR	KAWAS	GAS	656			272	221	51
		NAPM				164	51	113
		LF				0	0	0
		RLNG				214	1	213
		<b>Total</b>		0	0	<b>650</b>	<b>273</b>	377
	GANDHAR	GAS	657			285	273	12
		NAPM				75	59	16
		RLNG				249	1	248
		<b>Total</b>		0	0	<b>609</b>	<b>333</b>	277
	RGPPL	GAS	1967			90	35	56
		RLNG				0	0	0
		RLNG-EBID				510	451	59
		<b>Total</b>		0	0	600	486	114
		<b>WR TOTAL</b>	<b>3280</b>	0	0	<b>1859</b>	<b>1091</b>	768

Note:-

Report of loss of generation in respect of ISGS stations of WR and NR due to less requisition/high cost.



# पॉवर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

## उत्तरी क्षेत्रीय भार प्रेषण केंद्र

CIN: U40105DL2009GOI188682

Power Supply Position in Northern Region for 18.12.2016

Date of Reporting : 19.12.2016



### I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
39550	526	40076	50.05	29182	360	29543	50.06	831.93	11.70

\* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

### II. A. State's Load Details (At States periphery) in MUs:

UI [OD:(+ve), UD: (-ve)]

State	State's Control Area Generation (Net MU)				Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Renewable/others \$	Total					
Punjab	56.29	7.98	0.39	64.65	36.68	36.07	-0.61	100.73	0.00
Haryana	41.96	0.40	0.00	42.36	71.38	70.66	-0.72	113.01	0.00
Rajasthan	116.74	4.88	6.83	128.46	69.72	72.36	2.64	200.82	0.60
Delhi	11.59		0.00	11.59	41.96	43.90	1.93	55.48	0.00
UP	182.82	6.57	0.00	189.40	79.54	77.90	-1.65	267.29	1.79
Uttarakhand		8.29	0.00	14.84	15.94	15.83	-0.11	30.67	0.00
HP		2.38	1.39	3.77	20.53	20.09	-0.44	23.86	0.05
J & K		3.18	0.00	3.18	38.56	33.85	-4.71	37.03	9.26
Chandigarh				0.00	3.22	3.04	-0.19	3.04	0.00
<b>Total</b>	<b>409.40</b>	<b>33.67</b>	<b>8.61</b>	<b>458.23</b>	<b>377.53</b>	<b>373.69</b>	<b>-3.84</b>	<b>831.93</b>	<b>11.70</b>

\* Shortage furnished by the respective constituent's Others include UP Co-generation and JK Diesel

### II. B. State's Demand Met in MWs:

UI/OA/PX [OD/Import: (+ve), UD/Export: (-ve)]

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Maximum Demand Met (MW) and Time(hrs)	Shortage (MW)	
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction			
Punjab	5040	0	59	-698	3041	0	-144	-614	5339	8:00	0
Haryana	5789	0	-159	-395	3493	0	175	-639	5789	19:00	0
Rajasthan	9122	0	269	211	7713	0	173	236	9122	19:00	0
Delhi	2790	0	48	-338	1343	0	-4	-521	3309	11:00	0
UP	12248	110	-199	-233	10227	0	-98	125	12619	7:00	0
Uttarakhand	1574	0	-22	183	1085	0	-28	195	1690	8:00	0
HP	1171	0	-43	387	756	0	-23	572	1375	9:00	0
J&K	1662	416	-325	906	1441	360	-131	852	1700	20:00	425
Chandigarh	154	0	-53	0	84	0	-4	0	177	9:00	0
<b>Total</b>	<b>39550</b>	<b>526</b>	<b>-426</b>	<b>23</b>	<b>29182</b>	<b>360</b>	<b>-85</b>	<b>206</b>	<b>39550</b>	<b>19:00</b>	<b>526</b>

\* STOA figures are at sellers boundary & PX figures are at regional boundary. # figures may not be at simultaneous hour.

Diversity is 1.04

UI [OD:(+ve), UG: (-ve)]

### III. Regional Entities :

Station/ Constituent	Inst. Capacity (Effective) MW	Declared Capacity(MW)	Peak MW	Off Peak MW	Energy	Average	Schedule	UI
			(Gross)	(Gross)	(Net MU)	Sentout(MW)	Net MU	Net MU
<b>A. NTPC</b>								
Singrauli STPS (5*200+2*500)	2000	1859	2025	1507	42.84	1785	42.47	0.37
Rihand I STPS (2*500)	1000	618	773	339	13.88	579	13.20	0.68
Rihand II STPS (2*500)	1000	951	946	769	20.98	874	20.73	0.25
Rihand III STPS (2*500)	1000	951	949	743	20.78	866	20.70	0.08
Dadri I STPS (4*210)	840	815	163	157	3.62	151	3.63	-0.01
Dadri II STPS (2*490)	980	980	688	750	16.94	706	17.48	-0.54
Unchahar I TPS (2*210)	420	361	270	279	6.47	270	6.68	-0.20
Unchahar II TPS (2*210)	420	405	279	301	6.82	284	7.31	-0.49
Unchahar III TPS (1*210)	210	203	137	138	3.37	140	3.70	-0.34
ISTPP (Jhajihar) (3*500)	1500	1183	598	318	10.83	451	10.99	-0.16
Dadri GPS (4*130.19+2*154.51)	830	771	246	234	6.16	257	6.63	-0.47
Anta GPS (3*88.71+1*153.2)	419	412	0	0	0.00	0	0.00	0.00
Auraiya GPS (4*111.19+2*109.30)	663	625	0	0	0.00	0	0.00	0.00
Dadri Solar(5)	5	1	0	0	0.00	0	0.02	-0.02
Unchahar Solar(10)	10	2	0	0	0.00	0	0.04	-0.04
Singrauli Solar(15)	15	2	0	0	0.00	0	0.06	-0.06
KHEP(4*200)	800	870	868	440	2.74	114	2.61	0.13
<b>Sub Total (A)</b>	<b>12112</b>	<b>11007</b>	<b>7942</b>	<b>5975</b>	<b>155</b>	<b>6476</b>	<b>156</b>	<b>-0.82</b>
<b>B. NPC</b>								
NAPS (2*220)	440	417	453	463	10.06	419	10.01	0.05
RAPS- B (2*220)	440	384	431	429	9.27	386	9.22	0.05
RAPS- C (2*220)	440	218	240	241	5.08	212	5.23	-0.16
<b>Sub Total (B)</b>	<b>1320</b>	<b>1019</b>	<b>1124</b>	<b>1133</b>	<b>24.41</b>	<b>1017</b>	<b>24.46</b>	<b>-0.05</b>
<b>C. NHPC</b>								
Chamera I HPS (3*180)	540	360	232	0	1.37	57	1.20	0.17
Chamera II HPS (3*100)	300	201	209	0	1.22	51	1.10	0.12
Chamera III HPS (3*77)	231	185	105	0	0.58	24	0.56	0.02
Bairasuli HPS(3*60)	180	179	121	0	0.45	19	0.45	0.00
Salal-HPS (6*115)	690	90	316	35	2.49	104	2.16	0.33
Tanakpur-HPS (3*31.4)	94	24	32	32	0.72	30	0.57	0.16
Uri-I HPS (4*120)	480	73	230	24	1.87	78	1.75	0.12
Uri-II HPS (4*60)	240	55	121	81	1.35	56	1.32	0.03
Dhauliganga-HPS (4*70)	280	210	213	0	0.97	40	0.91	0.06
Dulhasti-HPS (3*130)	390	257	261	0	2.94	122	2.80	0.14
Sewa-II HPS (3*40)	120	80	52	0	0.17	7	0.25	-0.08
Parbati 3 (4*130)	520	107	129	0	0.23	10	0.24	-0.01
<b>Sub Total (C)</b>	<b>4065</b>	<b>1820</b>	<b>2021</b>	<b>171</b>	<b>14</b>	<b>598</b>	<b>13</b>	<b>1.06</b>
<b>D.SJVNL</b>								
NJPC (6*250)	1500	1615	1611	0	6.69	279	6.59	0.10
Rampur HEP (6*68.67)	412	442	448	0	1.85	77	1.83	0.02
<b>Sub Total (D)</b>	<b>1912</b>	<b>2057</b>	<b>2059</b>	<b>0</b>	<b>8.54</b>	<b>356</b>	<b>8.42</b>	<b>0.11</b>
<b>E. THDC</b>								
Tehri HPS (4*250)	1000	1060	780	0	6.53	272	6.30	0.22
Koteshwar HPS (4*100)	400	100	99	91	1.90	79	1.89	0.01
<b>Sub Total (E)</b>	<b>1400</b>	<b>1160</b>	<b>879</b>	<b>91</b>	<b>8.42</b>	<b>351</b>	<b>8.19</b>	<b>0.23</b>
<b>F. BBMB</b>								
Bhakra HPS (2*108+3*126+5*157)	1379	627	1013	386	15.14	631	15.05	0.10
Dehar HPS (6*165)	990	125	495	0	3.09	129	3.00	0.10
Pong HPS (6*66)	396	220	396	132	5.21	217	5.28	-0.07
<b>Sub Total (F)</b>	<b>2765</b>	<b>972</b>	<b>1904</b>	<b>518</b>	<b>23.45</b>	<b>977</b>	<b>23.32</b>	<b>0.12</b>
<b>G. IPP(s)/JV(s)</b>								
ALLAIN DUHANGAN HPS(IPP) (2*96)	192	0	92	0	0.45	19	0.43	0.02
KARCHAM WANGTOO HPS(IPP) (4*250)	1000	0	630	0	3.42	142	3.56	-0.14
Malana Stg-II HPS (2*50)	100	0	0	0	0.00	0	0.00	0.00
Shree Cement TPS (2*150)	300	0	0	0	0.00	0	0.00	0.00
Budhil HPS(IPP) (2*35)	70	0	0	0	0.18	8	0.19	-0.01
<b>Sub Total (G)</b>	<b>1662</b>	<b>0</b>	<b>722</b>	<b>0</b>	<b>4.05</b>	<b>169</b>	<b>4.18</b>	<b>-0.13</b>
<b>H. Total Regional Entities (A-G)</b>	<b>25237</b>	<b>18035</b>	<b>16651</b>	<b>7889</b>	<b>238.65</b>	<b>9944</b>	<b>238.12</b>	<b>0.53</b>

I. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout at MW)
Punjab	Guru Gobind Singh TPS (Ropar) (6*210)	1260	370	560	11.93	497
	Guru Nanak Dev TPS(Bhatinda) (2*110+2*120)	460	0	0	0.00	0
	Guru Hargobind Singh TPS(L.mbt) (2*210+2*250)	920	570	571	12.90	538
	Goidwal(GVK) (2*270)	540	0	0	0.00	0

	Rajpura (2*700)	1400	610	330	12.23	510
	Talwandi Saboo (3*660)	1980	616	616	19.23	801
	<b>Thermal (Total)</b>	<b>6560</b>	<b>2166</b>	<b>2077</b>	<b>56.29</b>	<b>2345</b>
	Total Hydro	1000	378	260	7.98	332
	Wind Power	0	0	0	0.00	0
	Biomass	288	0	0	0.33	14
	Solar	560	0	0	0.06	2
	<b>Renewable(Total)</b>	<b>848</b>	<b>0</b>	<b>0</b>	<b>0.39</b>	<b>16</b>
	<b>Total Punjab</b>	<b>8408</b>	<b>2544</b>	<b>2337</b>	<b>64.65</b>	<b>2694</b>
Haryana	Panipat TPS (2*210+2*250)	920	414	407	9.92	413
	DCRTPP (Yamuna nagar) (2*300)	600	477	476	11.24	468
	Faridabad GPS (NTPC)(2*137.75+1*156)	432	0	0	0.00	0
	RGTPP (Khedar) (IPP) (2*600)	1200	0	0	0.00	0
	Magnum Diesel (IPP)	25	0	0	0.00	0
	Jhajjar (CLP) (2*660)	1320	935	739	20.79	866
	<b>Thermal (Total)</b>	<b>4497</b>	<b>1826</b>	<b>1622</b>	<b>41.96</b>	<b>1748</b>
	Total Hydro	62	7	9	0.40	17
	Wind Power	0	0	0	0.00	0
	Biomass	40	0	0	0.00	0
	Solar	0	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>40</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
	<b>Total Haryana</b>	<b>4599</b>	<b>1833</b>	<b>1631</b>	<b>42.36</b>	<b>1765</b>
Rajasthan	kota TPS (2*110+2*195+3*210)	1240	1069	1027	26.02	1084
	suratgarh TPS (6*250)	1500	779	776	17.56	732
	Chabra TPS (4*250)	1000	619	643	16.28	678
	Dholpur GPS (3*110)	330	0	0	0.00	0
	Ramgarh GPS(1*37.5 + 1*35.5 +2*37.5 +1*110 +1*50)	271	169	166	4.22	176
	RAPS A (NPC) (1*100+1*200)	300	169	168	4.19	175
	Barsingar (NLC) (2*125)	250	112	113	2.61	109
	Giral LTPS (2*125)	250	0	0	0.00	0
	Rajwest LTPS (IPP) (8*135)	1080	827	819	19.38	808
	VS LIGNITE LTPS (IPP) (1*135)	135	0	0	0.00	0
	Kalisindh Thermal(2*600)	1200	1100	1000	26.49	1104
	Kawai(Adani) (2*660)	1320	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>8876</b>	<b>4844</b>	<b>4712</b>	<b>116.74</b>	<b>4864</b>
	Total Hydro	550	214	174	4.88	203
	Wind power	4017	156	256	3.84	160
	Biomass	99	6	6	0.15	6
	Solar	1295	0	0	2.84	118
	Renewable/Others (Total)	5411	162	262	6.83	285
	<b>Total Rajasthan</b>	<b>14837</b>	<b>5220</b>	<b>5148</b>	<b>128.46</b>	<b>5352</b>
UP	Anpara TPS (3*210+2*500)	1630	1205	930	27.67	1153
	Obra TPS (2*50+2*94+5*200)	1194	422	419	10.70	446
	Paricha TPS (2*110+2*220+2*250)	1160	587	576	13.90	579
	Panki TPS (2*105)	210	0	0	0.00	0
	Harduaganj TPS (1*60+1*105+2*250)	665	406	411	9.80	408
	Tanda TPS (NTPC) (4*110)	440	273	275	6.77	282
	Roza TPS (IPP) (4*300)	1200	756	756	17.93	747
	Anpara-C (IPP) (2*600)	1200	857	612	20.98	874
	Bajaj Energy Pvt.Ltd(IPP) TPS (10*45)	450	58	58	1.31	55
	Anpara-D(2*500)	1000	837	731	19.94	831
	Lalitpur TPS(3*660)	1980	602	602	14.36	599
	Bara(2*660)	1320	874	721	20.26	844
	<b>Thermal (Total)</b>	<b>12449</b>	<b>6877</b>	<b>6091</b>	<b>163.62</b>	<b>6818</b>
	Vishnuparyag HPS (IPP)(4*110)	440	93	93	2.16	90
	Alakanada(4*82.5)	330	76	0	1.24	52
	Other Hydro	527	81	131	3.17	132
	Cogeneration	981	800	800	19.20	800
	Wind Power	0	0	0	0.00	0
	Biomass	26	0	0	0.00	0
	Solar	102	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>128</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total UP</b>	<b>14855</b>	<b>7927</b>	<b>7115</b>	<b>189.40</b>	<b>7891</b>	
Uttarakhand	Other Hydro	1250	562	257	8.29	345
	Total Gas	225	270	275	6.50	271
	Wind Power	0	0	0	0.00	0
	Biomass	127	0	0	0.00	0
	Solar	20	0	0	0.05	2
	Small Hydro (< 25 MW)	180	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>327</b>	<b>0</b>	<b>0</b>	<b>0.05</b>	<b>2</b>
<b>Total Uttarakhand</b>	<b>1802</b>	<b>832</b>	<b>532</b>	<b>14.84</b>	<b>618</b>	
Delhi	Rajghat TPS (2*67.5)	135	0	0	-0.01	0
	Delhi Gas Turbine (6x30 + 3x34)	282	80	78	1.95	81
	Pragati Gas Turbine (2x104+ 1x122)	330	148	148	3.62	151
	Rithala GPS (3*36)	95	0	0	0.00	0
	Bawana GPS (4*216+2*253)	1370	249	280	6.02	251
	Badarpur TPS (NTPC) (3*95+2*210)	705	0	0	0.00	0
	<b>Thermal (Total)</b>	<b>2917</b>	<b>477</b>	<b>506</b>	<b>11.59</b>	<b>483</b>
	Wind Power	0	0	0	0.00	0
	Biomass	16	0	0	0.00	0
	Solar	2	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>18</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
	<b>Total Delhi</b>	<b>2935</b>	<b>477</b>	<b>506</b>	<b>11.59</b>	<b>483</b>
	HP	Baspa HPS (IPP) (3*100)	300	30	0	1.08
Malana HPS (IPP) (2*43)		86	44	0	0.25	11
Other Hydro		372	43	8	1.04	43
Wind Power		0	0	0	0.00	0
Biomass		0	0	0	0.00	0
Solar		0	0	0	0.00	0
Small Hydro (< 25 MW)		486	70	52	1.39	58
<b>Renewable(Total)</b>		<b>486</b>	<b>70</b>	<b>52</b>	<b>1.39</b>	<b>58</b>
<b>Total HP</b>		<b>1244</b>	<b>187</b>	<b>60</b>	<b>3.77</b>	<b>157</b>
J & K		Baqilhar HPS (IPP) (3*150+3*150)	900	101	88	2.18
	Other Hydro/IPP(including 98 MW Small Hydro)	308	86	20	1.00	42
	Gas/Diesel/Others	190	0	0	0.00	0
	Wind Power	0	0	0	0.00	0
	Biomass	0	0	0	0.00	0
	Solar	0	0	0	0.00	0
	Small Hydro (< 25 MW)Included in Other Hydro Above	98	0	0	0.00	0
	<b>Renewable(Total)</b>	<b>98</b>	<b>0</b>	<b>0</b>	<b>0.00</b>	<b>0</b>
<b>Total J &amp; K</b>	<b>1398</b>	<b>187</b>	<b>108</b>	<b>3</b>	<b>132</b>	

