

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

Report for previous day

Date of Reporting

31-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43833	45328	37645	17214	2307	146327
Peak Shortage (MW)	558	0	0	0	37	595
Energy Met (MU)	941	1063	862	341	42	3248
Hydro Gen (MU)	116	21	64	25	8	233
Wind Gen (MU)	5	51	55	-----	-----	111
Solar Gen (MU)*	22.57	21.4	64.97	0.89	0.05	110
Energy Shortage (MU)	11.8	0.0	0.0	0.0	0.2	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45347 09:36	53957 10:40	40871 08:27	17683 18:58	2320 17:53	155380 09:45

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	0.039	0.27	0.39	5.64	6.30	79.53	14.18

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	5396	0	106.1	25.2	-0.5	220	0.0	
	Haryana	5985	0	120.3	67.2	2.2	324	0.0	
	Rajasthan	12649	0	237.0	69.2	0.3	824	0.0	
	Delhi	4120	0	66.5	50.0	-0.2	125	0.0	
	UP	14449	0	291.5	111.5	-0.4	512	0.0	
	Uttarakhand	1965	0	37.1	21.8	-0.4	230	0.0	
	HP	1596	0	29.2	23.7	0.1	50	0.0	
	J&K	2554	638	49.9	45.3	-0.5	187	11.8	
	Chandigarh	206	0	3.2	3.1	0.1	223	0.0	
	WR	Chhattisgarh	3410	0	75.6	20.9	-0.4	749	0.0
Gujarat		14982	0	309.6	75.2	3.1	604	0.0	
MP		13602	0	255.2	143.8	-1.0	565	0.0	
Maharashtra		19438	0	378.4	90.4	1.1	446	0.0	
Goa		462	0	8.9	8.2	0.0	24	0.0	
DD		288	0	6.6	5.9	0.7	50	0.0	
DNH		733	0	17.2	16.5	0.7	87	0.0	
Essar steel		551	0	11.2	10.4	0.8	307	0.0	
SR		Andhra Pradesh	7771	0	160.5	55.6	-0.1	654	0.0
		Telangana	8582	0	178.0	75.9	1.1	529	0.0
	Karnataka	10082	0	192.1	67.0	-0.8	451	0.0	
	Kerala	3255	0	64.0	55.9	-0.1	174	0.0	
	Tamil Nadu	12210	0	261.0	129.1	-0.2	391	0.0	
	Pondy	349	0	6.3	6.7	-0.4	27	0.0	
ER	Bihar	4201	0	74.7	71.6	-1.1	460	0.0	
	DVC	2985	0	64.7	-29.6	0.8	396	0.0	
	Jharkhand	1226	0	26.9	18.4	1.8	169	0.0	
	Odisha	3697	0	68.1	26.7	0.4	267	0.0	
	West Bengal	5699	0	105.6	23.1	2.2	309	0.0	
	Sikkim	97	0	1.4	1.8	-0.4	18	0.0	
NER	Arunachal Pradesh	107	2	2.1	1.8	0.2	32	0.0	
	Assam	1304	21	22.8	16.8	1.3	76	0.2	
	Manipur	168	2	2.8	2.9	-0.1	20	0.0	
	Meghalaya	336	0	6.4	6.1	-0.3	35	0.0	
	Mizoram	89	3	1.8	1.2	0.3	20	0.0	
	Nagaland	120	2	2.1	2.0	-0.1	12	0.0	
	Tripura	221	1	3.8	1.2	0.1	34	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-7.1	-11.7
Day peak (MW)	104.8	-320.0	-786.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	161.0	-179.2	87.8	-73.0	3.0	-0.4
Actual(MU)	155.0	-179.7	83.7	-62.9	3.3	-0.6
O/D/U/D(MU)	-6.1	-0.5	-4.1	10.1	0.4	-0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4292	17461	6832	1720	306	30611
State Sector	9295	13569	9340	5665	50	37919
Total	13587	31030	16172	7385	356	68529

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	564	1078	463	413	4	2523
Lignite	21	18	51	0	0	90
Hydro	116	21	64	25	8	233
Nuclear	19	19	36	0	0	74
Gas, Naptha & Diesel	30	41	21	0	29	122
RES (Wind, Solar, Biomass & Others)	56	74	152	1	0	284
Total	806	1252	787	439	41	3326

Share of RES in total generation (%)	6.94	5.95	19.37	0.21	0.12	8.53
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	23.72	9.15	31.97	5.88	18.35	17.76

