

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

Report for previous day

Date of Reporting

16-Jan-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46632	43835	33512	17939	2275	144193
Peak Shortage (MW)	571	0	0	0	18	589
Energy Met (MU)	950	1069	893	351	39	3301
Hydro Gen (MU)	126	42	62	32	7	269
Wind Gen (MU)	20	37	37	-----	-----	94
Solar Gen (MU)*	31.28	20.40	97.28	1.37	0.04	150
Energy Shortage (MU)	10.4	0.0	0.0	0.0	1.5	11.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48620 09:52	68515 13:46	43453 09:22	18207 18:59	2326 18:19	165228 13:44

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	0.028	0.00	0.00	2.04	2.04	76.16	21.81

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	5815	0	111.4	54.7	-1.2	69	0.0
	Haryana	6653	0	127.7	88.8	0.7	211	0.0
	Rajasthan	13389	0	233.3	72.3	-0.7	405	0.0
	Delhi	4500	0	75.4	58.5	0.1	284	0.0
	UP	14865	0	284.0	111.0	-1.4	913	0.0
	Uttarakhand	2183	0	39.1	21.0	0.0	202	0.0
	HP	1683	0	30.7	22.9	1.5	276	0.0
	J&K(UT) and Ladakh(UT)	2284	571	43.8	39.8	-1.4	233	10.4
	Chandigarh	280	0	4.6	4.4	0.2	48	0.0
WR	Chhattisgarh	3698	0	77.8	25.2	-1.2	411	0.0
	Gujarat	13276	0	273.3	81.2	3.4	548	0.0
	MP	13833	0	236.9	131.3	-4.1	390	0.0
	Maharashtra	22351	0	441.2	155.6	-2.1	413	0.0
	Goa	482	0	10.1	10.0	-0.4	45	0.0
	DD	314	0	6.8	6.5	0.3	44	0.0
	DNH	768	0	17.9	18.0	-0.1	41	0.0
	Essar steel	269	0	5.0	5.6	-0.6	173	0.0
	Andhra Pradesh	8230	0	156.0	59.7	-1.1	324	0.0
SR	Telangana	10281	0	201.5	98.0	-0.4	355	0.0
	Karnataka	12700	0	220.5	55.8	-1.8	465	0.0
	Kerala	3518	0	70.2	56.5	1.5	207	0.0
	Tamil Nadu	11861	0	238.5	131.3	-1.2	577	0.0
	Pondy	291	0	5.7	6.2	-0.5	29	0.0
	Bihar	4470	0	80.7	79.2	-0.1	0	0.0
ER	DVC	3188	0	64.5	-34.0	0.2	300	0.0
	Jharkhand	1372	0	24.9	15.9	-0.4	110	0.0
	Odisha	3836	0	67.8	5.3	0.7	200	0.0
	West Bengal	6286	0	111.2	20.6	-0.4	210	0.0
	Sikkim	128	0	1.9	1.7	0.2	15	0.0
	Arunachal Pradesh	113	1	2.2	2.0	0.2	47	0.0
NER	Assam	1212	10	20.5	17.8	-0.1	131	0.4
	Manipur	218	2	2.7	3.2	-0.5	33	0.0
	Meghalaya	363	0	5.9	3.3	0.6	93	1.1
	Mizoram	101	1	1.3	1.7	-0.3	20	0.0
	Nagaland	126	1	2.1	2.2	-0.2	9	0.0
	Tripura	211	1	3.8	2.5	-0.2	67	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.0	-8.6	-9.9
Day peak (MW)	573.8	-464.6	-754.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.7	-231.7	96.1	-87.8	4.0	0.3
Actual(MU)	203.0	-234.4	97.9	-72.8	3.5	-2.7
O/D/U/D(MU)	-16.7	-2.6	1.8	15.0	-0.4	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5058	15968	7552	2620	588	31786
State Sector	11330	18192	9193	4850	11	43576
Total	16388	34160	16745	7470	600	75362

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	479	1147	453	421	10	2510
Lignite	19	12	46	0	0	77
Hydro	126	42	62	32	7	269
Nuclear	29	23	55	0	0	108
Gas, Naptha & Diesel	32	21	18	0	23	94
RES (Wind, Solar, Biomass & Others)	80	67	179	1	0	328
Total	766	1312	812	455	40	3386

