

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



Report for previous day

Date of Reporting: 13-Jul-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)	61471	49059	38687	22775	3033	175025
Peak Shortage (MW)	200	0	0	0	5	205
Energy Met (MU)	1472	1137	866	507	57	4038
Hydro Gen (MU)	344	25	75	141	30	615
Wind Gen (MU)	11	58	206	-	-	275
Solar Gen (MU)*	42.57	30.56	66.91	4.67	0.26	145
Energy Shortage (MU)	3.50	0.00	0.00	0.00	0.05	3.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66870	49100	40387	23298	3037	176845
Time Of Maximum Demand Met (From NLDC SCADA)	11:58	11:00	09:27	00:02	19:49	11:41

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	0.53	3.30	3.83	59.41	36.76

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	11984	0	246.6	165.3	-6.0	53	0.00
	Haryana	11224	0	241.2	196.8	0.6	284	0.00
	Rajasthan	12032	0	262.1	74.4	-0.2	622	0.00
	Delhi	6417	0	129.8	117.0	-1.1	223	0.00
	UP	24112	0	475.3	237.3	0.1	538	0.00
	Uttarakhand	2130	0	46.6	20.6	1.5	160	0.05
	HP	1365	0	26.7	-5.2	-3.3	60	0.00
	J&K(UT) & Ladakh(UT)	2015	250	37.2	12.7	-1.0	242	3.45
WR	Chandigarh	352	0	6.3	6.9	-0.6	48	0.00
	Chhattisgarh	4170	0	100.3	54.3	0.1	211	0.00
	Gujarat	15317	0	330.2	157.5	2.4	666	0.00
	MP	9991	0	221.8	142.8	-1.5	417	0.00
	Maharashtra	19477	0	428.7	131.6	-4.2	678	0.00
	Goa	526	0	10.9	8.5	1.8	42	0.00
	DD	345	0	7.4	7.2	0.2	30	0.00
	DNH	843	0	19.4	19.3	0.1	65	0.00
SR	AMNSIL	864	0	18.4	4.7	0.2	317	0.00
	Andhra Pradesh	7574	0	163.7	31.8	0.6	462	0.00
	Telangana	8393	0	168.6	67.9	-0.9	569	0.00
	Karnataka	8598	0	165.7	9.8	-0.5	818	0.00
	Kerala	3081	0	63.3	33.5	0.4	223	0.00
	Tamil Nadu	13955	0	296.2	115.2	-1.5	487	0.00
	Puducherry	392	0	8.1	8.3	-0.2	37	0.00
	Bihar	6272	0	132.6	120.6	3.4	409	0.00
ER	DVC	3082	0	65.5	-40.6	-0.5	217	0.00
	Jharkhand	1470	0	29.4	24.9	-2.4	125	0.00
	Odisha	5732	0	104.3	38.1	0.6	420	0.00
	West Bengal	8529	0	173.1	50.1	1.1	489	0.00
	Sikkim	121	0	1.9	1.4	0.6	25	0.00
	NER	Arumachal Pradesh	133	0	2.4	2.4	0.0	23
Assam		2031	0	37.3	29.9	0.5	52	0.00
Manipur		195	1	2.5	2.6	0.0	20	0.02
Meghalaya		275	0	5.2	1.4	-0.3	19	0.00
Mizoram		103	1	1.6	1.6	-0.1	24	0.01
Nagaland		143	1	2.5	2.4	-0.1	22	0.01
Tripura		288	0	5.0	4.4	0.3	40	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	48.4	-8.9	-22.7
Dav Peak (MW)	2090.0	-561.2	-961.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	373.8	-188.8	-63.2	-118.6	-3.2	0.0
Actual(MU)	375.7	-180.7	-78.3	-123.0	-3.0	-9.3
OD/UD(MU)	1.9	8.1	-15.1	-4.4	0.2	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5443	15844	8482	1118	622	31509	47
State Sector	7255	17606	7408	3855	11	36135	53
Total	12698	33450	15890	4973	633	67644	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	619	1148	489	519	11	2785	67
Lignite	26	11	41	0	0	78	2
Hydro	344	25	75	141	30	615	15
Nuclear	27	32	43	0	0	101	2
Gas, Naptha & Diesel	31	29	11	0	24	95	2
RES (Wind, Solar, Biomass & Others)	71	89	300	5	0	466	11
Total	1118	1334	958	664	65	4140	100

