

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

Report for previous day

Date of Reporting 11-Mar-2020

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)	30215	37065	42618	14586	2188	126672
Peak Shortage (MW)	568	0	0	0	79	647
Energy Met (MU)	675	980	1075	316	38	3084
Hydro Gen (MU)	125	39	78	24	6	271
Wind Gen (MU)	33	79	25	-	-	137
Solar Gen (MU)*	35.53	25.40	99.17	1.48	0.04	162
Energy Shortage (MU)	11.3	0.0	0.0	0.0	0.6	12
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	34869 09:22	46894 11:25	49599 09:26	16148 18:40	2238 18:07	144098 07:28

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	0.00	0.43	0.43	61.70	37.87

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	3903	0	69.5	54.7	-2.8	105	0.0
	Haryana	4032	0	69.1	62.9	0.2	260	0.0
	Rajasthan	10319	0	173.4	27.9	-4.9	353	0.0
	Delhi	2292	0	45.6	34.4	-0.3	250	0.0
	UP	10920	0	223.1	117.4	-0.9	518	0.0
	Uttarakhand	1236	0	24.3	12.3	0.1	249	0.0
	HP	1116	0	19.7	12.9	-0.5	102	0.0
	J&K(UT) and Ladakh(UT)	2274	568	47.9	40.8	-1.1	179	11.2
	Chandigarh	162	0	2.8	3.0	-0.3	14	0.0
WR	Chhattisgarh	2711	0	69.6	24.2	-2.3	247	0.0
	Gujarat	12267	0	253.8	80.7	-1.7	559	0.0
	MP	10143	0	195.8	92.4	-1.3	459	0.0
	Maharashtra	19785	0	430.1	126.4	-1.8	630	0.0
	Goa	398	0	8.8	8.4	-0.1	44	0.0
	DD	272	0	3.9	3.8	0.1	17	0.0
	DNH	753	0	12.5	12.5	0.0	66	0.0
	Essar steel	713	0	5.8	6.1	-0.3	299	0.0
	Andhra Pradesh	9112	0	189.2	85.8	0.6	381	0.0
SR	Telangana	11138	0	222.6	116.0	0.9	734	0.0
	Karnataka	12753	0	248.6	84.9	1.2	748	0.0
	Kerala	3963	0	81.1	63.7	2.0	207	0.0
	Tamil Nadu	14596	0	326.4	178.3	0.6	701	0.0
	Pondy	341	0	7.1	7.5	-0.4	44	0.0
	Bihar	3493	0	66.1	61.7	-2.8	350	0.0
ER	DVC	2651	0	51.5	-28.3	0.9	315	0.0
	Jharkhand	1223	0	23.9	16.2	-1.0	353	0.0
	Odisha	3653	0	72.4	14.1	-0.1	344	0.0
	West Bengal	5606	0	101.1	24.2	0.7	255	0.0
	Sikkim	88	0	1.1	1.5	-0.4	4	0.0
	Arunachal Pradesh	112	3	2.1	2.1	0.0	29	0.0
NER	Assam	1219	74	20.7	15.4	0.4	149	0.5
	Manipur	186	3	2.5	2.5	0.0	26	0.0
	Meghalaya	323	4	5.4	3.6	0.2	66	0.1
	Mizoram	103	4	1.6	1.3	0.0	19	0.0
	Nagaland	108	3	2.0	1.9	0.1	11	0.0
	Tripura	221	13	3.4	1.3	0.3	39	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.0	-5.1	-16.8
Day peak (MW)	299.9	-347.0	-1080.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	126.4	-242.3	173.7	-62.2	4.5	0.1
Actual(MU)	97.1	-263.2	222.7	-64.2	8.2	0.7
O/D/U/D(MU)	-29.3	-20.9	49.1	-2.1	3.8	0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5397	13551	5712	1200	1090	26950
State Sector	20865	18459	7525	5512	11	52372
Total	26262	32010	13237	6712	1101	79322

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	311	1010	515	373	10	2220
Lignite	16	12	46	0	0	73
Hydro	125	39	78	24	6	271
Nuclear	24	37	45	0	0	105
Gas, Naptha & Diesel	23	42	18	0	19	101
RES (Wind, Solar, Biomass & Others)	95	116	157	2	0	370
Total	594	1255	858	398	34	3140

Share of RES in total generation (%)	15.96	9.28	18.34	0.39	0.12	11.79
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	41.07	15.29	32.62	6.36	16.23	23.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
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**

