

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

दिनांक: 31 July 2023

Ref: POSOCO/NLDC/SO/Daily PSP Report

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 30.07.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th July 2023, is available at the NLDC website.

धन्यवाद,

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



Date of Reporting: 31-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)	68237	52176	43816	27529	3161	194919
Peak Shortage (MW)	0	0	0	132	19	151
Energy Met (MU)	1459	1200	1012	607	65	4342
Hydro Gen (MU)	444	69	73	137	34	757
Wind Gen (MU)	29	209	229	-	-	466
Solar Gen (MU)*	120.32	43.88	111.13	1.94	1.17	278
Energy Shortage (MU)	0.08	0.00	0.00	0.31	0.49	0.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69584	53619	46558	28751	3257	195133
Time Of Maximum Demand Met	22:21	19:52	10:19	23:08	18:46	20:38

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 0.104 0.00 30.56 0.41 2.64 66.80

C. Power Supply Position in States

	Situal III 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	12470	0	269.1	170.0	-0.6	242	0.00
	Haryana	9437	0	197.1	147.2	1.1	259	0.00
	Rajasthan	10911	0	243.9	75.3	-2.9	301	0.00
	Delhi	5978	0	113.4	105.9	-1.3	132	0.00
NR	UP	25784	0	500.7	245.9	0.9	680	0.00
	Uttarakhand	2014	0	42.9	16.9	-0.8	126	0.08
	HP	1539	0	32.9	-1.2	-0.4	153	0.00
	J&K(UT) & Ladakh(UT)	2429	0	50.0	26.4	-1.6	157	0.00
	Chandigarh	303	0	6.0	6.5	-0.5	22	0.00
	Railways NR ISTS	149	0	3.1	3.6	-0.5	0	0.00
	Chhattisgarh	4734	0	105.8	51.0	-1.2	478	0.00
	Gujarat	14589	0	327.1	149.4	0.0	1056	0.00
	MP	11304	0	244.0	120.5	-1.9	677	0.00
WR	Maharashtra	20164	0	451.0	160.6	0.6	750	0.00
	Goa	575	0	11.5	11.4	-0.2	44	0.00
	DNHDDPDCL	1259	0	28.9	28.6	0.3	74	0.00
	AMNSIL	831	0	19.0	10.5	-0.5	229	0.00
	BALCO	521	0	12.4	12.5	-0.1	40	0.00
	Andhra Pradesh	9306	0	199.3	48.1	0.5	716	0.00
	Telangana	10340	0	210.1	97.3	2.1	630	0.00
SR	Karnataka	8806	0	166.3	27.0	0.8	587	0.00
	Kerala	3572	0	70.7	54.7	0.9	315	0.00
	Tamil Nadu	15886	0	355.7	143.6	-4.1	801	0.00
	Puducherry	455	0	9.8	9.9	-0.8	84	0.00
	Bihar	6928	0	144.7	135.0	0.3	357	0.09
	DVC	3424	0	74.7	-28.7	1.0	345	0.00
	Jharkhand	1634	0	36.6	30.9	0.8	157	0.21
ER	Odisha	6742	0	131.9	51.9	-1.8	525	0.00
	West Bengal	10235	0	218.1	92.9	0.4	663	0.00
	Sikkim	60	0	0.8	0.9	-0.2	6	0.00
	Railways_ER ISTS	15	0	0.2	0.1	0.0	8	0.00
	Arunachal Pradesh	167	0	2.9	2.4	0.1	38	0.00
	Assam	2235	0	43.0	35.5	0.5	201	0.00
	Manipur	189	0	2.8	2.9	-0.1	11	0.00
NER	Meghalaya	297	40	5.4	1.8	-0.1	136	0.49
	Mizoram	98	0	1.7	1.6	-0.2	16	0.00
	Nagaland	152	0	2.6	2.5	-0.2	10	0.00
	- 10000000000		•					0.00

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

Tripura

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.2	7.5	-25.0	-18.1
Day Peak (MW)	1844.0	417.0	-1091.0	-780.9

334

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	266.5	-244.2	25.5	-39.6	-8.1	0.0
Actual(MU)	252.0	-243.9	27.4	-35.0	-6.6	-6.1
O/D/U/D(MU)	-14.5	0.3	1.9	4.6	1.5	-6.1

