

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

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दिनांक: **12**th June 2023

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
- 2. 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 11.06.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-जून-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 June 2023, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: 12-Jun-2023

Report for previous day

A. Power Supply Position at All India and Regional level

A. I ower Supply I osition at An India and Regional		WR	SR	ER	NER	TOTAL
	NR	WK	SK	EK	NEK	IUIAL
Demand Met during Evening Peak hrs(MW) (at	64682	59282	42604	23853	2864	193285
20:00 hrs; from RLDCs)	04002	39202	42004	23033	2004	193263
Peak Shortage (MW)	145	0	0	0	13	158
Energy Met (MU)	1448	1438	1087	590	52	4614
Hydro Gen (MU)	279	21	61	76	23	460
Wind Gen (MU)	41	158	209	-	-	407
Solar Gen (MU)*	131.53	64.88	118.86	5.51	0.58	321
Energy Shortage (MU)	0.68	0.73	0.00	1.43	0.20	3.04
Maximum Demand Met During the Day (MW)	(07/7	(2(71	40224	25505	2071	20///
(From NLDC SCADA)	69767	63651	48324	27587	2871	206667
Time Of Maximum Demand Met	22:44	00:19	12:41	14:31	19:16	22:47

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 0.054 0.00 12.46 0.44 12.02 71.42 16.12

C. Power Supply Position in States

over supply	Joseph M. States	Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
D	Gt . t		0 0	Energy Met		OD(+)/OD(-)	Max OD	
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	8705	0	175.2	87.7	-1.8	123	0.00
	Haryana	9685	0	182.2	127.9	-1.4	116	0.00
	Rajasthan	14450	0	304.0	78.1	-2.0	481	0.00
	Delhi	6101	0	119.1	108.7	-2.3	140	0.00
NR	UP	25990	0	531.5	274.3	-0.7	641	0.00
	Uttarakhand	2227	0	48.6	24.6	-2.1	65	0.00
	HP	1306	0	27.7	-2.1	-0.3	114	0.00
	J&K(UT) & Ladakh(UT)	2322	145	50.7	25.4	-0.8	132	0.68
	Chandigarh	287	0	5.5	5.7	-0.2	16	0.00
	Railways NR ISTS	176	0	3.9	3.4	0.5	31	0.00
	Chhattisgarh	4812	0	109.2	54.9	-1.3	196	0.00
	Gujarat	18568	0	416.5	176.4	0.0	608	0.00
	MP	11453	0	253.0	137.3	-4.5	346	0.00
WR	Maharashtra	25723	463	585.6	210.7	-2.0	885	0.73
	Goa	667	0	13.5	13.2	0.1	65	0.00
	DNHDDPDCL	1265	0	28.6	28.8	-0.2	44	0.00
	AMNSIL	834	0	18.7	7.5	-0.2	262	0.00
	BALCO	518	0	12.4	12.5	-0.1	4	0.00
	Andhra Pradesh	11755	0	241.6	67.5	0.1	705	0.00
	Telangana	9272	0	188.4	67.1	-0.2	428	0.00
SR	Karnataka	11054	0	221.5	63.2	1.3	1356	0.00
	Kerala	3600	0	72.7	52.2	0.8	253	0.00
	Tamil Nadu	15922	0	352.4	143.3	-8.7	451	0.00
	Puducherry	457	0	10.4	9.6	0.0	62	0.00
	Bihar	6615	0	144.3	133.8	-0.9	289	1.33
	DVC	3454	0	78.0	-37.1	0.5	359	0.00
	Jharkhand	1808	0	37.6	36.8	-4.1	198	0.10
ER	Odisha	6584	0	122.7	63.8	-2.8	570	0.00
	West Bengal	10119	0	205.8	81.9	-2.5	449	0.00
	Sikkim	69	0	1.1	1.2	-0.2	15	0.00
	Railways_ER ISTS	29	0	0.1	0.3	-0.2	2	0.00
	Arunachal Pradesh	138	0	2.5	2.8	-0.5	21	0.00
	Assam	1870	0	33.3	26.4	0.7	362	0.10
	Manipur	144	0	2.2	2.4	-0.2	17	0.00
NER	Meghalaya	301	13	5.6	2.1	-0.6	28	0.10
	Mizoram	99	0	1.8	1.8	-0.3	17	0.00
	Nagaland	145	0	2.6	2.4	-0.1	18	0.00
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D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

