

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

दिनांक: 22st May 2023

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

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 21.05.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-मई-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 21th May 2023, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: 22-May-2023

Report for previous day

A. Power Supply Position at All India and Regional level

NR WR ER NER TOTAL SR Demand Met during Evening Peak hrs(MW) (at 65236 58595 42813 24923 2444 194011 141 245 88 0 0 16

20:00 hrs; from RLDCs) Peak Shortage (MW) Energy Met (MU) 1463 1433 1098 562 4602 46 Hydro Gen (MU) 238 35 63 55 13 405 Wind Gen (MU) 132 267 70 65 Solar Gen (MU)* 140.11 64.74 115.98 2.34 1.01 324 Energy Shortage (MU) 0.97 0.41 0.57 0.00 2.72 4.67 Maximum Demand Met During the Day (MW) 26893 207935 68456 65106 51371 2476 (From NLDC SCADA) Time Of Maximum Demand Met 22:39 00:00 14:29 00:19 19:08 14:48

B. Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.041 0.00 74.26 0.00 6.15 6.15 19.59

C. Power Supply Position in States

• • •		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	10336	0	212.0	93.5	-0.7	290	0.00
	Haryana	9328	19	184.0	131.7	-1.8	134	0.32
	Rajasthan	14779	0	315.0	70.3	-6.0	257	0.00
	Delhi	5948	0	110.2	103.4	-6.1	60	0.00
NR	UP	24821	0	501.7	229.9	0.3	496	0.00
	Uttarakhand	2126	0	46.1	25.9	-0.6	127	0.00
	HP	1387	0	28.7	3.4	0.0	87	0.00
	J&K(UT) & Ladakh(UT)	2744	88	55.8	34.9	-1.1	92	0.09
	Chandigarh	283	0	5.5	5.7	-0.2	21	0.00
	Railways_NR ISTS	174	0	3.8	3.2	0.6	45	0.00
	Chhattisgarh	4703	0	105.3	45.4	-1.9	168	0.00
	Gujarat	19303	0	422.7	199.9	-0.1	559	0.00
	MP	11753	0	255.9	140.8	-3.3	660	0.00
WR	Maharashtra	26942	508	579.3	216.8	-3.1	711	0.57
	Goa	719	0	12.5	12.6	-0.5	70	0.00
	DNHDDPDCL	1220	0	28.0	28.3	-0.3	20	0.00
	AMNSIL	768	0	17.3	10.9	-0.3	268	0.00
	BALCO	519	0	12.4	12.4	0.0	12	0.00
	Andhra Pradesh	11303	0	225.7	76.4	0.8	762	0.00
	Telangana	8670	0	181.2	53.9	-0.8	466	0.00
\mathbf{SR}	Karnataka	12877	0	243.3	82.8	-2.9	585	0.00
	Kerala	4123	0	86.9	63.9	-0.5	220	0.00
	Tamil Nadu	16147	0	350.1	192.3	0.7	743	0.00
	Puducherry	464	0	10.5	10.5	-0.7	112	0.00
	Bihar	6372	0	131.7	122.4	-2.0	182	1.24
	DVC	3402	0	73.2	-30.7	-0.5	368	0.00
	Jharkhand	1821	0	36.6	31.5	-2.5	183	1.48
$\mathbf{E}\mathbf{R}$	Odisha	6940	0	119.4	64.4	-1.5	365	0.00
	West Bengal	9768	0	200.4	74.9	-2.1	253	0.00
	Sikkim	70	0	1.1	1.1	-0.1	20	0.00
	Railways_ER ISTS	8	0	0.1	0.2	-0.1	2	0.00
	Arunachal Pradesh	148	0	2.4	2.8	-0.5	18	0.00
	Assam	1506	0	27.2	21.1	-0.2	125	0.00
	Manipur	173	0	2.3	2.4	-0.1	29	0.00
NER	Meghalaya	264	16	4.5	3.6	-0.3	51	0.97
	Mizoram	104	0	1.8	1.7	-0.2	12	0.00
	Nagaland	140	0	2.5	2.5	-0.1	20	0.00
	Tripura	257	0	4.9	5.4	0.2	77	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.0	-5.9	-25.2	-13.9
Day Peak (MW)	306.0	-395.8	-1114.0	-656.8

