

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: 22th October 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
- 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 21.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21th October 2023, is available at the NLDC website.

धन्यवाद.

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



Date of Reporting: 22-Oct-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)	53010	63842	47719	22200	2958	189729
Peak Shortage (MW)	0	0	0	0	7	7
Energy Met (MU)	1151	1536	1218	480	56	4441
Hydro Gen (MU)	164	47	58	46	22	338
Wind Gen (MU)	12	34	28	-	-	74
Solar Gen (MU)*	120.51	63.93	117.08	2.91	1.28	306
Energy Shortage (MU)	0.26	0.00	0.00	0.07	0.05	0.38
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55826	71219	60384	22289	3172	204716
Time Of Maximum Demand Met	18:26	15:17	11:54	18:13	17:31	10:44

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 0.030 0.35 81.51 0.00 3.69 14.80

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	7407	0	149.3	51.4	0.3	275	0.00
	Haryana	7735	0	161.4	109.1	-0.6	176	0.00
	Rajasthan	14273	0	288.8	100.4	-2.0	437	0.00
	Delhi	3812	0	76.4	58.8	-0.8	159	0.00
NR	UP	18558	0	345.9	122.3	-1.5	780	0.00
	Uttarakhand	1967	0	38.6	27.0	-0.1	201	0.03
	HP	1855	0	33.7	22.7	-0.4	63	0.00
	J&K(UT) & Ladakh(UT)	2447	0	49.8	37.4	4.2	399	0.23
	Chandigarh	190	0	3.5	3.8	-0.3	9	0.00
	Railways_NR ISTS	166	0	3.4	3.6	-0.2	26	0.00
	Chhattisgarh	5059	0	112.5	54.3	-0.9	245	0.00
	Gujarat	21689	0	436.2	182.5	-0.2	634	0.00
	MP	14333	0	305.1	192.7	-5.1	335	0.00
WR	Maharashtra	27651	0	607.4	269.4	-6.0	734	0.00
	Goa	734	0	15.1	13.9	0.9	88	0.00
	DNHDDPDCL	1291	0	29.5	29.6	-0.1	36	0.00
	AMNSIL	858	0	18.0	8.5	-0.1	259	0.00
	BALCO	521	0	12.4	12.5	-0.1	12	0.00
	Andhra Pradesh	12352	0	242.3	117.8	-2.3	353	0.00
	Telangana	13915	0	263.3	131.1	-1.6	693	0.00
SR	Karnataka	15411	0	274.4	107.2	0.1	587	0.00
	Kerala	4088	0	82.7	69.1	0.6	245	0.00
	Tamil Nadu	15975	0	345.2	208.2	-1.3	334	0.00
	Puducherry	424	0	9.9	9.6	-0.4	18	0.00
	Bihar	5482	0	109.2	99.9	-0.4	250	0.00
	DVC	3254	0	71.2	-34.2	0.5	276	0.00
	Jharkhand	1544	65	31.7	26.4	-2.6	162	0.07
ER	Odisha	4584	0	108.3	35.8	-1.7	365	0.00
	West Bengal	7659	0	158.8	22.5	-2.8	137	0.00
	Sikkim	73	0	1.1	0.9	0.2	32	0.00
	Railways_ER ISTS	17	0	0.2	0.2	0.0	12	0.00
	Arunachal Pradesh	156	0	2.7	2.2	0.3	59	0.00
	Assam	1941	0	34.9	26.7	0.1	101	0.00
	Manipur	200	0	2.7	2.6	0.1	22	0.00
NER	Meghalaya	332	0	5.8	3.4	-0.2	240	0.05
	Mizoram	129	0	2.0	1.5	-0.1	20	0.00
	Nagaland	152	0	2.6	2.3	0.0	22	0.00
	Tripura	308	0	5.4	4.4	-0.1	17	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	10.8	16.6	-23.9	-12.3
Day Peak (MW)	601.0	635.0	-1046.0	-524.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	166.7	-203.3	169.0	-130.9	-1.5	0.0
Actual(MU)	156.1	-166.5	182.9	-176.9	-1.4	-5.8
O/D/U/D(MU)	-10.6	36.8	13.9	-46.0	0.1	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4654	7142	3508	4126	205	19634	45
State Sector	8621	9968	3959	1580	121	24248	55
Total	13275	17109	7467	5706	326	43882	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	698	1596	752	667	15	3728	77
Lignite	23	19	53	0	0	95	2
Hydro	164	47	58	46	22	338	7
Nuclear	25	54	71	0	0	149	3
Gas, Naptha & Diesel	25	34	5	0	28	91	2
RES (Wind, Solar, Biomass & Others)	137	100	176	4	1	418	9
Total	1072	1850	1115	717	66	4820	100
Share of RES in total generation (%)	12.80	5.41	15.79	0.54	1.93	8.68]
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.46	10.87	27.31	6.97	35.73	18.79	