Tripura

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	3.3	-3.1	-25.7	-25.5
Day Peak (MW)	571.1	-316.6	-1090.0	-1116.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	254.6	-223.0	24.8	-58.6	2.2	0.0
Actual(MU)	230.7	-220.3	37.2	-50.5	0.7	-2.3
O/D/IJ/D(MI)	-23 0	2.7	12.4	Q 1	-1.5	-23

F. Generation Outage(MW)

1. Generation Guarde (1717)								
	NR	WR	SR	ER	NER	TOTAL	% Share	
Central Sector	3230	8304	6078	1645	818	20074	44	
State Sector	5095	10581	7788	1750	278	25491	56	
Total	8324	18884	13866	3395	1096	45566	100	

4.5

4.6

0.1

55

0.00

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	763	1483	603	644	12	3505	70
Lignite	25	18	53	0	0	97	2
Hydro	279	21	61	76	23	460	9
Nuclear	29	32	45	0	0	106	2
Gas, Naptha & Diesel	26	19	6	0	23	73	1
RES (Wind, Solar, Biomass & Others)	180	224	350	6	1	761	15
Total	1302	1796	1120	725	59	5002	100
Share of RES in total generation (%)	13.84	12.46	31.28	0.82	0.99	15.25]
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.48	15.40	40.82	11.46	40.47	26.60	

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.026
Based on State Max Demands	1.058

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202027	14:48	0
Non-Solar hr	206667	22:47	498

