

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: 15th 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 14.10.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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: 15-Oct-2023

A. Fower Supply Position at An India and Regional I	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	58864	64891	47599	24982	3236	199572
Peak Shortage (MW)	302	0	0	958	0	1260
Energy Met (MU)	1360	1528	1225	549	59	4721
Hydro Gen (MU)	173	95	70	62	30	431
Wind Gen (MU)	41	37	26	-	-	104
Solar Gen (MU)*	130.20	56.18	114.51	2.79	1.11	305
Energy Shortage (MU)	4.20	0.00	0.00	2.60	0.32	7.12
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61754	71184	59784	25100	3314	215858
Time Of Maximum Demand Met	11:31	14:45	14:54	20:21	18:04	14:49

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	0.046	0.00	0.76	10.15	10 91	69 69	19 40

C. Power Supply Position in States

Region	States	Max.Demand 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	9319	0	189.7	76.1	0.1	246	0.00
	Haryana	9171	0	198.4	138.7	-0.1	189	1.40
	Rajasthan	14476	0	303.4	87.8	-7.4	19	0.00
	Delhi	4715	0	102.8	77.6	-0.4	297	0.00
NR	UP	20276	116	436.9	187.7	0.1	1250	1.31
	Uttarakhand	2163	0	42.4	27.1	0.8	214	0.37
	HP	1715	0	33.7	20.0	0.1	73	0.27
	J&K(UT) & Ladakh(UT)	2339	70	45.4	36.0	1.5	361	0.85
	Chandigarh	234	0	4.3	4.3	0.0	22	0.00
	Railways NR ISTS	176	0	3.4	3.2	0.3	45	0.00
	Chhattisgarh	5306	0	120.8	60.2	-1.2	174	0.00
	Gujarat	21034	0	426.5	167.2	0.5	420	0.00
	MP	13535	0	297.5	172.7	0.5	795	0.00
WR	Maharashtra	27784	0	610.8	230.6	0.8	729	0.00
	Goa	731	0	14.7	12.9	1.5	118	0.00
	DNHDDPDCL	1285	0	29.8	30.2	-0.4	6	0.00
	AMNSIL	722	0	15.6	5.7	-0.1	260	0.00
	BALCO	523	0	12.4	12.6	-0.2	7	0.00
	Andhra Pradesh	12503	0	236.4	104.2	-0.7	902	0.00
	Telangana	14859	0	289.7	154.0	1.9	668	0.00
SR	Karnataka	14491	0	259.8	94.7	2.1	695	0.00
222	Kerala	3842	0	79.0	61.0	0.8	224	0.00
	Tamil Nadu	16102	0	349.9	226.9	-1.7	415	0.00
	Puducherry	432	0	10.2	9.9	-0.5	26	0.00
	Bihar	6219	157	129.3	121.5	1.6	361	1.32
	DVC	3342	0	72.2	-36.7	0.0	247	0.00
	Jharkhand	1672	219	32.9	25.8	-2.1	166	1.28
ER	Odisha	5235	0	113.3	33.8	-1.8	267	0.00
	West Bengal	9133	0	199.9	70.6	-2.5	154	0.00
	Sikkim	76	0	1.0	1.0	0.1	27	0.00
	Railways_ER ISTS	20	0	0.0	0.1	-0.1	9	0.00
	Arunachal Pradesh	156	0	2.8	2.4	0.2	42	0.00
	Assam	2114	0	38.0	29.3	0.6	201	0.00
	Manipur	202	0	2.8	2.8	0.0	32	0.00
NER	Meghalaya	323	0	5.5	1.9	-0.2	29	0.32
11221	Mizoram	103	0	1.9	0.9	-0.3	4	0.00
	Nagaland	150	0	2.8	2.6	-0.1	13	0.00
	Tripura	316	0	5.6	5.5	0.0	27	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	21.2	16.0	-24.5	-12.4
Day Peak (MW)	1167.9	597.0	-1078.0	-550.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.9	-302.1	193.1	-117.1	-12.7	0.1
Actual(MU)	222.9	-290.1	208.4	-137.4	-9.0	-5.3
O/D/U/D(MU)	-16.0	12.0	15.3	-20.4	3.7	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3865	9922	4528	3821	240	22376	49
State Sector	7166	9010	5291	2130	129	23726	51
Total	11031	18932	9819	5951	369	46102	100

