

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

Report for previous day

Date of Reporting

10-Feb-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)	43924	45532	38522	17884	2291	148153
Peak Shortage (MW)	630	0	0	0	47	677
Energy Met (MU)	963	1116	958	363	39	3439
Hydro Gen (MU)	123	36	68	29	9	264
Wind Gen (MU)	13	87	27	-----	-----	127
Solar Gen (MU)*	38.32	27.70	76.14	1.49	0.04	144
Energy Shortage (MU)	10.5	0.0	0.0	0.0	0.7	11.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49206 09:53	53171 09:46	44591 09:23	18518 19:08	2328 18:07	165209 09:46

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	0.08	4.49	4.57	71.03	24.40

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	5872	0	121.6	72.6	-0.7	110	0.0
	Haryana	6567	0	122.9	85.0	-0.6	211	0.0
	Rajasthan	13831	0	243.3	72.7	-0.9	435	0.0
	Delhi	4323	0	72.1	48.6	6.9	725	0.0
	UP	15709	0	286.3	123.1	-1.7	740	0.0
	Uttarakhand	2003	0	35.6	17.7	-0.9	67	0.0
	HP	1593	0	27.5	22.3	-2.3	51	0.0
	J&K(UT) and Ladakh(UT)	2520	630	49.9	44.4	0.1	362	10.5
WR	Chandigarh	210	0	3.5	3.6	0.0	39	0.0
	Chhattisgarh	3282	0	69.3	24.1	-1.4	269	0.0
	Gujarat	15204	0	318.9	91.6	4.4	611	0.0
	MP	14510	0	261.6	119.2	-3.2	520	0.0
	Maharashtra	21379	0	428.1	128.2	-4.4	446	0.0
	Goa	407	0	8.3	8.2	-0.4	35	0.0
	DD	288	0	6.6	6.0	0.6	45	0.0
	DNH	754	0	17.7	17.8	-0.1	42	0.0
SR	Essar steel	773	0	5.3	5.3	0.0	238	0.0
	Andhra Pradesh	9077	0	180.5	71.8	-0.2	339	0.0
	Telangana	9007	0	192.9	109.0	-2.2	517	0.0
	Karnataka	11302	0	214.3	71.0	-1.5	942	0.0
	Kerala	3373	0	67.0	55.9	1.5	251	0.0
	Tamil Nadu	13092	0	295.9	151.9	-0.7	414	0.0
	Pondy	330	0	6.9	7.2	-0.3	31	0.0
	ER	Bihar	4227	0	75.9	74.7	-0.5	410
DVC		3105	0	65.6	-37.1	-0.4	430	0.0
Jharkhand		1284	0	25.4	20.0	-0.3	130	0.0
Odisha		4476	0	84.3	22.6	1.9	415	0.0
West Bengal		5766	0	111.2	28.4	0.6	240	0.0
Sikkim		120	0	1.0	1.2	-0.2	65	0.0
NER	Arunachal Pradesh	119	1	2.7	2.3	0.3	9	0.0
	Assam	1290	40	20.9	18.6	-0.2	103	0.5
	Manipur	138	1	2.1	2.9	-0.8	63	0.0
	Meghalaya	355	0	6.4	5.9	-0.2	29	0.2
	Mizoram	107	1	1.6	1.6	-0.3	42	0.0
	Nagaland	125	1	2.2	2.1	0.0	45	0.0
Tripura	215	1	3.4	1.6	-0.3	33	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.3	-10.5	-12.9
Day peak (MW)	346.3	-571.6	-582.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.0	-273.2	120.7	-75.3	6.0	1.1
Actual(MU)	214.6	-288.1	136.9	-65.6	2.7	0.5
O/D/U/D(MU)	-8.4	-14.9	16.2	9.7	-3.3	-0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5881	15233	5372	1760	987	29233
State Sector	12680	16095	7220	6540	11	42546
Total	18561	31327	12592	8300	998	71778

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	478	1176	505	433	9	2601
Lignite	24	16	52	0	0	93
Hydro	123	36	68	29	9	264
Nuclear	25	20	40	0	0	84
Gas, Naptha & Diesel	33	35	17	0	22	108
RES (Wind, Solar, Biomass & Others)	81	126	140	2	0	348
Total	764	1409	823	463	40	3499