Total State Control Area Generation	50078	19207	17437	458.23	19093
J. Net Inter Regional Exchange [Import (+ve)/Export (-ve)]		5781.38	6239.2	170.15	7090
Total Regional Availability(Gross)	75315	41640	31565	867.03	36126

**IV. Total Hydro Generation:**

Regional Entities Hydro	12234	8453	1221	61.37	2557
State Control Area Hydro	7163	2055	1367	35.07	1734
Total Regional Hydro	19397	10508	2588	96.44	4291

**V. Total Renewable Generation:**

Regional Entities Renewable	30	0	0	0.00	0
State Control Area Renewable	7356	232	314	8.66	361
Total Regional Renewable	7386	232	314	8.66	361

**VI(A). Inter Regional Exchange [Import (+ve)/Export (-ve)] [Linkwise]**

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
Vindhychal(HVDC B/B)	-500	-500	0	500	0.00	11.64	-11.64
765 KV Gwalior-Agra (D/C)	1547	1722	2350	0	48.93	0.00	48.93
400 KV Zerda-Kankroli	-35	-161	34	171	0.00	1.65	-1.65
400 KV Zerda-Bhimnal	9	-77	141	83	0.85	0.00	0.85
220 KV Auraiya-Malanpur	-105	-88	0	130	0.00	2.26	-2.26
220 KV Badod-Kota/Morak	-59	-98	16	86	0.00	1.52	-1.52
Mundra-Mohinderghar(HVDC Bipole)	1701	1802	1805	0.00	39.86	0.00	39.86
400 KV RAPPCC-Sujalpur	300	157	380	0	7.00	0.00	7.00
400 KV Vindhychal-Rihand	0	0	0	0	0.00	0.00	0.00
765 kV Phagi-Gwalior (D/C)	1105	1123	1659	0	32.68	0.00	32.68
<b>Sub Total WR</b>	<b>3963</b>	<b>3880</b>			<b>129.31</b>	<b>17.07</b>	<b>112.24</b>
400 kV Sasaram - Varanasi	268	242	268	0	6.17	0.00	6.17
400 kV Sasaram - Allahabad	67	99	105	0	2.12	0.00	2.12
400 KV MZP- GKP (D/C)	176	377	537	0	8.87	0.00	8.87
400 KV Patna-Balia(D/C) X 2	631	737	920	0	15.31	0.00	15.31
400 KV B'Sharif-Balia (D/C)	39	169	303	0	4.59	0.00	4.59
765 KV Gaya-Balia	141	246	349	0	6.11	0.00	6.11
765 KV Gaya-Varanasi (D/C)	321	524	797	0	13.83	0.00	13.83
220 KV Pusaali-Sahupuri	165	119	165	0	2.95	0.00	2.95
132 KV K'nasa-Sahupuri	-32	-26	0	32	0.00	0.51	-0.51
132 KV Son Ngr-Rihand	-32	-33	0	40	0.00	0.88	-0.88
132 KV Garhwa-Rihand	0	0	0	0	0.00	0.00	0.00
765 KV Sasaram - Fatehpur	73	-7	78	167	0.00	1.81	-1.81
400 KV Barh -GKP (D/C)	472	508	552	0	10.97	0.00	10.97
400 kV B'Sharif - Varanasi (D/C)	35	-96	206	35	2.33	0.00	2.33
<b>Sub Total ER</b>	<b>2324</b>	<b>2859</b>			<b>73.23</b>	<b>3.20</b>	<b>70.02</b>
+/- 800 KV BiswanathChariali-Agra	-506	-500	0	506.00	0.00	12.12	-12.12
<b>Sub Total NER</b>	<b>-506</b>	<b>-500</b>			<b>0.00</b>	<b>12.12</b>	<b>-12.12</b>
<b>Total IR Exch</b>	<b>5781</b>	<b>6239</b>			<b>202.54</b>	<b>32.39</b>	<b>170.15</b>

**VI(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]**

ISGS/LT Schedule (MU)			Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Bhutan	Total	Through ER	Through WR	Through ER	Through WR	Through ER	Through WR
41.35	0.76	42.10	1.91	-9.31	1.47	14.51	0.00	0.00

Total IR Schedule (MU)			Total IR Actual (MU)			Net IR UI (MU)		
Through ER	Through WR Inclds Mndra	Total	Through ER(including NER)	Through WR	Total	Through ER (including NER)	Through WR	Total
45.48	127.40	172.88	57.90	112.24	170.15	12.42	-15.16	-2.73

**VI(C). Inter National Exchange with Nepal [Import (+ve)/Export (-ve)] [Linkwise]**

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy MU
			Import	Export	Import	Export	
132 KV Tanakpur - Mahendarnagar	-33	-26	0	33	0	1	-0.56

**VII. Frequency Profile** ----- % of Time Frequency ----->

<49.2	<49.7	<49.8	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50
0.00	0.00	0.02	7.07	54.89	72.58	13.80	6.31	0.29	0.00

----- Frequency (Hz) ----->				Average Frequency	Frequency Variation	Std. Dev.	Frequency in 15 Min Block		Freq Dev Index (%) of Time
Maximum		Minimum					MAX	MIN	
Freq	Time	Freq	Time	Hz	Index	(Hz)	(Hz)		
50.25	17.02	49.79	7.19	50.00	0.045	50.13	49.87	27.42	

**VIII(A). Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV	
Rihand	400	405	0:00	399	15:51	0.0	0.0	0.0	0.0	0.0
Gorakhpur	400	417	2:23	401	18:23	0.0	0.0	0.0	0.0	0.0
Bareilly(PG)400kV	400	420	1:43	399	12:41	0.0	0.0	0.0	0.0	0.0
Kanpur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Dadri	400	426	0:34	404	11:14	0.0	0.0	24.1	0.0	24.1
Ballabgarh	400	432	2:03	406	11:17	0.0	0.0	40.7	4.2	40.7
Bawana	400	429	2:03	406	11:15	0.0	0.0	34.5	0.0	34.5
Bassi	400	425	20:49	397	10:09	0.0	0.0	8.8	0.0	8.8
Hissar	400	422	20:50	397	11:17	0.0	0.0	1.0	0.0	1.0
Moga	400	423	20:48	400	11:17	0.0	0.0	2.3	0.0	2.3
Abdullapur	400	427	20:49	406	11:19	0.0	0.0	28.4	0.0	28.4
Nalagarh	400	428	20:52	411	10:28	0.0	0.0	41.0	0.0	41.0
Kishenpur	400	423	18:39	396	11:07	0.0	0.0	0.6	0.0	0.6
Wagoora	400	421	18:39	363	11:11	28.8	84.8	0.1	0.0	28.9
Amritsar	400	428	22:03	401	10:11	0.0	0.0	36.5	0.0	36.5
Kashipur	400	0	0:00	0	0:00	0.0	0.0	0.0	0.0	0.0
Hamirpur	400	420	20:42	401	11:29	0.0	0.0	0.0	0.0	0.0
Rishikesh	400	420	1:42	397	10:21	0.0	0.0	0.0	0.0	0.0

**VIII(B). Voltage profile 765 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)				Volta ge Deviat
		Voltage(KV)	Time	Voltage (KV)	Time	<728 kV	<742 kV	>800 kV	>820 kV	
Fatehpur	765	777	0:31	739	11:25	0.0	1.8	0.0	0.0	0.0
Balia	765	764	0:00	764	0:00	0.0	0.0	0.0	0.0	0.0
Moga	765	806	20:50	762	11:15	0.0	0.0	1.8	0.0	1.8

Agra	765	790	20:50	751	11:37	0.0	0.0	0.0	0.0	0.0
Bhiwani	765	808	2:02	769	10:08	0.0	0.0	23.5	0.0	23.5
Unnao	765	779	2:01	731	10:50	0.0	27.7	0.0	0.0	0.0
Lucknow	765	791	1:46	756	10:47	0.0	0.0	0.0	0.0	0.0
Meerut	765	812	20:50	760	11:15	0.0	0.0	3.1	0.0	3.1
Jhatikara	765	807	2:02	763	11:19	0.0	0.0	20.7	0.0	20.7
Bareilly 765 kV	765	791	2:02	752	10:48	0.0	0.0	0.0	0.0	0.0
Anta	765	797	4:00	769	10:10	0.0	0.0	0.0	0.0	0.0
Phagi	765	802	3:02	764	10:13	0.0	0.0	5.9	0.0	5.9

Note: '0' in Max / Min Col -> Telemetry Outage

**IX. Reservoir Parameters:**

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m <sup>3</sup> /s)	Usage (m <sup>3</sup> /s)
Bhakra	513.59	445.62	491.16	768.41	503.50	1245.57	149.80	464.40
Pong	426.72	384.05	409.71	484.26	413.11	600.05	55.44	346.00
Tehri	829.79	740.04	812.80	862.27	807.45	753.52	39.53	149.00
Koteshwar	612.50	598.50	610.92	5.00	610.70	4.95	149.00	125.36
Chamera-I	760.00	748.75	759.80	0.00	0.00	0.00	40.26	36.74
Rihand	268.22	252.98	0.00	0.00	0.00	0.00	0.00	0.00
RPS	352.80	343.81	0.00	0.00	0.00	0.00	0.00	0.00
Jawahar Sagar	298.70	295.78	0.00	0.00	0.00	0.00	0.00	0.00
RSD	527.91	487.91	506.82	2.13	501.84	4.80	43.29	104.98

\* NA: Not Available

**X(A). Short-Term Open Access Details:**

State	Off- Peak Hours (03:00 Hrs)			Peak Hours (19:00 Hrs)			Day Energy (MU)		
	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MW)	IEX (MW)	PXIL (MW)	Bilateral (MU)	IEX / PXIL (MU)	Total (MU)
Punjab	-617	3	0	-698	0	0	-18.10	0.03	-18.07
Delhi	-181	-340	0	-270	-68	0	-5.52	-1.44	-6.96
Haryana	-940	302	0	-612	217	0	-16.93	6.16	-10.77
HP	502	69	0	410	-23	0	12.83	-1.44	11.38
J&K	617	235	0	611	294	0	14.60	4.29	18.89
CHD	0	0	0	0	0	0	0.00	0.00	0.00
Rajasthan	-7	243	0	-7	218	0	4.37	11.02	15.39
UP	125	0	0	-133	-100	0	-7.54	-0.76	-8.31
Uttarakhand	242	-47	0	242	-59	0	5.97	-0.57	5.40
Total	-258	465	0	-457	480	0	-10.31	17.28	6.97

**X(B). Short-Term Open Access Details:**

State	Bilateral (MW)		IEX (MW)		PXIL (MW)	
	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum
Punjab	-596	-983	7	0	0	0
Delhi	-101	-360	295	-340	0	0
Haryana	-539	-947	314	213	0	0
HP	671	386	69	-728	0	0
J&K	617	598	294	-82	0	0
CHD	0	0	0	0	0	0
Rajasthan	448	-7	962	218	0	0
UP	146	-895	0	-100	0	0
Uttarakhand	274	242	129	-222	0	0

**XI. System Reliability Indices(Violation of TTC and ATC):**

(i)%age of times N-1 Criteria was violated in the inter - regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(ii)%age of times ATC violated on the inter-regional corridors

WR	0.00%
ER	0.00%
Simultaneous	0.00%

(iii)%age of times Angular Difference on Important Buses was beyond permissible limits(40 deg.)

Rihand - Dadri	0.00%
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**XII. Zero Crossing Violations**

State	No. of violations(Maximum 8 in a day)	Maximum number of continuous blocks without sign change
Punjab	3	20
Haryana	1	15
Rajasthan	3	30
Delhi	4	39
UP	0	12
Uttarakhand	2	23
HP	5	30
J & K	3	27
Chandigarh	2	22

**XIII. System Constraints:**

**XIV. Grid Disturbance / Any Other Significant Event:**

**XV. Weather Conditions For 18.12.2016 :**  
Dense Fog in some parts of NR.

XVI. Synchronisation of new generating units :

XVII. Synchronisation of new 220 / 400 / 765 KV lines and energising of bus / /substation :

0  
0.00  
0

0

XVIII. Tripping of lines in pooling stations :

XIX. Complete generation loss in a generating station :

Note: Data(regarding drawal,generation, shortage , inter-regional flows and reservoir levels)of the constituents filled in the report are as per last furnished data by the respective state/constituent to NRLDC.