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

H. Ali India Demand Diversity Factor				
Based on Regional Max Demands	1.039			
Based on State Max Demands	1.067			

I. All India Peak	Demand	and	shortage	at Solar	and l	Non-Solar Hour
	3.7	1	- 117	1/3 / ***		

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204716	10:44	0
Non-Solar hr	197127	18:31	155

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

 $[*]Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

							Import=(+ve) /Export Date of Reporting:	
Sl No Voltage		Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export 1 HVI	VDC	ALIPURDUAR-AGRA	2	0	701	0.0	13.9	-13.9
2 HVI 3 765	5 kV	PUSAULI B/B GAYA-VARANASI	2	0	49 631	0.0	1.2 10.4	-1.2 -10.4
4 765 5 765		SASARAM-FATEHPUR GAYA-BALIA	1 1	0	448 470	0.0	8.3 9.5	-8.3 -9.5
6 400 7 400	0 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	29	23	0.1 0.0	0.0	0.1 -1.2
8 400	0 kV	MUZAFFARPUR-GORAKHPUR	2	0	476	0.0	7.8	-7.8
9 400 10 400		PATNA-BALIA NAUBATPUR-BALIA	2 2	0	352 368	0.0	7.1 7.1	-7.1 -7.1
11 400 12 400		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	21 0	156 259	0.0	1.9 4.5	-1.9 -4.5
13 400 14 220	0 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	0 2	246 94	0.0 0.0	4.0 1.5	-4.0 -1.5
15 132	2 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
16 132 17 132	2 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	30 0	0	0.4	0.0	0.4
18 132	•	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0	0.0 78.3	0.0 -77.6
Import/Export		Vith WR) JHARSUGUDA-DHARAMJAIGARH	4	497	409	3.1	3.2	-0.1
2 765	5 kV	NEW RANCHI-DHARAMJAIGARH	2	461	440	0.1 0.0	0.0	0.1 -13.1
4 400	0 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	0	662 652	0.0	11.8	-11.8
5 400 6 220		RANCHI-SIPAT BUDHIPADAR-RAIGARH	2 1	59 0	248 133	0.0	1.9 2.1	-1.9 -2.1
7 220	0 kV	BUDHIPADAR-KORBA	2	95	80 ER-WR	0.2 3.4	0.0 32.0	0.2 -28.7
Import/Export				1 0				
1 HVI 2 HVI	VDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	555 1986	0.0	12.6 40.0	-12.6 -40.0
3 765 4 400	0 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 264	2699 160	0.0	50.3 4.8	-50.3 -4.8
5 220	0 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 102.9	0.0 -102.9
Import/Export				1 0			7.2	
1 400 2 400	0 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0 144	432 390	0.0 0.0	7.2 4.5	-7.2 -4.5
3 220	0 kV	ALIPURDUAR-SALAKATI	2	4	87 ER-NER	0.0	1.2 12.8	-1.2 -12.8
Import/Export 1 HV	VDC	BISWANATH CHARIALI-AGRA	2	0	705 NER-NR	0.0	14.8 14.8	-14.8 -14.8
Import/Export		With NR) CHAMPA-KURUKSHETRA	2	5	0	0.0	0.0	0.0
2 HVI 3 HVI	VDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	- 2	0	54 1169	0.0	1.2 19.4	-1.2 -19.4
4 765	5 kV	GWALIOR-AGRA	2	176	1158	0.1	13.3	-13.2
5 765 6 765		GWALIOR-PHAGI JABALPUR-ORAI	2 2	0	1665 676	0.0	27.2 21.7	-27.2 -21.7