H. Diversity Factor

All India Demand Diversity Factor	1.031
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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 : 31-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)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	578	0.0	8.8	-8.8	
2		SASARAM-FATEHPUR	S/C	0	266	0.0	2.7	-2.7	
3		GAYA-BALIA	S/C	0	304	0.0	4.9	-4.9	
4		ALIPURDUAR-AGRA	-	0	150	0.0	0.2	-0.2	
5	400 kV	PUSAULI B/B	S/C	0	147	0.0	3.6	-3.6	
6		PUSAULI-VARANASI	S/C	0	112	0.0	2.2	-2.2	
7		PUSAULI -ALLAHABAD	S/C	0	78	0.0	1.3	-1.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	454	0.0	6.4	-6.4	
9		PATNA-BALIA	Q/C	0	846	0.0	16.9	-16.9	
10		BIHARSHARIFF-BALIA	D/C	0	293	0.0	4.2	-4.2	
11		MOTIHARI-GORAKHPUR	D/C	0	366	0.0	7.2	-7.2	
12		BIHARSHARIFF-VARANASI	D/C	22	201	0.0	1.9	-1.9	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	143	0.0	2.6	-2.6
14		132 kV	ONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15			GARWAH-RIHAND	S/C	25	25	0.7	0.0	0.7
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>0.7</b>	<b>62.7</b>	<b>-62.1</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1207	0	19.2	0.0	19.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	233	170	1.1	0.0	1.1	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	43	146	0.0	1.2	-1.2	
21		RANCHI-SIPAT	D/C	118	19	1.8	0.0	1.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	87	0.0	1.3	-1.3	
23		BUDHIPADAR-KORBA	D/C	138	0	2.2	0.0	2.2	
<b>ER-WR</b>						<b>24.3</b>	<b>2.5</b>	<b>21.9</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1324.0	0.0	21.1	-21.1	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	685.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1976.0	0.0	37.7	-37.7	
27	400 kV	TALCHER-I/C	D/C	0.0	662.0	4.3	0.0	4.3	
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>74.8</b>	<b>-74.8</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	229	102	2.2	0.0	2	
30		ALIPURDUAR-BONGAIGAON	D/C	334	7	4.3	0.0	4	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	58	22	0.4	0.0	0	
<b>ER-NER</b>						<b>6.9</b>	<b>0.0</b>	<b>6.9</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	495	0	10.2	0.0	10.2	
<b>NER-NR</b>						<b>10.2</b>	<b>0.0</b>	<b>10.2</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	604	0.0	12.4	-12.4	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	1646	0.0	40.8	-40.8	
36		GWALIOR-AGRA	D/C	0	1011	0.0	36.4	-36.4	
37	765 kV	PHAGI-GWALIOR	D/C	0	1183	0.0	17.9	-17.9	
38		JABALPUR-ORAI	D/C	182	446	0.0	9.4	-9.4	
39		GWALIOR-ORAI	S/C	794	0	12.9	0.0	12.9	
40		SATNA-ORAI	S/C	0	1555	0.0	30.7	-30.7	
41		400 kV	ZERDA-KANKROLI	S/C	166	148	0.4	0.0	0.4
42			ZERDA -BHINMAL	S/C	6	354	0.0	3.1	-3.1
43	V'CHAL -RIHAND		S/C	991	0	22.3	0.0	22.3	
44	RAPP-SHUJALPUR		D/C	331	45	1	0	1	
45	220 kV	BADOD-KOTA	S/C	3	56	0.3	0.1	0.2	
46		BADOD-MORAK	S/C	0	147	0.0	2.1	-2.1	
47		MEHGAON-AURAIYA	S/C	106	0	1.6	0.0	1.6	
48		MALANPUR-AURAIYA	S/C	54	3	0.6	0.0	0.6	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>45.4</b>	<b>152.8</b>	<b>-107.4</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	20.0	-20.0	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	845	1769	0.0	22.0	-22.0	
53		WARDHA-NIZAMABAD	D/C	0	1521	0.0	23.4	-23.4	
54	400 kV	KOLHAPUR-KUDGI	D/C	1091	0	12.5	0.0	12.5	
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	43	1.0	0.0	1.0	
<b>WR-SR</b>						<b>13.6</b>	<b>65.4</b>	<b>-51.8</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						1.7	
59		NEPAL						-7.1	
60		BANGLADESH						-11.7	