

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



Report for previous day

Date of Reporting: 07-Mar-2021

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	48162	56037	46542	20913	2144	173798
Peak Shortage (MW)	530	0	0	0	352	882
Energy Met (MU)	1039	1335	1157	428	38	3997
Hydro Gen (MU)	117	55	101	32	10	315
Wind Gen (MU)	32	37	22	-	-	90
Solar Gen (MU)*	48.04	38.69	116.82	5.16	0.16	209
Energy Shortage (MU)	10.86	0.00	0.00	0.00	4.56	15.42
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50094	60074	54938	21090	2331	182656
Time Of Maximum Demand Met (From NLDC SCADA)	19:10	11:14	10:42	18:32	18:16	10:42

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	0.044	0.00	0.65	9.72	10.37	73.21	16.42

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	6773	0	141.5	65.3	-0.8	76	0.00
	Haryana	6518	0	138.7	87.4	-0.2	102	0.00
	Rajasthan	13406	0	262.0	73.6	-0.4	432	0.54
	Delhi	3241	0	61.1	46.9	-2.5	192	0.00
	UP	17210	0	311.5	94.4	-0.8	390	0.32
	Uttarakhand	1989	0	38.4	21.5	0.6	209	0.00
	HP	1737	0	31.4	26.4	0.7	120	0.00
	J&K(UT) & Ladakh(UT)	2557	500	51.7	42.8	-0.4	102	10.00
WR	Chandigarh	186	0	3.1	3.1	0.1	28	0.00
	Chhattisgarh	4545	0	105.5	49.0	0.2	196	0.00
	Gujarat	18025	0	387.1	142.0	0.5	880	0.00
	MP	12681	0	253.3	148.4	-1.2	502	0.00
	Maharashtra	24663	0	533.1	163.2	0.3	1090	0.00
	Goa	567	0	11.7	11.6	0.0	51	0.00
	DD	345	0	7.8	7.5	0.3	31	0.00
	DNH	873	0	20.2	20.0	0.3	52	0.00
SR	AMNSIL	741	0	16.3	2.0	0.4	269	0.00
	Andhra Pradesh	10703	0	209.8	74.9	0.2	513	0.00
	Telangana	13315	0	265.2	143.9	0.9	698	0.00
	Karnataka	13188	0	257.0	92.8	1.1	844	0.00
	Kerala	4001	0	81.9	51.2	0.4	402	0.00
	Tamil Nadu	15467	0	335.0	190.6	4.9	874	0.00
	Puducherry	378	0	7.9	8.0	-0.1	33	0.00
	ER	Bihar	4728	0	86.3	76.6	0.4	273
DVC		3160	0	68.1	-63.4	-1.0	369	0.00
Jharkhand		1420	0	26.6	19.1	-0.8	104	0.00
Odisha		4700	0	88.9	12.4	0.8	311	0.00
West Bengal		7833	0	156.4	21.6	-0.5	318	0.00
Sikkim		124	0	1.8	1.2	0.6	92	0.00
NER	Arunachal Pradesh	114	1	2.1	2.3	-0.2	18	0.01
	Assam	1302	152	21.1	16.4	-0.3	154	3.50
	Manipur	207	1	2.3	2.3	0.0	46	0.01
	Meghalaya	290	25	4.8	4.1	-0.1	53	1.02
	Mizoram	109	1	1.6	1.3	-0.1	32	0.01
	Nagaland	132	1	2.2	1.9	0.3	14	0.01
	Tripura	237	1	3.4	2.9	-1.0	29	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.3	-13.0	-23.4
Day Peak (MW)	343.0	-672.9	-1014.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	172.3	-201.6	174.2	-136.8	-8.0	0.0
Actual(MU)	157.3	-200.7	185.3	-136.7	-9.9	-4.7
OD/UD(MU)	-15.0	1.0	11.1	0.1	-1.8	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5800	17128	8272	2928	609	34737	48
State Sector	12902	14213	6712	3397	11	37234	52
Total	18702	31340	14984	6325	620	71971	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	595	1344	623	565	13	3140	77
Lignite	28	11	40	0	0	78	2
Hydro	117	55	101	32	10	315	8
Nuclear	23	21	33	0	0	77	2
Gas, Naptha & Diesel	30	53	16	0	30	128	3
RES (Wind, Solar, Biomass & Others)	107	77	173	5	0	362	9
Total	900	1560	987	602	53	4102	100