7 765 8 765		GWALIOR-ORAI SATNA-ORAI	1	962	906	15.9 0.0	0.0 19.1	15.9 -19.1
9 765 10 765		BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2	1960	0 2280	25.3 0.0	0.0 38.4	25.3 -38.4
11 400	0 kV	ZERDA-KANKROLI	1	280	0	3.9	0.0	3.9
13 400	0 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	620 961	0	6.2 22.2	0.0	6.2 22.2
14 400 15 220		RAPP-SHUJALPUR BHANPURA-RANPUR	2	456 0	166 151	2.5	1.1 2.7	1.4 -2.7
16 220 17 220		BHANPURA-MORAK MEHGAON-AURAIYA	1	0 119	30	0.0 1.9	2.1 0.0	-2.1 1.9
18 220 19 132	0 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	92	0	1.3	0.0	1.3
20 132		RAJGHAT-LALITPUR	2	0	0 WR-NR	0.0	0.0 146.2	0.0
Import/Export		,		_	WK-NK	79.2		-67.0
1 HVI 2 HVI		BHADRAWATI B/B RAIGARH-PUGALUR	2	0	1005 4012	0.0	12.4 81.0	-12.4 -81.0
3 765 4 765	5 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	901	501 1939	5.2 0.0	1.0 30.1	4.2 -30.1
5 765	5 kV	WARORA-WARANGAL(NEW)	2	0	2290	0.0	37.6	-37.6
6 400 7 220	0 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1490 0	0	26.5 0.0	0.0	26.5 0.0
8 220 9 220		PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 120	0.0 2.4	0.0	0.0 2.4
	•		•	•	WR-SR	34.2	162.2	-128.0
State			NTERNATIONAL EX		M. ARW	N. (100)		(+ve)/Export(-ve) Energy Exchange
State		Region ER	400kV MANGDECHHU- ALIPURDUAR RECEIP	Name ALIPURDUAR 1,2&3 i.e. Γ (from MANGDECHU	Max (MW)	Min (MW) 97	Avg (MW)	(MU) 2.95
		ER	HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR RECEIPT (from TALA F	I) i.e. BINAGURI	407	256	373	8.94
BHUTAN	ιN	ER	220kV CHUKHA-BIRPA MALBASE - BIRPARA) (from CHUKHA HEP 4*	RA 1&2 (& 220kV i.e. BIRPARA RECEIPT	-101	-51	-82	-1.98
		NER	132kV GELEPHU-SALA	KATI	9	0	2	0.04
		NER	132kV MOTANGA-RAN	GIA	48	0	36	0.87
ATTOM	,	NR ED		GAR-TANAKPUR(NHPC)	0	0	0	1.52
NEPAL		ER ER	NEPAL IMPORT (FROM 400kV DHALKEBAR-M		635	558	630	15.12
		ER	BHERAMARA B/B HVE		-917	-752	-893	-21.42
BANGLADI	DESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-525	-495	-514	-12.35
							1	1

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 22-Oct-2023

Export From India (in MU)

		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	21.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.48
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.48

Import by India(in MU)

		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	11.45	0.00	1.22	0.00	0.00	0.00	0.00	0.00	12.67
Nepal	2.63	0.00	12.19	0.00	0.00	0.00	0.00	0.00	14.82
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	14.08	0.00	13.41	0.00	0.00	0.00	0.00	0.00	27.49

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 11.45 0.00 1.22 0.00 0.000.00Bhutan 0.000.0012.67 2.63 0.00 12.19 0.00 0.00 0.000.00 0.0014.82 Nepal Bangladesh -21.48 0.000.000.000.000.000.000.00-21.48 0.00 0.000.00 0.000.000.000.000.00 0.00 Myanmar **Total Net** -7.40 0.0013.41 0.00 0.000.000.006.01 0.00