

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 18th 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
- 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 17.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th October 2023, is available at the NLDC website.

धन्यवाद.

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



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 18-Oct-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	52052	63938	48956	23720	3089	191755
Peak Shortage (MW)	0	0	0	1211	16	1227
Energy Met (MU)	1053	1520	1206	535	58	4372
Hydro Gen (MU)	177	76	65	65	26	409
Wind Gen (MU)	31	46	22	-	-	98
Solar Gen (MU)*	99.44	58.43	114.08	5.34	1.23	279
Energy Shortage (MU)	0.12	0.79	0.00	6.28	0.31	7.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53373	70576	58366	24587	3206	200887
Time Of Maximum Demand Met	18:45	15:16	10:47	20:58	18:05	11:27

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	0.056	0.22	1.67	8.04	9.93	69.83	20.24

C. Power Supply Position in States

Region	States	Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU
	Punjab	6868	0	133.9	42.5	-1.1	252	0.00
	Haryana	7288	0	146.2	91.5	-2.0	231	0.00
	Rajasthan	13367	0	266.2	66.9	-8.5	191	0.00
	Delhi	4022	0	81.7	66.0	-2.1	59	0.00
NR	UP	17736	0	300.2	99.7	-2.8	1393	0.00
	Uttarakhand	1923	0	37.2	23.1	0.3	203	0.00
	HP	1794	0	32.9	19.9	0.0	55	0.00
	J&K(UT) & Ladakh(UT)	2480	0	47.8	36.6	0.1	204	0.12
	Chandigarh	207	0	3.7	4.1	-0.5	9	0.00
	Railways NR ISTS	177	0	3.4	3.5	0.0	24	0.00
	Chhattisgarh	5266	0	120.1	58.7	-0.5	190	0.00
	Gujarat	20953	0	422.5	163.1	-2.1	623	0.00
	MP	13124	0	286.7	187.6	-5.4	722	0.00
WR	Maharashtra	28206	0	618.7	282.9	-3.4	1020	0.79
	Goa	699	0	14.3	13.1	0.8	95	0.00
	DNHDDPDCL	1295	0	29.9	30.1	-0.2	38	0.00
	AMNSIL	738	0	15.1	6.5	-0.5	304	0.00
	BALCO	523	0	12.4	12.5	-0.1	30	0.00
	Andhra Pradesh	12513	0	244.7	127.4	-0.5	1087	0.00
	Telangana	14349	0	283.6	156.3	-1.5	479	0.00
SR	Karnataka	14651	0	267.0	103.0	-2.1	634	0.00
520	Kerala	3946	0	80.7	62.2	0.7	290	0.00
	Tamil Nadu	15709	0	320.0	200.7	-3.1	629	0.00
	Puducherry	454	0	10.0	9.5	-0.3	47	0.00
	Bihar	5589	367	113.9	100.9	2.8	346	1.72
	DVC	3333	0	72.4	-30.1	0.3	310	0.00
	Jharkhand	1513	171	32.2	23.8	-1.0	220	4.56
ER	Odisha	5182	0	116.4	35.3	-1.1	384	0.00
220	West Bengal	9244	0	199.1	59.4	-2.5	133	0.00
	Sikkim	82	0	1.2	0.9	0.3	41	0.00
	Railways_ER ISTS	32	0	0.2	0.2	0.0	0	0.00
	Arunachal Pradesh	149	0	2.5	2.2	0.1	48	0.00
	Assam	2098	0	36.7	27.6	0.8	250	0.16
	Manipur	201	0	2.7	2.7	0.0	30	0.00
NER	Meghalaya	326	16	5.7	3.2	-0.2	73	0.15
141517	Mizoram	122	0	1.9	0.8	-0.1	23	0.00
	Nagaland	160	0	2.6	2.5	-0.1	17	0.00
	Tripura	352	0	6.0	5.1	0.6	87	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	16.1	14.2	-24.0	-12.5
Day Peak (MW)	693.0	583.0	-1070.0	-536.0

