

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

विभाषर

दिनांक: 12th July 2023

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के.,14, गोल्फ क्लब रोड, कोलकाता 700033
 Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ. क्षे. भा. प्रे. के., 18/ ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली 110016
 Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi 110016
- 3. कार्यकारी निदेशक, प .क्षे .भा .प्रे .के., एफ3-, एम आई डी सी क्षेत्र , अंधेरी, मुंबई –400093 Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. कार्यकारी निदेशक , द .क्षे .भा .प्रे .के.,29 , रेस कोर्स क्रॉस रोड, बंगलुरु –560009 Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 11.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-जुलाई-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध है |

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 11th July 2023, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Date of Reporting: 12-Jul-2023

Report for previous day

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)	63185	54836	44508	26486	3206	192221
Peak Shortage (MW)	770	0	0	0	31	801
Energy Met (MU)	1339	1285	1078	594	63	4359
Hydro Gen (MU)	182	50	61	129	31	454
Wind Gen (MU)	27	143	161	-	-	331
Solar Gen (MU)*	132.73	40.50	81.76	2.31	0.64	258
Energy Shortage (MU)	5.85	0.00	0.00	0.29	1.08	7.22
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64899	56753	50656	28379	3299	193441
Time Of Maximum Demand Met	22:41	19:43	11:15	23:02	18:55	19:54

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	0.036	0.00	0.83	3.68	4.51	74.68	20.81			

C. Power Supply Position in States

ower Supply Po		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	O.M.D.	Schedule	(MIII)	(3.433)	Shortage (MU)
_		day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(MW)	
	Punjab	10466	0	216.7	141.2	-0.9	286	0.00
	Haryana	8911	0	178.1	130.1	-0.9	295	0.00
	Rajasthan	11743	0	254.9	74.6	-1.0	285	0.00
	Delhi	5260	0	110.2	106.5	-2.6	80	0.00
NR	UP	23551	0	457.9	182.2	0.6	510	0.06
	Uttarakhand	1750	0	36.8	31.7	2.1	414	2.42
	HP	1180	0	24.2	16.9	3.8	953	0.66
	J&K(UT) & Ladakh(UT)	2452	240	52.1	24.9	-2.2	267	2.71
	Chandigarh	246	0	4.9	4.7	0.2	64	0.00
	Railways_NR ISTS	145	0	3.0	3.2	-0.2	34	0.00
	Chhattisgarh	4905	0	108.0	61.2	-3.8	239	0.00
	Gujarat	15839	0	352.7	153.9	-0.7	803	0.00
	MP	10616	0	227.6	99.0	-3.4	247	0.00
WR	Maharashtra	24048	0	523.2	184.4	0.6	770	0.00
	Goa	646	0	12.8	13.1	-0.4	52	0.00
	DNHDDPDCL	1287	0	30.2	30.3	-0.1	42	0.00
	AMNSIL	865	0	17.8	10.6	-0.8	230	0.00
	BALCO	519	0	12.4	12.5	-0.1	6	0.00
	Andhra Pradesh	10138	0	216.1	46.7	1.8	988	0.00
	Telangana	11571	0	226.8	107.5	0.5	735	0.00
SR	Karnataka	11718	0	219.0	63.7	1.1	856	0.00
	Kerala	3856	0	78.3	55.6	1.9	335	0.00
	Tamil Nadu	15810	0	328.4	170.0	-4.6	284	0.00
	Puducherry	427	0	9.6	9.2	-0.3	50	0.00
	Bihar	6522	279	137.6	131.2	-3.1	126	0.29
	DVC	3379	0	77.0	-38.7	0.0	236	0.00
	Jharkhand	1817	0	39.9	34.4	0.4	156	0.00
ER	Odisha	6321	0	123.4	50.2	1.3	409	0.00
	West Bengal	10297	0	214.9	106.5	-2.2	214	0.00
	Sikkim	90	0	1.5	1.5	0.0	16	0.00
	Railways_ER ISTS	19	0	0.1	0.3	-0.2	7	0.00
	Arunachal Pradesh	145	0	2.7	2.3	0.2	55	0.00
	Assam	2155	0	42.2	36.0	0.8	105	0.00
	Manipur	163	0	2.6	2.4	0.1	52	0.00
NER	Meghalaya	302	0	5.1	0.9	-0.2	35	1.08
	Mizoram	110	0	2.0	1.6	0.0	24	0.00
	Nagaland	162	0	3.0	2.6	0.0	45	0.00
	Tripura	308	0	5.4	6.1	0.1	68	0.00