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

E. Import Export by Regions (in Me) - Import (170)	Export(-vc), OD(1)/(0)				
	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	235.0	-247.9	93.9	-77.5	-3.6	0.0
Actual(MU)	208.9	-256.0	121.6	-78.7	-3.1	-7.3
O/D/II/D(MII)	-26.2	8.0	27.7	-1.2	0.4	7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3029	6671	5288	270	400	15658	39
State Sector	5405	12694	2908	3290	277	24573	61
Total	8433	19365	8196	3560	677	40231	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	817	1506	699	658	15	3694	74
Lignite	21	17	47	0	0	85	2
Hydro	238	35	63	55	13	405	8
Nuclear	28	36	46	0	0	109	2
Gas, Naptha & Diesel	19	6	6	0	28	59	1
RES (Wind, Solar, Biomass & Others)	217	198	209	2	1	627	13
Total	1341	1798	1070	715	56	4980	100
							-
Share of RES in total generation (%)	16.20	11.00	19.51	0.33	1.79	12.59	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.05	14.94	29.73	8.05	24.55	22.92	

H.	All	India	Den	nand I	Diversity	Factor
T.	-	_	•	117	1	•

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.030
Based on State Max Demands	1.069

I. All India Peak	Demand	and	shortage	at Solar	and l	Non-Solar Hour
		1	- 117			

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207935	14:48	27
Non-Solar hr	207895	0:01	807