Share of RES in total generation (%)	10.63	8.91	17.05	0.33	0.10	9.96
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.90	12.91	30.09	6.53	22.04	19.91

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.070

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 :	10-Feb-20
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)									
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	378	0.0	9.2	-9.2	
1	765kV	GAYA-VARANASI	D/C	0	683	0.0	7.1	-7.1	
2		SASARAM-FATEHPUR	S/C	140	183	0.0	0.1	-0.1	
3		GAYA-BALIA	S/C	0	472	0.0	7.7	-7.7	
6	400 kV	PUSAULI-VARANASI	S/C	0	285	0.0	6.1	-6.1	
7		PUSAULI -ALLAHABAD	S/C	0	165	0.0	3.0	-3.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	122	195	0.0	0.8	-0.8	
9		PATNA-BALIA	Q/C	0	683	0.0	11.0	-11.0	
10		BIHARSHARIFF-BALIA	D/C	0	260	0.0	3.5	-3.5	
11		MOTIHARI-GORAKHPUR	D/C	0	488	0.0	8.1	-8.1	
12		BIHARSHARIFF-VARANASI	D/C	166	132	0.4	0.0	0.4	
13	220 kV	PUSAULI-SAHUPURI	S/C	38	63	0.0	0.3	-0.3	
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	
ER-NR						1.1	56.8	-55.6	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1820	0	29.8	0.0	29.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	780	0	10.6	0.0	10.6	
20		JHARSUGUDA-DURG	D/C	303	0	3.5	0.0	3.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	300	201	1.2	0.0	1.2	
22		RANCHI-SIPAT	D/C	281	0	5.3	0.0	5.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	1	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	123	0	1.8	0.0	1.8	
ER-WR						52.2	0.0	52.2	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	542.0	0.0	12.3	-12.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1975.0	0.0	37.4	-37.4	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2905.0	0.0	48.4	-48.4	
28	400 kV	TALCHER-I/C	D/C	437.0	462.0	4.8	0.0	4.8	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	98.1	-98.1	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	506	0.0	6.4	-6	
31		ALIPURDUAR-BONGAIGAON	D/C	0	657	0.0	8.9	-9	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	130	0.0	1.6	-2	
ER-NER						0.0	16.9	-16.9	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	11.2	-11.2	
NER-NR						0.0	11.2	-11.2	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	15.9	-15.9	
35		VCHAL B/B	D/C	447	0	8.2	0.0	8.2	
36		APL -MHG	D/C	0	1919	0.0	33.6	-33.6	
37	765 kV	GWALIOR-AGRA	D/C	0	2821	0.0	46.5	-46.5	
38		PHAGI-GWALIOR	D/C	0	1623	0.0	23.7	-23.7	
39		JABALPUR-ORAI	D/C	0	1060	0.0	32.8	-32.8	
40		GWALIOR-ORAI	S/C	691	0	11.0	0.0	11.0	
41		SATNA-ORAI	S/C	0	1540	0.0	30.3	-30.3	
42		CHITTORGARH-BANASKANTHA	D/C	142	1093	0.0	8.9	-8.9	
43		ZERDA-KANKROLI	S/C	102	175	0.1	0.0	0.1	
44	400 kV	ZERDA -BHINMAL	S/C	92	363	0.0	2.1	-2.1	
45		VCHAL-RIHAND	S/C	989	0	23.0	0.0	23.0	
46		RAPP-SHUJALPUR	D/C	41	398	0	4	-4	
47	220 kV	BHANPURA-RANPUR	S/C	17	73	0.4	0.4	0.1	
48		BHANPURA-MORAK	S/C	22	119	0.0	1.0	-1.0	
49		MEHGAON-AURAIYA	S/C	102	0	1.4	0.0	1.4	
50	132kV	MALANPUR-AURAIYA	S/C	61	18	0.6	0.0	0.6	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						44.7	198.6	-154.0	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	19.8	-19.8	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	253	2524	0.0	29.5	-29.5	
55		WARDHA-NIZAMABAD	D/C	0	2799	0.0	42.6	-42.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	806	155	7.8	0.0	7.8	
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	57	1.3	0.0	1.3	
WR-SR						9.1	91.9	-82.7	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						0.3	
61		NEPAL						-10.5	
62		BANGLADESH						-12.9	