

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंट्रोलर 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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23<sup>th</sup> October 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
- 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 22.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-अक्टूबर-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 22<sup>th</sup> October 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: 23-Oct-2023 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)	49875	61119	47304	21285	2630	182213
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1103	1508	1178	458	51	4298
Hydro Gen (MU)	162	41	54	50	21	327
Wind Gen (MU)	12	37	28	-	-	77
Solar Gen (MU)*	113.50	63.35	118.96	2.81	1.29	300
Energy Shortage (MU)	0.25	0.00	0.00	0.00	0.00	0.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52357	69416	56539	21719	2868	197037
Time Of Maximum Demand Met	18:31	11:02	10:42	17:57	17:46	10:51

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	0.036	0.00	0.13	5.57	5.69	74.92	19.38

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	6713	0	138.7	50.5	-0.8	222	0.00
	Haryana	6924	0	145.6	94.3	-1.5	258	0.00
	Rajasthan	13812	0	282.3	97.8	-4.6	139	0.00
	Delhi	3570	0	73.0	60.1	-0.2	130	0.00
NR	UP	17890	0	336.6	128.4	0.0	1498	0.00
	Uttarakhand	1922	0	36.9	26.3	0.4	177	0.00
	HP	1744	0	32.0	20.8	-0.5	57	0.00
	J&K(UT) & Ladakh(UT)	2459	0	51.2	38.4	4.6	393	0.25
	Chandigarh	175	0	3.1	3.4	-0.3	7	0.00
	Railways_NR ISTS	168	0	3.4	3.7	-0.3	18	0.00
	Chhattisgarh	4977	0	110.2	55.3	-1.1	213	0.00
	Gujarat	20553	0	422.8	177.6	-0.2	500	0.00
	MP	14380	0	302.5	188.3	-3.9	670	0.00
WR	Maharashtra	27235	0	599.8	265.6	-2.2	929	0.00
	Goa	662	0	13.6	12.5	1.0	51	0.00
	DNHDDPDCL	1228	0	28.8	28.5	0.3	56	0.00
	AMNSIL	811	0	18.0	9.4	-0.2	247	0.00
	BALCO	522	0	12.4	12.5	-0.1	5	0.00
	Andhra Pradesh	12234	0	233.6	108.1	-2.5	675	0.00
	Telangana	13195	0	279.0	146.4	1.1	600	0.00
$\mathbf{SR}$	Karnataka	14540	0	259.6	100.0	-2.3	610	0.00
	Kerala	3522	0	75.1	63.6	0.6	164	0.00
	Tamil Nadu	14687	0	321.7	187.3	-0.6	536	0.00
	Puducherry	393	0	9.2	8.9	-0.3	23	0.00
	Bihar	5296	0	105.8	95.9	0.9	129	0.00
	DVC	3139	0	68.1	-34.7	0.5	347	0.00
	Jharkhand	1651	0	30.3	24.9	-2.7	181	0.00
ER	Odisha	4860	0	104.6	32.3	-1.1	346	0.00
	West Bengal	7154	0	148.0	11.7	-1.6	225	0.00
	Sikkim	64	0	0.9	1.0	-0.1	27	0.00
	Railways_ER ISTS	24	0	0.2	0.1	0.1	20	0.00
	Arunachal Pradesh	146	0	2.6	2.3	0.0	26	0.00
	Assam	1693	0	30.3	22.6	-0.2	226	0.00
	Manipur	192	0	2.7	2.6	0.0	27	0.00
NER	Meghalaya	317	0	5.8	4.0	-0.2	41	0.00
	Mizoram	111	0	1.8	1.4	-0.2	19	0.00
	Nagaland	144	0	2.5	2.4	-0.1	12	0.00
	Tripura	313	0	5.5	4.6	-0.1	20	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	11.0	17.0	-24.6	-14.4
Day Peak (MW)	472.7	654.0	-1041.0	-935.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	162.2	-169.2	152.1	-146.3	-10.8	-12.0
Actual(MU)	159.4	-124.7	167.9	-201.1	-6.9	-5.4
O/D/U/D(MU)	-2.8	44.5	15.8	-54.8	3.9	6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4784	8442	3508	4126	235	21094	48
State Sector	6361	9938	4169	1880	121	22469	52
Total	11145	18380	7677	6006	356	43563	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	664	1536	726	667	14	3608	77
Lignite	23	19	58	0	0	100	2
Hydro	162	41	54	50	21	327	7
Nuclear	25	54	71	0	0	150	3
Gas, Naptha & Diesel	14	20	5	0	27	67	1
RES (Wind, Solar, Biomass & Others)	131	103	177	4	1	415	9
Total	1018	1772	1092	721	64	4667	100
GI 4.77.G.1 (4.1)	10.00		4640			0.00	1
Share of RES in total generation (%)	12.82	5.80	16.19	0.53	2.01	8.89	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.16	11.13	27.61	7.43	34.82	19.11	