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

	NR	WR	SR	$\mathbf{E}\mathbf{R}$	NER	TOTAL
Schedule(MU)	77.0	-185.6	210.8	-95.4	-6.8	0.0
Actual(MU)	47.0	-178.0	226.7	-89.0	-4.3	2.4
O/D/U/D(MU)	-30.0	7.5	15.9	6.4	2.5	2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4635	9129	3968	4831	205	22768	50
State Sector	5786	8954	5091	2480	290	22601	50
Total	10421	18083	9059	7311	495	45369	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	697	1569	706	617	14	3603	76
Lignite	22	16	47	0	0	85	2
Hydro	177	76	65	65	26	409	9
Nuclear	25	54	70	0	0	148	3
Gas, Naptha & Diesel	22	44	6	0	27	99	2
RES (Wind, Solar, Biomass & Others)	134	105	168	6	1	415	9
Total	1077	1864	1063	688	69	4760	100
Share of RES in total generation (%)	12.42	5.66	15.84	0.92	1.79	8.72	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.13	12.60	28.55	10.41	39.85	20.43	

H	. All	India	Den	nand D	iversity	Factor	
-	_	_	•	117	1		

H. All India Demand Diversity Factor			
Based on Regional Max Demands	1.045		
Based on State Max Demands	1.078		

I. All India Peak	Demand	and	shortage	at Solar	and l	Non-Solar Hour
		7	- 117	1 (3 5777)		

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	200887	11:27	0
Non-Solar hr	197596	18:31	1716