F. Generation Outage(MW)

1. Generation Gutage(17177)	z. ownermon ommer(x.x.,)										
	NR	WR	SR	ER	NER	TOTAL	% Share				
Central Sector	5899	12031	6648	2885	271	27734	42				
State Sector	7915	17843	9213	2740	180	37891	58				
Total	13814	29874	15861	5625	451	65624	100				

6.2

5.6

0.2

53

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	623	1156	484	566	13	2842	61
Lignite	22	7	56	0	0	85	2
Hydro	444	69	73	137	34	757	16
Nuclear	29	50	64	0	0	143	3
Gas, Naptha & Diesel	10	9	7	0	29	55	1
RES (Wind, Solar, Biomass & Others)	153	256	364	4	1	778	17
Total	1282	1546	1047	706	78	4660	100
Share of RES in total generation (%)	11.96	16.53	34.78	0.53	1.53	16.70	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	48.84	24.25	47.86	19.94	45.22	36.02	

H. All India Demand Diversity Factor

III IIII III III Delliulia Diversity I actor							
Based on Regional Max Demands	1.034						
Based on State Max Demands	1.055						
•							

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	187200	11:54	26
Non-Solar hr	195133	20:38	19

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

0.00

^{**}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: 31-Jul-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1mpo	rt/Export of ER (\ HVDC	WITH NK) ALIPURDUAR-AGRA	2	0	501	0.0	12.0	-12.0
3	HVDC 765 kV	PUSAULI B/B GAYA-VARANASI	2	0 699	108 526	0.0	2.5 0.1	-2.5 -0.1
4	765 kV	SASARAM-FATEHPUR	1	191	295	0.0	1.8	-1.8
6		GAYA-BALIA PUSAULI-VARANASI	1	47 0	696 116	0.0	6.0 1.8	-6.0 -1.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	68 794	0.0	0.7 13.1	-0.7
8 9		MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0 101	452	0.0	3.8	-13.1 -3.8
10 11		NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	171 227	461 262	0.0	3.7 0.3	-3.7 -0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	446	0.0	7.5	-7.5
13 14	400 kV 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	262 11	184 109	0.0	0.4 1.3	-0.4 -1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16 17		GARWAH-RIHAND KARMANASA-SAHUPURI	1	30	0	0.8	0.0	0.8
18		KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
Impo	rt/Export of ER (V	With WR)			ER-NR	0.8	54.9	-54.1
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1862	0	27.1	0.0	27.1
3	765 kV 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2 2	1827 414	150 277	24.9 0.9	0.0	24.9 0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	189	492	0.0	4.2	-4.2
6		RANCHI-SIPAT BUDHIPADAR-RAIGARH	2	431	139 44	4.6 0.0	0.0 2.2	4.6 -2.2
7		BUDHIPADAR-KORBA	2	133	0	0.9	0.0	0.9
Impo	rt/Export of ER (V	With CD			ER-WR	58.6	6.4	52.1
1		JEYPORE-GAZUWAKA B/B	2	592	0	10.1	0.0	10.1
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1597 2628	0.0	35.2 41.2	-35.2 -41.2
4	400 kV	TALCHER-I/C	2 2	632	613	1.1	0.0	1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 76.4	0.0
Impo	rt/Export of ER (V	With NER)			ER-SK	10.1	/0.4	-66.3
1	400 kV	BINAGURI-BONGAIGAON	2	155	247	0.5	1.6	-1.2
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	239 27	349 89	0.0	1.7 0.9	-1.7 -0.9
		•	· -	- -	ER-NER	0.5	4.2	-3.7
Impo	rt/Export of NER HVDC	(With NR) BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
1	HVDC	DISWANATH CHARIALI-AGRA	2	U	NER-NR	0.0	12.0	-12.0
Impo	rt/Export of WR (
2	HVDC HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	0	3020 295	0.0	50.5	-50.5 -6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	299	0.0	7.4	-7.4
5		GWALIOR-AGRA GWALIOR-PHAGI	2 2	0 710	2671 1754	0.0 3.4	34.6 17.3	-34.6 -13.8
6	765 kV	JABALPUR-ORAI	2	0	1081	0.0	26.3	-26.3
7 8		GWALIOR-ORAI SATNA-ORAI	1	990	0 894	14.1 0.0	0.0 14.8	14.1 -14.8
9	765 kV	BANASKANTHA-CHITORGARH	2 2	281	1141	0.5	12.4	-11.9
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	0 61	3167 155	0.0	49.8 1.5	-49.8 -1.3
12		ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	210	239	1.2	1.1 0.0	0.1
13 14	400 kV	RAPP-SHUJALPUR	2	955 235	730	17.3 1.0	5.8	17.3 -4.8
15 16		BHANPURA-RANPUR BHANPURA-MORAK	1	0	0 30	0.0	0.0 1.5	0.0 -1.5
17	220 kV	MEHGAON-AURAIYA	1	0	0	0.0	0.0	0.0
18 19	220 kV 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20		RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Imno	rt/Export of WR ((With CD)			WR-NR	37.7	228.9	-191.2
1		BHADRAWATI B/B		1000	0	14.5	0.0	14.5
3	HVDC 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1802	1002 1063	0.0 11.3	16.5 4.4	-16.5 6.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2430	0.0	31.1	-31.1
6	400 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1479 0	0	25.3 0.0	0.0	25.3 0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	112 WR-SR	2.1 53.1	0.0 51.9	2.1 1.2
		TN	TERNATIONAL EXC	CHANGES	TT IX-SIX	33.1		+ve)/Export(-ve)
	State	Region	Line 1		Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
		Kegivii	400kV MANGDECHHU-A		Trada (ITA TT)	(172 77)		(MU)
		ER	ALIPURDUAR RECEIPT	(from MANGDECHU	619	568	570	13.69
			HEP 4*180MW) 400kV TALA-BINAGURI	1,2,4 (& 400kV				
		ER	MALBASE - BINAGURI) i.e. BINAGURI	1068	1005	1017	24.41
			RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	EP 6*170MW) RA 1&2 (& 220kV				
	BHUTAN	ER	MALBASE - BIRPARA) i		204	134	163	3.91
			(from CHUKHA HEP 4*8					
		NER	132kV GELEPHU-SALAI	KATI	-28	-19	-23	-0.56
		NER	132kV MOTANGA-RANG	GIA	-64	-33	-50	-1.21
			1201-11-11-11-11-11-11-11-11-11-11-11-11-1	A.D. (F.) A.D. (F.)				
		NR	132kV MAHENDRANAG	AK-TANAKPUR(NHPC)	-63	0	-20	-0.47
			MEDAL PAROPE CENT	I DIII A D				0.00
1	NIED AT	ER	NEPAL IMPORT (FROM BIHAR)		0	0	0	0.00
	NEPAL			4001 V DVI I VED I D MUZI EE DDVID 102				
	NEPAL		400FA DATA F ABO 1 B 2 C	IZAEEADDUD 192	400	102	222	700
	NEPAL	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	480	193	332	7.96
	NEPAL	ER						
	NEPAL		400kV DHALKEBAR-MU BHERAMARA B/B HVD		480 -934	193 -862	-923	7.96
10		ER ER ER	BHERAMARA B/B HVD	C (B'DESH)	-934	-862	-923	-22.16
E	NEPAL BANGLADESH	ER ER		C (B'DESH)				
В		ER ER ER	BHERAMARA B/B HVD	C (B'DESH) HANPUR (B'DESH) D/C	-934	-862	-923	-22.16