H.	All	India	Demand	Diversity	Factor
D-		D	134	D	.1

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.029
Based on State Max Demands	1.062

I. All India Peak	Demand ar	nd shortage	at Solar and l	Non-Solar Hour
	ì	D 117	A CR STEEL	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	197037	10:51	0
Non-Solar hr	188735	18:40	0

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

 $<sup>*</sup>Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$ 

No			INTER-F	REGIONAL EXCH	IANGES		Import=(+ve) /Export Date of Reporting:	
	_		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
1	1 HVD	C ALIPURDUAR-AGRA						
Color   Colo				-				
	6 400 k	V PUSAULI-VARANASI	1	31	44	0.1	0.0	0.1
	9 400 k			-	406			
	11 400 k	V BIHARSHARIFF-BALIA	2	49	219	0.0	3.3	-3.3
1								
STATES   SARSANSSANSCHENNISCH   S.   S.   S.   S.   S.   S.   S.   S	16 132 k	V GARWAH-RIHAND	î	30	0	0.5	0.0	0.5
Property								
1	mant/Ermont	FED (With WD)			ER-NR	0.6	91.6	-91.0
2	1 765 k	V JHARSUGUDA-DHARAMJAIGARH	4	297		0.0		-2.8
1	4 400 k	V JHARSUGUDA-RAIGARH	4	0	748	0.0	13.6	-13.6
FEWER   0.9   43.5   43.5	6 220 k	V BUDHIPADAR-RAIGARH	_	0	145		2.4	
PROFESSION   PROPERTY   PROPERT	7 220 k	V BUDHIPADAR-KORBA	2	63				
1	mport/Export o	of ER (With SR)			ER-VVR	0.0	•	-43.0
1								
Design	3 765 k	V ANGUL-SRIKAKULAM	2	0	2618	0.0	52.2	-52.2
### STATE   ST					0	0.0	0.0	0.0
	nnort/Evnort	of ER (With NER)			ER-SR	0.0	104.5	-104.5
2   24   62   62   62   62   62   62	1 400 k	V BINAGURI-BONGAIGAON						
PRIVE   PRIVA   PRIV								
The Instruction of the Instruc	•	•						
T   T   T   T   T   T   T   T   T   T	1 HVD	C BISWANATH CHARIALI-AGRA	2	0				
2   NYDC   NYBURACHALER			2	5	0	0.0	0.0	0.0
4   7543V   GWALDRAGEA   2   394   1114   9.6   121   1.12   1.	2 HVD	C VINDHYACHAL B/B		0	55	0.0	1.2	-1.2
0	4 765 k	V GWALIOR-AGRA	2	304	1114	0.6	12.1	-11.5
7   75.614°   GWALIGO-CHAI   1   987   0   170   6.0   170   8   75.614°   KNINA-GRAI   1   987   0   170   6.0   170   8   75.614°   KNINA-GRAI   1   2   2   3   5   5   10   75.614°   KNINA-GRAI   1   2   2   3   5   5   10   75.614°   KNINA-GRAI   1   1   1   1   1   1   1   11   6014°   AND ALTER   AN								
9	7 765 k	V GWALIOR-ORAI	1	987	0	17.0	0.0	17.0
1			•					
12   12   20   20   7.3   0.0   7.3   0.0   7.3   1.0   7.3   7.			2					
14   400 KV   RAPPSHUDALPUR   2   570   180   2.77   0.7   2.0	12 400 k	V ZERDA -BHINMAL	1	785	0	7.3	0.0	7.3
10	14 400 k	V RAPP-SHUJALPUR		570	180	2.7	0.7	2.0
1			1					
19   19   19   19   19   19   19   19	17 220 k	V MEHGAON-AURAIYA	1					1.8
NR-NR   82.9   140.4   .57.5	19 132 k	V GWALIOR-SAWAI MADHOPUR	i	0	0	0.0	0.0	0.0
I   IVDC	20 132 k	V RAJGHAT-LALITPUR	2	0	-			
NEPAL   NOLLAPERALTUR   2   0   3008   0.0   77.2   7.22   7.22			1				101	
1			2					
\$\frac{8}{6} & \frac{400}{400} & \frac{1}{400} & \frac{1}{40} & \frac{1}{400} & \frac{1}{40} & \frac{1}{400} & \frac{1}{40} & \frac								
7   229 kV   NOJHAPUR-CHIKODI   2   0   0   0.0   0.0   0.0   0.0   0.0     8   229 kV   PONDA-AMBEWADI   1   0   0   0   0.0   0.0   0.0   0.0     9   229 kV   PONDA-AMBEWADI   1   0   0   0   0.0   0.0   0.0   0.0	5 765 k	V WARORA-WARANGAL(NEW)	2	0	1951	0.0	37.0	-37.0
1   0   119   2.4   0.0   2.4		V KOLHAPUR-CHIKODI				0.0	0.0	0.0
NTERNATIONAL EXCHANGES			1					
State   Region   Line Name   Max (MW)   Min (MW)   Avg (MW)   Energy Exchange (MU)			•	•			151.2	
