

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



Report for previous day

Date of Reporting: 12-Jun-2022

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)	65615	55107	43551	23265	2935	190473
Peak Shortage (MW)	144	0	0	812	46	1002
Energy Met (MU)	1602	1380	1072	544	56	4655
Hydro Gen (MU)	293	24	62	106	34	518
Wind Gen (MU)	64	120	184	-	-	368
Solar Gen (MU)*	113.60	46.95	110.54	5.31	0.61	277
Energy Shortage (MU)	20.97	0.00	0.00	3.81	0.17	24.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71861	61265	49285	24341	2946	206798
Time Of Maximum Demand Met (From NLDC SCADA)	14:00	14:32	15:00	23:35	20:00	14:45

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	0.033	0.00	1.16	4.44	5.60	78.02	16.38

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	11236	0	241.3	131.1	-1.1	102	0.00
	Haryana	10360	0	220.4	150.4	0.2	219	0.00
	Rajasthan	15629	0	322.3	82.8	2.8	487	3.48
	Delhi	6967	0	139.6	127.6	0.1	301	0.00
	UP	25248	0	530.7	262.3	2.1	1155	15.95
	Uttarakhand	2346	0	51.1	31.0	0.8	306	1.01
	HP	1702	0	35.5	9.3	0.4	134	0.00
	J&K(UT) & Ladakh(UT)	2214	180	54.0	27.2	1.6	238	0.53
WR	Chandigarh	369	0	7.2	7.1	0.1	50	0.00
	Chhattisgarh	4473	0	106.0	54.5	0.7	310	0.00
	Gujarat	20476	0	445.3	212.0	-2.0	812	0.00
	MP	11165	0	249.9	114.3	0.0	399	0.00
	Maharashtra	23377	0	520.2	156.9	-3.2	1120	0.00
	Goa	573	0	12.3	12.0	-0.2	53	0.00
	DNHDDPDCL	1233	0	28.5	28.5	0.0	61	0.00
	AMNSIL	797	0	17.5	11.0	-0.1	207	0.00
SR	Andhra Pradesh	11115	0	221.2	81.3	-0.3	1113	0.00
	Telangana	9385	0	190.1	78.0	1.3	598	0.00
	Karnataka	10681	0	208.5	34.9	-2.9	1021	0.00
	Kerala	3714	0	76.7	56.4	-0.1	233	0.00
	Tamil Nadu	16621	0	365.5	161.1	-1.9	439	0.00
	Puducherry	449	0	10.3	9.6	0.0	61	0.00
	Bihar	6259	652	127.1	116.3	-0.3	460	1.51
ER	DVC	3403	0	74.6	-44.4	-0.4	276	0.00
	Jharkhand	1532	365	33.4	24.1	0.3	229	2.30
	Odisha	5949	0	129.6	63.4	0.1	398	0.00
	West Bengal	8919	0	177.9	61.4	-1.8	374	0.00
	Sikkim	98	0	1.6	1.6	0.0	15	0.00
NER	Arunachal Pradesh	141	0	2.3	2.4	-0.1	38	0.00
	Assam	1852	0	36.3	28.4	0.2	115	0.00
	Manipur	191	0	2.6	2.6	0.0	25	0.00
	Meghalaya	314	45	5.2	0.4	0.0	87	0.17
	Mizoram	106	0	1.9	1.7	-0.3	34	0.00
	Nagaland	123	0	2.8	2.1	0.2	26	0.00
	Tripura	294	0	5.2	3.7	0.4	67	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.8	6.5	-25.1
Day Peak (MW)	1697.0	229.3	-1070.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	340.4	-217.3	6.0	-122.6	-6.5	0.0
Actual(MU)	332.3	-227.8	-0.2	-105.2	-7.0	-7.7
O/D/U/D(MU)	-8.1	-10.5	-6.2	17.5	-0.5	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3847	12836	5928	2930	668	26209	47
State Sector	8535	11796	8170	1310	152	29962	53
Total	12382	24631	14098	4240	821	56171	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	734	1366	577	578	14	3269	68
Lignite	28	14	56	0	0	97	2
Hydro	293	24	62	106	34	518	11
Nuclear	13	33	68	0	0	114	2
Gas, Naptha & Diesel	33	27	10	0	20	90	2
RES (Wind, Solar, Biomass & Others)	191	168	340	5	1	705	15
Total	1292	1631	1111	689	68	4792	100

Share of RES in total generation (%)	14.77	10.28	30.60	0.77	0.89	14.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.45	13.74	42.25	16.16	50.03	27.88