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 11-Mar-20

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	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
2	HVDC	PUSAULI B/B	S/C	0	249	0.0	6.3	-6.3	
3	765 kV	GAYA-VARANASI	D/C	152	314	0.0	0.7	-0.7	
4	765 kV	SASARAM-FATEHPUR	S/C	193	87	1.7	0.0	1.7	
5	765 kV	GAYA-BALIA	S/C	0	222	0.0	3.3	-3.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	231	0.0	5.0	-5.0	
7	400 kV	PUSAULI-ALLAHABAD	S/C	0	87	0.0	1.1	-1.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	227	445	0.0	0.7	-0.7	
9	400 kV	PATNA-BALIA	Q/C	0	653	0.0	7.3	-7.3	
10	400 kV	BIHARSHARIFF-BALIA	D/C	52	240	0.0	1.2	-1.2	
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	234	0.0	3.8	-3.8	
12	400 kV	BIHARSHARIFF-VARANASI	D/C	269	121	2.6	0.0	2.6	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	129	0.0	2.5	-2.5	
14	132 kV	SONE NAGAR-RHAND	S/C	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RHAND	S/C	30	0	0.3	0.0	0.3	
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
						ER-NR	4.6	31.9	-27.3
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2116	0	42.5	0.0	42.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	1050	80	7.4	0.0	7.4	
3	765 kV	JHARSUGUDA-DURG	D/C	230	48	1.4	0.0	1.4	
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	417	0	4.7	0.0	4.7	
5	400 kV	RANCHI-SIPAT	D/C	392	0	3.4	0.0	3.4	
6	220 kV	BUDHIPADAR-RAIGARH	S/C	74	48	0.1	0.0	0.1	
7	220 kV	BUDHIPADAR-KORBA	D/C	140	0	2.5	0.0	2.5	
						ER-WR	61.9	0.0	61.9
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	683	0.0	15.9	-15.9	
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2472	0.0	50.0	-50.0	
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2707	0.0	56.3	-56.3	
4	400 kV	TALCHER-IC	D/C	0	1476	0.0	21.7	-21.7	
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0	
						ER-SR	0.0	122.1	-122.1
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	D/C	0	440	0.0	4.5	-4.5	
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	0	586	0.0	6.0	-6.0	
3	220 kV	ALIPURDUAR-SALAKATI	D/C	0	119	0.0	1.2	-1.2	
						ER-NER	0.0	11.7	-11.7
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	3.1	-3.1	
						NER-NR	0.0	3.1	-3.1
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	174	0.0	6.7	-6.7	
2	HVDC	V'CHAL B/B	D/C	449	0	12.2	0.0	12.2	
3	HVDC	APL -MHG	D/C	0	1079	0.0	22.7	-22.7	
4	765 kV	GWALIOR-AGRA	D/C	0	1903	0.0	32.5	-32.5	
5	765 kV	PHAGI-GWALIOR	D/C	0	1125	0.0	10.7	-10.7	
6	765 kV	JABALPUR-ORAI	D/C	0	592	0.0	19.1	-19.1	
7	765 kV	GWALIOR-ORAI	S/C	448	0	6.7	0.0	6.7	
8	765 kV	SATNA-ORAI	S/C	0	1204	0.0	24.9	-24.9	
9	765 kV	CHITORGARH-BANASKANTHA	D/C	208	616	0.0	2.9	-2.9	
10	400 kV	ZERDA-KANKROLI	S/C	217	30	1.9	0.0	1.9	
11	400 kV	ZERDA -BHINMAL	S/C	425	86	4.2	0.0	4.2	
12	400 kV	V'CHAL -RIHAND	S/C	970	0	21.6	0.0	21.6	
13	400 kV	RAPP-SHUJALPUR	D/C	255	152	1.0	0.0	1.0	
14	220 kV	BHANPURA-RANPUR	S/C	30	63	0.2	0.6	-0.3	
15	220 kV	BHANPURA-MORAK	S/C	15	84	0.0	1.0	-0.9	
16	220 kV	MEHGAON-AURAIYA	S/C	66	9	0.6	0.0	0.6	
17	220 kV	MALANPUR-AURAIYA	S/C	35	29	0.2	0.1	0.1	
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	48.7	121.2	-72.5
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	22.7	-22.7	
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
3	765 kV	SOLAPUR-RAICHUR	D/C	0	2927	0.0	53.8	-53.8	
4	765 kV	WARDHA-NIZAMABAD	D/C	0	3041	0.0	60.5	-60.5	
5	400 kV	KOLHAPUR-KUDGI	D/C	606	0	6.1	0.0	6.1	
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	S/C	0	54	0.0	1.1	-1.1	
8	220 kV	XELDEM-AMBEWADI	S/C	0	78	1.5	0.0	1.5	
						WR-SR	7.5	138.2	-130.7

**INTERNATIONAL EXCHANGES**

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	0	0	-44	-1.1
	ER	MANGDECHHU ( 4 x 180 ) ALIPURDUAR RECEIPT	101	100	96	2.3
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	90	22	47	1.1
	NER	132KV-SALAKATI - GELEPHU	15	0	-8	-0.2
NEPAL	NER	132KV-RANGIA - DEOTHANG	23	0	-7	-0.2
	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.9
	ER	132KV-BIHAR - NEPAL	-95	0	-16	-0.4
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-200	-144	-160	-3.8
	ER	Bheramara HVDC(Bangladesh)	-954	-266	-602	-14.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	63	0	-49	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	63	0	-49	-1.2