

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, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 03rd July 2023

Τo,

- 1. 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 02.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd July 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day Date of Reporting: 03-Jul-2023

A. Power Supply Position at All India and Regional level	l
--	---

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	67317	52503	42599	24630	3086	190135
Peak Shortage (MW)	885	0	0	0	0	885
Energy Met (MU)	1472	1207	1073	547	58	4357
Hydro Gen (MU)	402	45	40	132	23	641
Wind Gen (MU)	29	88	209	-	-	325
Solar Gen (MU)*	136.43	48.26	100.21	2.63	0.68	288
Energy Shortage (MU)	5.11	0.00	0.00	0.51	1.08	6.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69384	53575	50039	26290	3098	194770
Time Of Maximum Demand Met	22:05	19:55	12:45	23:22	20:38	22:20

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	0.073	1.15	2.49	8.90	12.53	71.55	15.91

C. Power Supply Position in States

Region	States	Max.Demand Met during the	Shortage during maximum	Energy Met (MU)	Drawal Schedule	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
		day (MW)	Demand (MW)	(MC)	(MU)	(NIC)	(17177)	
	Punjab	14182	0	306.7	203.9	-0.7	142	0.00
	Haryana	10528	0	223.8	167.6	0.6	214	0.00
	Rajasthan	11832	0	260.8	74.0	-2.0	252	0.00
	Delhi	6170	0	116.8	113.4	-2.4	64	0.00
NR	UP	22951	680	428.4	197.9	-0.4	467	4.67
	Uttarakhand	2014	0	41.8	15.3	0.3	123	0.11
	HP	1480	24	30.7	-11.9	-0.2	50	0.24
	J&K(UT) & Ladakh(UT)	2421	0	53.8	24.9	0.8	159	0.09
	Chandigarh	328	0	6.2	6.2	0.0	31	0.00
	Railways_NR ISTS	163	0	3.5	3.5	0.0	15	0.00
	Chhattisgarh	4913	0	109.7	62.7	-0.9	285	0.00
	Gujarat	14621	0	323.1	178.5	0.0	990	0.00
	MP	9869	0	208.9	88.5	-3.4	309	0.00
WR	Maharashtra	22248	0	495.5	160.0	-6.8	624	0.00
	Goa	558	0	11.3	11.3	-0.5	64	0.00
	DNHDDPDCL	1166	0	27.4	27.3	0.1	52	0.00
	AMNSIL	864	0	19.0	9.5	-0.1	248	0.00
	BALCO	518	0	12.3	12.5	-0.2	0	0.00
	Andhra Pradesh	11584	0	239.1	58.3	-0.9	612	0.00
	Telangana	9962	0	205.0	94.7	0.1	572	0.00
SR	Karnataka	11135	0	211.4	53.5	1.4	738	0.00
	Kerala	3502	0	71.7	59.3	2.0	318	0.00
	Tamil Nadu	15217	0	337.2	146.2	-6.9	231	0.00
	Puducherry	405	0	9.0	8.7	-0.3	45	0.00
	Bihar	5740	0	109.7	102.5	-1.8	232	0.51
	DVC	3314	0	74.0	-33.8	-0.5	275	0.00
	Jharkhand	1612	0	34.2	27.5	-1.7	82	0.00
ER	Odisha	5928	0	137.9	43.3	0.2	435	0.00
	West Bengal	9529	0	190.5	62.4	-0.6	568	0.00
	Sikkim	64	0	1.0	1.2	-0.2	4	0.00
	Railways ER ISTS	23	0	0.2	0.4	-0.2	12	0.00
	Arunachal Pradesh	143	0	2.6	2.4	0.0	38	0.00
	Assam	2026	0	37.9	31.1	0.1	155	0.00
	Manipur	176	0	2.5	2.6	0.0	16	0.00
NER	Meghalaya	310	0	4.9	1.4	-0.2	21	1.08
	Mizoram	104	0	1.9	1.6	-0.1	13	0.00
	Nagaland	151	0	2.7	2.4	-0.1	8	0.00
	Tripura	294	0	5.0	4.6	0.6	100	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh	
Actual (MU)		40.3	7.7	-25.6	-13.5
Day Peak (MW)		1899.2	316.3	-1099.0	-628.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	287.2	-210.2	65.9	-144.5	1.7	0.0
Actual(MU)	242.3	-201.6	85.7	-135.4	4.3	-4.7
O/D/U/D(MU)	-44.9	8.6	19.8	9.1	2.6	-4.7

15.02

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4689	13191	7478	2470	818	28646	46
State Sector	8980	16878	5818	1850	241	33766	54
Total	13669	30069	13296	4320	1059	62412	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	669	1270	586	610	13	3149	67
Lignite	27	12	51	0	0	90	2
Hydro	402	45	40	132	23	641	14
Nuclear	29	47	46	0	0	123	3
Gas, Naptha & Diesel	10	10	6	0	23	48	1
RES (Wind, Solar, Biomass & Others)	172	137	325	12	1	646	14
Total	1309	1520	1055	754	60	4697	100
				, 	1	<u> </u>	1
Share of RES in total generation (%)	13.13	9.00	30.85	1.56	1.14	13.80	
Share of Non-fossil fuel (Hydro, Nuclear and RES)	46.00	15.02	20.00	10.20	20.64	20.10	

38.98

H. All India Demand Diversity Factor

11. 711 maia Demana Diversity Tactor	
Based on Regional Max Demands	1.039
Based on State Max Demands	1.068

I. All India Peak Demand and shortage at Solar and Non-Solar Hour						
	May Domand Mat(MW)	Time				

19.38

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	189484	14:49	375
Non-Solar hr	194770	22:20	965

39.64

30.10

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

in total generation(%)

46.08

^{**}Note: All generation MU figures are gross
***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)
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.