Report for : 18.12.2016

पारी प्रभारी अभियंता / SHIFT CHARGE ENGINEER



1. पश्चिम क्षेत्र में ऊर्जा उपलब्धता एवं मांग (Regional Availability / Requirement of Western Region)

सामं 20:00 बजे / 20:00 hrs			रात्री 03:00 बजे / 03:00 hrs			दैनिक ऊर्जा / Day Energy		अंतर-क्षेत्रीय आयात-निर्गत / Inter-regional Exchange		
उपलब्धता / Demand Met (MW)	अभाव / Shortage (MW)	मांग / Requirement (MW)	उपलब्धता / Demand Met (MW)	अभाव / Shortage (MW)	मांग / Requirement (MW)	उपलब्धता / Demand Met (MU)	अभाव / Shortage (MU)	सूच्य / Schedule (MU)	वास्तविक / Actual (MU)	विवरण / Deviation (MU)
41772	11	41783	35908	0	35908	990	0	-155.6	-164.1	-8.5

2. फ्रिक्वेंसी प्रोफाइल / Frequency Profile

तत्कालिक / Instantaneous			फ्रिक्वेंसी फ्लक्चुएशन सूचकांक / Frequency Variation Index	प्रतिघात समय फ्रिक्वेंसी / % of time frequency						
अधिकतम / Maximum (Hz) / Time	न्यूनतम / Minimum (Hz) / Time	औसत / Average (Hz)		f < 49.2 Hz	f < 49.7 Hz	f < 49.9 Hz	f < 50.0 Hz	49.9 < f < 50.05	f > 50.05 Hz	f ≥ 50.1 Hz
50.25	49.79	50.00	0.045	0.00	0.00	7.07	54.90	72.58	20.35	6.60
17:02	7:19									
Percentage of Time Frequency Remained outside IEGC Band							27.4%	Percentage		
Nos of hours frequency remained outside IEGC Band							6.6	Hours		

3. राज्य अथवा क्षेत्र में ऊर्जा उत्पादन, ग्रिड से आयात एवं अभाव / Generation, Drawal and Shortage in State or Control Area

राज्य / क्षेत्र / State/Area	शुद्ध उत्पादन / Net Generation (MU)					ग्रिड से शुद्ध आयात / Net Drawal from Grid (MU)			खपत / Consumption (in MU)	अभाव / Shortage* (in MU)
	तापीय / Thermal	जलीय / Hydro	पवन / Wind	सौर/अन्य / Solar-Others	कुल / Total	सूच्य / Schedule	वास्तविक / Actual	अन्वयति / Deviation		
गुजरात / Gujarat	154.8	1.0	5.7	4.9	166.4	100.4	99.5	-0.9	265.9	0.0
मध्य प्रदेश / Madhya Pradesh	76.3	17.1	1.7	3.9	99.0	124.4	122.1	-2.3	221.0	0.0
छत्तीसगढ़ / Chattisgarh	54.3	0.1	0.0	0.0	54.3	12.2	11.2	-1.0	65.5	0.1
महाराष्ट्र / Maharashtra	258.3	14.6	4.7	0.9	278.5	119.7	118.8	-0.8	397.4	0.0
गोवा / Goa	0.6	0.0	0.0	0.0	0.6	6.0	7.4	1.3	8.0	0.0
दमन-द्यू / Daman & Diu	0.0	0.0	0.0	0.0	0.0	5.9	5.9	0.0	5.9	0.0
दादरा नगर हवेली / Dadra & Nagar Haveli	0.0	0.0	0.0	0.0	0.0	15.6	15.5	-0.04	15.5	0.0
एस्सार स्टील / Essar Steel	0.0	0.0	0.0	0.0	0.0	9.7	10.4	0.7	10.4	0.0
पश्चिम क्षेत्रीय / Western Regional	544.3	32.7	12.1	9.6	598.8	393.9	390.8	-3.1	989.7	0.1

Note: Shortage as reported by respective entities

Deviation/STOA/PX: [OD/Import: +ve], [UD/Export: -ve]

4. राज्य अथवा क्षेत्र में ऊर्जा कुल उपलब्धता / State's Demand Met

राज्य / क्षेत्र / State/Area	सामं 20:00 बजे / 20:00 hrs		रात्री 03:00 बजे / 03:00 hrs		दैनिक शिखर Day Peak		विवरण / Deviation in 15-minute time block			
	उपलब्धता / Demand Met (MW)	अभाव / Shortage (MW)	उपलब्धता / Demand Met (MW)	अभाव / Shortage (MW)	उपलब्धता Max Demand Met / बजे Time (MW)	अभाव / Shortage (MW)	औसत / Average (MW)	अधिकतम / Maximum (MW)	न्यूनतम / Minimum (MW)	
गुजरात / Gujarat	11602	0	9941	0	12392	12.00	0	37	386	-397
मध्य प्रदेश / Madhya Pradesh	9000	3	7684	0	11401	10.00	0	-54	366	-412
छत्तीसगढ़ / Chattisgarh	2996	1	2253	0	3094	18.00	0	84	338	-107
महाराष्ट्र / Maharashtra	16381	6	14372	0	19168	12.00	0	-4	309	-734
गोवा / Goa	378	0	304	0	386	21.00	0	27	119	-56
दमन-द्यू / Daman & Diu	249	0	252	0	258	1.00	0	7	29	-11
दादरा नगर हवेली / Dadra & Nagar Haveli	667	0	647	0	667	19.00	0	17	64	-32
एस्सार स्टील / Essar Steel	499	0	455	0	519	2.00	0	30	240	-142
पश्चिम क्षेत्रीय / Western Regional	41772	11	35908	0						

5. क्षेत्रीय इकाई उत्पादन केंद्र में उत्पादन स्थिति / Regional Entity-Generators (CGS/UMPP)

स्टेशन / Station	संस्थापित क्षमता / Installed Capacity	घोषित क्षमता / ON Bar Declared Capability (Maximum)	वास्तविक उत्पादन / Actual Generation (Ex-bus)			दैनिक उत्पादन / Day Generation (Ex-bus)			विवरण / Deviation in 15-minute time block	
			शिखर समय / Peak hour (Avg 15 min)	ऑफ-पीक / Off-Peak hour (Avg 15 min)	औसत / Day Average	सूच्य / Schedule (MU)	वास्तविक / Actual (MU)	विवरण / Deviation (MU)	अधिकतम / Maximum (MW)	न्यूनतम / Minimum (MW)
कोरबा / Korba-I&II	2100	1430	1298	1246	1096	25.5	26.3	0.8	343	-228
कोरबा / Korba-III	500	472	417	384	234	5.0	5.6	0.6	189	-350
विंध्याचल / Vindhyachal-I	1260	956	998	760	943	19.9	22.6	2.7	273	7
विंध्याचल / Vindhyachal-II	1000	943	921	316	655	13.5	15.7	2.2	299	-14
विंध्याचल / Vindhyachal-III	1000	943	791	692	914	19.1	21.9	2.9	289	-17
विंध्याचल / Vindhyachal-IV	1000	943	806	589	818	18.8	19.6	0.8	122	-113
विंध्याचल / Vindhyachal-V	500	471	415	351	423	10.1	10.2	0.1	40	-61
सोपता / Sipat-I	1980	1900	1932	1744	1810	42.5	43.5	0.9	269	-62
सोपता / Sipat-II	1000	955	983	981	927	22.2	22.5	0.3	81	-93
मौदा-I / Mouda-I	1000	944	560	540	727	16.3	17.4	1.2	251	-56
सासन / Sasan	3960	3102	3131	3099	3130	73.7	75.1	1.5	179	-59
मुंद्रा / Mundra	4150	3780	3717	3562	3679	89.5	88.3	-1.2	10	-286
एन एस पी सी एल / NSPCL	500	465	441	398	405	9.1	9.7	0.6	70	-34
कक्कापार / Kakrapar	440	0	-2	-2	-2	0.0	0.0	0.0	-2	-2
तारपुर / Tarapur-I	320	0	280	278	280	7.1	6.7	-0.4	-13	-18
तारपुर / Tarapur-II	1080	0	1001	1001	1001	23.6	24.0	0.4	19	14
कावेर / Kaveri	656	335	270	260	276	6.5	6.6	0.2	70	-79
गांधार / Gandhar	657	659	298	271	324	7.5	7.8	0.3	65	-28
ई-बोरो E-Bid RGPP	1000	570	473	460	488	10.8	11.7	0.9	113	-15

सदर सरोवर प्रोजेक्ट / SSP	1450	136	125	110	118	3.3	2.8	-0.4	-10	-30
शुद्ध / Total	25553	19002	18855	17041	18257	423.9	438.2	14.3		

Note:Source SCADA

6. क्षेत्रीय इकाई उत्पादन केंद्र में उत्पादन स्थिति / Regional Entity-Generators (IPP)

स्टेशन/ Station	संस्थापित क्षमता/ Installed Capacity	वास्तविक उत्पादन/ Actual Generation (Ex-bus)			दैनिक उत्पादन / Day Generation (Ex-bus)			विचलन/ Deviation in 15-minute time block	
		शिखर समय / Peak hour(Avg 15 min)	Off-Peak hour (Avg 15 min)	औसत/ Day Average	सूच्युल/ Schedule	वास्तविक/ Actual	विचलन/ Deviation	अधिकतम/ Maximum	न्यूनतम/ Minimum
		Effective MW	(MW)	(MW)	(MW)	(MU)	(MU)	(MU)	(MW)
एस्सार महान / Essar Mahan	600	436	417	428	10.4	10.3	-0.1	5	-28
वंदना विद्युत / Vandana Vidut	135	0	0	0	0.0	0.0	0.0	0	0
बालको / Balco	1200	362	330	391	10.0	9.4	-0.6	25	-84
जे पी नीग्रि / JP Nigrie	1320	539	376	413	9.7	9.9	0.2	44	-15
लैको / Lanco	600	560	467	553	12.8	13.3	0.5	64	1
के एफ के / KSK Mahnadi	1200	539	555	547	14.7	13.1	-1.5	6	-116
जिंदल/Jindal Stg-1	1000	815	509	642	14.9	15.4	0.5	83	-57
जिंदल/Jindal Stg-2	1800	325	-12	98	3.0	3.0	0.0	18	-45
डी सी पी सी / DCPSP	540	136	20	69	1.6	1.7	0.1	36	-40
कोरबा वेस्ट / Korba West	600	535	370	477	11.4	11.5	0.1	36	-86
डी डी पावर / DBPower	1200	738	657	717	16.7	17.2	0.5	75	-10
एम्को / EMCO	600	372	336	396	9.3	9.5	0.2	58	-60
ACBIL+ Spectrum+MCPL	620	284	283	285	7.0	6.9	-0.1	-1	-9
धारीबाव/ Dharwaj	300	166	152	165	3.9	3.9	0.0	12	-3
एसकेएस / SKS	0	0	0	0	0.0	0.0	0.0	0	0
आरकेएम / RKM	720	0	0	0	0.0	0.0	0.0	0	0
एनबी विद्युत / MB Power	1200	563	365	497	11.7	11.9	0.2	14	3
डीजेन / DGEN	1200	-2	-2	-2	0.0	0.0	0.0	-2	-2
झाबुआ / Jhabua	600	0	0	0	0.0	0.0	0.0	0	0
शुद्ध / Total	16805	6670	5131	6001	147.6	147.7	0.0		

Note:Source SCADA

7. अंतर क्षेत्रीय विनिमय / Inter regional Exchange

क्षेत्र / Region	शुद्ध/ Schedule (MU)	वास्तविक/ Actual (MU)	अधिकतम/ Maximum (MW)	
उत्तरी क्षेत्र/ Northern Region	आयात / Import	11.1	17.0	1016
	निर्यात / Export	138.3	123.9	6352
	शुद्ध / Net	-127.2	-106.9	
पूर्वी क्षेत्र / Eastern Region	आयात / Import	32.8	12.9	954
	निर्यात / Export	13.0	5.4	919
	शुद्ध / Net	19.8	7.5	
दक्षिणी क्षेत्र/ Southern Region	आयात / Import	0.7	1.5	0
	निर्यात / Export	49.0	66.2	3299
	शुद्ध / Net	-48.3	-64.7	
पश्चिम क्षेत्रीय / WR Region	आयात / Import	44.6	31.4	1970
	निर्यात / Export	200.2	195.5	10570
	शुद्ध / Net	-155.6	-164.1	

Note : [Import: +ve], [Export: -ve]

8. विभव स्तरिका / Voltage Profile-765 kV

उपकेंद्र/ Station	अधिकतम/ Maximum (Instantaneous)		न्यूनतम/ Minimum (Instantaneous)		प्रतिशत समय विभव/ % time voltage			Nos of Hours Volatage remained Outside IEGC Range(VDI) (100-A)*24/100
	केवी / kV	समय/Time	केवी / kV	समय/Time	< 728 kV	IEGC Band (A)	> 800 kV	
सीपत/Sipat	767	22:02:00	754	7:07:00	0	100	0	0.0
शिबकी/Seoni	785	20:53:00	763	11:41:00	0	100	0	0.0
वर्धा/Wardha	801	17:06:00	771	6:49:00	0	100	0	0.0
बीना/Bina	786	20:53:00	753	11:38:00	0	100	0	0.0
इंदौर/Indore	784	17:03:00	752	7:37:00	0	100	0	0.0
सासन/Sasan	774	2:03:00	754	11:40:00	0	100	0	0.0
सतना/Salna	783	2:03:00	754	11:38:00	0	100	0	0.0
तमनार/Tamnara	796	2:03:00	784	18:26:00	0	100	0	0.0
कोटरा/Kotra	796	2:02:00	783	18:26:00	0	100	0	0.0
वडोदरा / Vadodara	780	18:05:00	765	22:25:00	0	100	0	0.0
दुर्ग/Durg	788	20:54:00	778	6:37:00	0	100	0	0.0

9. विभव स्तरिका Voltage Profile-400 kV

उपकेंद्र/ Station	अधिकतम/ Maximum (Instantaneous)		न्यूनतम/ Minimum (Instantaneous)		प्रतिशत समय विभव/ % time voltage			Nos of Hours Volatage remained Outside IEGC Range(VDI) (100-A)*24/100
	केवी / kV	समय/Time	केवी / kV	समय/Time	<380 kV	IEGC Band (A)	> 420 kV	
भोपाल / Bhopal	415	20:52	400	7:43	0	100	0	0.0
खण्डवा / Khandwa	423	20:45	407	7:35	0	100	0	1.3
इटारसी / Itarsi	412	20:53	396	7:35	0	100	0	0.0
दमोह / Damoh	423	6:40	405	13:00	0	100	0	0.0
नागदा / Nagda	423	20:43	403	7:50	0	100	0	0.0
रायपुर / Raipur	425	21:54	416	10:26	0	55	45	10.8
रायगढ़ / Raigarh	423.75	2:03	416	18:29	0	45	55	13.3
वर्धा / Wardha	420	20:42	411	6:32	0	100	0	0.0
धुले / Dhule	430	19:53	403	11:49	0	79	21	5.2
परली / Parli	424	21:40	396	11:57	0	98	2	0.5
बोईसर / Boisar	420	2:02	407	11:38	0	100	0	0.0
असोज / Asoj	417	20:45	404	11:38	0	100	0	0.0
देहगाम / Dehgam	438	4:56	412	11:40	0	62	38	9.1
कासोर / Kasor	418	21:02	409	11:39	0	100	0	0.0
जैतपुर / Jetpur	408	18:01	397	10:27	0	100	0	0.0
अमरेली / Amreli	415	17:59	406	10:07	0	100	0	0.0
वापी / Vapi	419	4:23	402	11:41	0	100	0	0.0
कला / KALA	406	0:00	406	0:00	0	100	0	0.0
मागखवाड़ा / Magarwara	417	4:24	403	10:07	0	100	0	0.0

हज़ीरा / Hazira	418	23:16	398	18:26	0	100	0	0.0
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10. अन्तर्गत अंशिम / STOA (Bilateral & PX)

CONSTITUENTS	STOA Schedule		19:00 hrs Approval		03:00 hrs Approval	
	BILATERAL	PX	BILATERAL	PX	BILATERAL	PX
	(MUs)	(MUs)	(MW)	(MW)	(MW)	(MW)
गुजरात / Gujarat	-1.6	11.8	-67	492	-68	389
मध्य प्रदेश / Madhya Pradesh	16.6	-3.7	404	-222	404	-120
छत्तीसगढ़ / Chhattisgarh	-1.2	-1.3	157	-42	157	-42
महाराष्ट्र / Maharashtra	12.1	2.6	639	134	334	106
गोवा / Goa	0.4	-0.4	29	49	0	0
दमन और दीव / Daman & Diu	0.0	1.1	0	47	0	47
दादरा नगर हवेली / Dadra & Nagar Haveli	0.0	7.4	0	308	0	308
एस्सर स्टील / Essar Steel	9.7	0.0	405	0	405	0