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	774	1555	729	680	17	3756	75
Lignite	22	17	50	0	0	88	2
Hydro	173	95	70	62	30	431	9
Nuclear	25	49	71	0	0	144	3
Gas, Naptha & Diesel	47	67	6	0	28	149	3
RES (Wind, Solar, Biomass & Others)	176	94	172	4	1	447	9
Total	1217	1878	1098	746	75	5015	100
CI CDDC: 4.4.1 (0/)	1.1.10	7 .00	45.50	0.40		0.00	1
Share of RES in total generation (%)	14.49	5.00	15.70	0.49	1.47	8.92	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.72	12.68	28.56	8.82	40.96	20.39	

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

Based on Regional Max Demands	1.024
Based on State Max Demands	1.050

I. All India Peak	Demand an	d shortage at Sol	ar and Non-Solar H	Iour
	,		TT)	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215858	14:49	99
Non-Solar hr	202573	18:46	1183

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

^{**}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: 15-Oct-2023

							Date of Reporting:	15-Oct-2023
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
_	rt/Export of ER (V							
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	501 48	0.0	10.6 1.3	-10.6 -1.3
3	765 kV	GAYA-VARANASI	2	0	392	0.0	3.8	-3.8
5	765 kV 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1	0	386 518	0.0	6.6 8.9	-6.6 -8.9
6	400 kV	PUSAULI-VARANASI	1	37	24	0.0	0.1	-0.1
8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	5	64 603	0.0	0.8 8.4	-0.8 -8.4
9	400 kV	PATNA-BALIA	2	0	429	0.0	7.9	-7.9
10 11	400 kV 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0 31	441 233	0.0	7.8 1.8	-7.8 -1.8
12	400 kV 400 kV	MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2 2	0	349 215	0.0	4.4 2.5	-4.4 -2.5
14	220 kV	SAHUPURI-KARAMNASA	1	0	98	0.0	1.8	-2.5
15 16	132 kV 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.1 0.4	0.0	0.1 0.4
17	132 kV 132 kV	KARMANASA-SAHUPURI	1	0	35	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 0.5	0.0 66.7	0.0
Impo	rt/Export of ER (V	With WR)			ER-NK	0.5	00.7	-66.2
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	954	222	7.0	0.0	7.0
3	765 kV 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2 2	807	361 433	11.7 0.0	0.0 6.6	11.7 -6.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	580	0.0	9.6	-9.6
6	400 kV 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	1	153 0	142 206	1.7 0.0	0.0 3.6	1.7 -3.6
7	220 kV	BUDHIPADAR-KORBA	2	111	33	0.6	0.0	0.6
Immo	rt/Export of ER (V	With CD)			ER-WR	20.9	19.8	1.1
1111po	HVDC	JEYPORE-GAZUWAKA B/B	2	0	560	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	44.9 53.7	-44.9
3	765 kV 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 276	3039 172	0.0	0.1	-53.7 -0.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
Impo	rt/Export of ER (V	With NER)			ER-SR	0.0	111.3	-111.3
1	400 kV	BINAGURI-BONGAIGAON	2	0	258	0.0	3.0	-3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	84	279	0.0	2.1	-2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	3	71 ER-NER	0.0	0.8 5.9	-0.8 -5.9
Impo	rt/Export of NER	(With NR)			EK-MEK	V.U	5.7	-3.3
1		BISWANATH CHARIALI-AGRA	2	0	655	0.0	16.0	-16.0
Immo	nt/Ermont of WD (With ND			NER-NR	0.0	16.0	-16.0
1mpo	rt/Export of WR (HVDC	With NR) CHAMPA-KURUKSHETRA	2	6	2504	0.0	21.8	-21.8
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1911 1473	0.0	38.0 23.7	-38.0 -23.7
