

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



Report for previous day

Date of Reporting: 04-Apr-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 20:00 hrs; from RLDCs)	47843	55306	48918	23446	2662	178175
Peak Shortage (MW)	793	0	0	0	52	845
Energy Met (MU)	940	1350	1255	496	46	4087
Hydro Gen (MU)	103	65	79	37	8	292
Wind Gen (MU)	14	46	98	-	-	157
Solar Gen (MU)*	52.61	41.03	113.22	5.42	0.21	212
Energy Shortage (MU)	8.32	0.00	0.00	0.00	0.04	8.36
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48100	59325	57990	23719	2864	178561
Time Of Maximum Demand Met (From NLDC SCADA)	20:00	15:56	12:23	19:44	18:48	19:30

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	1.79	7.66	9.45	79.64	10.90

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	5791	0	121.0	54.4	-1.0	117	0.88
	Haryana	6079	0	116.8	81.8	1.2	238	1.04
	Rajasthan	9994	0	203.5	27.6	-1.7	188	0.00
	Delhi	3289	0	68.3	53.4	-1.5	38	0.00
	UP	17864	0	312.5	123.5	-2.6	459	0.00
	Uttarakhand	1850	0	36.3	24.1	0.3	153	0.00
	HP	1488	0	28.7	20.6	1.0	238	0.00
	J&K(UT) & Ladakh(UT)	2755	350	49.7	39.3	1.2	731	6.40
	Chandigarh	168	0	3.3	3.3	0.0	41	0.00
	Chhattisgarh	4667	0	113.5	52.8	0.8	249	0.00
WR	Gujarat	18484	0	396.3	103.0	-0.5	459	0.00
	MP	10891	0	228.6	106.1	-1.3	344	0.00
	Maharashtra	25491	0	554.5	165.3	0.7	993	0.00
	Goa	534	0	11.4	11.3	-0.5	69	0.00
	DD	335	0	7.5	7.2	0.3	39	0.00
	DNH	837	0	19.5	18.9	0.6	77	0.00
	AMNSIL	812	0	18.4	1.2	0.3	346	0.00
	Andhra Pradesh	11472	0	231.5	117.9	0.6	922	0.00
	Telangana	13531	0	286.1	149.9	0.7	474	0.00
	Karnataka	13975	0	277.5	89.2	0.1	539	0.00
SR	Kerala	3937	0	83.1	60.5	-0.1	213	0.00
	Tamil Nadu	16310	0	367.8	201.0	-3.8	503	0.00
	Puducherry	425	0	9.1	9.4	-0.3	77	0.00
	Bihar	5416	0	99.1	88.2	0.2	463	0.00
	DVC	3320	0	72.1	-50.4	-0.7	185	0.00
	Jharkhand	1476	0	27.3	22.1	-1.9	132	0.00
	Odisha	5128	0	104.9	42.9	0.7	372	0.00
	West Bengal	9070	0	191.8	44.7	0.7	346	0.00
	Sikkim	68	0	1.0	1.4	-0.4	23	0.00
	ER	Arunachal Pradesh	114	3	2.1	2.0	-0.1	28
Assam		1625	44	28.2	23.5	0.4	103	0.00
Manipur		180	4	2.4	2.4	-0.1	20	0.01
Meghalaya		335	0	6.0	2.1	0.0	35	0.00
Mizoram		103	3	1.6	1.6	-0.1	18	0.01
Nagaland		127	2	2.0	1.8	0.2	21	0.01
Tripura		282	3	3.9	3.8	-0.5	13	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.7	-13.8	-21.7
Day Peak (MW)	218.0	-701.5	-1023.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	138.4	-324.8	228.5	-45.5	3.4	0.0
Actual(MU)	119.4	-313.3	223.1	-39.2	5.2	-4.7
O/D/U/D(MU)	-19.0	11.5	-5.3	6.3	1.8	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5199	14123	6832	3053	1222	30428	45
State Sector	15737	11726	6316	3953	11	37742	55
Total	20936	25848	13148	7006	1233	68170	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	564	1444	625	528	15	3177	76
Lignite	23	8	41	0	0	72	2
Hydro	103	65	79	37	8	292	7
Nuclear	27	21	42	0	0	89	2
Gas, Naptha & Diesel	33	51	13	0	23	121	3
RES (Wind, Solar, Biomass & Others)	87	87	246	5	0	425	10
Total	837	1676	1045	571	47	4176	100