State Generators

स्टेशन / Station	संस्थापित क्षमता / Installed Capacity	वास्तविक उत्पादन / Actual Generation (Ex-bus)			बिचलन / Day Peak in 15-minute time block		Day Energy (MU)
		शिखर समय / Peak hour (Avg 15 min)	ऑफ-पीक / Off-Peak hour (Avg 15 min)	औसत / Day Average	अधिकतम / Maximum	समय / Time	
		(MW)	(MW)	(MW)	(MW)	hh:mm	
<b>Chhattisgarh</b>							
Bango	120	27	0	2	27	(19:45-20:00)	0.1
DSPM	500	475	479	476	481	(01:15-01:30)	11.4
Korba (E)	440	233	216	216	239	(22:45-23:00)	5.2
Korba(W)	1340	21	31	37	72	(04:45-05:00)	0.9
Marwa	1000	265	266	264	268	(05:00-06:15)	6.3
SOLAR							0.0
WIND							0.0
<b>Gujarat</b>							
Vadinar	1200	355	348	370	380	(04:15-04:30)	8.9
ALTPS	250	164	161	163	169	(08:30-08:45)	3.9
GIPCL	305	0	0	0	0	(00:00-00:15)	0.0
GSEC	156	-4	-4	-4	-4	(09:30-09:45)	-0.1
SLPP	500	364	219	344	376	(17:30-17:45)	8.3
UNO SUGEN	361	361	361	361	361	(00:15-00:30)	8.3
ADANI	4620	2600	2048	2465	2784	(09:15-09:30)	59.2
DGBP	215	88	2	46	90	(16:30-16:45)	1.1
GTPS	870	170	170	182	216	(07:45-08:00)	4.4
KADANA	240	0	61	13	61	(00:15-00:30)	8.3
KLTPS	290	157	147	171	194	(11:15-11:30)	4.1
STPS	740	372	373	457	543	(14:30-14:45)	11.0
UKAI (HYDRO)	300	1	1	1	1	(04:15-04:30)	0.0
UKAI (TH)	1350	358	358	424	507	(15:45-16:00)	10.2
WTPS	1470	487	487	535	649	(00:15-00:30)	12.9
SUGN TOTAL	1147.5	337	338	338	338	(23:00-23:15)	8.1
UTRAN-2	375	0	0	0	0	(22:15-22:30)	0.0
BARGI HYDRO	90	-1	-1	55	90	(07:45-08:00)	1.3
SOLAR							4.8
WIND							5.7
<b>Madhya Pradesh</b>							
AMARKANTAK	450	212	212	212	217	(23:00-23:15)	5.1
GANDHI SAGAR	125	101	101	101	102	(20:00-20:15)	2.4
ISP	1000	129	0	223	991	(09:30-09:45)	5.3
JP BINA	500	302	301	323	454	(10:30-10:45)	7.8
OMKARESWAR	520	58	0	94	328	(09:30-09:45)	2.3
RAJGHAT HY	45	0	0	0	0	(00:00-00:15)	0.0
SATPURA (SARNI)	1330	624	542	610	641	(11:15-11:30)	14.6
SGTPS (SANJAY GANDHI)	1340	1103	1112	1091	1221	(07:30-07:45)	26.2
SILPARA HY	90	-20	-20	-20	-19	(18:45-19:00)	-0.5
TONS HY	315	207	89	174	316	(08:00-08:15)	4.2
SINGHA JI	1200	762	665	826	972	(13:15-13:30)	19.8
SOLAR							3.9
WIND							1.7
<b>Maharashtra</b>							
DHARIWAL	300	146	146	146	146	(00:15-00:30)	3.5
IB AMRAVATI	1350	0	0	0	0	(00:00-00:15)	0.0
IEPL BELA	270	0	0	0	0	(00:00-00:15)	0.0
TATA BHIRA HY	150	2	2	2	75	(18:45-19:00)	0.1
BHUSAWAL	1420	687	712	818	969	(08:30-08:45)	19.6
BHIVPURI	75	71	0	21	71	(12:45-13:00)	0.5
CHANDRAPUR	2340	1804	1815	1915	2058	(12:30-12:45)	46.0
DHANU	500	366	367	410	487	(14:45-15:00)	9.8
KHAPARKHEDA	1340	957	957	1079	1229	(08:15-08:30)	25.9
KORADI	1950	502	509	506	518	(09:30-09:45)	12.2
NASIK	630	304	307	324	372	(08:00-08:15)	7.8
PARAS	500	182	174	199	230	(08:15-08:30)	4.8
PARLI	1130	413	413	413	413	(00:00-00:15)	9.9
TOMBAY	1580	493	446	540	845	(12:00-12:15)	13.0
JAIGAD (JSW)	1200	458	417	433	458	(16:45-17:00)	10.4
BHIRA PSS HY	150	1	1	1	1	(00:15-00:30)	0.0
TATA KHOPOLI	72	6	0	3	24	(10:00-10:15)	0.1
KOYNA 1&2	600	40	40	133	540	(10:45-11:00)	3.2
KOYNA 3	320	0	0	0	296	(10:15-10:30)	2.0
KOYNA-4	1000	-5	-5	154	505	(09:45-10:00)	3.7
URAN	675	419	340	353	437	(23:30-23:45)	8.5
APML TIRODA	3300	2123	1723	1961	2229	(12:00-12:15)	47.1
SOLAR							0.9
WIND							4.7

11. No of Zero crossing of UI of States

State	CHATTISGARH	DD	DNH	GOA	GUJARAT	MADHYAPRADSH	MAHARASHTRA
* No of Zero Crossing of UI	16	6	7	7	20	19	29

\* Calculated based on 15-minute average sample data from SCADA.



## DAILY OPERATION REPORT

POWER SUPPLY POSITION IN SOUTHERN REGION FOR 18-DEC-2016

DATE OF REPORTING : 19-DEC-2016 AT 06:00HRS

## 1. REGIONAL AVAILABILITY

EVENING PEAK (19:00HRS)			NIGHT OFF-PEAK (03:00HRS)*			DAY ENERGY (MU)	
AVAILABILITY (MW)*	SHORTAGE (MW)#	FREQUENCY (Hz)	AVAILABILITY (MW)*	SHORTAGE (MW)#	FREQUENCY (Hz)	MET	SHORTAGE #
32935	--	50.04	27409	--	50.04	754.47	0.52

\* MW Availability indicated above includes SR ISTS Loss.

#Shortage is calculated at 50 Hz which is the sum of Load Shedding and Frequency Correction at 50 Hz.

## 2 A. STATE DEMAND (ENERGY - MU)

STATE	THERMAL	HYDRO	GAS/NAPTH A/ DIESEL	WIND	SOLAR	OTHERS	NET SCH (FROM GRID)	DRAWAL (FROM GRID)	AVAILABILITY	DEMAND MET	SHORTAGE #
AP	80.34	5.97	10.31	2.33	3.92	5.81	23.50	25.90	132.18	134.58	0.10
TELANGANA	64.70	0.68	0.00	0.64	3.67	4.66	66.44	68.00	140.79	142.35	0.11
KAR	75.28	6.12	0.00	7.19	1.21	16.87	57.66	60.83	164.33	167.50	0.12
KERALA	0.00	5.30	0.00	0.07	0.09	0.13	51.12	53.41	56.71	59.00	0.04
TN	62.62	3.61	8.22	8.12	7.06	16.01	139.13	139.98	244.77	245.62	0.15
PONDY	0.00	0.00	0.00	0.00	0.00	0.00	6.11	5.42	6.11	5.42	0.00
<b>TOTAL</b>	<b>282.94</b>	<b>21.68</b>	<b>18.53</b>	<b>18.35</b>	<b>15.95</b>	<b>43.48</b>	<b>343.96</b>	<b>353.54</b>	<b>744.89</b>	<b>754.47</b>	<b>0.52</b>

# The accuracy of shortage computation depends on timely load shedding details furnished in the web directly by constituents

## 2 B. STATE DEMAND (MW) &amp; ENERGY FORECAST (MU)

STATE	19:00 HRS PEAK		03:00 HRS OFF-PEAK		DAY PEAK			DAY ENERGY (MU)	
	DEMAND MET	SHORTAGE #	DEMAND MET	SHORTAGE #	DEMAND MET	TIME	SHORTAGE#	FORECAST	DEVIATION FROM FORECAST (ACTUAL + LS - FORECAST)
AP	5270	0	4840	0	6162	08:00:00	7	133.00	1.58
TELANGANA	5744	0	4595	0	7128	12:49:00		142.00	0.35
KAR	7311	0	6379	0	7814	11:00	3	170.00	-2.50
KER	3138		2184	0	3148	21:00	4	58.15	0.85
TN	10876	0	8851	0	11534	11:00		235.26	10.36
PONDY	246	0	210	0	256	18.30		6.37	-0.95
SR ISTS LOSS	350	--	350	--	--	--	--	--	--
SR	32935		27409		32771	18:51		744.78	9.69

## 3. GENERATION :

STATION	INSTALLED CAPACITY(MW)	19:00HRS PEAK MW	03:00HRS OFF-PEAK MW	DAY PEAK		DAY ENERGY (MU)	AVG MW
				MW	HRS		
<b>ANDHRA PRADESH</b>							
Vijayawada TPS (6x210+1x500)	1760	952	671	1049	17:08	20.72	863
Rayalaseema TPS (5x210)	1050	857	688	945	09:22	17.93	747
Simhadri (IPP) (2x500)	1000	784	648	961	10:29	18.25	761
Krishnapatnam TPP (2*800)	1600	663	633	702	06:08	13.84	577
Hinduja (1*525)	525	492	380	528	20:13	9.60	400
<b>Total Thermal</b>	<b>5935</b>	<b>3748</b>	<b>3020</b>	<b>--</b>	<b>--</b>	<b>80.34</b>	<b>3348</b>
Srisailem RB (7x110)	770	--	--	--	--	--	--
Lower Sileru (4x115)	460	90	--	298	12:14	3.72	155
Upper Sileru (4x60)	240	--	6	118	07:21	0.52	22
Other Hydro	278	37	36	--	--	1.73	72
<b>Total Hydro</b>	<b>1748</b>	<b>127</b>	<b>42</b>	<b>--</b>	<b>--</b>	<b>5.97</b>	<b>249</b>
Vijjeswaram Gas (2x33+1x34+1x112.5+1x59.5)	272	12	15	15	03:00	1.98	83
Reliance Energy Ltd.(1x140+1x80)	220	--	--	--	--	--	--
Jegrapadu (2x45.8+1x48.9+1x75.5)	216	97	96	108	23:19	2.40	100
Spectrum (1x46.8+2x46.1+1x68.88)	208	122	122	131	23:58	2.97	124
LANCO (2*115+1*125)	351	123	121	139	23:25	2.96	123
Vemegiri 1x233+1x137)	370	--	--	--	--	--	--
Jegrapadu Ext.	220	--	--	--	--	--	--
Konaseema (1x145+1x140+1x165)	450	--	--	--	--	--	--
Gauthami (2x145+1x174)	464	--	--	--	--	--	--
GMR(BRG) (1x237)	237	--	--	--	--	--	--
Other Gas/Naptha/Diesel	27	--	--	--	--	--	--
<b>Total Gas/Naptha/Diesel</b>	<b>3035</b>	<b>354</b>	<b>354</b>	<b>--</b>	<b>--</b>	<b>10.31</b>	<b>430</b>
<b>Wind</b>	<b>1411</b>	<b>134</b>	<b>115</b>	<b>134</b>	<b>19:00</b>	<b>2.33</b>	<b>97</b>
<b>Solar</b>	<b>695</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3.92</b>	<b>163</b>
<b>Others</b>	<b>424</b>	<b>119</b>	<b>95</b>	<b>119</b>	<b>19:00</b>	<b>5.81</b>	<b>242</b>
<b>Total AP</b>	<b>13248</b>	<b>4482</b>	<b>3626</b>	<b>--</b>	<b>--</b>	<b>108.68</b>	<b>4529</b>

STATION	INSTALLED CAPACITY(MW)	19:00HRS PEAK MW	03:00HRS OFF-PEAK MW	DAY PEAK		DAY ENERGY (MU)	AVG MW
				MW	HRS		
<b>TELANGANA</b>							
Kothagundam TPS (4x60+4x120+2x250+1x500)	1720	814	828	916	15:12	22.66	944
Kaktiya TPS (1x500+1x600)	1100	810	794	884	09:10	16.04	668
Ramagundan B (1x62.5)	63	53	54	55	07:17	1.27	53
Singareni (2x600)	1200	1185	913	1217	17:37	24.73	1030
<b>Total Thermal</b>	<b>4083</b>	<b>2862</b>	<b>2589</b>	<b>--</b>	<b>--</b>	<b>64.70</b>	<b>2695</b>
N'Sagar (1x110+7x100.8)	816	--	--	--	--	--	--
Srisailem LB (Gen) (6x150)	900	--	--	--	--	--	--
Srisailem LB (Pump)	900	--	--	--	--	--	--
Other Hydro	368	--	--	--	--	0.68	28
<b>Total Hydro</b>	<b>2084</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.68</b>	<b>28</b>
<b>Wind</b>	<b>78</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.64</b>	<b>27</b>
<b>Solar</b>	<b>617</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>3.67</b>	<b>153</b>
<b>Others</b>	<b>234</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>4.66</b>	<b>194</b>
<b>Total TG</b>	<b>7096</b>	<b>2862</b>	<b>2589</b>	<b>--</b>	<b>--</b>	<b>74.35</b>	<b>3097</b>

<b>KARNATAKA</b>							
Raichur TPS (7x210+1x250)	1720	1367	1362	1400	16:20	32.59	1358
Bellary TPS (2x500+1x700)	1700	794	790	827	20:55	18.51	771
UPCL(IPP) (2x600)	1200	1085	771	1142	17:53	24.13	1005
Jindal (2x130+4x300)	1460	34	--	34	19:00	0.05	2
YTPS (1x800)	800	--	--	--	--	--	--
<b>Total Thermal</b>	<b>6880</b>	<b>3280</b>	<b>2923</b>	<b>--</b>	<b>--</b>	<b>75.28</b>	<b>3136</b>
Sharavathi (10x103.5)	1035	61	114	498	09:29	3.30	137
Nagihari (1x135+5x150)	885	197	--	247	18:22	0.28	12
Varahi (4x115)	460	26	30	227	16:18	0.85	35
Other Hydro	1992	61	21	--	--	1.69	70
<b>Total Hydro</b>	<b>4372</b>	<b>345</b>	<b>165</b>	<b>--</b>	<b>--</b>	<b>6.12</b>	<b>254</b>
Yelehanka Diesel (6x21.32)	128	--	--	--	--	--	--
Other Gas/Naptha/Diesel	118	--	--	--	--	--	--
<b>Total Gas/Naptha/Diesel</b>	<b>246</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Wind</b>	<b>2922</b>	<b>347</b>	<b>340</b>	<b>527</b>	<b>21:31</b>	<b>7.19</b>	<b>300</b>
<b>Solar</b>	<b>146</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>1.21</b>	<b>50</b>
<b>Others</b>	<b>1041</b>	<b>510</b>	<b>492</b>	<b>510</b>	<b>19:00</b>	<b>16.87</b>	<b>703</b>
<b>Total KAR</b>	<b>15607</b>	<b>4482</b>	<b>3920</b>	<b>--</b>	<b>--</b>	<b>106.67</b>	<b>4443</b>