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)								
	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh				
Actual (MU)	41.1	7.5	-25.1	-14.7				
Day Peak (MW)	2011.0	338.0	-1096.0	-909.0				

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	327.7	-305.9	89.5	-107.1	-4.2	0.0
Actual(MU)	310.5	-305.5	110.6	-116.7	-2.8	-3.9
O/D/U/D(MU)	-17.2	0.4	21.2	-9.6	1.4	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	9412	9711	7288	1405	305	28121	45
State Sector	8025	15404	7403	3460	322	34613	55
Total	17437	25115	14691	4865	626	62734	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	709	1398	611	647	15	3381	72
Lignite	25	16	55	0	0	96	2
Hydro	182	50	61	129	31	454	10
Nuclear	25	47	41	0	0	113	2
Gas, Naptha & Diesel	11	15	7	0	26	59	1
RES (Wind, Solar, Biomass & Others)	165	184	262	3	1	615	13
Total	1117	1710	1036	779	73	4717	100
Share of RES in total generation (%)	14.78	10.78	25.25	0.41	0.90	13.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.30	16.45	35.12	17.28	43.02	25.12	

H. All India Demand Diversity Factor

11. All filula Demand Diversity Factor	
Based on Regional Max Demands	1.054
Based on State Max Demands	1.084

I. All India Peak Demand and shortage at Solar and Nor	-Solar Hour
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	8		
	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	192549	11:17	234
Non-Solar hr	193441	19:54	675

 $\label{eq:Diversity factor} Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand **Note:\ All\ generation\ MU\ figures\ are\ gross$

Solar Hours -> 06:00 to 18:00hrs and rest are Non-Solar Hours
*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