5	765 kV	GWALIOR-PHAGI	2	89	1225	0.0	18.3	-18.3
7	765 kV 765 kV	JABALPUR-ORAI GWALIOR-ORAI	2	0 621	846 0	0.0 12.1	29.2 0.0	-29.2 12.1
8	765 kV	SATNA-ORAI	1	0	863	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2 2	1511 0	183	11.0 0.0	0.0 45.0	11.0
10 11	765 kV 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	248	2458 21	2.0	0.0	-45.0 2.0
12	400 kV	ZERDA -BHINMAL	1	784	32	5.4	0.0	5.4
13 14	400 kV 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	970 328	0 265	22.2 0.0	0.8	22.2 -0.8
15	220 kV	BHANPURA-RANPUR	1	0	99	0.0	1.8 2.5	-1.8
16 17	220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 132	30 0	2.3	0.0	-2.5 2.3
18	220 kV	MALANPUR-AURAIYA	1	99	0	1.6	0.0	1.6
19 20	132 kV 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
					WR-NR	56.6	201.0	-144.4
Impo	rt/Export of WR (HVDC	With SR) BHADRAWATI B/B	1	0	1007	0.0	21.3	-21.3
2	HVDC	RAIGARH-PUGALUR	2	0	4507	0.0	88.9	-88.9
3	765 kV 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	158 0	1398 2727	0.1	14.1 45.5	-14.0 -45.5
5	765 KV 400 KV	KOLHAPUR-KUDGI	2 2	1210	0	22.8	0.0	-45.5 22.8
6 7	220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
8	220 kV 220 kV	YELDEM-AMBEWADI	1	0	0 119	2.3	0.0	2.3
					WR-SR	25.2	169.7	-144.6
		IN	TERNATIONAL EX	CHANGES			Import(+ve)/Export(-ve)
	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
		_		ALIPURDUAR 1,2&3 i.e.				
		ER	ALIPURDUAR RECEIPT HEP 4*180MW)	I (from MANGDECHU	287	170	233	5.60
			400kV TALA-BINAGUR					
		ER	MALBASE - BINAGUR		769	469	576	13.83
Ì			RECEIPT (from TALA H 220kV CHUKHA-BIRPA	RA 1&2 (& 220kV				
	BHUTAN	ER	MALBASE - BIRPARA)		53	0	26	0.62
ĺ			(from CHUKHA HEP 4*8	54MW)				
		NER	132kV GELEPHU-SALA	KATI	20	9	12	0.29
ĺ								
		NER	132kV MOTANGA-RAN	GIA	62	21	37	0.89
		NR	132kV MAHENDRANAG	GAR-TANAKPUR(NHPC)	0	0	0	1.49
Ì	NEPAL	ER	NEPAL IMPORT (FROM	1 BIHAR)	0	0	0	0.00
Ì								
ĺ		ER	400kV DHALKEBAR-M	UZAFFARPUR 1&2	597	505	597	14.46
			1			-770	-890	-21.37
		ER	BHERAMARA B/B HVD	C (B'DESH)	-931			
		ER	BHERAMARA B/B HVD	C (B'DESH)	-931	-770		
1	BANGLADESH	ER	BHERAMARA B/B HVD 400kV GODDA_TPS-RAI				-518	-12.43
I	BANGLADESH				-931 -550	-486	-518	-12.43
I	BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RA	HANPUR (B'DESH) D/C	-550	-486		
I	BANGLADESH	ER		HANPUR (B'DESH) D/C			-518 -129	-12.43 -3.10

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 15-Oct-2023

Export From India (in MU)

Export From In	idia (in MiU)								
		T-GNA							
	GNA (ISGS/PPA)		COLLECTIVE						7
Country		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	21.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.23
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.23

Import by India(in MU)

Total Net

2.85

0.00

12.56

	T-GNA								
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	21.45	0.00	1.44	0.00	0.00	0.00	0.00	0.00	22.89
Nepal	2.63	0.00	11.12	0.00	0.00	1.05	0.00	0.00	14.80
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	24.08	0.00	12.56	0.00	0.00	1.05	0.00	0.00	37.69

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 21.45 0.00 1.44 0.00 0.000.00 Bhutan 0.000.0022.89 2.63 0.00 11.12 0.00 0.00 1.05 0.00 0.0014.80 Nepal -21.23 Bangladesh 0.000.000.000.000.000.000.00-21.23 0.00 0.000.00 0.000.000.000.00 0.00 0.00 Myanmar

0.00

0.00

1.05

0.00

0.00

16.46