

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

Report for previous day

Date of Reporting

15-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44218	47077	41468	17711	2401	152875
Peak Shortage (MW)	594	0	-33	126	42	729
Energy Met (MU)	918	1098	924	348	42	3330
Hydro Gen (MU)	120	24	60	29	7	241
Wind Gen (MU)	22	102	38	-----	-----	162
Solar Gen (MU)*	20.34	18.1	54.65	0.74	0.04	94
Energy Shortage (MU)	13.8	0.0	0.0	0.4	0.8	15.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44898 18:03	53080 10:02	45216 06:57	17870 18:25	2374 17:54	156003 08:54

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	0.041	0.00	0.07	9.27	9.34	79.16	11.50

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	5397	0	115.4	29.1	0.4	117	0.0	
	Haryana	6419	0	118.1	62.3	1.0	146	0.0	
	Rajasthan	11710	0	229.9	68.1	-0.8	457	0.0	
	Delhi	3707	54	65.3	49.2	0.0	216	0.1	
	UP	13124	0	267.6	111.8	0.3	317	1.7	
	Uttarakhand	2027	0	38.2	26.6	0.6	172	0.0	
	HP	1610	0	29.3	21.9	0.3	136	0.1	
	J&K	2411	603	50.6	42.0	0.4	225	11.9	
WR	Chandigarh	210	0	3.5	3.3	0.2	44	0.0	
	Chhattisgarh	3611	0	76.6	16.8	0.9	703	0.0	
	Gujarat	14537	0	314.9	69.7	0.6	618	0.0	
	MP	13167	0	250.2	137.5	-2.8	1852	0.0	
	Maharashtra	20159	0	413.0	94.3	-2.7	359	0.0	
	Goa	453	0	9.6	9.4	-0.2	45	0.0	
	DD	314	0	7.0	6.4	0.6	73	0.0	
	DNH	716	0	16.6	15.9	0.7	85	0.0	
SR	Essar steel	517	0	9.7	9.2	0.5	300	0.0	
	Andhra Pradesh	8026	0	170.2	53.3	-0.2	526	0.0	
	Telangana	7977	0	166.9	95.6	1.1	611	0.0	
	Karnataka	11230	0	212.0	68.8	-2.0	288	0.0	
	Kerala	3429	0	67.6	59.2	1.0	246	0.0	
	Tamil Nadu	14227	0	301.0	147.8	0.5	316	0.0	
	Pondy	344	0	6.7	7.2	-0.4	20	0.0	
	ER	Bihar	4016	0	72.1	68.9	0.2	460	0.0
DVC		2885	0	62.0	-18.8	-0.7	396	0.0	
Jharkhand		1088	126	24.7	16.6	0.9	169	0.4	
Odisha		3652	0	69.9	23.5	1.6	267	0.0	
West Bengal		6505	0	118.2	25.7	0.4	309	0.0	
Sikkim		100	0	1.5	1.6	-0.1	18	0.0	
NER		Arunachal Pradesh	119	2	2.1	2.0	0.2	8	0.0
		Assam	1385	31	23.6	18.7	1.2	72	0.5
	Manipur	178	2	2.6	2.8	-0.2	25	0.0	
	Meghalaya	338	1	6.1	5.0	-0.1	19	0.3	
	Mizoram	90	2	1.8	1.4	0.1	14	0.0	
	Nagaland	126	2	2.1	1.9	-0.1	20	0.0	
	Tripura	224	1	3.8	1.6	0.1	15	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.3	-4.4	-12.5
Day peak (MW)	178.9	-188.0	-817.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.9	-201.4	122.3	-74.3	0.5	0.0
Actual(MU)	155.0	-212.5	121.0	-64.8	0.1	-1.3
O/D/U/D(MU)	2.1	-11.1	-1.4	9.4	-0.4	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4027	16735	7932	1870	106	30670
State Sector	12665	14290	7510	6725	50	41240
Total	16692	31025	15442	8595	156	71910

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	519	1100	510	414	10	2552
Lignite	17	15	52	0	0	84
Hydro	120	24	61	29	7	241
Nuclear	29	19	36	0	0	84
Gas, Naptha & Diesel	25	39	23	0	29	116
RES (Wind, Solar, Biomass & Others)	70	121	130	1	0	322
Total	780	1319	811	444	46	3400
Share of RES in total generation (%)	8.98	9.20	15.97	0.17	0.09	9.47
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.08	12.50	27.89	6.73	15.75	19.03