August   A	Stata				Mov (MIII)	Min (MM)		(+ve)/Export(-ve) Energy Exchange
BHUTAN   ER   MALBASE - BINGAURI L2.4 (& 400kV   MALBASE - BINGAURI L3.4 (& 400kV   MALBASE - BINGAURI L3.4   EP 6*170mW   MALBASE - BIRGAURI L6.2 (& 220kV   MALBASE - BIRPARA) L6. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	State		400kV MANGDECHHU- ALIPURDUAR RECEIP	-ALIPURDUAR 1,2&3 i.e.				(MU)
BHUTAN   ER   MALBASE - BIRPARA RECEIPT   -114   -69   -95   -2.28		ER	400kV TALA-BINAGUR MALBASE - BINAGUR	RI) i.e. BINAGURI	362	258	362	9.59
NER   132kV GELEPHU-SALAKATI   -11   4   -2   -0.05	BHUTAN	ER	220kV CHÜKHA-BIRPA MALBASE - BIRPARA)	ARA 1&2 (& 220kV i.e. BIRPARA RECEIPT	-114	-69	-95	-2.28
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00  ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 666 546 642 15.40  ER BHERAMARA B/B HVDC (B'DESH) -917 -871 -914 -21.94  ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -935 -500 -599 -14.37		NER	132kV GELEPHU-SALA	KATI	-11	4	-2	-0.05
NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.00  ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 666 546 642 15.40  ER BHERAMARA B/B HVDC (B'DESH) -917 -871 -914 -21.94  ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -935 -500 -599 -14.37		NER	132kV MOTANGA-RAN	GIA	34	0	28	0.66
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 666 546 642 15.40  ER BHERAMARA B/B HVDC (B'DESH) -917 -871 -914 -21.94  BANGLADESH ER (Isolated from Indian Grid) 400kV GODDA_TPS-RAHANPUR (B'DESH) D/C -935 -500 -599 -14.37		NR	132kV MAHENDRANA	GAR-TANAKPUR(NHPC)	-12	0	65	1.57
ER         BHERAMARA B/B HVDC (B'DESH)         -917         -871         -914         -21.94           BANGLADESH         ER (Isolated from Indian Grid)         400kV GODDA_TPS-RAHANPUR (B'DESH) D/C         -935         -500         -599         -14.37	NEPAL		· ·	<u> </u>	0	0		0.00
BANGLADESH  ER (Isolated from Indian Grid)  400kV GODDA_TPS-RAHANPUR (B'DESH) D/C  -935  -500  -599  -14.37							-	
(Isolated from Indian Grid)	BANGLADES	SH ER						
THE TOTAL PROPERTY OF THE PROP	(	(Isolated from Indian Grid)  NER			-124	0	-109	-2.62

## CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 23-Oct-2023

Export From India (in MU)

Export From In					T-GNA				
Country	GNA (ISGS/PPA)	COLLECTIVE							-
		BILATERAL TOTAL	IDAM			RTM			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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	21.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.94
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.94

Import by India(in MU)

		T-GNA							
Country	GNA (ISGA/PPA)	COLLECTIVE							
		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	10.43	0.00	1.21	0.00	0.00	0.00	0.00	0.00	11.64
Nepal	2.63	0.00	12.51	0.00	0.00	0.00	0.00	0.00	15.14
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	13.06	0.00	13.72	0.00	0.00	0.00	0.00	0.00	26.78

Net from India(in MU) -ve : Export / +ve : Import T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM TOTAL BILATERAL RTM Country TOTAL IEX PXIL HPX IEX PXIL HPX 10.43 0.00 1.21 0.00 0.000.00 11.64 Bhutan 0.000.002.63 0.00 12.51 0.00 0.00 0.000.00 0.0015.14 Nepal -21.94 Bangladesh 0.000.000.000.000.000.000.00-21.94 0.00 0.000.00 0.000.000.000.00 0.00 0.00 Myanmar **Total Net** -8.88 0.0013.72 0.00 0.000.000.004.84 0.00