^{****}Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 12-Jul-2023

							Date of Reporting:	12-Jul-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
	t/Export of ER (1502	0.0	27.4	28.4
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	1502 147	0.0	37.4 3.6	-37.4 -3.6
3	765 kV 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	571 171	267 282	2.3	0.0 2.3	2.3 -2.3
5	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0	703 148	0.0 0.0	11.6 2.6	-11.6 -2.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	0.9	-0.9
9	400 kV 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	650 490	0.0	10.9 9.8	-10.9 -9.8
10 11	400 kV 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0 51	513 270	0.0	9.8 3.3	-9.8 -3.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	385	0.0	7.1	-7.1
13 14	400 kV 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	243	115 132	0.4	0.0 1.6	0.4 -1.6
15 16	132 kV 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0	0.0	0.0 0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	43	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	3.3	0.0 100.9	0.0 -97.6
Impor	t/Export of ER (1 4450			0.0	-1-
2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	2	1652 1566	0 129	21.7 22.8	0.0 0.0	21.7 22.8
3	765 kV 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	142 135	439 430	0.0	2.1 2.1	-2.1 -2.1
5	400 kV	RANCHI-SIPAT	2	347	92	4.9	0.0	4.9
7	220 kV 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0 109	44 0	0.0 1.7	1.6 0.0	-1.6 1.7
T	4/E and af ED (U/AL CD)			ER-WR	51.1	5.7	45.3
1mpor	t/Export of ER (\) HVDC	JEYPORE-GAZUWAKA B/B	2	0	448	0.0	10.1	-10.1
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1654 2793	0.0	39.0 41.1	-39.0 -41.1
4	400 kV	TALCHER-I/C	2	217	334	0.0	5.9	-5.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 90.2	0.0 -90.2
	t/Export of ER (T	T				
2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0 207	475 237	0.0	7.4 0.9	-7.4 -0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	96	0.0	1.4 9.8	-1.4
Impor	t/Export of NER	(With NR)			ER-NER	0.0	9.8	-9.8
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	13.7	-13.7
Impor	t/Export of WR	(With NR)			NER-NR	0.0	13.7	-13.7
1	HVDC	CHAMPA-KURUKSHETRA	2	0	6049	0.0	82.4	-82.4
3	HVDC HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	442 262	0	11.6 5.0	0.0	11.6 5.0
5	765 kV 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	0 174	2149 1724	0.0	29.7 20.1	-29.7 -19.8
6	765 kV	JABALPUR-ORAI	2	0	1081	0.0	30.0	-30.0
8	765 kV 765 kV	GWALIOR-ORAI SATNA-ORAI	1	611	0 1069	9.8 0.0	0.0 20.8	9.8 -20.8
9	765 kV 765 kV	BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2	535 0	1064 3535	3.5 0.0	8.7 62.7	-5.2 -62.7
11	400 kV	ZERDA-KANKROLI	1	146	160	0.9	1.0	-0.1
12	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	416 962	213 0	3.5 21.8	0.6 0.0	3.0 21.8
14 15	400 kV 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	2	185 0	638	0.8	5.5 0.0	-4.6 0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17 18	220 kV 220 kV	MEHGAON-AURAIYA MALANPUR-AURAIYA	1	95 69	10	1.2 0.6	0.0	1.2 0.6
19 20	132 kV 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
			-	U	WR-NR	59.0	263.4	-204.4
Impor	t/Export of WR (HVDC	(With SR) BHADRAWATI B/B	I -	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	4012	0.0	41.7	-41.7
4	765 kV 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	1320 0	2130 3204	8.8 0.0	4.0 34.8	4.8 -34.8
5	400 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1166 0	0	21.5 0.0	0.0	21.5 0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	WR-SR	2.1 32.4	0.0 87.8	2.1 -55.4
		IN	TERNATIONAL EX	CHANGES				+ve)/Export(-ve)
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
			400kV MANGDECHHU-	ALIPURDUAR 1,2&3 i.e.			0 ()	(MU)
		ER	ALIPURDUAR RECEIPT HEP 4*180MW)	Γ (from MANGDECHU	685	470	636	15.27
		TIP.	400kV TALA-BINAGUR		1027		902	21.44
		ER	MALBASE - BINAGUR RECEIPT (from TALA H 220kV CHUKHA-BIRPA		1026	660	893	21.44
	BHUTAN	ER	220kV CHUKHA-BIRPA MALBASE - BIRPARA)		166	112	133	3.19
		LAN	(from CHUKHA HEP 4*8		100	112	100	3.17
		NER	132kV GELEPHU-SALA	KATI	39	0	25	0.61
	NER		132kV MOTANGA-RAN	GIA	56	8	26	0.63
	NR		132kV MAHENDRANAG	GAR-TANAKPUR(NHPC)	0	0	0	-0.64
							_	
		ER	NEPAL IMPORT (FROM	M BIHAR)	0	0	0	0.00
		400LV DHAT WEBAR 25	UZAEFADDUD 102	400	207	229	0.10	
		EK	400kV DHALKEBAR-MUZAFFARPUR 1&2		400	297	338	8.10
		ER	BHERAMARA B/B HVD	OC (B'DESH)	-930	-813	-904	-21.69
					-500	-010		-2107
В	ANGLADESH	ER	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-909	0	-614	-14.73
		(Isolated from Indian Grid)						
		NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-166	0	-143	-3.44
		l	l					