<b>KERALA</b>							
Iddukki (6x130)	780	131	69	289	19:41	2.59	108
Sabarigiri (1x60+4x55)	280	213	7	217	18:57	1.08	45
Lower Periyar (3x60)	180	54	--	56	19:02	0.07	3
Other Hydro	751	184	--	--	--	1.56	65
<b>Total Hydro</b>	<b>1991</b>	<b>582</b>	<b>76</b>	<b>--</b>	<b>--</b>	<b>5.30</b>	<b>221</b>
Kayamkulam (2x116.6+1x126.38)	360	--	--	--	--	--	--
Reliance Energy (3x40.5+1x35.5)	157	--	--	--	--	--	--
Brahmapuram DPP (5x21.32))	107	--	--	--	--	--	--
Kozhikode DPP (8x16)	128	--	--	--	--	--	--
Other Gas/Naptha/Diesel	22	--	--	--	--	--	--
<b>Total Gas/Naptha/Diesel</b>	<b>774</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>
<b>Wind</b>	<b>35</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.07</b>	<b>3</b>
<b>Solar</b>	<b>35</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.07</b>	<b>3</b>
<b>Others</b>	<b>13</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.09</b>	<b>4</b>
<b>Total KER</b>	<b>20</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>0.13</b>	<b>6</b>

TAMILNADU							
Ennore TPS (2x60+3x110)	450	--	--	--	--	--	--
North Chennai TPS (3x210)	630	191	81	191	13:59	4.84	202
Tutucorin TPS (5x210)	1050	507	429	518	21:28	12.48	520
Mettur TPS (4x210+1x600)	1440	1125	856	1138	19:21	25.11	1046
Neyveli-I (IPP) (6x50+3x100)	600	384	405	431	04:47	9.08	378
ST-CMS (1x250)	250	--	--	--	--	--	--
NCTPS STAGE-II (2x600)	1200	475	25	475	18:12	11.11	463
Other Thermal	--	--	--	--	--	--	--
<b>Total TN Thermal</b>	<b>5620</b>	<b>2682</b>	<b>1796</b>	<b>--</b>	<b>--</b>	<b>62.62</b>	<b>2609</b>
Kadamparai (G) (4x100)	400	--	223	223	03:00	0.72	30
Kadamparai (P)	400	--	--	--	--	2.14	89
Other Hydro	1824	264	66	--	--	2.89	120
<b>Total TN Hydro</b>	<b>2224</b>	<b>264</b>	<b>289</b>	<b>--</b>	<b>--</b>	<b>3.61</b>	<b>150</b>
Basin Bridge (4x30)	120	--	--	--	--	--	--
Kovilkalappal (1x70+1x37.88)	108	32	31	41	12:51	0.80	33
Kuttalam (1x64+1x37)	101	85	48	85	01:19	1.22	51
Valattur(Stg 1&2) (2x60+1x35+1x32)	187	89	88	90	10:51	3.65	152
Samalpatty (7x15.1)	106	--	--	--	--	--	--
P P Nallur (1x330.5)	331	--	--	--	--	--	--
Madurai Power CL (1x106)	106	--	--	--	--	--	--
GMR Vasavi (4x49)	196	--	--	--	--	--	--
Other Gas/Naptha/Diesel	166	710	710	710	19:00	2.55	106
<b>Total Gas/Naptha/Diesel</b>	<b>1421</b>	<b>916</b>	<b>877</b>	<b>--</b>	<b>--</b>	<b>8.22</b>	<b>342</b>
<b>Wind</b>	<b>7598</b>	<b>121</b>	<b>347</b>	<b>501</b>	<b>12:26</b>	<b>8.12</b>	<b>338</b>
<b>Solar</b>	<b>1100</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>--</b>	<b>7.06</b>	<b>294</b>
<b>Others</b>	<b>806</b>	<b>57</b>	<b>56</b>	<b>57</b>	<b>19:00</b>	<b>16.01</b>	<b>667</b>
<b>Total TN</b>	<b>18769</b>	<b>4040</b>	<b>3365</b>	<b>--</b>	<b>--</b>	<b>105.64</b>	<b>4400</b>
STATION	INSTALLED CAPACITY(MW)	19:00HRS PEAK MW	03:00HRS OFF-PEAK MW	DAY PEAK		DAY ENERGY (MU)	AVG MW
				MW	HRS		
CENTRAL SECTOR (ISGS)							
Ramagundam,NTPC (3x200+4x500)	2600	2415	1901	2473	20:24	55.38	2308
Neyveli TPS II (7x210)	1470	1067	901	1141	10:50	23.33	972
Neyveli TPS I (EXP) (2x210)	420	196	174	201	16:55	4.57	190
Madras APS (2x220)	440	155	--	155	16:01	2.49	104
Kaiga STGI (2x220)	440	380	374	388	09:40	9.69	404
Kaiga STG II (2x220)	440	224	224	224	19:00	5.09	212
Neyveli TPS II (EXP) (2x250)	500	145	140	150	13:08	3.41	142
Talcher II, NTPC (4x500)	2000	1883	1897	1908	03:31	45.33	1889
Simhadri II, NTPC (2x500)	1000	658	656	960	07:31	17.61	734
Kundakulam (1x1000)	2000	577	577	626	21:54	11.98	499
<b>Total ISGS</b>	<b>11310</b>	<b>7700</b>	<b>6844</b>	<b>--</b>	<b>--</b>	<b>178.88</b>	<b>7454</b>
JOINT VENTURE							
Vallur (3x500)	1500	1348	1135	1396	08:14	30.29	1262
NTPL (2x500)	1000	934	805	947	19:05	20.28	845
<b>Total JV</b>	<b>2500</b>	<b>2282</b>	<b>1940</b>	<b>--</b>	<b>--</b>	<b>50.57</b>	<b>2107</b>
IPP UNDER OPEN ACCESS							
LKPPL STG2 (1x233+1x133)	366	--	--	--	--	--	--
LKPPL STG3 (1x241.3+1x126.7)	368	--	--	--	--	--	--
SIMHAPURI (2x150)	600	401	401	401	00:00	1.85	77
MEENAKSHI (2x150)	300	70	55	137	11:11	2.09	87
COSTAL ENERGEN (2x600)	1200	304	304	304	19:00	7.29	304
TPCIL (2x660)	1320	1216	745	1258	18:26	25.11	1046
IL&FS (2x600)	1200	553	331	553	19:00	24.48	1020
SGPL (1x660)	660	--	--	--	--	7.69	320
<b>Total IPP</b>	<b>6014</b>	<b>2544</b>	<b>1836</b>	<b>--</b>	<b>--</b>	<b>68.51</b>	<b>2854</b>

Total State Thermal	23418	13043	10784	--	--	286.88	11952
Total ISGS Thermal	7990	6364	5669	--	--	149.63	6235
Total Thermal	31408	19407	16453	--	--	436.51	18187
Total Hydro	12419	1318	572	--	--	21.68	902
*Total Gas/Naptha/Diesel	5842	1270	1231	--	--	18.53	772
Total Nuclear	3320	1336	1175	--	--	29.25	1219
Total Wind	12044	602	802	--	--	18.35	765
Total Solar	2571	--	--	--	--	15.95	664
Total Others	2525	686	643	--	--	43.48	1812
Inter-regional (Except Talcher II)	--	1210	328	--	--	179.41	7475
Grand Total	70129	25829	21204	--	--	754.47	31436

\* Total Gas/ naptha/Diesel includes pondy Karaikal Power Plant of 32.5 MW

#### 4 A. INTER-REGIONAL EXCHANGES & HVDC - PHYSICAL FLOWS [IMPORT(+)/EXPORT(-)]

ELEMENT	19:00 HRS PEAK MW	03:00 HRS OFF-PEAK MW	MAX INTER-CHANGE (MW)				ENERGY (MU)
			IMPORT	TIME	EXPORT	TIME	
Bhadrawati B2B	954	686	--	--	--	--	22.130
Gazuwaka B2B	553	548	562	18:42	--	--	13.214
Talcher-Kolar	1586	991	1684	17:36	--	--	32.694
Talcher Stage II I/C	-297	-906	--	--	--	--	-12.636
Raichur-Solapur I & II	1612	1949	2259	22:16	--	--	34.153
Upper Sileru-Balimela	--	--	--	--	--	--	0.000
CHIKODI-KOHLAPUR	249	212	--	--	--	--	-5.504
KUDUGI-KOHLAPUR	159	372	58	21:52	--	--	4.330

#### 4 B. INTER-REGIONAL EXCHANGES - SCHEDULES, WHEELING, UI & TALCHER AC I/C

ISGS Schedule		Bilaterals of SR constituents		Power Exchange		Wheeling through SR		Diversion of SR power		IR Schedule		Net UI		Inter-Regional	
Talcher Stage II to SR	ER ISGS	Through ER	Through WR	Through ER	Through WR	ER to SR	WR to SR	Through ER	Through WR	ER to SR	WR to SR	ER to SR	WR to SR	Schedule (Total)	Flow (Total)
40.649	0.871	0.403	-1.106	6.246	0.800	0.000	0.000	12.000	0.000	11.232	46.447	-10.654	9.836	57.679	61.191

#### 5. FREQUENCY PROFILE

% OF TIME									
RANGE	<48.8 Hz	<49.0 Hz	<49.2 Hz	<49.5 Hz	<49.7 Hz	<49.9 Hz	49.9 Hz To 50.05 Hz	>50 Hz	>50.05 Hz
%	0.0	0.0	0.0	0.0	0.0	7.1	72.6	45.1	20.3

Instantaneous Maximum		Instantaneous Minimum		Block Maximum		Block Minimum		Day Avg	Frequency Variation Index	Std. Var.
Hz	TIME	Hz	TIME	Hz	TIME	Hz	TIME	Hz		
50.25	17:02:40	49.79	07:19:40	50.13	6:15	49.89	3:30	50.00	0.045	0.067

6. SHORT TERM OPEN ACCESS TRANSACTION

WHEELING			BILATERAL			
NAME OF THE TRANSACTION	ER END	WR END	NAME OF THE TRANSACTION	MU	PEAK (MW)	OFF-PEAK (MW)
			APPCC-NPC(ARPPCL)(0MW)(SR-WR)	0.000	0.000	0.000
			APPCC-NPC(ARPPCL)(12MW)(SR-WR)	0.125	12.000	5.000
			APPCC-GOAWR(NVVN)(30MW)(SR-WR)	0.360	30.000	30.000
			NBVLAP-TGPCC(TATA)(17.1MW)(SR-SR)	0.093	17.100	17.100
			BMMCEMENT-TGPCC(MANIKARAN)(6.67MW)(SR-SR)	0.061	6.670	6.670
			GIRJJAALOY-TGPCC(GIRJJAALOY)(44MW)(SR-SR)	0.387	44.000	44.000
			STEELEX-TGPCC(STEELEX)(25MW)(SR-SR)	0.325	25.000	25.000
			ITCWIND-ITCPSPD(ITCLTDWIND)(4.77MW)(SR-SR)	0.114	4.770	4.770
			ITCWIND-ITCPSPD(ITCLTDWIND)(0.5MW)(SR-SR)	0.012	0.500	0.500
			SARDAMETAL-TGPCC(SARDALTD)(40MW)(SR-SR)	0.218	40.000	40.000
			BMMCEMENT-SAGARCEM(SAGARCEMNT)(7MW)(SR-SR)	0.112	7.000	7.000
			STEELKOTHA-TGPCC(STEELKPT)(5MW)(SR-SR)	0.059	5.000	5.000
			<b>APTRANSCO TOTAL EXPORT</b>	<b>1.866</b>		
			SITAPURPOW-ZUARICEMEN(SITAPURLTD)(5.5MW)(SR-SR)	0.132	5.500	5.500
			INDCEMSANK-INDCEMCMKR(INDCEMSANK)(7MW)(SR-SR)	0.168	7.000	7.000
			MYHOMEIND-MYHOMEVGU(MYHOME)(4.39MW)(SR-SR)	0.105	4.390	4.390
			SITAPURPOW-ZUARICEMEN(SITAPURLTD)(10.2MW)(SR-SR)	0.245	10.200	10.200
			MYHOMEIND-JAYAJOTHI(MYHOME)(13MW)(SR-SR)	0.204	13.000	13.000
			<b>APTRANSCO TOTAL IMPORT</b>	<b>0.854</b>		
			SITAPURPOW-ZUARICEMEN(SITAPURLTD)(5.5MW)(SR-SR)	0.132	5.500	5.500
			MYHOMEIND-MYHOMEVGU(MYHOME)(4.39MW)(SR-SR)	0.105	4.390	4.390
			SITAPURPOW-ZUARICEMEN(SITAPURLTD)(10.2MW)(SR-SR)	0.245	10.200	10.200
			MYHOMEIND-JAYAJOTHI(MYHOME)(13MW)(SR-SR)	0.204	13.000	13.000
			<b>TGTRANSCO TOTAL EXPORT</b>	<b>0.686</b>		
			ADHUNIK-TGPCC(PTC)(31.49MW)(ER-SR)	0.094	31.490	0.000
			KORBAWEST-TGPCC(ADANI)(25MW)(ER-SR)	0.025	25.000	0.000
			ADHUNIK-TGPCC(PTC)(31.49MW)(ER-SR)	0.283	31.490	31.490
			NBVLAP-TGPCC(TATA)(17.1MW)(SR-SR)	0.093	17.100	17.100
			BMMCEMENT-TGPCC(MANIKARAN)(6.67MW)(SR-SR)	0.061	6.670	6.670
			GIRJJAALOY-TGPCC(GIRJJAALOY)(44MW)(SR-SR)	0.387	44.000	44.000
			VEDSTERCOP-TGPCC(NVVN)(78.2MW)(SR-SR)	0.429	78.200	78.200
			MALCOELTN-TGPCC(NVVN)(66MW)(SR-SR)	0.353	66.000	66.000
			STEELEX-TGPCC(STEELEX)(25MW)(SR-SR)	0.325	25.000	25.000
			ITCWIND-ITCPSPD(ITCLTDWIND)(4.77MW)(SR-SR)	0.114	4.770	4.770
			ITCWIND-ITCPSPD(ITCLTDWIND)(0.5MW)(SR-SR)	0.012	0.500	0.500
			SARDAMETAL-TGPCC(SARDALTD)(40MW)(SR-SR)	0.218	40.000	40.000
			MEENAKSHI-TSSPDCL(MYHOMELTD)(63.5MW)(SR-SR)	0.640	63.500	63.500
			BMMCEMENT-SAGARCEM(SAGARCEMNT)(7MW)(SR-SR)	0.112	7.000	7.000
			SIMHAPURI-TGPCC(SEPL)(130MW)(SR-SR)	0.646	130.000	130.000
			STEELKOTHA-TGPCC(STEELKPT)(5MW)(SR-SR)	0.059	5.000	5.000
			SGPLNLR-TSSPDCL(SGPLNLR)(150MW)(SR-SR)	0.325	150.000	150.000
			<b>TGTRANSCO TOTAL IMPORT</b>	<b>4.176</b>		
			UDUPIPOWER-MPSEZ(UDUPIPOWER)(8.12MW)(SR-WR)	0.195	8.120	8.120
			<b>KPTCL TOTAL EXPORT</b>	<b>0.195</b>		
			<b>KPTCL TOTAL IMPORT</b>	<b>0.000</b>		
			<b>KSEB TOTAL EXPORT</b>	<b>0.000</b>		
			<b>KSEB TOTAL IMPORT</b>	<b>0.000</b>		
			INDCEMSANK-INDCEMCMKR(INDCEMSANK)(7MW)(SR-SR)	0.168	7.000	7.000
			VEDSTERCOP-TGPCC(NVVN)(78.2MW)(SR-SR)	0.429	78.200	78.200
			MALCOELTN-TGPCC(NVVN)(66MW)(SR-SR)	0.353	66.000	66.000
			<b>TNEB TOTAL EXPORT</b>	<b>0.950</b>		
			ILFS-TANGEDCO(ILFS)(272.5MW)(SR-SR)	6.540	272.500	272.500
			ILFS-TANGEDCO(ILFS)(273.38MW)(SR-SR)	6.561	273.380	273.380
			SGPLNLR-TNEB(IEX)(132MW)(SR-SR)	0.514	132.000	100.000
			THERMPOWER-TNEB(IEX)(168MW)(SR-SR)	0.586	168.000	100.000
			<b>TNEB TOTAL IMPORT</b>	<b>14.201</b>		
			GOASR-GOAWR(GOASR)(19.83MW)(SR-WR)	0.426	19.830	19.830
			<b>GOA TOTAL EXPORT</b>	<b>0.426</b>		
			<b>GOA TOTAL IMPORT</b>	<b>0.000</b>		
			<b>LKPPL TOTAL EXPORT</b>	<b>0.000</b>		