	35.0 35.0 2.3 1.1 4.8 9.3 1.4 0.9 12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	NET (MU) -35.0 -2.3 -1.1 -4.8 -9.3 -1.4 -0.9 -12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2 -0.0
1	2.3 1.1 4.8 9.3 1.4 0.9 12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-2.3 -1.1 -4.8 -9.3 -1.4 -0.9 -12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2 -0.0
3	1.1 4.8 9.3 1.4 0.9 12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-1.1 -4.8 -9.3 -1.4 -0.9 -12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2 -0.0
5 765 kV GAYA-BALIA 1 0 754 0.0 6 400 kV PUSAULI-VARANASI 1 0 107 0.0 7 400 kV PUSAULI-ALLAHABAD 1 2 92 0.0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 892 0.0 9 400 kV PATNA-BALIA 2 0 574 0.0 10 400 kV NAUBATPUR-BALIA 2 0 614 0.0 11 400 kV BIHARSHARIFF-BALIA 2 0 389 0.0 12 400 kV MOTHARI-GORAKHPUR 2 0 502 0.0 13 400 kV BIHARSHARIFF-VARANASI 2 208 283 0.0 14 220 kV SAHUPURI-KARAMNASA 1 6 105 0.0 15 132 kV NAGARUNTARI-RIHAND 1 0 0 0.6 17 132 kV KARMANASA-SAHUPURI	9.3 1.4 0.9 12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-9.3 -1.4 -0.9 -12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2 -0.0
6 400 kV PUSAULI-VARANASI 1 0 107 0.0 7 400 kV PUSAULI - ALLAHABAD 1 2 92 0.0 8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 892 0.0 9 400 kV PATNA-BALIA 2 0 574 0.0 10 400 kV NAUBATPUR-BALIA 2 0 614 0.0 11 400 kV BIHARSHARIFF-BALIA 2 0 389 0.0 12 400 kV MOTIHARI-GORAKHPUR 2 0 502 0.0 13 400 kV BIHARSHARIFF-VARANASI 2 208 283 0.0 14 220 kV SAHUPURI-KARAMNASA 1 6 105 0.0 15 132 kV NAGAR UNTARI-RIHAND 1 0 0 0.0 16 132 kV GARWAH-RIHAND 1 3 0 0 0.6 17 132 kV KARMANA	0.9 12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-1.4 -0.9 -12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2
8 400 kV MUZAFFARPUR-GORAKHPUR 2 0 892 0.0 9 400 kV PATNA-BALIA 2 0 574 0.0 10 400 kV NAUBATPUR-BALIA 2 0 614 0.0 11 400 kV BIHARSHARIFF-BALIA 2 0 389 0.0 12 400 kV MOTHARI-GORAKHPUR 2 0 502 0.0 13 400 kV BIHARSHARIFF-VARANASI 2 208 283 0.0 14 220 kV SAHUPURI-KARAMNASA 1 6 105 0.0 15 132 kV NAGAR UNTARI-RIHAND 1 0 0 0.0 16 132 kV GARWAH-RIHAND 1 30 0 0.6 17 132 kV KARMANASA-SAHUPURI 1 0 0 0.0 18 132 kV KARMANASA-CHANDAULI 1 0 0 0.0 18 132 kV KARMANASA-CHANDAULI	12.8 8.8 9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-12.8 -8.8 -9.1 -4.8 -7.1 -1.5 -1.2 0.0
10	9.1 4.8 7.1 1.5 1.2 0.0 0.0 0.0 100.0	-9.1 -4.8 -7.1 -1.5 -1.2 0.0
12	7.1 1.5 1.2 0.0 0.0 0.0 0.0 100.0	-7.1 -1.5 -1.2 0.0
13	1.5 1.2 0.0 0.0 0.0 0.0 1.0 100.0	-1.5 -1.2 0.0
15	0.0 0.0 0.0 0.0 100.0	0.0
17	0.0 0.0 100.0	
ER-NR 0.6	100.0	0.6 0.0
Import/Export of ER (With WR)		0.0 -99.4
2 765 kV NEW RANCHI-DHARAMJAIGARH 2 1463 345 17.8 3 765 kV JHARSUGUDA-DURG 2 144 262 0.0		
	0.0	25.8 17.8
	1.0 5.1	-1.0 -5.1
5 400 kV RANCHI-SIPAT 2 258 181 2.1	0.0	2.1