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: 12-Jun-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) ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC	PUSAULI B/B		0	97	0.0	2.4	-2.4
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	858 296	500 363	3.1 0.2	0.0	3.1 0.2
5 765 kV	GAYA-BALIA	1	0	834	0.0	11.3	-11.3
6 400 kV 7 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0 22	132 88	0.0	2.0 0.5	-2.0 -0.5
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	145 5	928 624	0.0	8.8 8.9	-8.8 -8.9
10 400 kV	NAUBATPUR-BALIA	2	34	657	0.0	7.5	-7.5
11 400 kV 12 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	223 64	506 487	0.0	3.5 5.6	-3.5 -5.6
13 400 kV	BIHARSHARIFF-VARANASI	2	337	340	0.0	0.4	-0.4
14 220 kV 15 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	0	209 0	0.0	3.5 0.0	-3.5 0.0
16 132 kV	GARWAH-RIHAND	1	25	0	0.8	0.0	0.8
17 132 kV 18 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1 1	0	66 0	0.0	0.0	0.0
•				ER-NR	4.0	54.3	-50.3
Import/Export of ER (With WR) JHARSUGUDA-DHARAMJAIGARH	4	1406	0	17.1	0.0	17.1
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	2149	19	28.7	0.0	28.7
3 765 kV 4 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	119 89	643 417	0.0	5.3 3.1	-5.3 -3.1
5 400 kV	RANCHI-SIPAT	2	515	75	6.3	0.0	6.3
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0 148	44 0	0.0 2.7	1.3 0.0	-1.3 2.7
	•	-		ER-WR	54.8	9.7	45.1
Import/Export of ER (With SR) JEYPORE-GAZUWAKA B/B	1 2	191	£29	0.0	9.0	-9.0
2 HVDC	TALCHER-KOLAR BIPOLE	2 2	0	538 1012	0.0	23.7	-23.7
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 432	2782 231	0.0 4.0	46.3 0.0	-46.3 4.0
5 220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
Import/E-mort of ED	With NED			ER-SR	0.0	78.9	-78.9
Import/Export of ER (WITH NEK) BINAGURI-BONGAIGAON	2	196	99	1.6	0.2	1.4
2 400 kV	ALIPURDUAR-BONGAIGAON	2	291	135	2.3	0.0	2.3
3 220 kV	ALIPURDUAR-SALAKATI	2	81	32 ER-NER	0.7 4.6	0.0	0.7 4.4
Import/Export of NER							
1 HVDC	BISWANATH CHARIALI-AGRA	2	190	0 NER-NR	4.4 4.4	0.0	4.4 4.4
Import/Export of WR	(With NR)			NEK-NK	4.4	0.0	4.4
1 HVDC	CHAMPA-KURUKSHETRA	2	0	4022	0.0	76.2	-76.2
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	272 0	975	4.6 0.0	0.0 9.2	4.6 -9.2
4 765 kV	GWALIOR-AGRA	2	233	2054	0.1	29.3	-29.2
5 765 kV 6 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2 2	657 0	1260 1080	2.8	11.3 27.8	-8.5 -27.8
7 765 kV	GWALIOR-ORAI	1	625	0	9,9	0.0	9,9
8 765 kV 9 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1 2	0 1520	1023 334	0.0 12.6	17.8 0.9	-17.8 11.6
10 765 kV	VINDHYACHAL-VARANASI	2	0	3404	0.0	72.8	-72.8
11 400 kV 12 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	304 560	54 69	2.6 6.1	0.1 0.1	2.5 6.0
13 400 kV	VINDHYACHAL -RIHAND	1	967	0	20.6	0.0	20.6
14 400 kV 15 220 kV	RAPP-SHUJALPUR BHANPURA-RANPUR	2 1	325 0	407 0	2.3	2.1 0.0	0.3 0.0
16 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0	30	0.0	2.6	-2.6
17 220 kV 18 220 kV	MALANPUR-AURAIYA	1	98 72	12	0.8	0.0	0.8 0.4
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
20 132 KV	RAJGHA1-LALIIFUR	2	U	WR-NR	62.9	250.2	-187.3
Import/Export of WR							
1 HVDC 2 HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	996 1442	2000	16.7 0.0	0.0 9.4	16.7 -9.4
3 765 kV	SOLAPUR-RAICHUR	2	1868	1202	11.2	2.9	8.4
4 765 kV 5 400 kV	WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2	0 1518	2598 0	0.0 28.1	33.7 0.0	-33.7 28.1
6 220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7 220 kV 8 220 kV	PONDA-AMBEWADI XELDEM-AMBEWADI	1 1	0	0 128	0.0 2.5	0.0	0.0 2.5
				WR-SR	58.5	46.0	12.6
	IN	TERNATIONAL EXC	CHANGES			Import	(+ve)/Export(-ve)
State	Region	Line 1		Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU-A ALIPURDUAR RECEIPT HEP 4*180MW)	(from MANGDECHU	361	119	147	3.53
	ER	HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H) i.e. BINAGURI	181	87	119	2.85
BHUTAN	ER	220kV CHUKHA-BIRPAI MALBASE - BIRPARA) i (from CHUKHA HEP 4*8	RA 1&2 (& 220kV .e. BIRPARA RECEIPT	-121	31	-95	-2.28
	NER	132kV GELEPHU-SALAI		-20	7	1	0.02
	NER	132kV MOTANGA-RANG	GIA	-49	-19	-36	-0.87
	NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC)	-74	0	-55	-1.33
NEPAL	ER	NEPAL IMPORT (FROM	I BIHAR)	-72	-15	-34	-0.81
	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	-171	-20	-40	-0.96
	ER	BHERAMARA B/B HVD	C (B'DESH)	-928	-801	-926	-22.23
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAF	HANPUR (B'DESH) D/C	-1116	-997	-1063	-25.50
	NER	132kV COMILLA-SURAJ	IMANI NAGAR 1&2	-162	0	-143	-3.44
	l	1				1	