H. Diversity Factor

All India Demand Diversity Factor	1.048
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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 : 15-Dec-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)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	583	0.0	8.4	-8.4	
2		SASARAM-FATEHPUR	S/C	0	330	0.0	4.7	-4.7	
3		GAYA-BALIA	S/C	0	264	0.0	4.6	-4.6	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	400 kV	PUSAULI B/B	S/C	4	0	0.0	0.0	0.0	
6		PUSAULI-VARANASI	S/C	25	39	0.0	0.0	0.0	
7		PUSAULI -ALLAHABAD	S/C	38	70	0.0	0.0	0.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	563	0.0	8.2	-8.2	
9		PATNA-BALIA	Q/C	0	943	0.0	17.6	-17.6	
10		BIHARSHARIFF-BALIA	D/C	0	272	0.0	4.6	-4.6	
11		MOTIHARI-GORAKHPUR	D/C	0	307	0.0	6.1	-6.1	
12		BIHARSHARIFF-VARANASI	D/C	33	204	0.0	2.4	-2.4	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	132	0.0	2.4	-2.4
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
ER-NR						0.6	59.1	-58.4	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1667	0	22.8	0.0	22.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	268	283	0.5	0.0	0.5	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	268	183	0.0	0.3	-0.3	
21		RANCHI-SIPAT	D/C	194	18	1.9	0.0	1.9	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	94	0.0	1.4	-1.4	
23		BUDHIPADAR-KORBA	D/C	166	0	2.2	0.0	2.2	
ER-WR						27.3	1.6	25.7	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1805.0	0.0	30.3	-30.3	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1973.0	0.0	42.4	-42.4	
27	400 kV	TALCHER-I/C	D/C	0.0	617.0	2.0	0.0	2.0	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	88.8	-88.8	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	271	0	4.7	0.0	5	
30		ALIPURDUAR-BONGAIGAON	D/C	411	0	7.2	0.0	7	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	73	0	1.0	0.0	1	
ER-NER						12.8	0.0	12.8	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	679	0	13.6	0.0	13.6	
NER-NR						13.6	0.0	13.6	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	700	0.0	16.8	-16.8	
34		V'CHAL B/B	D/C	0	0	0.0	0.0	0.0	
35		APL -MHG	D/C	0	983	0.0	22.3	-22.3	
36		GWALIOR-AGRA	D/C	0	988	0.0	37.9	-37.9	
37	765 kV	PHAGI-GWALIOR	D/C	0	1256	0.0	18.9	-18.9	
38		JABALPUR-ORAI	D/C	133	373	0.0	8.6	-8.6	
39		GWALIOR-ORAI	S/C	523	0	9.4	0.0	9.4	
40		SATNA-ORAI	S/C	0	1725	0.0	37.0	-37.0	
41		400 kV	ZERDA-KANKROLI	S/C	155	161	0.4	0.0	0.4
42			ZERDA -BHINMAL	S/C	98	330	0.0	2.5	-2.5
43	V'CHAL -RIHAND		S/C	993	0	22.0	0.0	22.0	
44	RAPP-SHUJALPUR		D/C	333	2	2	0	2	
45	220 kV	BADOD-KOTA	S/C	41	32	0.3	0.0	0.3	
46		BADOD-MORAK	S/C	10	91	0.0	0.9	-0.9	
47		MEHGAON-AURAIYA	S/C	91	0	1.0	0.0	1.0	
48	132kV	MALANPUR-AURAIYA	S/C	51	18	0.3	0.0	0.3	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						35.6	144.9	-109.3	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	694	0.0	12.2	-12.2	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	2224	0.0	31.2	-31.2	
53		WARDHA-NIZAMABAD	D/C	0	2671	0.0	43.7	-43.7	
54	400 kV	KOLHAPUR-KUDGI	D/C	788	17	8.9	0.0	8.9	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	66	1.2	0.0	1.2	
WR-SR						10.2	87.1	-76.9	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						2.3	
59		NEPAL						-4.4	
60		BANGLADESH						-12.5	