

Report for previous day

Date of Reporting: 20-Jan-2023

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)	54991	59814	43243	20690	2783	181521
Peak Shortage (MW)	198	0	0	317	0	515
Energy Met (MU)	1203	1436	1062	430	49	4180
Hydro Gen (MU)	105	54	83	29	9	280
Wind Gen (MU)	51	73	73	-	-	197
Solar Gen (MU)*	87.34	56.37	130.89	1.70	0.72	277
Energy Shortage (MU)	16.66	0.00	0.00	3.15	0.13	19.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60992	69900	55861	21533	2868	207686
Time Of Maximum Demand Met (From NLDC SCADA)	11:16	10:16	09:55	18:19	17:47	09:45

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	0.149	3.08	5.58	8.66	17.31	56.16	26.52

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	857	0	157.3	46.6	-2.0	46	0.20
	Haryana	7846	0	149.6	75.9	-1.3	112	0.49
	Rajasthan	16059	485	301.3	93.3	-1.8	234	14.33
	Delhi	4828	0	82.5	75.3	-2.4	254	0.00
	UP	20170	0	362.4	102.1	-1.0	473	0.00
	Uttarakhand	2440	0	45.6	33.9	0.6	144	1.64
	HP	1977	0	35.5	28.9	0.2	125	0.00
	J&K(UT) & Ladakh(UT)	3010	0	64.7	62.5	-2.3	20	0.00
	Chandigarh	294	0	4.6	5.0	-0.4	14	0.00
	Chhattisgarh	4952	0	105.7	53.8	-0.3	291	0.00
WR	Gujarat	18679	0	388.7	204.6	-0.3	705	0.00
	MP	16732	0	322.5	190.7	-2.3	406	0.00
	Maharashtra	27232	0	549.0	167.8	-1.3	659	0.00
	Goa	639	0	14.0	12.3	1.2	32	0.00
	DNHDDPDCL	1226	0	28.1	28.2	-0.1	44	0.00
	AMNSIL	743	0	15.6	10.4	-1.5	256	0.00
	BALCO	515	0	12.3	12.3	0.0	10	0.00
	Andhra Pradesh	11104	0	200.4	67.3	-0.1	400	0.00
	Telangana	13697	0	236.6	101.4	0.8	640	0.00
	Karnataka	14003	0	242.4	78.4	-3.6	536	0.00
SR	Kerala	3887	0	75.5	55.9	0.0	231	0.00
	Tamil Nadu	14837	0	298.9	156.4	0.5	869	0.00
	Puducherry	373	0	8.1	8.2	-0.8	16	0.00
	Bihar	5553	0	95.6	86.9	-3.3	203	0.26
	DVC	3559	0	74.9	42.5	0.7	244	0.00
ER	Jharkhand	1565	0	29.6	22.0	-1.9	137	2.90
	Odisha	4481	0	91.9	22.1	-1.7	309	0.00
	West Bengal	7281	0	136.1	6.4	-1.9	210	0.00
	Sikkim	131	0	2.1	2.1	0.0	24	0.00
	Arunachal Pradesh	161	0	2.7	2.6	0.0	30	0.00
NER	Assam	1582	0	26.6	21.1	0.2	140	0.13
	Manipur	253	0	3.5	3.4	0.2	33	0.00
	Meghalaya	400	0	7.4	6.2	-0.1	33	0.00
	Mizoram	153	0	2.3	1.7	-0.1	21	0.00
	Nagaland	139	0	2.1	2.0	-0.1	26	0.00
	Tripura	234	0	4.0	2.4	0.1	98	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	-3.7	-10.6	-22.5
Day Peak (MW)	-337.2	-502.7	-1050.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	171.1	-106.5	99.9	-169.1	4.7	0.0
Actual(MU)	166.3	-95.8	94.3	-173.7	5.1	-3.7
O/D/U/D(MU)	-4.8	10.8	-5.6	-4.6	0.4	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6379	14211	7548	2255	734	31127	51
State Sector	6555	14693	6510	2210	139	30107	49
Total	12934	28904	14058	4465	873	61233	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1394	598	662	11	3446	76
Lignite	31	10	50	0	0	90	2
Hydro	105	54	83	29	9	280	6
Nuclear	26	37	76	0	0	140	3
Gas, Naptha & Diesel	12	6	6	0	29	53	1
RES (Wind, Solar, Biomass & Others)	166	131	223	3	1	525	12
Total	1124	1631	1036	693	50	4534	100

Share of RES in total generation (%)	14.78	8.04	21.57	0.46	1.45	11.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.51	13.62	36.93	4.61	20.28	20.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.056

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.