**7. VOLTAGE LEVEL AT CRITICAL SUB STATION**

SUBSTATION	% OF TIME (Minute Wise)				400 KV (Hourly)				220 KV / 230 KV (Hourly)			
	<380 KV	<390 KV	>420 KV	>430 KV	MAXIMUM		MINIMUM		MAXIMUM		MINIMUM	
					KV	TIME	KV	TIME	KV	TIME	KV	TIME
HYDERABAD	0.00	0.00	9.79	0.00	423	0201	404	0716	233	0201	222	0721
GOOTY	0.00	0.00	42.57	0.00	426	0202	414	1013	220	0118	220	0118
VIJAYWADA	0.00	0.00	64.86	0.00	429	2353	414	0713	236	0201	227	0713
KOLAR	0.00	0.00	1.53	0.00	424	0202	401	1140	231	0200	220	1008
BANGALORE	0.00	0.00	0.00	0.00	419	0202	396	1013	219	0201	204	1111
HIRIYUR	4.24	4.24	10.00	0.00	424	0606	21	1409	237	0617	225	2208
CHENNAI	0.00	0.00	17.36	0.00	423	0201	411	1825	227	0157	218	1826
TRICHY	0.00	0.00	0.00	0.00	409	2211	394	1751	210	1929	210	1929
TRIVENDRAM	0.00	0.00	0.00	0.00	412	0148	398	1825	227	0148	218	1852
KAIGA	0.00	0.00	19.17	0.00	426	1950	408	1013	220	0000	220	0000
KUDANKULAM	0.00	0.00	0.00	0.00	413	0146	404	1825	235	0146	228	1851

**8. MAJOR RESERVOIR PARTICULARS**

RESERVOIR	DESIGNED			PRESENT		LAST YEAR		LAST DAY		MONTH	
	MDDL (Mts)	FRL (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Level (Mts)	Energy (MU)	Inflow (Mus)	Usage (Mus)	Prog. Inflow (Mus)	Prog. Usage (Mus)
JALAPUT	818.39	838.40	534	835.93	430	836.57	456	0.58	2.22	14.61	37.00
SRISAILAM	243.84	270.70	1392	264.78	591	254.54	144	0.00	0.10	0.00	8.29
N.SAGAR	149.30	179.90	1398	159.78	140	154.96	0	0.00	0.00	1.48	0.00
LINGANAMAKKI	522.73	554.50	4557	546.06	2299	546.35	2360	0.82	5.22	5.52	89.89
SUPA	495.00	564.00	3159	545.38	1672	540.77	1395	0.00	1.45	0.51	33.13
IDUKKI	694.94	732.43	2148	714.15	876	720.88	1298	0.76	2.23	6.65	36.66
KAKKI	908.30	981.45	916	967.59	490	974.25	661	0.45	1.87	15.84	26.50
NILAGIRIS	--	--	1504	--	583	--	1120	0.78	0.85	18.59	15.69
TOTAL	--	--	15608	--	7081	--	7434	3.39	13.94	63.20	247.16

Note: The Reservoirs data are of previous day and Cumulative figures for the month is upto previous day

**9. DETAILS OF OVER DRAWAL OVER A DAY WHEN FREQUENCY < 49.9 HZ**

CONSTITUENTS	AP	TG	KARNATAKA	KERALA	TAMILNADU	PONDY
AVERAGE MW ( F<49.9)	90.23	0.00	97.13	139.54	175.53	0.00
OD MU'S ( F<49.9)	0.02	0.00	0.05	0.07	0.09	0.00
OD NO OF BLOCK( F<49.9)	1	0	2	2	2	0

GENERATOR	NLCII	NLCEXPI	RSTP	SEPL	LANCO	MEPL
AVERAGE MW ( F<49.9)	0.00	0.00	0.00	0.00	0.00	0.00
Under Injection MU'S ( F<49.9)	0.00	0.00	0.00	0.00	0.00	0.00
Under Injection NO OF BLOCK( F<49.9)	0	0	0	0	0	0

**10. SIGNIFICANT EVENTS (IF ANY) :**


**11. SYSTEM CONSTRAINTS (IF ANY) :**


**12. WEATHER CONDITIONS:**


पावर सिस्टम ऑपरेशन निगम लिमिटेड  
पूर्वी क्षेत्रीय भार प्रेषण केंद्र



DAILY OPERATION REPORT OF EASTERN REGION

Power Supply Position For

18-Dec-16

Date of Reporting:

19-Dec-16

1. Regional Availability/Demand:

Evening Peak (18:00 Hrs) MW				Off Peak (14:00 Hrs) MW				Day Energy(Net MU)	
Demand Met	Shortage(-)/Surplus(+)	Requirement	Freq (Hz)	Demand Met	Shortage/Surplus	Requirement	Freq (Hz)	Demand Met	Shortage
15332	0	15332	49.97	10241	0	10241	50.08	291	0.00

2. A.State's Load Deals (At State Periphery) in MUs:

State	State's Control Area Generation (Net MU)				Drawal Sched. (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Availability (Net MU)	Consumption (Net MU)	Shortage (Net MU)
	Thermal	Hydro	Others / Renewable	Total						
Bihar	0.75	0.00	0.00	0.75	54.42	56.93	2.51	55.18	57.68	0.00
DVC	87.18	0.20	0.00	87.38	-33.05	-34.17	-1.12	54.33	53.21	0.00
Jharkhand	5.70	0.00	0.00	5.70	13.83	16.03	2.20	19.53	21.72	0.00
Odisha	18.00	6.21	23.76	47.97	19.37	20.37	1.00	67.33	68.34	0.00
West Bengal	54.60	3.95	11.13	69.68	17.20	18.32	1.12	86.88	88.00	0.00
Sikkim	0.00	0.00	0.00	0.00	1.44	1.79	0.35	1.44	1.79	0.00
Region	166.22	10.36	34.89	211.47	73.22	79.27	6.05	284.69	290.74	0.00

2. B.State's Demand Met in MWs:

State	Evening Peak (18:00 hrs) MW		Off Peak (14:00 hrs) MW		Day peak			Day Energy(Net MU)	
	Demand Met	Shortage(-) /Surplus(+)	Demand Met	Shortage(-) /Surplus(+)	Demand Peak	Time	Shortage(-) /Surplus(+)	ForeCast (LGBR)	Deviation[For ecast(LGBR)- Consumption]
Bihar	3324	0	1815	0	3456	18:42	0	76.33	18.65
DVC	2035	0	1732	0	2319	19:38	0	58.50	5.29
Jharkhand	1037	0	845	0	1127	23:59	0	26.67	4.94
Odisha	3327	0	2184	0	3647	18:42	0	81.83	13.50
West Bengal	5524	0	3618	0	5591	18:42	0	118.63	30.63
Sikkim	86	0	47	0	88	17:43	0	1.27	-0.53
Region	15332	0	10241	0	15897	18:42	0	363.23	72

3.A. Regional Entities Generation:

Station/ Constituents	Inst.Capacity (MW)	18:00 Hrs Peak MW	14:00 Hrs Off Peak MW	Day Peak		Day Energy		AVG. MW
				MW	Hrs	SCHD (MU)	ACT (MU)	
Farakka STPS - I & II(3*200+2*500)	1600	1265	931	1341	18:51	25.44	25.57	1065
Farakka STPS - III(500)	500	405	334	419	11:37	8.50	8.60	358
Kahalgaon STPS - I(4*210)	840	733	725	785	07:05	16.45	16.27	678
Kahalgaon STPS - II(3*500)	1500	1155	1334	1429	07:19	29.27	29.38	1224
Barh STPS - I & II (2*660)	1320	1213	723	1235	20:34	23.10	22.90	954
Talcher STPS - I(2*500)	1000	461	469	481	21:40	10.87	10.90	454
Talcher STPS - II(4*500)	2000	1874	1869	1908	03:30		45.31	1888
<b>Sub Total Thermal</b>	<b>6760</b>	<b>5232</b>	<b>4516</b>			<b>113.64</b>	<b>113.62</b>	
NHPC								
Teesta(3*170)	510	512	165	525	18:24	4.06	4.16	173
Rangit(3*20)	60	41	19	42	17:44	0.58	0.58	24
<b>Sub Total Hydro</b>	<b>570</b>	<b>553</b>	<b>184</b>			<b>4.64</b>	<b>4.74</b>	
BHUTAN								
Kurichu(4*15)	60	22	22	22	00:00	0.14	0.09	4
Tala(6*170)	1020	176	239	251	23:33	4.92	5.00	209
Chukha(4*84)	336	176	239	251	23:33	1.15	1.04	43
Dagachu(2*63)	126	51	42	65	20:48	1.05		0
<b>Sub Total Hydro</b>	<b>1542</b>	<b>425</b>	<b>542</b>			<b>7.27</b>	<b>6.13</b>	<b>256</b>
IPP								
MPL(2*525)	1050	909	997	1007	13:00	20.55	21.24	885
APNRL(270*2)	540	236	239	371	00:00	5.81	6.41	267
GMR(3*350)	1050	323	317	344	00:35	7.70	7.67	320
JITPL(2*600)	1200	574	562	592	12:31	12.73	12.83	535
<b>Sub Total IPP Thermal</b>	<b>3840</b>	<b>1145</b>	<b>1236</b>			<b>46.79</b>	<b>48.15</b>	<b>2006</b>
Chuzachen HEP(2*55)	110	59	0	61	17:07	0.47	0.48	20
Jorethang HEP(2*48)	96					0.23	0.53	22
<b>Sub Total IPP Hydro</b>	<b>206</b>	<b>59</b>	<b>0</b>			<b>0.70</b>	<b>1.01</b>	<b>42</b>
Solar								
Talcher NTPC Solar	10						0.04	2
INFIRM							12.74	531
<b>Total Regional Entities</b>	<b>12918</b>	<b>7415</b>	<b>6478</b>			<b>173.04</b>	<b>186.44</b>	

3.B. State Entities Generation:

Station/ Constituents	Inst.Capacity (MW)	18:00 Hrs Peak MW	14:00 Hrs Off Peak MW	Day Peak		Day Energy (MU)	AVG. MW
				MW	Hrs		
Baruni TPS(2*110)	220	0	0	0	00:00	0.75	31
Muzaffarpur TPS(2*110)	220	1	1	1	00:00	0.00	0
<b>Thermal (Total)</b>	<b>440</b>	<b>1</b>	<b>1</b>	<b>-</b>	<b>-</b>	<b>0.75</b>	
<b>Hydro (Total)</b>	<b>45</b>	<b>0</b>	<b>0</b>			<b>0.00</b>	
<b>Others (Total)</b>	<b>14</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>00:00</b>		
<b>Total BIHAR</b>	<b>498</b>	<b>1</b>	<b>1</b>			<b>0.75</b>	
JHARKHAND							
Patratu TPS(4*50+2*100+4*110)	840	60	60	60	00:00	1.59	66
Tenughat TPS(2*110)	420	172	172	175	20:50	4.11	171
<b>Thermal (Total)</b>	<b>1260</b>	<b>232</b>	<b>232</b>			<b>5.70</b>	<b>237</b>
Subernrekha (2*65)	130	0	0	0	00:00	0.00	0
<b>Hydro (Total)</b>	<b>130</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>00:00</b>	<b>0.00</b>	<b>0</b>
CPP IMPORT						1.34	56
<b>Total JHARKHAND</b>	<b>1390</b>	<b>232</b>	<b>232</b>			<b>7.04</b>	

	Station/ Constituents	Inst.Capacity (MW)	18:00 Hrs Peak MW	14:00 Hrs Off Peak MW	Day Peak MW Hrs		Day Energy (MU)	AVG. MW
	DVC	Chandrapura TPS(3*140+2*250)	920	513	676	706	14:28	14.76
Bokaro'B TPS(3*210)		630	146	140	190	12:17	3.79	158
Waria TPS(140+210)		350	0	0	0	00:00	4.42	184
Mejia TPS(4*210+2*250)		1340	569	575	652	17:50	14.95	623
Mejia'B TPS(2*500)		1000	817	752	915	18:30	19.60	817
Durgapur STPS (2*500)		1000	791	783	983	08:31	19.73	822
Koderma TPS(500)		500	397	389	448	08:22	9.92	413
Raghunathpur TPS		600	0	0	0	00:00	0.00	0
<b>Thermal (Total)</b>		<b>6340</b>	<b>3231</b>	<b>3314</b>			<b>87.18</b>	
Maithon(2*20+23.2)		63	9	1	11	20:59	0.06	3
Panchet(2*40)		80	0	0	20	19:12	0.04	2
Tilaiya(2*2)		4	0	0	0	00:00	0.10	4
<b>Hydro (Total)</b>		<b>147</b>	<b>9</b>	<b>1</b>			<b>0.20</b>	
<b>Others (Total)</b>		<b>0</b>	<b>0</b>	<b>0</b>	0	00:00	<b>0.00</b>	0
<b>Total DVC</b>	<b>6487</b>	<b>3241</b>	<b>3314</b>			<b>87.38</b>		
ODISHA	Talcher TPS(4*62.5+2*110)	470	336	326	340	11:16	8.64	360
	IB Valley TPS(2*110)	420	378	387	402	11:46	9.36	390
	<b>Thermal (Total)</b>	<b>890</b>	<b>714</b>	<b>713</b>			<b>18.00</b>	
	Burla(2*49.5+3*37.5+2*32)	276	61	0	64	18:01	0.47	20
	Chipilima(3*24)	72	17	17	17	12:27	0.37	15
	Balimela(2*75+6*60)	510	201	42	340	11:36	3.89	162
	Rengali(5*50)	250	97	1	107	18:22	0.12	5
	Upper Kolab(4*80)	320	24	0	83	19:36	0.06	3
	Indravati(4*150)	600	105	0	290	18:05	1.34	56
	Machkund Share	57	-2	-2	-2	00:00	-0.05	-2
	<b>Hydro (Total)</b>	<b>2085</b>	<b>503</b>	<b>57</b>			<b>6.21</b>	
	<b>Total CPPGR Import</b>	<b>5173</b>	<b>918</b>	<b>800</b>	1715	22:52	23.76	990
	<b>Others</b>	<b>0</b>	<b>0</b>	<b>0</b>	0	00:00	0.00	0
	<b>Total Odisha</b>	<b>2975</b>	<b>1216</b>	<b>770</b>			<b>47.97</b>	
WEST BENGAL	Santalalih TPS(2*250)	500	360	360	360	00:00	9.36	390
	Bandel TPS(4*82.5+210)	540	270	193	275	18:00	5.00	208
	Kolaghat TPS(6*210)	1260	457	452	463	19:49	11.90	454
	Bakreswar TPS(5*210)	1050	579	421	582	19:35	11.06	461
	DPL TPS(3*75+110+300)	635	226	228	236	13:02	6.12	214
	SAGARDIGHI TPS(2*300)	600	239	223	258	04:19	5.47	228
	<b>Thermal (Total)</b>	<b>4585</b>	<b>2131</b>	<b>1878</b>			<b>42.78</b>	
	Purulia PSP(G)(4*225)	900	428	8	459	19:02	2.27	94
	Purulia PSP(P)		0	0	0	05:51	-2.91	-121
	Jaldhaka(3*9+2*4)	35	25	25	25	00:00	0.60	25
	Ramam(4*12.5)	50	18	18	18	17:52	0.43	18
	Tista(9*7.5)	68	28	28	28	00:00	0.66	28
	<b>Hydro (Total)</b>	<b>1053</b>	<b>498</b>	<b>78</b>			<b>3.95</b>	165
	<b>Total CPPWB Import</b>	<b>631</b>	<b>657</b>	<b>469</b>	671	18:40	11.13	464
<b>Others</b>	<b>12</b>	<b>0</b>	<b>0</b>	0	00:00	0.00	0	
<b>Total WEST BENGAL</b>	<b>5649</b>	<b>2629</b>	<b>1957</b>			<b>57.87</b>	2411	
CESC	Budge-Budge TPS(3*250)	750	484	504	518	09:16	11.76	490
	Titagarh TPS(4*60)	240	0	0	0	00:00	0.00	0
	Southern TPS(2*67.5)	135	2	2	3	07:52	0.05	2
	New Cossipore TPS(2*30+2*50)	160	0	0	0	00:00	0.00	0
	<b>Thermal (Total)</b>	<b>1285</b>	<b>486</b>	<b>506</b>			<b>11.81</b>	492
	<b>Others</b>	<b>0</b>	<b>0</b>	<b>0</b>	0	00:00	0.00	0
<b>Total CESC</b>	<b>1285</b>	<b>486</b>	<b>506</b>			<b>11.81</b>	492	
<b>Total ISGS &amp; IPP Thermal</b>	<b>10600</b>	<b>6377</b>	<b>5752</b>			<b>161.77</b>	6741	
<b>Total State Thermal</b>	<b>14800</b>	<b>6795</b>	<b>6644</b>			<b>166.22</b>	6926	
<b>Total CPP Import</b>	<b>5804</b>	<b>1575</b>	<b>1269</b>			<b>34.89</b>	1454	
<b>Total ISGS &amp; IPP Hydro</b>	<b>2318</b>	<b>1038</b>	<b>726</b>			<b>12</b>	495	
<b>Total State Hydro</b>	<b>3459</b>	<b>1010</b>	<b>136</b>			<b>10.36</b>	432	
<b>Total Others</b>	<b>25</b>	<b>0</b>	<b>0</b>			<b>0.00</b>	0	
Net Inter Regional Exchange [Import(+ve)/Export(-ve)]			3751	6240			-79.16	5068
<b>Regional Total (Gross)</b>	<b>36981</b>	<b>20546</b>	<b>20768</b>	<b>0</b>	<b>0</b>	<b>305.96</b>	<b>21115</b>	

