

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

दिनांक: **11**th 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
- 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 10.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th July 2023, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: 11-Jul-2023

11:55

20:30

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 57721 54469 44813 27177 3239 187419 20:00 hrs; from RLDCs) Peak Shortage (MW) 450 0 0 0 0 450 Energy Met (MU) 1098 603 1246 1265 4274 62 Hydro Gen (MU) 156 46 64 132 30 428 Wind Gen (MU) 10 151 148 309 Solar Gen (MU)* 2.74 0.72 121.33 40.03 94.05 259 Energy Shortage (MU) 3.96 0.00 0.00 1.00 0.93 5.89 Maximum Demand Met During the Day (MW) 58633 56856 53125 28891 3268 191860 (From NLDC SCADA) Time Of Maximum Demand Met

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	0.061	0.01	1.68	5.67	7.36	62.81	29.83

19:49

10:40

23:08

22:42

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage (MU
Region		day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(IVI VV)	
	Punjab	8067	0	172.2	123.1	-1.6	160	0.00
	Haryana	7588	0	162.3	115.8	-1.8	217	0.02
	Rajasthan	10903	0	238.8	73.6	-1.3	259	0.00
	Delhi	5322	0	107.9	104.5	-2.4	92	0.00
NR	UP	23516	0	449.3	176.1	0.9	643	0.00
	Uttarakhand	1956	0	39.1	26.3	2.1	387	1.67
	HP	1234	0	23.0	19.7	2.5	810	0.06
	J&K(UT) & Ladakh(UT)	2413	400	46.8	37.0	4.6	794	2.21
	Chandigarh	187	0	4.0	4.0	0.0	73	0.00
	Railways_NR ISTS	153	0	3.0	3.4	-0.4	3	0.00
	Chhattisgarh	4974	0	111.0	63.4	-0.6	222	0.00
	Gujarat	15459	0	342.0	164.3	-6.6	652	0.00
	MP	10331	0	224.7	93.2	-2.0	371	0.00
WR	Maharashtra	23093	0	514.9	176.6	-5.3	772	0.00
	Goa	629	0	12.5	12.6	-0.2	56	0.00
	DNHDDPDCL	1296	0	29.4	29.5	-0.1	87	0.00
	AMNSIL	776	0	17.7	10.4	0.0	228	0.00
	BALCO	521	0	12.4	12.5	-0.1	523	0.00
SR	Andhra Pradesh	10800	0	219.3	61.0	1.0	721	0.00
	Telangana	12335	0	235.1	104.6	1.5	885	0.00
	Karnataka	11454	0	215.0	58.1	3.0	1043	0.00
	Kerala	3862	0	76.3	50.6	2.6	528	0.00
	Tamil Nadu	16331	0	343.1	177.1	-1.3	953	0.00
	Puducherry	433	0	9.5	9.2	-0.4	43	0.00
	Bihar	6782	82	142.3	132.5	-1.1	213	1.00
	DVC	3415	0	75.1	-36.4	0.2	238	0.00
ER	Jharkhand	1857	0	39.5	31.1	0.2	147	0.00
	Odisha	6304	0	124.3	42.2	-0.8	374	0.00
	West Bengal	10523	0	220.2	104.9	-1.3	448	0.00
	Sikkim	96	0	1.4	1.5	-0.1	15	0.00
	Railways_ER ISTS	26	0	0.1	0.3	-0.2	15	0.00
	Arunachal Pradesh	141	0	2.7	2.4	0.1	34	0.00
	Assam	2164	0	41.9	35.2	0.4	276	0.00
	Manipur	157	0	2.3	2.4	-0.1	29	0.00
NER	Meghalaya	320	0	4.9	0.8	0.0	89	0.93
	Mizoram	107	0	1.7	1.6	-0.3	7	0.00
	Nagaland	162	0	2.9	2.7	-0.1	13	0.00
	Trinura	312	0	5.7	5.7	0.5	110	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.3	6.4	-25.5	-9.4
Day Peak (MW)	2032.9	356.0	-1098.0	-899.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	333.0	-299.5	86.3	-115.6	-4.2	0.0
Actual(MU)	308.2	-308.0	116.2	-119.9	-3.6	-7.1
O/D/LI/D(MLI)	-24.7	-8.6	20.0	-4.2	0.6	- 7 1