Share of RES in total generation (%)	6.39	6.68	31.34	0.70	0.40	11.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.52	10.98	43.67	21.89	46.18	28.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.094

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: 13-Jul-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	1801	0.0	36.8	-36.8
2	HVDC	PUSAULI-B/B	-	0	248	0.0	5.5	-5.5
3	765 kV	GAYA-VARANASI	2	0	752	0.0	13.7	-13.7
4	765 kV	SASARAM-EATEHPUR	1	11	280	0.0	2.2	-2.2
5	765 kV	GAYA-BALIA	1	0	642	0.0	12.4	-12.4
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.5	-4.5
7	400 kV	PUSAULI-ALLAHABAD	1	79	79	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	693	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	4	0	1043	0.0	18.5	-18.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	425	0.0	6.8	-6.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	350	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	296	0.0	4.6	-4.6
13	220 kV	PUSAULI-SAHUPURI	1	0	147	0.0	2.2	-2.2
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	125.6	-125.1
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	217	1067	0.0	9.1	-9.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1641	0	27.2	0.0	27.2
3	765 kV	JHARSUGUDA-DURG	2	179	67	1.2	0.0	1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	41	329	0.0	3.7	-3.7
5	400 kV	RANCHI-SIPAT	2	418	0	6.5	0.0	6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	108	0	1.3	0.0	1.3
ER-WR						36.2	15.1	21.1
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	388	0	6.9	0.0	6.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1634	0.0	30.1	-30.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2036	0.0	30.6	-30.6
4	400 kV	TALCHER-J/C	2	880	0	13.1	0.0	13.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						6.9	60.7	-53.7
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	423	0.0	6.6	-6.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	25	356	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	0	146	0.0	2.2	-2.2
ER-NER						0.0	12.1	-12.1
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3526	0.0	65.3	-65.3
2	HVDC	VINDHYACHAL B/B	-	0	52	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1916	0.0	40.2	-40.2
4	765 kV	GWALIOR-AGRA	2	0	2940	0.0	55.8	-55.8
5	765 kV	GWALIOR-PHAGI	2	0	1868	0.0	37.6	-37.6
6	765 kV	JABALPUR-ORAI	2	0	1273	0.0	49.1	-49.1
7	765 kV	GWALIOR-ORAI	1	650	0	12.8	0.0	12.8
8	765 kV	SATNA-ORAI	1	0	1523	0.0	31.5	-31.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1193	44	13.6	0.0	13.6
10	400 kV	ZERDA-KANKROLI	1	271	4	3.2	0.0	3.2
11	400 kV	ZERDA-BHINMAL	1	398	13	5.0	0.0	5.0
12	400 kV	VINDHYACHAL-RIHAND	1	482	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUALPUR	2	0	610	0.0	9.4	-9.4
14	220 kV	BHANPURA-RANPUR	1	1	101	0.0	1.2	-1.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	0.6	-0.5
16	220 kV	MEHGAON-AURAIYA	1	84	15	0.1	0.4	-0.2
17	220 kV	MALANPUR-AURAIYA	1	50	41	0.4	0.0	0.4
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						46.4	292.3	-245.9
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	791	0	19.2	0.0	19.2
2	HVDC	RAIGARH-PUGALUR	2	1455	0	34.8	0.0	34.8
3	765 kV	SOLAPUR-RAICHUR	2	2314	204	24.3	0.0	24.3
4	765 kV	WARDHA-NIZAMABAD	2	297	1471	0.0	12.7	-12.7
5	400 kV	KOLHAPUR-KUDGI	2	1223	0	18.9	0.0	18.9
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	XELDEM-AMBEWADI	1	0	77	1.5	0.0	1.5
WR-SR						98.7	12.7	86.0
<b>INTERNATIONAL EXCHANGES</b>								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	659	0	645	15.5		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	1023	0	1017	24.4		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	311	0	275	6.6		
	NER	132kV GELEPHU-SALAKATI	31	21	26	0.6		
	NER	132kV MOTANGA-RANGIA	66	38	53	1.3		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-61	-1.5		
	ER	NEPAL IMPORT (FROM BIHAR)	-248	-66	-131	-3.1		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-235	-106	-180	-4.3		
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-817	-811	-813	-19.5		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-133	-3.2		