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

^{**}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: 18-Oct-2023

						Date of Reporting:	18-Oct-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		_				10.4	
1 HVDC 2 HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	501 166	0.0	12.4 1.3	-12.4 -1.3
3 765 kV	GAYA-VARANASI	2	357	209	2.8	0.0 2.6	2.8
4 765 kV 5 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1	24 0	303 314	0.0	3.6	-2.6 -3.6
6 400 kV 7 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	37	96 71	0.0	1.2 0.0	-1.2 0.1
8 400 kV	MUZAFFARPUR-GORAKHPUR	2	193	253	0.0	0.5	-0.5
9 400 kV 10 400 kV	PATNA-BALIA NAUBATPUR-BALIA	2 2	27 63	199 190	0.0	1.9 1.4	-1.9 -1.4
11 400 kV	BIHARSHARIFF-BALIA	2	223	45	2.4	0.0	2.4
12 400 kV 13 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	75 163	147 58	0.0 2.1	0.2	-0.2 2.1
14 220 kV	SAHUPURI-KARAMNASA	1	15	104	0.0	0.8	-0.8
15 132 kV 16 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	30	0	0.1 0.4	0.0	0.1 0.4
17 132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0
18 132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	7.8	0.0 25.8	-18.0
Import/Export of ER	(With WR)			ER-NK	7.8	25.6	-18.0
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1334	0	20.6	0.0	20.6
2 765 kV 3 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2 2	1006	253 490	9.6	0.0 8.2	9.6 -8.2
4 400 kV	JHARSUGUDA-RAIGARH	4	0	737	0.0	11.0	-11.0
5 400 kV 6 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	1	198	165 217	0.5	0.0 3.8	0.5 -3.8
7 220 kV	BUDHIPADAR-KORBA	2	118	50	1.0	0.0	1.0
I	(With CD)			ER-WR	31.6	23.0	8.6
Import/Export of ER	(With SR) JEYPORE-GAZUWAKA B/B	2	0	549	0.0	12.4	-12.4
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	48.1	-48.1
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0	2718 435	0.0	53.2 3.1	-53.2 -3.1
5 220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
Immout/E	(W/:4L NED)			ER-SR	0.0	113.7	-113.7
Import/Export of ER	(With NER) BINAGURI-BONGAIGAON	2	0	357	0.0	5.6	-5.6
2 400 kV	ALIPURDUAR-BONGAIGAON	2	0	370	0.0	4.8	-4.8
3 220 kV	ALIPURDUAR-SALAKATI	2	10	63 ER-NER	0.0	0.7 11.2	-0.7 11.2
Import/Export of NEI	R (With NR)			EK-NEK	0.0	11,2	-11.2
1 HVDC	BISWANATH CHARIALI-AGRA	2	0	695	0.0	16.7	-16.7
I	(WALNE)	·		NER-NR	0.0	16.7	-16.7
Import/Export of WR 1 HVDC	(With NR) CHAMPA-KURUKSHETRA	2	5	0	0.0	0.0	0.0
2 HVDC	VINDHYACHAL B/B		0	54	0.0	1.2	-1.2
3 HVDC 4 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0 763	1449 709	0.0 2.0	25.6 6.0	-25.6
5 765 kV	GWALIOR-PHAGI	2	267	1080	0.4	10.3	-3.9 -9.8
6 765 kV	JABALPUR-ORAI	2	162	333	0.0	5.8 0.0	-5.8
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	718	0 655	12.2 0.0	13.0	12.2 -13.0
9 765 kV	BANASKANTHA-CHITORGARH	2	1856	0	22.6	0.0	22.6
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	0 274	2126 0	3.8	31.4 0.0	-31.4 3.8
12 400 kV	ZERDA -BHINMAL	1	729	0	8.9	0.0	8.9
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	966 521	0 14	22.1 6.3	0.0	22.1 6.3
15 220 kV	BHANPURA-RANPUR	1	0	107	0.0	1.8	-1.8
16 220 kV 17 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 123	30	0.0 1.9	2.2 0.0	-2.2 1.9
18 220 kV	MALANPUR-AURAIYA	1	100	0	1.5	0.0	1.5
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
				WR-NR	81.8	97.3	-15.4
Import/Export of WR				1005		22.0	***
1 HVDC 2 HVDC	BHADRAWATI B/B RAIGARH-PUGALUR	2	0	1007 4761	0.0	23.8 94.0	-23.8 -94.0
3 765 kV	SOLAPUR-RAICHUR	2	959	595	5.2	2.0	3.2
4 765 kV 5 765 kV	WARDHA-NIZAMABAD WARORA-PG-WARANGAL	2 2	0	2155 2068	0.0	35.7 31.6	-35.7 -31.6
6 400 kV	KOLHAPUR-KUDGI	2	1477	0	25.8	0.0	25.8
7 220 kV 8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
9 220 kV	XELDEM-AMBEWADI	î	0	110	2.3	0.0	2.3
				WR-SR	33.2	187.0	-153.8
	IN	TERNATIONAL EX	CHANGES			Import(+ve)/Export(-ve)
State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU- ALIPURDUAR RECEIP' HEP 4*180MW)	ALIPURDUAR 1,2&3 i.e. T (from MANGDECHU	195	111	158	3.79
	ER	400kV TALA-BINAGUR MALBASE - BINAGUR	I) i.e. BINAGURI	641	441	625	14.99
BHUTAN	ER	RECEIPT (from TALA H 220kV CHUKHA-BIRPA MALBASE - BIRPARA)	RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	-192	-58	-154	-3.69
	NER	(from CHUKHA HEP 4*) 132kV GELEPHU-SALA	•	9	3	4	0.09
	NER	132kV MOTANGA-RAN	GIA	46	27	40	0.95
						0	
NEW AT	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		0	0		1.16
NEPAL	ER	NEPAL IMPORT (FROM BIHAR)		0	0	0	0.00
	ER	400kV DHALKEBAR-M		583	317	543	13.02
	ER	BHERAMARA B/B HVD	OC (B'DESH)	-919	-770	-880	-21.13
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-536	-508	-521	-12.50

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 18-Oct-2023

Export From India (in MU)

Export From II	iuia (iii WIC)	1							1
		T-GNA							
Country	GNA (ISGS/PPA)		COLLECTIVE						7
		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	21.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.04
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.04

Import by India(in MU)

Total Net

-2.18

0.00

12.49

	T-GNA								
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	16.23	0.00	1.37	0.00	0.00	0.00	0.00	0.00	17.60
Nepal	2.63	0.00	11.12	0.00	0.00	0.87	0.00	0.00	14.62
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	18.86	0.00	12.49	0.00	0.00	0.87	0.00	0.00	32.22

Net from India(in MU) -ve : Export / +ve : Import T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM BILATERAL RTM TOTAL Country TOTAL IEX PXIL HPX IEX PXIL HPX 16.23 0.00 0.00 0.000.00 17.60 Bhutan 1.37 0.000.002.63 0.00 11.12 0.00 0.00 0.87 0.00 0.0014.62 Nepal -21.04 Bangladesh 0.000.000.000.000.000.000.00-21.04 0.00 0.000.00 0.000.000.000.00 0.00 0.00Myanmar

0.00

0.00

0.87

0.00

0.00

11.18