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.061

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: 12-Jun-2022

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	506	0.0	12.3	-12.3	
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.2	-1.2	
3	765 kV	GAYA-VARANASI	2	199	327	0.0	1.3	-1.3	
4	765 kV	SASARAM-FATEHPUR	1	0	417	0.0	7.2	-7.2	
5	765 kV	GAYA-BALIA	1	0	477	0.0	13.2	-13.2	
6	400 kV	PUSAULI-VARANASI	1	48	29	0.2	0.0	0.2	
7	400 kV	PUSAULI-ALLAHABAD	1	0	106	0.0	1.3	-1.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1299	0.0	22.8	-22.8	
9	400 kV	PATNA-BALIA	2	0	618	0.0	12.0	-12.0	
10	400 kV	NAUBATPUR-BALIA	2	0	669	0.0	13.1	-13.1	
11	400 kV	BIHARSHARIF-BALIA	2	0	836	0.0	12.4	-12.4	
12	400 kV	MOTHARI-GORAKHPUR	2	0	591	0.0	9.9	-9.9	
13	400 kV	BIHARSHARIF-VARANASI	2	0	336	0.0	4.1	-4.1	
14	220 kV	SAHUPURI-KARAMNANA	1	0	188	0.0	3.0	-3.0	
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.5	0.0	0.5	
17	132 kV	KARMANASA-SAHUPURI	1	0	63	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.7	113.7	-113.0
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	629	0	18.0	0.0	18.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1157	120	14.8	0.0	14.8	
3	765 kV	JHARSUGUDA-DURG	2	0	314	15.7	0.0	15.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	312	0.0	4.5	-4.5	
5	400 kV	RANCHI-SIPAT	2	193	24	2.6	0.0	2.6	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	92	0.0	1.2	-1.2	
7	220 kV	BUDHIPADAR-KORBA	2	153	0	2.2	0.0	2.2	
						ER-WR	53.3	5.7	47.6
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	0	0.0	7.3	-7.3	
2	HVDC	TALCHER-KOLAR BIPOLAR	2	0	1340	0.0	32.5	-32.5	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2529	0.0	40.5	-40.5	
4	400 kV	TALCHER-JC	2	575	0	12.4	0.0	12.4	
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	80.3	-80.3
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	214	379	0.0	1.2	-1.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	215	477	0.0	2.0	-2.0	
3	220 kV	ALIPURDUAR-SALAKATI	2	9	92	0.0	1.1	-1.1	
						ER-NER	0.0	4.2	-4.2
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	504	0.0	12.3	-12.3	
						NER-NR	0.0	12.3	-12.3
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3819	0.0	54.0	-54.0	
2	HVDC	VINDHYACHAL B/B	-	447	0	10.8	0.0	10.8	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1014	0.0	11.4	-11.4	
4	765 kV	GWALIOR-AGRA	2	0	2339	0.0	42.9	-42.9	
5	765 kV	GWALIOR-PHAGI	2	0	1605	0.0	24.1	-24.1	
6	765 kV	JABALPUR-ORAI	2	0	1094	0.0	38.8	-38.8	
7	765 kV	GWALIOR-ORAI	1	632	0	10.5	0.0	10.5	
8	765 kV	SATNA-ORAI	1	0	1139	0.0	23.7	-23.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	1281	757	7.6	2.9	4.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3744	0.0	72.2	-72.2	
11	400 kV	ZERDA-KANKROLI	1	306	75	2.7	0.0	2.7	
12	400 kV	ZERDA-BHINMAL	1	792	373	9.6	0.0	9.6	
13	400 kV	VINDHYACHAL-RIHAND	1	961	0	22.0	0.0	22.0	
14	400 kV	RAPP-SHUJALPUR	2	157	574	0.3	6.2	-5.9	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3	
17	220 kV	MEHGAON-AURAIYA	1	100	0	0.8	0.0	0.8	
18	220 kV	MALANPUR-AURAIYA	1	62	8	1.6	0.0	1.6	
19	132 kV	GWALIOR-SAWAL MADHOPUR	1	0	0	0.0	0.0	0.0	
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	65.7	278.6	-212.8
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	987	0	17.4	0.0	17.4	
2	HVDC	RAIGARH-PUGALUR	2	2399	0	25.7	0.0	25.7	
3	765 kV	SOLAPUR-RAICHUR	2	1352	1764	3.9	9.2	-5.3	
4	765 kV	WARDHA-NIZAMABAD	2	0	2562	0.0	35.2	-35.2	
5	400 kV	KOLHAPUR-KUDGI	2	1640	0	28.4	0.0	28.4	
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	97	1.9	0.0	1.9	
						WR-SR	77.2	44.4	32.8

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

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)	684	0	484	11.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*70MW))	949	0	585	14.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	249	0	186	4.5
	NER	132kV GELEPHU-SALAKATI	15	4	10	0.2
	NER	132kV MOTANGA-RANGIA	61	34	45	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-52	-1.3
	ER	NEPAL IMPORT (FROM BIHAR)	-89	0	-35	-0.8
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	394	244	360	8.6
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-942	-938	-941	-22.6
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-103	-2.5