**Note: All generation MU figures are gross

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export=(-ve) for NET (MU)
Date of Reporting: 20-Jan-2023

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	249	0.0	5.9	-5.9	
3	765 kV	GAYA-VARANASI	2	0	871	0.0	12.4	-12.4	
4	765 kV	SASARAM-FAITEHPUR	1	0	467	0.0	7.5	-7.5	
5	765 kV	GAYA-BALIA	1	0	712	0.0	11.3	-11.3	
6	400 kV	PUSAULI-VARANASI	1	0	163	0.0	3.0	-3.0	
7	400 kV	PUSAULI-ALLAHABAD	1	0	163	0.0	2.9	-2.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	601	0.0	8.6	-8.6	
9	400 kV	PATNA-BALIA	2	0	604	0.0	11.7	-11.7	
10	400 kV	NAUBATTI-BALIA	2	0	655	0.0	12.5	-12.5	
11	400 kV	BIHARSHARIFE-BALIA	2	0	342	0.0	5.3	-5.3	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	460	0.0	7.9	-7.9	
13	400 kV	BIHARSHARIFE-VARANASI	2	0	385	0.0	6.2	-6.2	
14	220 kV	SAHUPUR-BAKAMANASA	1	6	114	0.0	1.4	-1.4	
15	132 kV	NAGAR-UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	25	0	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	3	46	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	96.3	-95.8
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	496	586	0.0	3.1	-3.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	682	666	0.0	0.0	0.0	
3	765 kV	JHARSUGUDA-DURG	2	0	554	0.0	10.0	-10.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	747	0.0	11.8	-11.8	
5	400 kV	RANCHI-SIPAT	2	108	276	0.0	1.7	-1.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	201	0.0	3.5	-3.5	
7	220 kV	BUDHIPADAR-KORBA	2	58	150	0.0	1.3	-1.3	
						ER-WR	0.0	31.3	-31.3
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	330	0.0	7.2	-7.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	32.0	-32.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3311	0.0	62.4	-62.4	
4	400 kV	TALCHER-IC	2	662	217	11.7	0.0	11.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	101.6	-101.6
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAOON	2	108	98	0.9	0.2	0.7	
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	417	191	4.7	0.0	4.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	39	22	0.5	0.0	0.5	
						ER-NER	6.1	0.2	5.9
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	474	0	11.4	0.0	11.4	
						NER-NR	11.4	0.0	11.4
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2033	0.0	45.5	-45.5	
2	HVDC	VINDHYACHAL B/B	-	438	0	12.1	0.0	-12.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	262	0.0	4.6	-4.6	
4	765 kV	GWALIOR-AGRA	2	0	2056	0.0	22.3	-22.3	
5	765 kV	GWALIOR-PHAGI	2	0	1807	0.0	27.7	-27.7	
6	765 kV	JABALPUR-ORAI	2	0	1042	0.0	27.4	-27.4	
7	765 kV	GWALIOR-ORAI	1	989	0	15.7	0.0	15.7	
8	765 kV	SATNA-ORAI	1	0	1034	0.0	18.7	-18.7	
9	765 kV	BANASKANTHA-CHITORGARH	2	2340	0	29.7	0.0	29.7	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2594	0.0	34.4	-34.4	
11	400 kV	ZERDA-KANKROLI	1	470	0	5.0	0.0	5.0	
12	400 kV	ZERDA-BHINMAL	1	692	0	7.8	0.0	7.8	
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.5	0.0	21.5	
14	400 kV	RAPP-SHUJALPUR	2	358	427	0.9	1.6	-0.8	
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0	
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6	
17	220 kV	MEHGAON-AURAIYA	1	141	0	0.5	0.0	0.5	
18	220 kV	MALANPUR-AURAIYA	1	89	5	1.7	0.0	1.7	
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	95.0	183.8	-88.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	984	1009	6.4	6.7	-0.3	
2	HVDC	RAIGARH-PUGALUR	2	2402	3000	6.8	0.0	6.8	
3	765 kV	SOLAPUR-RAICHUR	2	467	2104	0.1	18.6	-18.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3440	0.0	50.4	-50.4	
5	400 kV	KOLHAPUR-KUDGI	2	1448	0	24.1	0.0	24.1	
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	XELDEM-AMBEWADI	1	0	83	0.0	0.0	0.0	
						WR-SR	37.5	75.7	-38.2
INTERNATIONAL EXCHANGES									
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)	0	0	0	-2.13			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	137	0	24	0.85			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*90MW)	0	0	0	-1.92			
	NER	132kV GELEPHU-SALAKATI	-20	-4	-14	-0.34			
	NER	132kV MOTANGA-RANGIA	-11	11	-6	-0.14			
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.56			
	ER	NEPAL IMPORT (FROM BIHAR)	-103	-63	-85	-2.03			
	ER	400kV DHALKHEBAR-MUZAFFARPUR 1&2	-322	-179	-293	-7.04			
BANGLADESH	ER	BHERAMARA B/B HVDC (BANGLADESH)	-932	-500	-839	-20.13			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-118	0	-99	-2.38			