

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

Report for previous day

Date of Reporting

5-Nov-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	40837	49596	38891	19548	2288	151160
Peak Shortage (MW)	411	0	0	750	77	1238
Energy Met (MU)	874	1205	910	387	40	3416
Hydro Gen (MU)	161	42	68	58	9	338
Wind Gen (MU)	17	21	60	-----	-----	98
Solar Gen (MU)*	21.54	18.32	66.44	1.76	0.03	108
Energy Shortage (MU)	6.8	0.0	0.0	0.8	0.8	8.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	42235 18:16	56047 10:44	39114 18:49	19555 18:45	2276 17:49	153237 18:37

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	0.046	0.00	0.19	12.66	12.85	82.05	5.10

C. Power Supply Position in States

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)	Energy Shortage (MU)	
NR	Punjab	5014	0	113.0	18.3	-0.6	92	0.0	
	Haryana	5631	0	114.3	62.1	0.1	240	0.0	
	Rajasthan	10979	0	222.8	62.9	-0.3	361	0.0	
	Delhi	3222	0	64.6	42.4	-1.5	223	0.0	
	UP	14091	0	273.8	106.4	1.4	499	0.0	
	Uttarakhand	1708	0	32.8	20.4	-0.2	237	0.0	
	HP	1408	0	25.5	15.0	-0.2	107	1.0	
	J&K	1420	355	24.1	30.1	-15.2	85	5.7	
	Chandigarh	153	0	2.9	3.0	-0.1	13	0.0	
	WR	Chhattisgarh	3943	0	87.1	21.1	-1.1	209	0.0
Gujarat		15253	0	337.1	132.2	6.6	771	0.0	
MP		12595	0	267.7	158.6	-0.2	455	0.0	
Maharashtra		22763	0	481.4	160.6	3.3	724	0.0	
Goa		468	0	10.0	8.8	0.7	58	0.0	
DD		312	0	7.1	6.3	0.8	90	0.0	
DNH		677	0	5.4	15.0	-9.6	81	0.0	
Essar steel		467	0	9.6	9.5	0.1	234	0.0	
SR		Andhra Pradesh	8460	0	184.9	64.9	-0.5	539	0.0
		Telangana	8578	0	205.2	94.6	3.4	534	0.0
	Karnataka	9475	0	192.1	49.7	-0.7	369	0.0	
	Kerala	3374	0	64.3	38.8	0.3	166	0.0	
	Tamil Nadu	11873	0	256.6	124.2	-1.4	475	0.0	
	Pondy	309	0	6.5	6.5	-0.3	20	0.0	
	ER	Bihar	4499	0	80.1	75.6	1.3	190	0.0
DVC		2839	-500	62.1	-27.3	5.2	400	1.5	
Jharkhand		1015	0	23.3	16.9	0.4	120	0.0	
Odisha		4417	-250	91.8	36.6	4.2	280	-0.8	
West Bengal		7063	0	128.6	27.8	4.6	350	0.0	
Sikkim		86	0	1.1	1.1	0.0	20	0.0	
NER		Arumachal Pradesh	104	3	2.0	1.6	0.5	173	0.0
	Assam	1369	65	23.0	17.7	0.7	121	0.6	
	Manipur	152	2	2.1	2.4	-0.2	27	0.0	
	Meghalaya	280	0	5.2	3.2	-0.1	132	0.0	
	Mizoram	80	1	1.9	0.8	0.5	30	0.0	
	Nagaland	136	4	2.1	1.7	0.2	31	0.0	
	Tripura	228	1	3.8	2.3	-0.2	23	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.4	-2.0	-18.9
Day peak (MW)	407.3	-126.0	-913.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	88.1	-121.6	103.8	-72.2	1.1	-0.8
Actual(MU)	66.2	-120.5	101.0	-51.0	0.3	-4.0
O/D/U/D(MU)	-21.9	1.2	-2.8	21.2	-0.8	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5369	12572	7132	1960	356	27389
State Sector	8920	15390	6800	6425	50	37585
Total	14289	27962	13932	8385	406	64973

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Thermal (Coal & Lignite)	555	1189	514	413	5	2675
Hydro	161	42	68	58	9	338
Nuclear	24	30	41	0	0	95
Gas, Naptha & Diesel	27	48	25	0	29	130
RES (Wind, Solar, Biomass & Others)	55	41	169	2	0	267
Total	823	1349	816	473	43	3504

Share of RES in total generation (%)	6.70	3.01	20.70	0.38	0.07	7.61
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.26	8.28	34.01	12.72	21.06	19.96

H. Diversity Factor

All India Demand Diversity Factor	1.039
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Diversity factor = Sum of regional maximum demands / All India maximum demand

