

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



Report for previous day

Date of Reporting: 10-Oct-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)	48925	51507	38887	22432	3146	164897
Peak Shortage (MW)	5804	877	220	1422	14	8337
Energy Met (MU)	1187	1191	898	493	59	3828
Hydro Gen (MU)	221	65	151	115	24	576
Wind Gen (MU)	17	19	94	-	-	129
Solar Gen (MU)*	65.07	37.48	73.34	4.71	0.24	181
Energy Shortage (MU)	66.39	4.78	2.40	12.52	0.61	86.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56580	52158	41388	23098	3184	170039
Time Of Maximum Demand Met (From NLDC SCADA)	12:25	18:51	09:00	20:26	18:37	11:49

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	0.089	0.71	4.19	17.94	22.83	67.26	9.91

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	8227	2260	170.8	82.0	0.4	2048	23.50
	Haryana	8049	0	171.8	120.4	0.6	270	3.45
	Rajasthan	12515	24	236.0	80.3	2.2	462	24.07
	Delhi	4569	0	96.9	67.8	-0.9	152	0.02
	UP	18542	0	385.7	159.6	0.1	504	9.45
	Uttarakhand	1889	0	39.7	17.4	1.8	153	2.45
	HP	1536	0	32.7	11.4	-1.2	78	0.00
	J&K(UT) & Ladakh(UT)	2654	0	48.8	34.5	0.8	296	3.45
WR	Chandigarh	252	0	4.9	4.7	0.2	60	0.00
	Chhattisgarh	4160	28	97.8	55.1	0.1	309	1.07
	Gujarat	15793	0	358.7	199.7	6.1	749	3.39
	MP	10991	0	236.4	143.5	-0.7	572	0.00
	Maharashtra	19623	0	439.4	138.5	-2.9	606	0.00
	Goa	589	40	13.8	12.0	1.2	71	0.08
	DD	331	0	7.4	6.8	0.6	66	0.24
	DNH	849	0	19.6	19.4	0.2	87	0.00
SR	AMNSIL	811	0	17.7	5.8	-0.4	271	0.00
	Andhra Pradesh	8197	0	175.2	74.2	1.4	753	0.90
	Telangana	9288	0	187.3	26.5	-2.5	356	0.00
	Karnataka	8557	0	165.7	34.0	-2.8	596	0.45
	Kerala	3412	250	71.7	37.6	-0.4	166	1.05
	Tamil Nadu	13654	0	290.3	131.9	-2.8	880	0.00
ER	Puducherry	385	0	8.0	8.4	-0.4	17	0.00
	Bihar	5581	0	110.1	104.1	0.0	309	1.92
	DVC	3044	0	63.8	-20.8	1.4	456	2.62
	Jharkhand	1349	0	27.2	22.0	-0.7	111	7.97
	Odisha	5344	0	113.6	26.9	0.9	478	0.00
	West Bengal	8734	0	176.7	39.6	1.0	374	0.00
NER	Sikkim	93	0	1.5	1.5	0.0	46	0.00
	Arunachal Pradesh	147	0	2.3	2.0	0.1	36	0.00
	Assam	2060	0	39.5	31.1	0.5	161	0.60
	Manipur	209	0	2.7	2.8	0.0	16	0.00
	Meghalaya	317	0	5.3	2.8	-0.3	30	0.00
	Mizoram	109	0	1.6	0.8	0.1	27	0.01
	Nagaland	136	0	2.5	2.0	0.1	21	0.00
	Tripura	292	0	5.2	5.1	-0.1	83	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.1	3.0	-20.1
Day Peak (MW)	1714.0	209.0	-856.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.4	-101.1	-36.0	-83.6	2.3	0.0
Actual(MU)	215.3	-99.7	-45.2	-78.3	1.0	-6.9
O/D/U/D(MU)	-3.1	1.4	-9.2	5.3	-1.3	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4131	17005	8022	3135	409	32701	43
State Sector	10400	19542	9700	4260	11	43913	57
Total	14531	36547	17722	7395	420	76615	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	576	1102	503	468	10	2660	68
Lignite	23	9	35	0	0	66	2
Hydro	221	65	151	115	24	576	15
Nuclear	31	33	61	0	0	124	3
Gas, Naptha & Diesel	51	44	9	0	29	133	3
RES (Wind, Solar, Biomass & Others)	95	56	197	5	0	353	9
Total	996	1309	956	588	63	3913	100