F. Generation Outage(MW)

1. Generation Gutage(17177)							
	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	9784	9711	7198	1210	330	28233	44
State Sector	10345	15654	6543	2710	314	35565	56
Total	20129	25365	13741	3920	644	63798	100

C. Sourcewise generation (Cross) (MII)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	659	1377	625	657	16	3333	72
Lignite	24	14	57	0	0	94	2
Hydro	156	46	64	132	30	428	9
Nuclear	25	47	42	0	0	114	2
Gas, Naptha & Diesel	11	14	7	0	27	58	1
RES (Wind, Solar, Biomass & Others)	138	192	259	4	1	593	13
Total	1012	1690	1053	793	73	4621	100
Share of RES in total generation (%)	13.66	11.37	24.54	0.45	0.98	12.88	
Share of Non-fossil fuel (Hydro,Nuclear and RES)	31.53	16.85	34.64	17.42	41.99	24.64	

H. All India Demand Diversity Factor

in total generation(%)

11. 111 India Demand Diversity 1 detai	
Based on Regional Max Demands	1.046
Based on State Max Demands	1.073

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	191860	11:55	82
Non-Solar hr	189643	19:55	585

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

**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: 11-Jul-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	2501	0.0	43.9	-43.9
2 HVDC	PUSAULI B/B		0	149	0.0	3.6	-3.6
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	542 134	196 259	3.4 0.0	0.0 1.6	3.4 -1.6
5 765 kV	GAYA-BALIA	1	0	735	0.0	12.1	-12.1
6 400 kV 7 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	136 98	0.0	2.4 1.1	-2.4 -1.1
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	719 532	0.0	9.5 9.7	-9.5 -9.7
10 400 kV	NAUBATPUR-BALIA	2	0	549	0.0	9.8	-9.8
11 400 kV 12 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	31 0	303 458	0.0	3.8 6.2	-3.8 -6.2
13 400 kV	BIHARSHARIFF-VARANASI	2	211	122	0.8	0.0	0.8
14 220 kV 15 132 kV	SAHUPURI-KARAMNASA NAGAR UNTARI-RIHAND	1	15 0	119 0	0.0	1.2 0.0	-1.2 0.0
16 132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17 132 kV 18 132 kV	KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1 1	0	21 0	0.0	0.0	0.0
				ER-NR	5.0	104.9	-99.9
Import/Export of ER (With WR) JHARSUGUDA-DHARAMJAIGARH	4	1648	0	20.1	0.0	20.1
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	1764	0	26.3	0.0	26.3
3 765 kV 4 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	134 18	449 415	0.0	2.5 3.6	-2.5 -3.6
5 400 kV	RANCHI-SIPAT	2	365	81	4.1	0.0	4.1
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	93	44 0	0.0	1.7 0.0	-1.7 0.9
•	•	_		ER-WR	51.4	7.8	43.6
Import/Export of ER (With SR) JEYPORE-GAZUWAKA B/B	2	0	450	0.0	7.4	-7.4
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.2	-39.2
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0	2714 316	0.0	44.7 6.1	-44.7 -6.1
5 220 kV	BALIMELA-UPPER-SILERRU	ĩ	0	0	0.0	0.0	0.0
Import/Export of ER (With NER			ER-SR	0.0	91.3	-91.3
1 400 kV	BINAGURI-BONGAIGAON	2	0	485	0.0	7.7	-7.7
2 400 kV	ALIPURDUAR-BONGAIGAON	2	354	226	1.1	0.0 1.3	1.1
3 220 kV	ALIPURDUAR-SALAKATI	2	0	82 ER-NER	0.0 1.1	9.0	-1.3 -7.9
Import/Export of NER		•		•		•	
1 HVDC	BISWANATH CHARIALI-AGRA	2	0	503 NER-NR	0.0	12.5 12.5	-12.5 -12.5
Import/Export of WR	(With NR)			TIER-TIR	0.0	12.0	-12.5
1 HVDC	CHAMPA-KURUKSHETRA	2	0 444	5043	0.0	77.1 0.0	-77.1
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	0	0 254	8.0 5.9	0.0	8.0 5.9
