

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 25th September 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 24.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-सितम्बर-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 24th September 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: 25-Sep-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	61718	53465	42380	23253	2979	183795
Peak Shortage (MW)	0	0	0	53	5	58
Energy Met (MU)	1342	1253	1045	498	60	4198
Hydro Gen (MU)	271	111	48	129	31	589
Wind Gen (MU)	16	67	150	-	-	232
Solar Gen (MU)*	124.95	48.26	101.63	1.70	1.20	278
Energy Shortage (MU)	0.73	0.00	0.00	1.01	0.14	1.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63076	56746	48799	23448	3049	187208
Time Of Maximum Demand Met	00:00	19:01	11:49	19:56	17:55	19:19

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	0.064	0.00	0.00	3 16	3 16	64 97	31.87

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U.	rower	Suppiv	Position	Ш	States

Region	States	Max.Demand Met during the	Shortage during maximum	Energy Met	Drawal Schedule	OD(+)/UD(-)	Max OD	Energy Shortage (MU)
		day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(MW)	
	Punjab	8607	0	184.2	111.9	-3.8	152	0.00
	Haryana	9086	0	183.3	124.1	-2.0	158	0.00
	Rajasthan	12225	0	279.6	81.9	-3.4	190	0.00
	Delhi	5383	0	111.6	101.8	-1.8	155	0.00
NR	UP	23446	0	456.0	208.3	1.7	1236	0.00
	Uttarakhand	1923	0	41.3	20.1	-0.1	149	0.00
	HP	1565	0	31.5	9.4	-0.3	61	0.00
	J&K(UT) & Ladakh(UT)	2388	0	46.1	24.3	3.3	300	0.73
	Chandigarh	240	0	4.8	5.0	-0.2	25	0.00
	Railways_NR ISTS	157	0	3.2	3.5	-0.3	9	0.00
	Chhattisgarh	4261	0	95.1	45.7	-1.4	157	0.00
	Gujarat	16263	0	368.3	181.0	-0.4	844	0.00
	MP	11408	0	248.2	116.6	-3.0	318	0.00
WR	Maharashtra	21827	0	469.6	195.0	-0.6	762	0.00
	Goa	605	0	12.1	11.6	-0.2	100	0.00
	DNHDDPDCL	1252	0	29.0	28.9	0.1	61	0.00
	AMNSIL	861	0	18.7	9.5	-0.1	305	0.00
	BALCO	520	0	12.4	12.5	-0.1	9	0.00
	Andhra Pradesh	9209	0	204.1	104.7	-2.2	750	0.00
	Telangana	11568	0	217.0	103.6	1.4	625	0.00
SR	Karnataka	11923	0	222.3	72.7	-3.1	1103	0.00
	Kerala	3557	0	72.5	58.6	1.4	207	0.00
	Tamil Nadu	14640	0	319.4	126.3	-10.2	536	0.00
	Puducherry	432	0	9.8	9.3	-0.2	44	0.00
	Bihar	5577	0	102.8	99.4	-0.7	654	1.01
	DVC	3483	0	74.9	-23.8	0.6	401	0.00
	Jharkhand	1676	0	32.0	26.9	-4.1	130	0.00
ER	Odisha	5428	0	119.7	56.7	-1.8	377	0.00
	West Bengal	7820	0	167.5	49.3	-2.0	379	0.00
	Sikkim	65	0	0.9	1.0	-0.1	8	0.00
	Railways_ER ISTS	21	0	0.2	0.2	0.0	9	0.00
	Arunachal Pradesh	164	0	2.7	2.8	-0.4	16	0.00
	Assam	1999	0	39.5	31.5	1.4	193	0.00
	Manipur	198	0	2.8	2.9	-0.2	24	0.00
NER	Meghalaya	294	0	5.6	1.3	-0.2	47	0.14
•	Mizoram	104	0	1.6	1.5	-0.5	15	0.00
	Nagaland	160	0	2.7	2.6	-0.3	12	0.00
	Tripura	301	0	5.1	5.4	0.2	118	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	34.7	14.9	-24.4	-27.4
Day Peak (MW)	1692.0	608.0	-1096.0	-1330.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.0	-206.4	107.8	-165.3	-4.1	0.0
Actual(MU)	257.1	-209.6	121.8	-172.1	-2.0	-4.8
O/D/U/D(MU)	-10.9	-3.3	13.8	-6.8	2.1	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4562	10464	5118	250	505	20898	42
State Sector	4736	13751	6012	4110	219	28828	58
Total	9298	24215	11130	4360	724	49726	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (WO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	676	1251	551	601	11	3090	68
Lignite	28	14	38	0	0	80	2
Hydro	271	111	48	129	31	589	13
Nuclear	25	54	76	0	0	154	3
Gas, Naptha & Diesel	13	26	6	0	26	71	2
RES (Wind, Solar, Biomass & Others)	147	116	281	3	1	549	12
Total	1159	1572	1000	734	68	4533	100
							•
Share of RES in total generation (%)	12.53	7.41	28.13	0.45	1.75	12.08	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.09	17.86	40.50	18.06	46.60	28.49	

H.	All	India	Den	and I	Divers	ity Factor	ı•
9	_	_	•	117	_	_	

H. All India Demand Diversity Factor						
Based on Regional Max Demands	1.042					
Based on State Max Demands	1.071					

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	180809	11:53	0
Non-Solar hr	187208	19:19	105