Share of RES in total generation (%)	10.34	5.18	23.51	0.95	0.45	10.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.87	10.29	35.05	7.44	18.36	19.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.075
Based on State Max Demands	1.110

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: 04-Apr-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	248	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	154	268	0.0	0.5	-0.5
4	765 kV	SASARAM-FATEHPUR	1	39	150	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	9	299	0.0	3.5	-3.5
6	400 kV	PUSAULI-VARANASI	1	0	224	0.0	4.7	-4.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	69	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	225	295	0.0	1.0	-1.0
9	400 kV	PATNA-BALIA	4	0	600	0.0	8.1	-8.1
10	400 kV	BIHARSHARIFF-BALIA	2	152	167	0.0	0.8	-0.8
11	400 kV	MOTIHARI-GORAKHPUR	2	48	241	0.0	2.1	-2.1
12	400 kV	BIHARSHARIFF-VARANASI	2	72	149	0.0	0.8	-0.8
13	220 kV	PUSAULI-SAHUPURI	1	36	111	0.0	1.0	-1.0
14	132 kV	SONWAH-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	-0.3
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	0.3	-30.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2117	0	38.0	0.0	38.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	848	314	8.0	0.0	8.0
3	765 kV	JHARSUGUDA-DURG	2	208	38	2.3	0.0	2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	113	250	0.0	1.3	-1.3
5	400 kV	RANCHI-SIPAT	2	194	136	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	144	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	158	0	2.8	0.0	2.8
						ER-WR	52.1	48.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	418	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2471	0.0	48.2	-48.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3240	0.0	58.1	-58.1
4	400 kV	TALCHER-I/C	2	0	665	0.0	3.2	-3.2
5	220 kV	BALMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
						ER-SR	0.0	-115.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	211	91	1.9	0.0	1.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	370	78	4.1	0.0	4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	59	13	0.5	0.0	0.5
						ER-NER	6.6	6.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALL-AGRA	2	470	0	11.6	0.0	11.6
						NER-NR	11.6	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2010	0.0	42.1	-42.1
2	HVDC	VINDHYACHAL B/B	-	194	0	3.5	0.0	3.5
3	HVDC	MUNDA-MOHINDERGARH	2	0	1736	0.0	39.7	-39.7
4	765 kV	GWALIOR-AGRA	2	0	2324	0.0	37.2	-37.2
5	765 kV	PHAGI-GWALIOR	2	0	974	0.0	14.0	-14.0
6	765 kV	JABALPUR-ORAI	2	0	714	0.0	19.7	-19.7
7	765 kV	GWALIOR-ORAI	1	614	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1330	0.0	26.5	-26.5
9	765 kV	CHITORGARH-BANASKANTHA	2	1390	0	17.9	0.0	17.9
10	400 kV	ZERDA-KANKROLI	1	372	0	5.6	0.0	5.6
11	400 kV	ZERDA -BHINMAL	1	548	0	8.3	0.0	8.3
12	400 kV	VINDHYACHAL -RIHAND	1	991	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUALPUR	2	209	259	1.0	1.5	-0.5
14	220 kV	BHANPURA-RANPUR	1	41	42	0.2	0.2	0.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.6	0.0	0.6
16	220 kV	MEHGAON-AURAIYA	1	120	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	85	5	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	0.0	0.0
						WR-NR	72.1	-108.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1026	0.0	20.4	-20.4
2	HVDC	RAIGARH-PUGALUR	2	0	3021	0.0	63.8	-63.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1745	0.0	26.8	-26.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3184	0.0	58.7	-58.7
5	400 kV	KOLHAPUR-KUDGI	2	837	0	12.1	0.0	12.1
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	NELDEM-AMBEWADI	1	0	89	1.8	0.0	1.8
						WR-SR	13.9	-155.8
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)	71	0	51	1.2		
	ER	400KV TALA-BINAGURI 1,2,3 (400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	108	84	93	2.2		
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	25	0	3	0.1		
	NER	132KV-GEYLEGPHU - SALAKATI	-9	0	4	0.1		
	NER	132KV Motanga-Rangia	23	3	-13	-0.3		
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	-0.7		
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-320	-159	-303	-7.3		
	ER	132KV-BIHAR - NEPAL	-318	-98	-241	-5.8		
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-861	-602	-762	-18.3		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	81	0	-72	-1.7		
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	81	0	-72	-1.7		