\* 765 KV Volatge Range



4.A. INTER-REGIONAL EXCHANGES (Import=(+ve) /Export =(-ve))

Sl No	Element	18:00 Hrs Peak	14:00 Hrs Off Peak	Maximum Interchange (MW)		Import in MU	Export in MU	NET
		MW	MW	Import (MW)	Export (MW)			
<b>Import/Export NR from ER</b>								
1	765 KV GAYA-VARANASI D/C	168	385	0	428	0.00	-13.43	-13.43
2	765 KV SASARAM-FATEHPUR	-74	167	-93	197	0.00	-1.18	-1.18
3	765 KV GAYA-BALIA	153	305	0	360	0.00	-6.68	-6.68
4	HVDC LINK PUSAULI B/B	344	343	0	348	0.00	-8.28	-8.28
5	400 KV PUSAULI-SARNATH	272	236	0	273	0.00	0.00	0.00
6	400 KV PUSAULI-ALLAHABAD	68	99	0	108	0.00	0.00	0.00
7	400 KV MUZAFFARPUR-GORAKHPUR	146	515	-3	535	0.00	-9.03	-9.03
8	400 KV PATNA-BALIA	633	575	0	939	0.00	-16.92	-16.92
9	400 KV BIHARSHARIF-BALIA	-8	231	-26	286	0.00	-4.73	-4.73
10	400 KV BARH - GORAKHPUR - D/C	457	441	0	550	0.00	-11.19	-11.19
11	400 KV BIHARSHARIF - VARANASI D/C			-35	0	0.00	-2.35	-2.35
12	220 KV PUSAULI-SAHUPURI	155	115	0	167	0.00	-2.95	-2.95
13	132 KV SONE NAGAR-RIHAND	0	0	0	0	0.57	0.00	0.57
14	132 KV GARWAH-RIHAND	-35	-35	-35	0	0.85	0.00	0.85
15	132 KV KARMANASA-SAHUPURI	0	0	0	0	0.00	0.00	0.00
16	132 KV KARMANASA-CHANDAULI					0.00	0.00	0.00
<b>Sub Total NR</b>		<b>2065</b>	<b>3593</b>	<b>0</b>	<b>3811</b>	<b>1</b>	<b>-77</b>	<b>-75.31</b>
<b>Import/Export WR from ER</b>								
1	765 KV JHARSUGUDA-DHARMAJAYAGARH D/C	4	401	-82	555	0.00	-7.05	-7.05
2	765 KV RANCHI-DHARMAJAYAGARH S/C	-160	99	-419	164	1.96	0.00	1.96
3	400 KV ROURKELA - RAIGARH ( SEL LILO BYPASS)	-30	62	-114	93	0.00	-0.73	-0.73
4	400 KV JHARSUGUDA-RAIGARH	-5	58	-89	98	0.00	-0.77	-0.77
5	400 KV IND BHARAT-RAIGARH	-9	37	-67	67	0.00	-0.50	-0.50
6	400 KV STERLITE-RAIGARH -II	119	191	0	265	0.00	-4.64	-4.64
7	400 KV RANCHI-SIPAT D/C	-89	28	-210	108	1.10	0.00	1.10
8	220 KV BUDHIPADAR-RAIGARH S/C	-10	58	-34	98	0.00	-0.73	-0.73
9	220 KV BUDHIPADAR-KORBA D/C	-101	-42	-119	14	1.26	0.00	1.26
<b>Sub Total WR</b>		<b>-281</b>	<b>892</b>	<b>-965</b>	<b>1175</b>	<b>4</b>	<b>-14</b>	<b>-10.09</b>
<b>Import/Export SR from ER</b>								
1	GAZUWAKA B/B	277	277	0	280	0.00	-13.50	-13.50
2	TALCHER-KOLAR BIPOLE	1566	1665	0	1676	0.00	-32.69	-32.69
3	TALCHER STG - II I/C	357	385	0	391	12.61	0.00	13
4	220 KV BALIMELA-UPPER-SILERRU S/C	0	0	-1	0	0.00	0.00	0.00
<b>Sub Total SR</b>		<b>233</b>	<b>340</b>	<b>-392</b>	<b>381</b>	<b>12.61</b>	<b>-13.50</b>	<b>-0.88</b>
<b>Import/Export NER from ER</b>								
1	400 KV BINAGURI-BONGAIGAON Q/C	-177	-426	-458	4	6.40	0.00	6.40
2	220 KV ALIPURDUAR-SALAKATI D/C					0.81	0.00	0.81
3	132 KV GEYLEGPHU - SALAKATI					0.00	0.00	0.00
4	132 KV DEOTHANG - RANGIA					0.00	-0.09	-0.09
<b>Sub Total NER</b>		<b>-161</b>	<b>-472</b>	<b>-497</b>	<b>30</b>	<b>7</b>	<b>0</b>	<b>7.12</b>
<b>TOTAL IR EXCHANGE</b>		<b>3751</b>	<b>6240</b>	<b>0</b>	<b>6590</b>	<b>26</b>	<b>-105</b>	<b>-79.16</b>

4.B. Inter Regional Schedule & Actual Exchange (Import=(+ve) /Export =(-ve)) in MU

	ISGS/(LT+MT) Schedule	BILT Schedule	PX Schedule	Total IR Schedule	Total IR Actual	NET IR UI
ER-NR	-44.67	-1.91	-1.47	-45.86	-75.31	-29.45
ER-WR	-14.14	-2.30	5.65	-30.54	-10.09	20.45
ER-SR	3.88	-0.40	-6.25	-0.87	-0.88	-0.01
ER-NER	-3.53	-3.41	2.87	-4.18	7.12	11.31
<b>TOTAL</b>	<b>-58.45</b>	<b>-8.02</b>	<b>0.80</b>	<b>-81.45</b>	<b>-79.16</b>	<b>2.29</b>

5. Transnational Exchange (Import=(+ve) /Export =(-ve))

	Scheduled Energy Exchange(In MU)	Actual Energy Exchange (In MU)	Day Peak (MW)	Day Min (MW)	Day Average (MW)	Nepal Exchange	Energy Exchange (In MU)	Day Peak (MW)	Day Min (MW)	Day Average (MW)
Bhutan	7.27	6.13	313		256	Bihar	-3.53	-185	0	-147
Nepal	1.91	-5.44	-268	0	-227	132 kv Mzf - Dhalkebar	-1.91	-83	0	-80
Bangladesh	10.24	-10.19	-483	-338	-425					

6. Frequency Profile

RANGE(Hz)	<49.2	<49.7	<49.8	<49.9	49.9 - 50.05	50.05 - 50.1	>50.05	>50.2
%	0.00	0.00	0.02	7.07	72.58	13.80	20.35	0.29

<-----Frequency (Hz)----->

Freq	Maximum		Minimum		Average Frequency	Freq Variation Index	Standard deviation	Freq. in 15 mnt blk		Freq. Dev Index (% of Time)
	Time	Time	Time	Time				Max.	Min.	
50.25	17:02		49:79	07:19	50.00	0.05	0.07	50.13	49.88	27.42

7. Voltage Profile

Station	Maximum		Minimum		Voltage (in %)			Voltage Dev. Index (% of Time)
	Voltage (KV)	Time	Voltage (KV)	Time	<380/728 kv	380<420kv 728<800kv	>420/800 kv	
Ranchi New	788	02:02	767	09:20	0.00	100.00	0.00	0.00
Jamshedpur	431	01:45	421	17:40	0.00	100.00	100.00	100.00
Muzaffarpur	411	00:00	391	18:09	0.00	100.00	0.00	0.00
Bihar Sariff	418	02:03	401	18:08	0.00	100.00	0.00	0.00
Binaguri	422	02:03	404	17:42	0.00	79.65	20.35	20.35
Jeerat	428	02:16	408	17:41	0.00	50.69	49.31	49.31
Rourkela	417	01:49	409	17:40	0.00	100.00	0.00	0.00
Jeypore	408	01:51	389	17:48	0.00	100.00	0.00	0.00
Koderma	422	01:47	411	17:40	0.00	90.83	9.17	9.17
Maithon	418	01:44	410	17:40	0.00	100.00	0.00	0.00
Teesta	417	07:03	399	19:13	0.00	100.00	0.00	0.00
Rangpo	415	07:06	398	19:13	0.00	100.00	0.00	0.00

8.Short term Open Access Transactions

WHEELING THROUGH ER	BILATERAL
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Name of the Transaction	MU	MAX (MW)	MIN (MW)	Name of the Transaction	MU	MAX (MW)	MIN (MW)
WR(KWPCL)-SRJ-GI(TELANGANA)(ER)-ADANI ENTERPRISES LIMITED-22908	0.025	25	25	<b>BSEB TOTAL EXPORT</b>	<b>0.0</b>		
WR(DHARIWAL INFRA LTD)-NRI(NPC)(ER)-NPC-37824/S	0.746	34	20	GMR(GMR KEL)-BSEB(BSPHCL)-GMRKEL-12890/C	2.352	98	98
NR(BYPL)-NER(MePDCL)(ER)-PTC India Ltd.-2415 F	0.72	40	0	JITPL(JITPL)-BSEB(BSPHCL)-TPTCL-12700 A	0.9	150	0
NR(NDPL)-NER(MePDCL)(ER)-MPPL-2416 F	0.6	25	25	WR(INSTPP)-BSEB(BSPHCL)-PTC India Limited-12701 A	1.2	200	0
NR(BYPL)-NER(MePDCL)(ER)-MPPL-2417 F	0.6	25	25	WR(JPL)-BSEB(BSPHCL)-PTC India Limited-12702 A	0.3	50	0
NR(PSEB)-NER(APPCL)(ER)-APPCL-2421/F	0.5	100	0	NR(BYPL)-BSEB(BSPHCL)-NVVN-12823 F	0.3042	50.7	0
				<b>BSEB TOTAL IMPORT</b>	<b>5.1</b>		
				<b>JSEB TOTAL EXPORT</b>	<b>0.0</b>		
				APN(APNRL #1 & 2)-JSEB(JUVNL)-JSEB-12830 F	2.2694325	121.97	85.59
				<b>JSEB TOTAL IMPORT</b>	<b>2.3</b>		
				DV(TISCO)-WR(TSL)-TSL-33015	0.12	5	5
				<b>DVC TOTAL EXPORT</b>	<b>0.1</b>		
				<b>DVC TOTAL IMPORT</b>	<b>0.0</b>		
				<b>GRIDCO TOTAL EXPORT</b>	<b>0.0</b>		
				JITPL-GRIDCO-JITPL-12891/C	0.82	35	30
				WR(NSPCL)-GRIDCO(SAIL RSP)-SAIL RSP-12822 F	0.324	13.5	13.5
				<b>GRIDCO TOTAL IMPORT</b>	<b>1.1</b>		
				WBSEB(CESC)-NER(MSPDCL)-MPPL-2412 A	0.161	23	0
				WBSEB(CESC)-NER(MePDCL)-MPPL-2413 A	0.350	50.000	0.000
				WBSEB(CESC)-NR(HPSEB)-MPPL-37821/D	0.175	25.000	25.000
				<b>WESTBENGAL TOTAL EXPORT</b>	<b>0.7</b>		
				<b>WESTBENGAL TOTAL IMPORT</b>	<b>0.0</b>		
				<b>SIKKIM TOTAL EXPORT</b>	<b>0.0</b>		
				GRIDCO(Gridco)-SIKKIM Govt. Of Sikkim)-APPCL-12576 A	0.36576	15.24	15.24
				<b>SIKKIM TOTAL IMPORT</b>	<b>0.4</b>		
				<b>STERLITE TOTAL EXPORT</b>	<b>0.0</b>		
				<b>STERLITE TOTAL IMPORT</b>	<b>0.0</b>		

9. System Reliability Indices (Violation of TTC and ATC)

(i) % age of times N-1 Criteria was violated in the inter - regional corridors

ER-NR & NER (Kahalgaon-Banka) (500mW)	0.00%
W3-ER (MPL-Maithon) (550mW)	0.00%

(i) % age of times ATC violated on the inter-regional corridors

	EXPORT	IMPORT
NR	0.00%	0.00%
SR	0.00%	0.00%
NER	0.00%	0.00%
WR	0.00%	0.00%

(iii) % age of times Angular Difference on important Buses was beyond permissible limits (30 degree)

Rourkela-Jamshedpur	0.00%
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10. Significant events (If any):

11. System Constraints (If any)

12. Weather Condition:

Shift In Charge

पावर सिस्टम ऑपरेशन कार्पोरेशन लिमिटेड

(पावरग्रिड की पूर्ण स्वामित्व प्राप्त सहायक कंपनी)

उत्तर-पूर्वी क्षेत्रीय भार प्रेषण केंद्र



Power Supply Position in North-Eastern Region for 18-Dec-16  
Date of Reporting 19-Dec-16

I. Regional Availability/Demand:

Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				Day Energy (Net MU)	
Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage	Requirement	Freq* (Hz)	Demand Met	Shortage
2191	37	2227	50.14	1271	15	1286	50.11	36.97	0.36

\* Half hourly (two 15 minutes block-one block each before and after the designated time) average frequency

II. A. State's Load Details (At States periphery) in MUs:

State	State's Control Area Generation (Net MU)					Drawal Schedule (Net MU)	Actual Drawal (Net MU)	UI (Net MU)	Consumption (Net MU)	Shortages * (MU)
	Thermal	Hydro	Solar	Wind	Total					
ARUNACHAL PRADESH	0.00	0.00	0.00	0.00	0.00	1.79	2.00	0.20	2.00	0.03
ASSAM	2.91	0.40	0.00	0.00	3.31	16.73	18.10	1.37	21.41	0.24
MANIPUR	0.00	0.00	0.00	0.00	0.00	2.47	2.20	-0.27	2.20	0.04
MEGHALAYA	0.00	0.87	0.00	0.00	0.87	4.07	3.84	-0.23	4.72	0.00
MIZORAM	0.00	0.05	0.00	0.00	0.05	1.43	1.26	-0.17	1.30	0.02
NAGALAND	0.00	0.06	0.00	0.00	0.06	1.88	1.77	-0.10	1.83	0.02
TRIPURA	3.40	0.14	0.0208	0.00	3.57	1.43	1.66	0.22	3.50	0.01
<b>Total</b>	<b>6.31</b>	<b>1.52</b>	<b>0.02</b>	<b>0.00</b>	<b>7.86</b>	<b>29.80</b>	<b>30.83</b>	<b>1.03</b>	<b>36.97</b>	<b>0.36</b>

\* Shortage furnished by the respective constituent. # Tripura Demand excludes Branglade 1.72 MU

II. B. State's Demand Met in MWs:

State	Evening Peak (19:00 Hrs) MW				Off Peak (03:00 Hrs) MW				# Max(hourly) Demand Met of Day (MW)	Time
	Demand Met	Shortage	UI	STOA/PX transaction	Demand Met	Shortage	UI	STOA/PX transaction		
ARUNACHAL PRADESH	88	3	-28	0	74	0	17	12	89	19:38:00
ASSAM	1315	22	195	253	792	15	-3	-54	1330	17:59:19
MANIPUR	146	5	1	-15	66	0	0	-32	148	17:05:02
MEGHALAYA	263	0	63	98	144	0	-19	110	264	18:56:19
MIZORAM	73	3	4	-12	38	0	-22	0	74	17:04:04
NAGALAND	97	3	9	10	63	0	-6	10	98	17:30:01
TRIPURA	208	0	49	-35	94	0	-30	-2	208	18:45:47
<b>Total</b>	<b>2191</b>	<b>37</b>	<b>293</b>	<b>298</b>	<b>1271</b>	<b>15</b>	<b>-63</b>	<b>45</b>	<b>2201</b>	<b>17:58:19</b>

\* STOA figures are at sellers boundary & PX figures are at regional boundary.