Share of RES in total generation (%)	9.53	4.30	20.61	0.81	0.38	9.03
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.75	11.80	42.76	20.42	37.56	26.92

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.072

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: 10-Oct-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	1503	0.0	37.4	-37.4
2	HVDC	PUSAULI B/B	-	0	247	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	522	12	6.0	0.0	6.0
4	765 kV	SASARAMI-FATEHPUR	1	155	88	0.8	0.0	0.8
5	765 kV	GAYA-BALIA	1	0	391	0.0	6.1	-6.1
6	400 kV	PUSAULL-VARANASI	1	0	201	0.0	3.8	-3.8
7	400 kV	PUSAULLI-ALLAHABAD	1	0	119	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	103	344	0.0	2.2	-2.2
9	400 kV	PATNA-BALIA	4	86	325	0.0	2.6	-2.6
10	400 kV	BIHARSHARIFF-BALIA	2	288	0	3.6	0.0	3.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	218	0.0	2.3	-2.3
12	400 kV	BIHARSHARIFF-VARANASI	2	246	0	3.0	0.0	3.0
13	220 kV	PUSAULLI-SAHUPURI	1	31	44	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						13.7	62.8	-49.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	187	1056	0.0	7.8	-7.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1454	0	22.7	0.0	22.7
3	765 kV	JHARSUGUDA-DURG	2	248	0	3.3	0.0	3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	324	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	366	0	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	145	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	118	1	1.4	0.0	1.4
ER-WR						32.7	14.0	18.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	447	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1630	0.0	29.0	-29.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2025	0.0	30.3	-30.3
4	400 kV	TALCHER-IC	2	237	266	4.5	0.0	4.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
ER-SR						0.0	69.3	-69.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	520	0.0	9.1	-9.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	426	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	131	0.0	2.3	-2.3
ER-NER						0.0	16.9	-16.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	704	0.0	16.7	-16.7
NER-NR						0.0	16.7	-16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3537	0.0	70.2	-70.2
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2
3	HVDC	MUNDIRA-MOHINDERGARH	2	0	592	0.0	10.8	-10.8
4	765 kV	GWALIOR-AGRA	2	0	1656	0.0	21.7	-21.7
5	765 kV	GWALIOR-PHAGI	2	0	1824	0.0	36.2	-36.2
6	765 kV	JABALPUR-ORAI	2	0	931	0.0	30.6	-30.6
7	765 kV	GWALIOR-ORAI	1	633	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	1014	0.0	21.2	-21.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1632	0	29.6	0.0	29.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3219	0.0	62.3	-62.3
11	400 kV	ZERDA-KANKROLI	1	377	0	6.6	0.0	6.6
12	400 kV	ZERDA-BHINMAL	1	578	0	10.3	0.0	10.3
13	400 kV	VINDHYACHAL-RIHAND	1	967	0	22.5	0.0	22.5
14	400 kV	RAPP-SHUJALPUR	2	103	371	0.0	4.0	-4.0
15	220 kV	BHANPURA-RANPUR	1	53	71	0.2	0.4	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.0	0.1	1.0
17	220 kV	MEHGAON-AURAIYA	1	122	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	82	7	2.0	0.0	2.0
19	132 kV	GWALIOR-SAWAI 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						97.8	257.3	-159.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	476	0	9.8	0.0	9.8
2	HVDC	RAIGARH-PUGALUR	2	1943	0	46.4	0.0	46.4
3	765 kV	SOLAPUR-RAICHUR	2	2439	1305	9.8	0.0	9.8
4	765 kV	WARDHA-NIZAMABAD	2	904	1683	0.0	12.5	-12.5
5	400 kV	KOLHAPUR-KUDGI	2	1554	0	24.2	0.0	24.2
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	81	1.6	0.0	1.6
WR-SR						91.8	12.5	79.3

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)	718	0	453	10.9
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	709	545	566	13.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	233	0	189	4.5
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	55	31	46	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-56	0	-2	0.0
	ER	NEPAL IMPORT (FROM BIHAR)	160	0	87	2.1
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	105	4	41	1.0
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-723	-702	-717	-17.2
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-121	-2.9