Share of RES in total generation (%)	10.46	5.14	22.03	0.31	0.10	9.68
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.75	10.12	36.42	7.42	17.15	20.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.096
Based on State Max Demands	1.060

Diversity factor = Sum of regional or state-wise 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 : **16-Jan-20**

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>								
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	299	0.0	7.5	-7.5
1	765kV	GAYA-VARANASI	D/C	0	787	0.0	9.3	-9.3
2		SASARAM-FATEHPUR	S/C	71	363	0.0	3.3	-3.3
3		GAYA-BALIA	S/C	0	419	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	S/C	0	235	0.0	4.8	-4.8
7		PUSAULI -ALLAHABAD	S/C	0	152	0.0	2.5	-2.5
8		MUZAFFARPUR-GORAKHPUR	D/C	0	780	0.0	9.0	-9.0
9		PATNA-BALIA	Q/C	0	709	0.0	12.3	-12.3
10		BIHARSHARIFF-BALIA	D/C	0	451	0.0	5.9	-5.9
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	134	291	0.0	1.6	-1.6
13		220 kV	PUSAULI-SAHUPURI	S/C	0	140	0.0	2.5
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	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>58.1</b>	<b>-57.5</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5602	0	15.9	0.0	15.9
19		NEW RANCHI-DHARAMJAIGARH	D/C	726	0	7.8	0.0	7.8
20		JHARSUGUDA-DURG	D/C	999967	207	0.6	0.0	0.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	206	235	0.8	0.0	0.8
22		RANCHI-SIPAT	D/C	262	4	3.2	0.0	3.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	97	0.0	1.3	-1.3
24		BUDHIPADAR-KORBA	D/C	179	0	3.0	0.0	3.0
<b>ER-WR</b>						<b>31.2</b>	<b>1.3</b>	<b>30.0</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1986.0	0.0	41.8	-41.8
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1896.0	0.0	34.3	-34.3
28	400 kV	TALCHER-I/C	D/C	916.0	978.0	0.0	2.3	-2.3
29	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>92.3</b>	<b>-92.3</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	226	98	2.9	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	274	68	3.5	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	55	29	0.6	0.0	1
<b>ER-NER</b>						<b>6.9</b>	<b>0.0</b>	<b>6.9</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	471	0	11.3	0.0	11.3
<b>NER-NR</b>						<b>11.3</b>	<b>0.0</b>	<b>11.3</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2004	0.0	30.7	-30.7
35		V'CHAL B/B	D/C	449	0	7.5	0.0	7.5
36	765 kV	APL -MHG	D/C	0	1459	0.0	32.0	-32.0
37		GWALIOR-AGRA	D/C	0	2540	0.0	46.0	-46.0
38		PHAGI-GWALIOR	D/C	0	1675	0.0	22.5	-22.5
39		JABALPUR-ORAI	D/C	0	865	0.0	31.6	-31.6
40		GWALIOR-ORAI	S/C	717	0	11.0	0.0	11.0
41		SATNA-ORAI	S/C	0	1403	0.0	29.2	-29.2
42		CHITTORGARH-BANASKANTHA	D/C	253	1031	0.0	7.1	-7.1
43		ZERDA-KANKROLI	S/C	136	163	0.4	0.0	0.4
44	400 kV	ZERDA -BHINMAL	S/C	122	334	0.0	1.0	-1.0
45		V'CHAL -RIHAND	S/C	976	0	21.4	0.0	21.4
46		RAPP-SHUJALPUR	D/C	197	302	0	0	0
47	220 kV	BHANPURA-RANPUR	S/C	17	84	0.5	0.2	0.3
48		BHANPURA-MORAK	S/C	23	87	0.1	0.7	-0.6
49		MEHGAON-AURAIYA	S/C	123	3	1.4	0.0	1.4
50		MALANPUR-AURAIYA	S/C	63	24	0.5	0.1	0.5
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>42.8</b>	<b>201.3</b>	<b>-158.6</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.2	-12.2
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	765	1693	0.0	15.3	-15.3
55		WARDHA-NIZAMABAD	D/C	0	1972	0.0	31.3	-31.3
56	400 kV	KOLHAPUR-KUDGI	D/C	1079	0	12.4	0.0	12.4
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	88	1.6	0.0	1.6
<b>WR-SR</b>						<b>14.1</b>	<b>58.7</b>	<b>-44.7</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>4.0</b>
61		NEPAL						<b>-8.6</b>
62		BANGLADESH						<b>-9.9</b>