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

**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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 22-May-2023

	NET (MU) 0.0 -2.5 -2.2 -4.9 -11.5 -1.4 -1.1 -11.1 -11.2 -4.1 -1.1
1	-2.5 -2.2 -4.9 -11.5 -1.4 -1.1 -11.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -74.5
1	-2.5 -2.2 -4.9 -11.5 -1.4 -1.1 -11.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -74.5
3	-2.2 -4.9 -1.15 -1.14 -1.1.1 -11.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -74.5 17.9 -21.9 -4.7 -3.1 -4.3 -0.6 -3.6 -3.9.1 -12.5 -44.1 -45.4 -1.0 -102.0 3.1 -12.0 -11.4 -11.4 -11.4 -11.4
1	-4.9 -11.5 -1.4 -1.1 -11.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -0.5 -74.5 -74.5 -74.5 -74.5 -74.5 -74.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 -11.4 -11.4 -11.4
Column	-1.4 -1.1 -1.1.4 -1.1.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -0.0 -74.5 17.9 21.9 -4.7 -3.1 -4.3 -0.6 -3.6 -3.9 -1.2.5 -44.1 -45.4 -1.0 -102.0 3.1 -12.5 -11.1 -11.4 -11.4
7	-1.1 -11.4 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -0.0 -74.5 -1.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -1.0 -102.0 3.1 -9.2 -1.7 -14.0
9	-11.1 -11.2 -11.1 -11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -0.0 -74.5 17.9 21.9 -4.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 3.1 -12.0 -11.4 -11.4
10	-11.2 -4.1 -8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -74.5 17.9 21.9 -4.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 3.1 -9.2 1.7 14.0
12 4994 V MITHARI-GORARIPER 2 45 588 90 8.2	-8.2 -1.7 -3.9 -0.0 -0.5 -0.0 -74.5 17.9 -21.9 -4.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 3.1 -12.0 -11.4 -11.4
13 400 N SHIPWER KARANASA	-1.7 -3.9 -0.0 -0.5 -0.0 -74.5 -74.5 -74.5 -74.5 -74.5 -74.5 -74.5 -74.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 -102.0 -11.4 -11.4
15 1324 V NACAR UTTAR RIBAD	0.0 0.5 0.0 0.0 0.0 -74.5 17.9 21.9 -4.7 -3.1 4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
10	0.5 0.0 0.0 -74.5 17.9 21.9 -4.7 -3.1 -4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
18	0.0 -74.5 17.9 21.9 -4.7 -3.1 4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
	-74.5 17.9 21.9 4.7 -3.1 4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
Import/Export of ER (With WR)	17.9 21.9 -4.7 -3.1 4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
2 765 kV 1848 2 1347 0 21.9 0.0	21.9 -4.7 -3.1 4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
3 765 kV HIARSIGIDA-PURG	-4.7 -3.1 -4.3 -0.6 -3.6 -39.1 -12.5 -44.1 -45.4 -1.0 -102.0 3.1 -9.2 1.7 14.0
S	4.3 -0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
Column	-0.6 3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
Tolerange	3.6 39.1 -12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
Import/Export of FR (With SR)	-12.5 -44.1 -45.4 -1.0 0.0 -102.0 3.1 9.2 1.7 14.0
HVDC IEYPORE-GAZUWAKA B/B 2 0 545 0.0 1125	-44.1 -45.4 -1.0 0.0 -102.0 -102.0 -11.7 14.0
2	-44.1 -45.4 -1.0 0.0 -102.0 -102.0 -11.7 14.0
3 765 kV ANGUL-SIRARULAM 2 0 2574 0.0 45.4 4 40 kV TALCHER-I/C 2 22.9 668 0.0 1.0 5 220 kV BALIMEIA-UPPER-SILERRU 1 0 0 0 0.0	-45.4 -1.0 0.0 -102.0 -3.1 9.2 1.7 14.0
S 220 kV BALIMELA-UPPER-SILERRU 1 0 0 0.0 0.0 0.0 0.0	0.0 -102.0 3.1 9.2 1.7 14.0
Import/Export of ER (With NER)	-102.0 3.1 9.2 1.7 14.0 11.4 11.4
1	9.2 1.7 14.0 11.4 11.4
2	9.2 1.7 14.0 11.4 11.4
3 220 kV ALIPURDIAR-SALAKATI 2 156 0 1.7 0.0	1.7 14.0 11.4 11.4
Import/Export of NER (With NR)	11.4 11.4
HVDC BISWANATH CHARIALI-AGRA 2 483 0 11.4 0.0	11.4
Import/Export of WR (With NR) 1	11.4
Import/Export of WR (With NR)	
HVDC	35.2
3	
4	12.1 -12.3
