

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

Report for previous day

Date of Reporting

22-Jan-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	41524	47632	40318	17950	2342	149766
Peak Shortage (MW)	1264	0	60	204	32	1560
Energy Met (MU)	881	1120	907	353	42	3304
Hydro Gen (MU)	115	23	75	24	7	243
Wind Gen (MU)	16	52	42	-----	-----	110
Solar Gen (MU)*	12.80	18.67	76.36	0.90	0.04	109
Energy Shortage (MU)	10.6	0.2	0.3	0.6	0.3	11.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43459 08:40	55783 09:50	43310 09:41	18643 18:30	2503 17:47	159826 09:21

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	0.056	0.08	2.19	8.37	10.64	67.27	22.09

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	5552	0	102.8	28.0	-0.7	75	0.0	
	Haryana	5884	0	115.2	65.3	-0.6	169	0.4	
	Rajasthan	11958	0	225.2	63.8	-2.1	550	0.0	
	Delhi	3907	0	67.9	53.0	-0.9	188	0.0	
	UP	12633	0	259.4	103.3	-0.3	399	0.3	
	Uttarakhand	2094	0	35.0	22.7	-1.0	160	0.0	
	HP	1616	0	29.0	23.6	0.0	147	0.0	
	J&K	2234	1117	43.1	41.5	-3.7	141	9.9	
	Chandigarh	228	0	3.7	3.9	-0.3	27	0.0	
	WR	Chhattisgarh	3732	0	80.8	33.6	-0.8	220	0.2
Gujarat		16008	0	333.9	80.2	7.3	720	0.0	
MP		13800	0	243.7	133.3	-2.4	401	0.0	
Maharashtra		20632	0	412.4	123.8	0.5	515	0.0	
Goa		498	0	12.0	10.6	0.8	35	0.0	
DD		297	0	6.8	6.6	0.1	38	0.0	
DNH		774	0	17.9	17.8	0.0	48	0.0	
Essar steel		595	0	13.0	12.6	0.4	274	0.0	
SR		Andhra Pradesh	8121	0	165.2	65.5	0.2	564	0.0
		Telangana	8808	0	181.9	71.0	0.4	526	0.0
	Karnataka	11390	0	211.9	76.7	0.0	517	0.0	
	Kerala	3376	0	62.7	46.1	0.7	155	0.3	
	Tamil Nadu	13444	0	278.2	146.4	0.6	564	0.0	
	Pondy	355	0	6.9	7.1	-0.3	64	0.0	
	ER	Bihar	4202	0	75.3	69.0	0.9	460	0.0
DVC		3176	0	65.6	-45.4	-0.6	396	0.0	
Jharkhand		999	204	22.8	15.6	0.5	169	0.6	
Odisha		3919	0	67.6	21.4	-2.3	267	0.0	
West Bengal		6657	0	120.6	18.9	1.4	309	0.0	
Sikkim		93	0	1.3	1.6	-0.4	18	0.0	
NER	Arunachal Pradesh	114	2	2.2	2.0	0.2	37	0.0	
	Assam	1388	21	23.2	17.5	1.5	138	0.2	
	Manipur	189	3	2.9	3.0	-0.1	44	0.0	
	Meghalaya	336	0	6.2	5.3	-0.1	52	0.0	
	Mizoram	97	1	1.8	1.7	0.0	3	0.0	
	Nagaland	112	3	2.1	2.0	0.0	12	0.0	
	Tripura	270	1	3.9	3.9	0.3	57	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.6	-7.1	-14.0
Day peak (MW)	116.0	-327.0	-811.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.3	-189.2	103.6	-73.1	0.1	-0.4
Actual(MU)	155.6	-190.1	103.0	-73.4	0.8	-4.2
O/D/U/D(MU)	-2.8	-0.9	-0.6	-0.2	0.7	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3370	15387	6602	2905	207	28470
State Sector	10810	16436	9330	4165	50	40791
Total	14180	31823	15932	7070	256	69261

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	515	1143	471	409	9	2548
Lignite	17	19	53	0	0	88
Hydro	115	23	75	24	7	243
Nuclear	24	29	32	0	0	85
Gas, Naptha & Diesel	26	42	18	0	29	115
RES (Wind, Solar, Biomass & Others)	58	71	160	1	0	291
Total	755	1327	809	434	45	3370

Share of RES in total generation (%)	7.69	5.38	19.80	0.22	0.09	8.62
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.07	9.30	32.92	5.76	15.42	18.35