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

**INTER-REGIONAL EXCHANGES**

Date of Reporting : 5-Nov-18

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	205	112	1.4	0.0	1.4
2		SASARAM-FATEHPUR	S/C	303	0	4.4	0.0	4.4
3		GAYA-BALIA	S/C	100	167	0.0	0.6	-0.6
4	HVDC	ALIPURDUAR-AGRA	-	0	550	0.0	5.0	-5.0
5		PUSAULI B/B	S/C	0	397	0.0	9.8	-9.8
6	400 kV	PUSAULI-VARANASI	S/C	0	292	0.0	6.4	-6.4
7		PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.2	-3.2
8		MUZAFFARPUR-GORAKHPUR	D/C	131	204	0.0	1.0	-1.0
9		PATNA-BALIA	Q/C	0	585	0.0	10.7	-10.7
10		BIHARSHARIFF-BALIA	D/C	42	15	0.4	0.0	0.4
11		MOTIHARI-GORAKHPUR	D/C	0	295	0.0	5.5	-5.5
12		BIHARSHARIFF-VARANASI	D/C	232	0	2.9	0.0	2.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	146	0.0	3.0	-3.0
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	25	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>9.7</b>	<b>45.2</b>	<b>-35.5</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	460	0	26.4	0.0	26.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	280	431	0.0	2.3	-2.3
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	149	140	0.5	0.0	0.5
21		RANCHI-SIPAT	D/C	189	61	1.8	0.0	1.8
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	3.7	0.0	3.7
23		BUDHIPADAR-KORBA	D/C	217	0	0.0	0.0	0.0
<b>ER-WR</b>						<b>32.3</b>	<b>2.3</b>	<b>30.0</b>
<b>Import/Export of ER (With SR)</b>								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1929.0	0.0	36.2	-36.2
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	661.0	0.0	15.7	-15.7
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1973.0	0.0	34.9	-34.9
27	400 kV	TALCHER-I/C	D/C	0.0	692.0	6.1	0.0	6.1
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>86.8</b>	<b>-86.8</b>
<b>Import/Export of ER (With NER)</b>								
29	400 kV	BINAGURI-BONGAIGAON	D/C	0	547	0.0	5.9	-6
30		ALIPURDUAR-BONGAIGAON	D/C	184	449	0.0	3.4	-3
31	220 kV	ALIPURDUAR-SALAKATI	D/C	0	125	0.0	1.3	-1
<b>ER-NER</b>						<b>0.0</b>	<b>10.5</b>	<b>-10.5</b>
<b>Import/Export of NER (With NR)</b>								
32	HVDC	BISWANATH CHARIALI-AGRA	-	1	604	0.0	10.3	-10.3
<b>NER-NR</b>						<b>0.0</b>	<b>10.3</b>	<b>-10.3</b>
<b>Import/Export of WR (With NR)</b>								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	653	0.0	15.3	-15.3
34		V'CHAL B/B	D/C	241	0	6.1	0.0	6.1
35		APL -MHG	D/C	0	692	0.0	17.0	-17.0
36		GWALIOR-AGRA	D/C	264	557	0.0	11.1	-11.1
37	765 kV	PHAGI-GWALIOR	D/C	0	903	0.0	16.0	-16.0
38		JABALPUR-ORAI	D/C	483	82	7.3	0.0	7.3
39		GWALIOR-ORAI	S/C	441	0	8.8	0.0	8.8
40		SATNA-ORAI	S/C	0	1513	0.0	32.5	-32.5
41		ZERDA-KANKROLI	S/C	431	0	8.8	0.0	8.8
42	400 kV	ZERDA -BHINMAL	S/C	347	0	5.9	0.0	5.9
43		V'CHAL -RIHAND	S/C	495	0	11.2	0.0	11.2
44		RAPP-SHUJALPUR	D/C	477	0	4	0	4
45	220 kV	BADOD-KOTA	S/C	91	0	3.0	0.0	3.0
46		BADOD-MORAK	S/C	101	0	1.2	0.0	1.2
47		MEHGAON-AURAIYA	S/C	131	0	2.0	0.0	2.0
48	132kV	MALANPUR-AURAIYA	S/C	93	0	1.3	0.0	1.3
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>59.4</b>	<b>91.9</b>	<b>-32.5</b>
<b>Import/Export of WR (With SR)</b>								
50	HVDC	BHADRAWATI B/B	-	0	995	0.0	17.3	-17.3
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	355	1522	0.0	18.7	-18.7
53		WARDHA-NIZAMABAD	D/C	0	2017	0.0	34.4	-34.4
54	400 kV	KOLHAPUR-KUDGI	D/C	898	0	11.8	0.0	11.8
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	64	1.2	0.0	1.2
<b>WR-SR</b>						<b>13.1</b>	<b>70.4</b>	<b>-57.4</b>
<b>TRANSNATIONAL EXCHANGE</b>								
58		BHUTAN						<b>7.4</b>
59		NEPAL						<b>-2.0</b>
60		BANGLADESH						<b>-18.9</b>