III. Regional Entities :

Station/ Constituent	Inst. Capacity	Declared	Peak MW (At 19:00 Hrs)	Off Peak MW (At 03:00 Hrs)	Energy	Average	Schedule	UI
	(Effective) MW	Capacity(MW)	(Gross)	(Gross)	(Net MU)	MW	Net MU	Net MU
<b>A. NEEPCO</b>								
KHANDONG (2x25)	50	0	46	0	0.40	17	0.37	0.02
KOPILI STAGE-II (Khandong) (1x25)	25	0	0	0	0.00	0	0.00	0.00
KOPILI (4x50)	200	0	187	84	2.92	122	2.77	0.15
AGBPP (Kathalguni)- (GT+ST) (6x33.5 + 3x30)	291	182	185	162	4.33	181	4.08	0.25
AGTCCPP (RC NAGAR) (4x21+2x23)	130	116	110	101	2.71	113	2.62	0.09
DOYANG (3x25)	75	0	66	0	0.25	10	0.23	0.02
RANGANADI (3x135)	405	0	238	0	1.27	53	1.20	0.07
<b>Sub Total (A)</b>	<b>1176</b>	<b>298</b>	<b>832</b>	<b>347</b>	<b>11.89</b>	<b>495</b>	<b>11.29</b>	<b>0.60</b>
<b>B. NHPC</b>								
LOKTAK (3x35)	105	0	102	102	2.52	105	2.45	0.07
<b>Sub Total (B)</b>	<b>105</b>	<b>0</b>	<b>102</b>	<b>102</b>	<b>2.52</b>	<b>105</b>	<b>2.45</b>	<b>0.07</b>
<b>C. OTPCL</b>								
PALATANA CCPP (2X363.3)	726.6	356	360	302	8.65	360	8.31	0.34
<b>Sub Total ©</b>	<b>726.6</b>	<b>356</b>	<b>360</b>	<b>302</b>	<b>8.65</b>	<b>360</b>	<b>8.31</b>	<b>0.34</b>
<b>D.NTPC</b>								
BqTPP	250	235	182	170	4.48	187	4.43	0.05
<b>Sub Total ©</b>	<b>250</b>	<b>235</b>	<b>182</b>	<b>170</b>	<b>4.48</b>	<b>187</b>	<b>4.43</b>	<b>0.05</b>
<b>D. Total Regional Entities (A-C)</b>	<b>2258</b>	<b>890</b>	<b>1476</b>	<b>921</b>	<b>27.55</b>	<b>1148</b>	<b>26.48</b>	<b>1.06</b>

E. State Entities	Station	Effective Installed Capacity (MW)	Peak MW	Off Peak MW	Energy(MU)	Average(Sentout MW)
ARUNACHAL PRADESH	Thermal (Total)	0	0	0.00	0.00	0
	Total Hydro	0	0	0.00	0.00	0
	Total Micro Hydel	63	0	0.00	0.00	0
	Total Diesel	16	0	0.00	0.00	0
	Total Solar	0.265	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
	<b>Total Arunachal Pradesh</b>	<b>79</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>
ASSAM	LTPS(Thermal) (4x15+3x20+1x37.2)	157.2	90	60.30	1.56	65
	NTPS(Thermal) (20+21+21+11+24+ 22)	119	60	59.20	1.35	56
	Adamtilla(Thermal) (3*3) + CTPS(2*30)	69	1	1.40	0.00	0
	Baskandi(Thermal) (3*3.5+1*5)	15.5	0	0.00	0.00	0
	KLHEP(Hydro) (2*50)	100	43	0.00	0.37	16
	Mini Hydel	4	1	1.00	0.02	1
	Thermal (Total)	361	151	120.90	2.91	121
	Total Hydro	104	44	0.90	0.40	17
	Total Solar	0	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
	<b>Total Assam</b>	<b>465</b>	<b>195</b>	<b>121.80</b>	<b>3.31</b>	<b>138</b>
MANIPUR	Thermal (Total)	0	0	0.00	0.00	0
	Total Hydro	0	0	0.00	0.00	0
	Total Micro Hydel	0.6	0	0.46	0.00	0
	Total Diesel	42.27	0	0.00	0.00	0
	Total Solar	0	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
	<b>Total Manipur</b>	<b>43</b>	<b>0</b>	<b>0.00</b>	<b>0.00</b>	<b>0</b>
MEGHALAYA	UMIUM ST-I (4*9)	36	8	0.00	0.11	5
	UMIUM ST-II (2*10)	20	5	0.00	0.06	2
	UMIUM ST-III (2*30)	60	24	0.00	0.17	7
	UMIUM ST-IV (2*30)	60	0	0.00	0.09	4
	UMTRU (4*2.8)	11.2	0	0.00	0.21	9
	SONAPANI (1*1.5)	1.5	1	0.00	0.02	1
	MLHEP (3*42)	126	35	0.00	0.22	9
	Total Hydro	315	73	0.00	0.88	37
	Thermal (Total)	107	0	0.00	0.00	0
	Total Solar	0	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
<b>Total Meghalaya</b>	<b>422</b>	<b>73</b>	<b>0.00</b>	<b>0.88</b>	<b>37</b>	
MIZORAM	BAIRABI (4X5.73)	22.92	0	0.00	0.00	0
	Total Hydro (Serlui B+Mini Hydro)	30.00	0	0.00	0.05	2
	Total Diesel	0.5	0	0.00	0.00	0
	Total Solar	0.10	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
<b>Total Mizoram</b>	<b>54</b>	<b>0</b>	<b>0.00</b>	<b>0.05</b>	<b>2</b>	
NAGALAND	LIKHIIMRO (3*8)	24	20	0.00	0.06	2
	Total Hydro	24	20	0.00	0.06	2
	Total Solar	0	0	0.00	0.00	0
	Total Wind	0	0	0.00	0.00	0
<b>Total Nagaland</b>	<b>24</b>	<b>20</b>	<b>0.00</b>	<b>0.06</b>	<b>2</b>	
TRIPURA	ROKHIA(Thermal) (6x8+3x21)	111	55	54.50	1.30	54
	BARAMURA(Thermal) (1x6.5+2x5+2*21)	58.5	21	21.30	0.51	21
	Monarchak(Thermal)	67.0	67	48.50	1.59	66
	Gumati(Hydro) (3*5)	15	7	6.50	0.14	6
	Thermal (Total)	237	143	124.30	3.40	142
	Total Hydro	15	7	6.50	0.14	6
	Total Diesel	1	0	0.00	0.00	0
	Total Solar(Monarchak 5)	5	0	0.00	0.02	1
Total Wind	0	0	0.00	0.00	0	
<b>Total Tripura</b>	<b>258</b>	<b>149</b>	<b>130.80</b>	<b>3.57</b>	<b>149</b>	
<b>Total State Control Area Generation</b>		<b>1344</b>	<b>437</b>	<b>252.60</b>	<b>7.86</b>	<b>328</b>
<b>Total State control area generation (excluding hydro)</b>		<b>662.07</b>	<b>293.40</b>	<b>245.20</b>	<b>6.34</b>	<b>264</b>
<b>Total regional entitries generation (excluding hydro)</b>		<b>1148</b>	<b>655</b>	<b>565</b>	<b>20.18</b>	<b>654</b>
<b>Total Regional generation (excluding Hydro)</b>		<b>1810</b>	<b>948</b>	<b>810</b>	<b>26.52</b>	<b>918</b>
<b>IV. Total Hydro Generation:</b>						
<b>Regional Entities Hydro</b>		<b>860</b>	<b>639</b>	<b>186</b>	<b>7.37</b>	<b>307</b>
<b>State Control Area Hydro</b>		<b>551</b>	<b>144</b>	<b>7</b>	<b>1.53</b>	<b>64</b>
<b>Total Regional Hydro</b>		<b>1411</b>	<b>783</b>	<b>193</b>	<b>8.89</b>	<b>371</b>
<b>Infirm Generation in the Region</b>					<b>0.00</b>	
<b>Total Generation availability in the Region</b>		<b>3228</b>	<b>1731</b>	<b>1004</b>	<b>35.4</b>	<b>1288.6</b>

**V(A). Inter Regional Exchange [Import (-ve)/Export (+ve)] [Linkwise]**

Element	Peak(19:00 Hrs) MW	Off Peak(03:00 Hrs) MW	Maximum Interchange (MW)		Energy (MU)		Net Energy
			Import	Export	Import	Export	
400 kV Binaguri-Bongaigaon I	88	198	0	216	0.00	3.27	3.27
400 kV Binaguri-Bongaigaon II	88	198	0	216	0.00	3.26	3.26
400 kV Binaguri-Bongaigaon III	0	0	0	0	0.00	0.00	0.00
400 kV Binaguri-Bongaigaon IV	0	0	0	0	0.00	0.00	0.00
220 kV Birpara-Salakati I	1	24	-6	33	0.00	0.42	0.42
220 kV Birpara-Salakati II	1	24	-6	33	0.00	0.42	0.42
132 kV Rangia-Deohtang / Salakati-Gelephu (India-+/- 800 kV Biswanath charali - Agra	2	2	-2	4	-0.09	0.00	-0.09
<b>Total IR Exch</b>	-500	500	0	500	-11.34	0.00	-11.34
		946	-14	1002	-11.43	7.37	-4.06

**V(B). Inter Regional Schedule & Actual Exchanges [Import (+ve)/Export (-ve)] [Corridor wise]**

ISGS/LT Schedule (MU)		Bilateral Schedule (MU)		Power Exchange Shdl (MU)		Wheeling (MU)	
ER	Total	Through ER	Through ER	Through ER	Through ER	Through ER	Through ER
	0.00		0.00		0.00		
Total IR Schedule (MU)		Total IR Actual (MU)		Net IR UI (MU)			
Through ER	Total	Through ER	Total	Through ER	Total		
	-4.18						

**VI. Frequency Profile <----- % of Time Frequency ----->**

<49.2	<49.7	<49.9	<50.0	49.9-50.05	50.05-50.10	50.10-50.20	>50.20	>50.50	
0.00	0.00	0.02	7.07	56.40	72.58	13.80	6.31	0.29	
Maximum		Minimum		Average Frequency	Frequency Variation Index	Std. Dev.	Frequency in 15 Min Block		
50.25	17:02:00	49.79	07:00:00	50.00	0.045	0.067	50.130	49.888	
Maximum		Minimum		Voltage (in % of Time)					
Voltage(KV)		Time		Time		<380 kV	<390 kV	>420 kV	>430 kV
Bongaigaon	400	411	05:17	390	17:42	0.0	0.0	0.0	0.0
Balipara	400	418	22:01	392	17:42	0.0	0.0	0.0	0.0
Misa	400	425	05:18	401	17:38	0.0	0.0	15.9	0.0

**VII. Voltage profile 400 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage(KV)	Time	<380 kV	<390 kV	>420 kV	>430 kV
Bongaigaon	400	411	05:17	390	17:42	0.0	0.0	0.0	0.0
Balipara	400	418	22:01	392	17:42	0.0	0.0	0.0	0.0
Misa	400	425	05:18	401	17:38	0.0	0.0	15.9	0.0

**VIII. Voltage profile 220 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage(KV)	Time	<198 kV	<208 kV	>245 kV	>245 kV
Salakati	220	233	03:03	218	17:42	0.0	0.0	0.0	0.0
Dimapur	220	225	04:00	209	17:21	0.0	0.0	0.0	0.0
Mariani	220	238	05:01	228	17:40	0.0	0.0	31.8	0.0
Misa	220	226	01:46	216	17:16	0.0	0.0	0.0	0.0

**IX. Voltage profile 132 kV**

Station	Voltage Level (kV)	Maximum		Minimum		Voltage (in % of Time)			
		Voltage(KV)	Time	Voltage(KV)	Time	<110 kV	<120 kV	>135 kV	>145 kV
Jiribam	132	138	03:59	129	17:13	0.0	0.0	59.9	0.0
Hailong	132	137	05:24	130	16:54	0.0	0.0	0.0	0.0
Kahilipara	132	132	05:24	129	17:04	0.0	0.0	0.0	0.0
Aizawl	132	135	23:01	124	17:44	0.0	0.0	0.0	0.0
Kumarghat	132	136	03:57	129	17:09	0.0	0.0	8.3	0.0
Imphal	132	139	05:24	128	17:44	0.0	0.0	100.0	0.0
Khliehriat	132	139	05:18	131	17:42	0.0	0.0	66.4	0.0
Badarpur	132	138	05:17	131	17:24	0.0	0.0	59.8	0.0
Nirjuli	132	150	04:27	141	17:10	0.0	0.0	100.0	77.4

**X. Reservoir Parameters:**

Name of Reservoir	Parameters		Present Parameters		Last Year		Last day	
	FRL (m)	MDDL (m)	Level (m)	Energy (MU)	Level (m)	Energy (MU)	Inflow (m3/s)	Usage (m3/s)
Khandong	719.30	704.26	715.05	17.08	713.70	11.94	N/A	N/A
Kopili	609.60	592.83	605.20	64.70	600.75	36.10		
Loktak	769.00	766.20	768.47	244.00	768.25	183.00		
Umium	978.88	957.60	970.48	16.59	978.33	39.69		
Gumti	93.55	83.60	91.80	22.58	90.60	15.42		
Doyang	333.00	306.00	319.35	21.50	314.25	11.80		
Ranganadi	567.00	560.00	564.89	N/A	564.92	N/A		

\* NA: Not Available

**XI. System Constraints:**

NIL

**XII. Grid Disturbance / Any Other Significant Event:**

NIL

**XIV. Synchronisation of new generating units :**

NIL

**XV. Synchronisation of new 132/220 / 400 / 765 KV lines and energising of bus / substation :**

NIL

**XVI. Tripping of lines in pooling stations :**

NIL

**XVII. Complete generation loss in a generating station :**

NIL

Report for :

????? / SHIFT CHARGE ENGINEER