H. Diversity Factor

All India Demand Diversity Factor	1.024
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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 : 22-Jan-19

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	737	0.0	9.5	-9.5
2		SASARAM-FATEHPUR	S/C	37	287	0.0	2.7	-2.7
3		GAYA-BALIA	S/C	0	395	0.0	6.1	-6.1
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	150	0.0	3.6	-3.6
6	400 kV	PUSAULI-VARANASI	S/C	0	114	0.0	2.1	-2.1
7		PUSAULI -ALLAHABAD	S/C	0	106	0.0	1.4	-1.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	647	0.0	8.2	-8.2
9		PATNA-BALIA	Q/C	0	731	0.0	13.5	-13.5
10		BIHARSHARIFF-BALIA	D/C	0	372	0.0	5.3	-5.3
11		MOTIHARI-GORAKHPUR	D/C	0	280	0.0	4.7	-4.7
12		BIHARSHARIFF-VARANASI	D/C	56	259	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	151	0.0	2.8	-2.8
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	42	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
ER-NR						0.6	62.1	-61.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1645	0	23.6	0.0	23.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	338	463	0.0	3.2	-3.2
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	110	143	0.0	0.9	-0.9
21		RANCHI-SIPAT	D/C	179	102	0.9	0.0	0.9
22	220 kV	BUDHIPADAR-RAIGARH	S/C	6	85	0.0	1.0	-1.0
23		BUDHIPADAR-KORBA	D/C	103	2	1.2	0.0	1.2
ER-WR						25.7	5.1	20.6
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1634.0	0.0	25.5	-25.5
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	646.0	0.0	16.0	-16.0
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1984.0	0.0	43.0	-43.0
27	400 kV	TALCHER-I/C	D/C	251.0	343.0	0.0	6.6	-6.6
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	84.5	-84.5
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	326	0	4.8	0.0	5
30		ALIPURDUAR-BONGAIGAON	D/C	462	0	6.9	0.0	7
31	220 kV	ALIPURDUAR-SALAKATI	D/C	79	8	0.8	0.0	1
ER-NER						12.5	0.0	12.5
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	661	0	14.0	0.0	14.0
NER-NR						14.0	0.0	14.0
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1303	0.0	21.0	-21.0
34		V'CHAL B/B	D/C	241	253	3.7	2.3	1.4
35		APL -MHG	D/C	0	1736	0.0	38.6	-38.6
36		GWALIOR-AGRA	D/C	0	1108	0.0	33.7	-33.7
37	765 kV	PHAGI-GWALIOR	D/C	0	842	0.0	11.1	-11.1
38		JABALPUR-ORAI	D/C	0	721	0.0	18.3	-18.3
39		GWALIOR-ORAI	S/C	536	0	9.3	0.0	9.3
40		SATNA-ORAI	S/C	0	1230	0.0	23.4	-23.4
41		ZERDA-KANKROLI	S/C	210	120	1.8	0.0	1.8
42	400 kV	ZERDA -BHINMAL	S/C	198	307	0.0	1.2	-1.2
43		V'CHAL -RIHAND	S/C	964	0	19.7	0.0	19.7
44		RAPP-SHUJALPUR	D/C	318	206	1	0	1
45	220 kV	BADOD-KOTA	S/C	49	32	0.7	0.1	0.6
46		BADOD-MORAK	S/C	16	122	0.0	1.1	-1.1
47		MEHGAON-AURAIYA	S/C	115	0	1.4	0.0	1.4
48	400 kV	MALANPUR-AURAIYA	S/C	64	16	0.5	0.0	0.5
49		132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0
WR-NR						38.2	150.8	-112.5
Import/Export of WR (With SR)								
50	HVDC	BHADRAWATI B/B	-	0	1006	0.0	19.6	-19.6
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	488	2131	0.0	23.2	-23.2
53		WARDHA-NIZAMABAD	D/C	0	1988	0.0	28.6	-28.6
54	400 kV	KOLHAPUR-KUDGI	D/C	1033	0	13.8	0.0	13.8
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	71	0.0	0.7	-0.7
57		XELDEM-AMBEWADI	S/C	1	53	0.8	0.0	0.8
WR-SR						14.6	72.1	-57.5
TRANSNATIONAL EXCHANGE								
58		BHUTAN						0.6
59		NEPAL						-7.1
60		BANGLADESH						-14.0