

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



Report for previous day

Date of Reporting: 07-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)	50240	51707	40607	21647	3157	167358
Peak Shortage (MW)	5522	0	560	1729	12	7823
Energy Met (MU)	1208	1175	925	479	57	3845
Hydro Gen (MU)	227	80	146	114	28	595
Wind Gen (MU)	4	24	29	-	-	57
Solar Gen (MU)*	59.63	39.54	76.75	4.61	0.28	181
Energy Shortage (MU)	55.61	0.48	0.32	23.70	0.21	80.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55051	51999	44231	22898	3171	170972
Time Of Maximum Demand Met (From NLDC SCADA)	10:55	18:47	11:09	21:19	19:04	18:50

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	0.052	0.54	3.10	5.55	9.20	80.65	10.15

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	8182	650	185.6	80.1	-1.1	111	4.38
	Haryana	8240	0	177.7	124.7	0.6	355	4.24
	Rajasthan	11244	81	223.2	76.3	7.1	743	30.45
	Delhi	5189	0	111.0	77.0	-0.6	116	0.00
	UP	17476	0	386.8	157.0	-0.8	838	10.65
	Uttarakhand	1864	0	40.8	17.3	2.2	238	1.52
	HP	1568	0	32.4	8.6	0.9	250	0.92
	J&K(UT) & Ladakh(UT)	2681	200	45.6	31.2	1.1	400	3.45
	Chandigarh	263	0	5.3	4.7	0.7	94	0.00
	WR	Chhattisgarh	4004	0	94.3	40.6	-0.6	204
Gujarat		15182	0	342.0	179.5	2.4	945	0.48
MP		10453	0	228.1	137.5	0.6	424	0.00
Maharashtra		20196	0	451.1	147.9	0.4	1212	0.00
Goa		600	0	12.9	12.0	0.3	42	0.00
DD		349	0	7.7	6.7	1.0	86	0.00
DNH		842	0	19.6	19.1	0.5	99	0.00
AMNSIL		865	0	19.7	5.3	-0.3	303	0.00
Andhra Pradesh		8367	0	182.8	96.2	0.6	856	0.32
Telangana		10050	0	201.0	35.5	-0.7	736	0.00
SR	Karnataka	8499	0	169.1	44.3	-1.7	699	0.00
	Kerala	3613	0	74.4	39.8	0.2	232	0.00
	Tamil Nadu	13932	0	290.1	161.6	-2.9	390	0.00
	Puducherry	383	0	7.8	8.2	2.3	27	0.00
	Bihar	5404	500	98.1	89.2	-0.3	568	14.20
ER	DVC	3058	121	65.8	-20.1	1.3	316	1.03
	Jharkhand	1376	359	25.7	19.3	-0.3	157	8.47
	Odisha	5974	0	119.9	33.6	0.1	354	0.00
	West Bengal	8258	0	168.2	36.5	-0.2	344	0.00
	Sikkim	99	0	1.6	1.5	0.1	7	0.00
NER	Arunachal Pradesh	142	0	2.5	2.2	0.1	26	0.00
	Assam	2060	0	36.3	27.5	1.0	205	0.18
	Manipur	207	0	2.6	2.7	-0.1	35	0.00
	Meghalaya	325	0	6.0	0.3	0.0	42	0.03
	Mizoram	111	0	1.7	0.8	0.4	31	0.00
	Nagaland	141	0	2.4	2.1	-0.2	32	0.00
	Tripura	314	0	5.1	4.7	-0.1	95	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	31.6	2.4	-20.1
Day Peak (MW)	1554.0	-11.0	-865.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	211.2	-129.6	29.0	-104.8	-5.8	0.0
Actual(MU)	198.5	-128.3	24.4	-93.8	-5.9	-5.0
O/D/U/D(MU)	-12.7	1.4	-4.6	11.0	-0.1	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3590	16409	7772	3310	772	31853	42
State Sector	10350	19570	8610	4815	11	43356	58
Total	13940	35979	16382	8125	783	75209	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	604	1078	517	476	12	2686	68
Lignite	0	24	0	0	0	77	2
Hydro	227	80	146	114	28	594	15
Nuclear	31	33	65	0	0	129	3
Gas, Naptha & Diesel	65	54	9	0	28	156	4
RES (Wind, Solar, Biomass & Others)	77	64	137	5	0	283	7
Total	1027	1321	915	595	68	3925	100

Share of RES in total generation (%)	7.41	4.87	14.97	0.78	0.41	7.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.93	13.43	38.02	19.89	41.36	25.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.062