Share of RES in total generation (%)	11.89	4.91	17.58	0.85	0.30	8.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.44	9.78	31.25	6.17	18.78	18.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.081

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)  
Date of Reporting: 07-Mar-2021

Sl No	Voltage Level	Line Details	No. of 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	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	713	0.0	11.4	-11.4
4	765 kV	SASARAM-FATEHPUR	1	0	351	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	0	470	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	0	210	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	92	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	831	0.0	12.2	-12.2
9	400 kV	PATNA-BALIA	4	0	1243	0.0	22.2	-22.2
10	400 kV	BIHARSHARIF-BALIA	2	0	551	0.0	9.2	-9.2
11	400 kV	MOTIHARIGORAKHPUR	2	0	304	0.0	5.6	-5.6
12	400 kV	BIHARSHARIF-VARANASI	2	0	299	0.0	3.8	-3.8
13	220 kV	PUSAULI-SAHUPURI	1	37	86	0.0	0.8	-0.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
						ER-NR	90.8	-90.3
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1079	0	17.3	0.0	17.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	684	543	0.0	0.7	-0.7
3	765 kV	JHARSUGUDA-DURG	2	12	463	0.0	5.7	-5.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	531	0.0	8.4	-8.4
5	400 kV	RANCHI-SIPAT	2	120	189	0.0	1.0	-1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	185	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	59	41	0.3	0.0	0.3
						ER-WR	17.6	-1.3
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	535	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	48.9	-48.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2915	0.0	55.8	-55.8
4	400 kV	TALCHER-I/C	2	0	685	0.0	3.7	-3.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-117.1
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	413	0	7.1	0.0	7.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	700	0	11.6	0.0	11.6
3	220 kV	ALIPURDUAR-SALAKATI	2	69	0	1.2	0.0	1.2
						ER-NER	19.9	0.0
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.4	0.0	11.4
						NER-NR	11.4	0.0
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1922	0.0	37.6	-37.6
4	765 kV	GWALIOR-AGRA	2	0	2001	0.0	30.4	-30.4
5	765 kV	PHAGL-GWALIOR	2	0	1218	0.0	21.3	-21.3
6	765 kV	JABALPUR-ORAI	2	0	837	0.0	27.3	-27.3
7	765 kV	GWALIOR-ORAI	1	574	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	1217	0.0	24.6	-24.6
9	765 kV	CHITORGARH-BANASKANTHA	2	847	210	8.0	0.0	8.0
10	400 kV	ZERDA-KANKROLI	1	296	0	3.9	0.0	3.9
11	400 kV	ZERDA -BHINMAL	1	553	64	5.9	0.0	5.9
12	400 kV	VINDHYACHAL -RIHAND	1	995	0	22.8	0.0	22.8
13	400 kV	RAPP-SIHUAIPUR	2	78	261	0.0	2.4	-2.4
14	220 kV	BHANPURA-RANPUR	1	0	129	0.0	0.0	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	139	0	1.8	2.1	-0.4
17	220 kV	MALANPUR-AURAIYA	1	89	0	1.3	0.0	1.3
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	1.1	-1.1
						WR-NR	60.7	-86.2
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	13.7	-13.7
2	HVDC	RAIGARH-PUGAULUR	2	0	1513	0.0	38.3	-38.3
3	765 kV	SOLAPUR-RAICHUR	2	257	1985	0.0	27.0	-27.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2976	0.0	52.2	-52.2
5	400 kV	KOLHAPUR-KUDGI	2	1076	0	14.7	0.0	14.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDAM-AMBEWADI	1	1	84	1.3	0.0	1.3
						WR-SR	16.0	-115.2

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	226	0	103	2.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	50	42	50	1.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	5	0	-25	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	37	14	24	0.6
	NER	132kV Motanga-Rangis	24	1	11	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-359	-252	-325	-7.8
	ER	132KV-BIHAR - NEPAL	-234	-87	-143	-3.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-857	-832	-854	-20.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-60	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-60	-1.4