4 765 kV 5 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	68 22	2479 1671	0.0	30.5 21.3	-30.4 -21.3
6 765 kV	JABALPUR-ORAI	2 2	0	1219	0.0	28.4	-21.3 -28.4
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	682 0	0 1135	11.5 0.0	0.0 19.9	11.5 -19.9
9 765 kV	BANASKANTHA-CHITORGARH	2	858	1233	3.9	8.0	-4.1
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 190	3742 214	0.0 1.2	65.9 1.1	-65.9 0.1
12 400 kV	ZERDA -BHINMAL	1	409	336	3.2	1.5	1.7
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	955 197	0 735	21.6 0.6	0.0 5.7	21.6 -5.1
15 220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16 220 kV 17 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 98	30 0	0.0 1.0	2.4	-2.4 1.0
18 220 kV	MALANPUR-AURAIYA	1	73	10	0.5	0.0	0.5
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
				WR-NR	57.4	261.8	-204.4
Import/Export of WR 1 HVDC	(With SR) BHADRAWATI B/B		0	328	0.0	7.2	-7.2
2 HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	33.6	-33.6
3 765 kV 4 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	856 0	2005 3133	5.5	6.7 39.4	-1.2 -39.4
5 400 kV	KOLHAPUR-KUDGI	2	1187	0	19.6	0.0	19.6
6 220 kV 7 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
8 220 kV	XELDEM-AMBEWADI	1	0	105	2.0	0.0	2.0
				WR-SR	27.1	86.9	-59.8
		TERNATIONAL EXC					+ve)/Export(-ve) Energy Exchange
State	Region	Line		Max (MW)	Min (MW)	Avg (MW)	(MU)
	ER	400kV MANGDECHHU-A ALIPURDUAR RECEIPT		655	450	572	13.74
		HEP 4*180MW) 400kV TALA-BINAGURI					
	ER	MALBASE - BINAGURI		1030	808	961	23.05
		RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	EP 6*170MW)				
BHUTAN	ER	MALBASE - BIRPARA) i	*	173	118	143	3.44
		(from CHUKHA HEP 4*8	4MW)				
	NER	132kV GELEPHU-SALAI	KATI	65	11	23	0.56
1							0.53
	NER	132kV MOTANGA-RANG	GIA	52	0	22	0.55
	NER	132kV MOTANGA-RANG	GIA	52	0	22	0.00
	NER NR	132kV MOTANGA-RANG 132kV MAHENDRANAG		-73	0	-45	-1.09
NEPAL			AR-TANAKPUR(NHPC)				
NEPAL	NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC)	-73	0	-45	-1.09
NEPAL	NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC) BIHAR)	-73	0	-45	-1.09
NEPAL	NR ER ER	132kV MAHENDRANAG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2	-73 -23 452	0 0 218	-45 -5 319	-1.09 -0.12
NEPAL	NR ER	132kV MAHENDRANAG NEPAL IMPORT (FROM	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2	-73 -23	0	-45 -5	-1.09 -0.12
	NR ER ER	132kV MAHENDRANAG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU BHERAMARA B/B HVD	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	-73 -23 452 -926	0 0 218 -808	-45 -5 319 -904	-1.09 -0.12 7.65 -21.69
NEPAL BANGLADESH	NR ER ER	132kV MAHENDRANAG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH)	-73 -23 452	0 0 218	-45 -5 319	-1.09 -0.12 7.65
	NR ER ER ER ER (Isolated from Indian Grid)	132kV MAHENDRANAG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU BHERAMARA B/B HVD0 400kV GODDA_TPS-RAI	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	-73 -23 452 -926 -899	0 0 218 -808	-45 -5 319 -904 -390	-1.09 -0.12 7.65 -21.69
	NR ER ER ER	132kV MAHENDRANAG NEPAL IMPORT (FROM 400kV DHALKEBAR-MU BHERAMARA B/B HVD	AR-TANAKPUR(NHPC) I BIHAR) UZAFFARPUR 1&2 C (B'DESH) HANPUR (B'DESH) D/C	-73 -23 452 -926	0 0 218 -808	-45 -5 319 -904	-1.09 -0.12 7.65 -21.69