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-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	36.0	-36.0	
2	HVDC	PUSAULI B/B	-	0	247	0.0	5.8	-5.8	
3	765 kV	GAYA-VARANASI	2	512	31	6.5	0.0	6.5	
4	765 kV	SASARAM-FATEHPUR	1	194	93	1.0	0.0	1.0	
5	765 kV	GAYA-BALIA	1	0	476	0.0	9.2	-9.2	
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	3.8	-3.8	
7	400 kV	PUSAULI-ALLAHABAD	1	0	172	0.0	2.1	-2.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	417	0.0	5.5	-5.5	
9	400 kV	PATNA-BALIA	4	0	668	0.0	13.2	-13.2	
10	400 kV	BIHARSHARIFF-BALIA	2	0	204	0.0	3.2	-3.2	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	257	0.0	3.7	-3.7	
12	400 kV	BIHARSHARIFF-VARANASI	2	159	68	1.7	0.0	1.7	
13	220 kV	PUSAULI-SAHUPURI	1	24	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	0.2	0.0	0.2	
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	9.3	82.7	-73.4
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	825	135	8.9	0.0	8.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1145	0	16.8	0.0	16.8	
3	765 kV	JHARSUGUDA-DURG	2	205	0	3.1	0.0	3.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	127	242	0.0	1.2	-1.2	
5	400 kV	RANCHI-SIPAT	2	318	0	4.5	0.0	4.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	169	0	2.8	0.0	2.8	
						ER-WR	36.1	3.5	32.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	392	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1391	0.0	33.7	-33.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2420	0.0	41.2	-41.2	
4	400 kV	TALCHER-I/C	2	33	78	0.0	0.7	-0.7	
5	220 kV	BALMEL A-UPPER-SILERRU	1	2	0	0.0	0.0	0.0	
						ER-SR	0.0	83.5	-83.5
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	294	0.0	5.8	-5.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	168	230	0.1	0.0	0.1	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.5	-1.5	
						ER-NER	0.1	7.3	-7.3
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	703	0.0	14.0	-14.0	
						NER-NR	0.0	14.0	-14.0
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3024	0.0	45.5	-45.5	
2	HVDC	VINDHYACHAL B/B	-	450	0	12.2	0.0	12.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	298	0.0	7.4	-7.4	
4	765 kV	GWALIOR-AGRA	2	211	1649	0.1	20.7	-20.6	
5	765 kV	GWALIOR-PHAGI	2	0	1758	0.0	29.5	-29.5	
6	765 kV	JABALPUR-ORAI	2	0	767	0.0	26.9	-26.9	
7	765 kV	GWALIOR-ORAI	1	620	0	11.8	0.0	11.8	
8	765 kV	SAINA-ORAI	1	0	960	0.0	28.0	-28.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	1806	0	27.8	0.0	27.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	3108	0.0	60.6	-60.6	
11	400 kV	ZERDA-KANKROLI	1	354	0	3.6	0.0	3.6	
12	400 kV	ZERDA-BHINMAL	1	629	0	9.2	0.0	9.2	
13	400 kV	VINDHYACHAL-RIHAND	1	965	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHILJALPUR	2	186	309	0.6	2.4	-1.8	
15	220 kV	BHANPURA-RANPUR	1	57	42	0.3	0.2	0.1	
16	220 kV	BHANPURA-MORAK	1	0	30	1.2	0.0	1.2	
17	220 kV	MEHGAON-AURAIYA	1	164	0	1.7	0.0	1.7	
18	220 kV	MALANPUR-AURAIYA	1	119	0	2.5	0.0	2.5	
19	132 kV	GWALIOR-SAWALMADHOPUR	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	93.3	213.1	-119.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	449	0	9.7	0.0	9.7	
2	HVDC	RAIGARH-PUGALUR	2	1167	0	27.6	0.0	27.6	
3	765 kV	SOLAPUR-RAICHUR	2	754	1574	0.0	19.1	-19.1	
4	765 kV	WARDHA-NIZAMABAD	2	0	2027	0.0	24.8	-24.8	
5	400 kV	KOLHAPUR-KUDGI	2	1352	0	20.4	0.0	20.4	
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	1	81	1.3	0.0	1.3	
						WR-SR	59.0	34.9	24.1

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)	439	0	413	9.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	782	0	641	15.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	277	0	219	5.3
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.0
	NER	132kV MOTANGA-RANGIA	56	34	44	1.1
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-6	-0.2
	ER	NEPAL IMPORT (FROM BIHAR)	198	-45	103	2.5
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-139	70	4	0.1
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-727	-724	-725	-17.4
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-114	-2.7