6 220 kV BUDHIPADAR-RAIGARH 1 0 44 0.0 7 220 kV BUDHIPADAR-KORBA 2 92 0 0.9	2.1 0.0	-2.1 0.9
ER-WR 46.6 Import/Export of ER (With SR)	8.1	38.4
1 HVDC JEYPORE-GAZUWAKA B/B 2 0 555 0.0	12.5	-12.5
2 HVDC TALCHER-KOLAR BIPOLE 2 0 1641 0.0 3 765 kV ANGUL-SRIKAKULAM 2 0 2621 0.0	27.7 44.5	-27.7 -44.5
4 400 kV TALCHER-I/C 2 298 936 0.0 5 220 kV BALIMELA-UPPER-SILERRU 1 0 0 0.0	7.9 0.0	-7.9 0.0
ER-SR 0.0	84.7	-84.7
Import/Export of ER (With NER) 1 400 kV BINAGURI-BONGAIGAON 2 0 416 0.0	6.6	-6.6
2 400 kV ALIPURDUAR-BONGAIGAON 2 158 285 0.0	2.3 1.3	-2.3
3 220 kV ALIPURDUAR-SALAKATI 2 0 96 0.0 ER-NER 0.0	10.2	-1.3 -10.2
Import/Export of NER (With NR)	7.3	
1 HVDC BISWANATH CHARIALI-AGRA 2 0 307 0.0 NER-NR 0.0	7.3 7.3	-7.3 -7.3
Import/Export of WR (With NR)	41.4	
1 HVDC CHAMPA-KURUKSHETRA 2 0 4021 0.0 2 HVDC VINDHYACHAL B/B - 444 0 12.1	41.4 0.0	-41.4 12.1
3 HVDC MUNDRA-MOHINDERGARH 2 265 0 6.0 4 765 kV GWALIOR-AGRA 2 0 2363 0.0	29.2	6.0 -29.2
5 765 kV GWALIOR-PHAGI 2 58 1952 0.0 6 765 kV JABALPUR-ORAI 2 0 1226 0.0	22.9 29.5	-22.9 -29.5
7 765 kV GWALIOR-ORAI 1 664 0 10.2	0.0	10.2
8 765 kV SATNA-ORAI 1 0 1196 0.0 9 765 kV BANASKANTHA-CHITORGARH 2 1390 443 10.3	0.0	-21.4 10.3
10 765 kV VINDHYACHAL-VARANASI 2 0 3319 0.0 11 400 kV ZERDA-KANKROLI 1 222 85 2.1	57.9 0.0	-57.9 2.1
12 400 kV ZERDA -BHINMAL 1 477 135 5.2	0.0	5.2
13 400 kV VINDHYACHAL -RIHAND 1 964 0 21.8 14 400 kV RAPP-SHUJALPUR 2 214 760 0.0	4.6	21.8 -4.6
15 220 kV BHANPURA-RANPUR 1 0 0 0.0 16 220 kV BHANPURA-MORAK 1 0 30 0.0	2.4	0.0 -2.4
17 220 kV MEHGAON-AURAIYA 1 82 0 0.7 18 220 kV MALANPUR-AURAIYA 1 57 19 0.3	0.0	0.7 0.2
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 WR-NR 68.7	209.4	0.0 -140.7
Import/Export of WR (With SR)		
1 HVDC BHADRAWATI B/B - 0 505 0.0 2 HVDC RAIGARH-PUGALUR 2 0 2003 0.0	9.5 19.0	-9.5 -19.0
3 765 kV SOLAPUR-RAICHUR 2 1925 593 11.6 4 765 kV WARDHA-NIZAMABAD 2 0 2099 0.0	0.0 30.5	11.6 -30.5
5 400 kV KOLHAPUR-KUDGI 2 1563 0 23.1	0.0	23.1
6 220 kV KOLHAPUR-CHIKODI 2 0 0 0.0 7 220 kV PONDA-AMBEWADI 1 0 0 0.0	0.0	0.0
8 220 kV XELDEM-AMBEWADI 1 0 113 2.1 WR-SR 36.8	59.0	2.1 -22.3
INTERNATIONAL EXCHANGES		(+ve)/Export(-ve)
	Avg (MW)	Energy Exchange
400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ER ALIPURDUAR RECEIPT (from MANGDECHU 716 531	626	(MU) 15.03
HEP 4*180MW 400kV TALA-BINAGURI 1,2,4 (& 400kV ER MALBASE - BINAGURI 1043 981	985	23.65
RECEIPT (from TALA HEP 6*170MW)	133	3.19
(from CHUKHA HEP 4*84MW)	-28	-0.67
NER 132kV MOTANGA-RANGIA -58 -19	-40	-0.95
NR 132kV MAHENDRANAGAR-TANAKPUR(NHPC) -61 0	-14	-0.33
NEPAL ER NEPAL IMPORT (FROM BIHAR) -5 0	0	-0.01
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 382 285	335	8.03
ER BHERAMARA B/B HVDC (B'DESH) -939 -866	-925	-22.19
BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -628 -445	-563	-13.50
NER 132kV COMILLA-SURAJMANI NAGAR 1&2 -160 0	-140	-3.36