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 31-Jul-2023

Export From India (in MU)

					STOA					
	(ISGS/LTA/MTOA)				COLLE	ECTIVE				
Country	PPA	BILATERAL	IDAM			RTM			TOTAL	
			TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Nepal	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	
Bangladesh	22.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.13	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Export	22.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.20	

Import by India(in MU)

			STOA								
	(ISGS/LTA/MTOA)				COLLE	ECTIVE					
Country	PPA	BILATERAL		IDAM			RTM				
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX			
Bhutan	41.54	1.87	0.00	0.00	0.00	0.00	0.00	0.00	43.41		
Nepal	0.00	0.00	7.74	0.00	0.00	0.00	0.00	0.00	7.74		
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Import	41.54	1.87	7.74	0.00	0.00	0.00	0.00	0.00	51.15		

Net from India(in MU) -ve : Export / +ve : Import

-ve: Export / +ve: import											
			STOA								
	(ISGS/LTA/MTOA)				COLLE	ECTIVE					
Country	PPA	BILATERAL		IDAM		RTM			TOTAL		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX			
Bhutan	41.54	1.87	0.00	0.00	0.00	0.00	0.00	0.00	43.41		
Nepal	-0.07	0.00	7.74	0.00	0.00	0.00	0.00	0.00	7.67		
Bangladesh	-22.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.13		
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Net	19.34	1.87	7.74	0.00	0.00	0.00	0.00	0.00	28.95		