6 765 kV JABALPUR-ORAI 2 0 1147 0.0 33.1 7 765 kV GWALIOR-ORAI 1 687 0 11.2 0.0 8 765 kV SATNA-ORAI 1 0 1073 0.0 20.3 9 765 kV BANASKANTHA-CHITORGARH 2 1409 483 12.9 1.0 10 765 kV UNDHYACHAL-VARANASI 2 0 0 3281 0.0 64.6 11 400 kV ZERDA-KANKROLI 1 244 58 3.0 0.1 12 400 kV ZERDA-BHINMAL 1 648 34 7.7 0.0 13 400 kV VINDHYACHAL-RIHAND 1 967 0 22.1 0.0 14 400 kV VINDHYACHAL-RIHAND 1 967 0 0 22.1 0.0 14 400 kV RAPP-SHUJALPUR 2 408 454 2.4 3.8 15.2 0.0 15 220 kV BHANPURA-RANPUR 1 0 0 0 0.0 0.0 16 220 kV BHANPURA-MORAK 1 0 0 0 0.0 0.0 16 220 kV BHANPURA-MORAK 1 0 0 0 0.0 0.0 17 220 kV MEHGAON-AURAIYA 1 62 4 0.4 0.4 0.0 18 220 kV MEHGAON-AURAIYA 1 62 4 0.4 0.4 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0 0.0 0.0 0.0 20 132 kV RAJGHAT-LALITPUR 2 0 0 0 0.0 0.0 0.0 Import/Export of WR (With SR) I HVDC BHADRAWATI B/B - 0 508 0.0 12.0	-36.0
7	-16.0 -33.1
9 765 kV BANASKANTHA-CHITORGARH 2 1409 483 12.9 1.0 10 765 kV VINDHYACHAL-VARANASI 2 0 3281 0.0 64.6 11 400 kV ZERDA-KANKROLI 1 244 58 3.0 0.1 12 400 kV ZERDA-BHINMAL 1 648 34 7.7 0.0 13 400 kV VINDHYACHAL-RIHAND 1 967 0 22.1 0.0 14 400 kV RAPP-SHUJALPUR 2 408 454 2.4 3.8 15 220 kV BHANPURA-RANPUR 1 0 0 0.0 0.0 16 220 kV BHANPURA-MORAK 1 0 30 0.0 2.1 17 220 kV BHANPURA-MORAK 1 62 4 0.4 0.0 18 220 kV MEHGAON-AURAIYA 1 62 4 0.4 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0.0 20 132 kV RAJGHAT-LALITPUR 2 0 0 0.0 0.0 10 10 10 0.0 0.0 11 HVDC BHADRAWATI B/B - 0 508 0.0 12.0 10 12.0	11.2
10	-20.3 12.0
11	-64.6
13	2.9
14	7.7 22.1
16 220 kV BHANPURA-MORAK 1 0 30 0.0 2.1 17 220 kV MEHGAON-AURAIYA 1 62 4 0.4 0.0 18 220 kV MALANPURA-URAIYA 1 45 19 0.2 0.1 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0.0 20 132 kV RAJGHAT-LALITPUR 2 0 0 0.0 0.0 WR-NR 73.2 225.6 Import/Export of WR (With SR) 1 HVDC BHADRAWATI B/B - 0 508 0.0 12.0	-1.4
17 220 kV MEHGAON-AURAIYA 1 62 4 0.4 0.0 18 220 kV MALANPUR-AURAIYA 1 45 19 0.2 0.1 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0.0 20 132 kV RAJGHAT-LALITPUR 2 0 0 0.0 0.0 WR-NR 73.2 225.6 Import/Export of WR (With SR) 1 HVDC BHADRAWATI B/B - 0 508 0.0 12.0	0.0 -2.1
19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0	0.4
20 132 kV RAJGHAT-LALITPUR 2 0 0 0.0 0.0 0.0	0.2
Import/Export of WR (With SR) 1	0.0
1 HVDC BHADRAWATI B/B - 0 508 0.0 12.0	-152.4
	12.0
2 HVDC RAIGARH-PUGALUR 2 0 3001 0.0 48.7	-12.0 -48.7
3 765 kV SOLAPUR-RAICHUR 2 1243 732 1.0 8.4	-7.4
4 765 kV WARDHA-NIZAMABAD 2 0 1550 0.0 22.6 5 400 kV KOLHAPUR-KUDGI 2 1330 0 25.0 0.0	-22.6 25.0
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 8 220 kV XELDEM-AMBEWADI 1 1 120 1,3 0.0	0.0 1.3
8 220 kV XELDEM-AMBEWADI 1 1 120 1.3 0.0	-64.3
INTERNATIONAL EXCHANGES Import(+ve)/F	
Ene	nergy Exchange
State Region Line Name Max (MW) Min (MW) Avg (MW) 400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e.	(MU)
400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ER ALIPURDUAR RECEIPT (from MANGDECHU 255 54 120	2.88
HEP 4*180MW)	
400kV TALA-BINAGURI 1,2,4 (& 400kV ER MALBASE - BINAGURI) i.e. BINAGURI 177 135 160	3.84
RECEIPT (from TALA HEP 6*170MW)	3.84
220kV CHUKHA-BIRPARA 1&2 (& 220kV	2.04
BHUTAN ER MALBASE - BIRPARA) i.e. BIRPARA RECEIPT -154 -92 -126 (from CHUKHA HEP 4*84MW)	-3.01
NER 132kV GELEPHU-SALAKATI -19 -4 -9	-0.22
NER 132kV MOTANGA-RANGIA -37 -11 -22	-0.53
NR 132kV MAHENDRANAGAR-TANAKPUR(NHPC) -75 0 -60	-1.45
NEPAL ER NEPAL IMPORT (FROM BIHAR) -97 0 -32	-0.76
	-0.70
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 -224 -5 -152	-0./0
	-3.64
ER BHERAMARA B/B HVDC (B'DESH) -936 -703 -898	
**************************************	-3.64
PANCIADESH ER 400ky CODDA TES DAHANDID (PIDESH) D/C 657 401 570	
	-3.64 -21.56
BANGLADESH (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -657 -481 -579	-3.64
BANGLADESH (Isolated from Indian Grid) 400kV GODDA_IPS-KAHANPUR (B'DESH) D/C -657 -481 -5/9	-3.64 -21.56 -13.89
1 BANGLADESH 1 400KV GODDA TPS-KAHANPUK (B'DESH) D/C 1 -657 1 -481 1 -579 1	-3.64 -21.56