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: 25-Sep-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 (1001		240	
1 HVDC 2 HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0	1001 147	0.0	24.0 3.7	-24.0 -3.7
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2	302 108	659 376	0.0	5.4 4.1	-5.4 -4.1
5 765 kV	GAYA-BALIA	1	0	577	0.0	6.8	-6.8
6 400 kV 7 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	107 132	0.0	1.5 2.1	-1.5 -2.1
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	1023 653	0.0	17.1 10.7	-17.1 -10.7
10 400 kV	NAUBATPUR-BALIA	2	0	699	0.0	10.5	-10.5
11 400 kV 12 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	35	363 567	0.0	5.0 9.1	-5.0 -9.1
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	161 0	340 126	0.0	2.9 1.7	-2.9 -1.7
15 132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16 132 kV 17 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1	30	0	0.2	0.0	0.2
18 132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0	0.0 104.6	0.0 -104.4
Import/Export of ER (ER-IVR	0,2	104.0	-104.4
1 765 kV 2 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	1192 917	272 762	5.1 6.2	0.0	5.1 6.2
3 765 kV	JHARSUGUDA-DURG	2	83	484	0.0	4.8	-4.8
4 400 kV 5 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	143 213	312 218	0.0 1.1	1.6 0.0	-1.6 1.1
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	24 102	140 0	0.0 1.3	1.8 0.0	-1.8 1.3
		2	102	ER-WR	13.6	8.2	5.5
Import/Export of ER (1 2		220	0.0	7.5	7.5
1 HVDC 2 HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	338 1639	0.0	7.5 39.6	-7.5 -39.6
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0	2356 915	0.0	38.9 15.7	-38.9 -15.7
5 220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
Import/Export of ER (With NER)			ER-SR	0.0	86.1	-86.1
1 400 kV	BINAGURI-BONGAIGAON	2	0	480	0.0	6.2	-6.2
2 400 kV 3 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	24	563 138	0.0	5.0 1.7	-5.0 -1.7
	•	· -		ER-NER	0.0	12.9	-12.9
Import/Export of NER	(With NR) BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
		-	Ū	NER-NR	0.0	16.9	-16.9
Import/Export of WR 1 HVDC	(With NR) CHAMPA-KURUKSHETRA	2	0	2507	0.0	55.5	-55.5
2 HVDC	VINDHYACHAL B/B		272	0	7.2	0.0	7.2
3 HVDC 4 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0 107	979 1928	0.0	24.2 22.4	-24.2 -22.4
5 765 kV 6 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2 2	747	1375 980	3.1	16.2 21.8	-13.2 -21.8
7 765 kV	GWALIOR-ORAI	1	825	0	12.1	0.0	12.1
8 765 kV 9 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1 2	0 1494	1006 299	0.0 12.6	17.1 0.0	-17.1 12.6
10 765 kV	VINDHYACHAL-VARANASI	2	0	2715	0.0	43.4 0.1	-43.4
11 400 kV 12 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	275 555	64 143	2.4 3.9	0.0	2.3 3.9
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	963 424	0 495	19.8 0.0	0.0	19.8 -1.2
15 220 kV	BHANPURA-RANPUR	1	0	96 30	0.0	1.7 1.9	-1.7 -1.9
16 220 kV 17 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	123	0	1.6	0.0	1.6
18 220 kV 19 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	92	0	1.0 0.0	0.0	1.0 0.0
20 132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Import/Export of WR	(With SR)			WR-NR	63.6	205.6	-142.0
1 HVDC	BHADRAWATI B/B	:	0	506	0.0	11.9	-11.9
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 2055	4506 577	0.0 14.0	64.8 1.2	-64.8 12.8
4 765 kV 5 400 kV	WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2 2	0 1588	2092 0	0.0 25.5	24.9 0.0	-24.9 25.5
6 220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7 220 kV 8 220 kV	PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 113	0.0 2.1	0.0 0.0	0.0 2.1
				WR-SR	41.6	102.8	-61.2
	IN	TERNATIONAL EX	CHANGES	•		Import(+ve)/Export(-ve)
State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU- ALIPURDUAR RECEIPT		614	379	506	12.13
	£K	HEP 4*180MW)	,	014	3/9	500	14.13
	ER	400kV TALA-BINAGURI MALBASE - BINAGURI		1024	0	972	23.33
	IJA.	RECEIPT (from TALA H	EP 6*170MW)	1024	v		20.00
BHUTAN	ER	220kV CHUKHA-BIRPA MALBASE - BIRPARA) i		70	17	47	1.12
		(from CHUKHA HEP 4*8					
	NER	132kV GELEPHU-SALA	KATI	-32	-12	-24	-0.58
						1	
	NER	132kV MOTANGA-RANG	GIA	-62	-43	-55	-1.31
	NR	132kV MAHENDRANAG	GAR-TANAKPUR(NHPC)	0	0	0	1.26
AUTO 4 T		MEDAL PAROPE CENT	A DILLA DA				0.00
NEPAL	ER	NEPAL IMPORT (FROM	1 BIHAK)	0	0	0	0.00
	ER	400kV DHALKEBAR-MU	UZAFFADDUD 18-2	608	473	568	13.63
	ER	va , DHADREDAR-W(CLIPTINI OR ICE	000	4/3	300	13.03
	ER	BHERAMARA B/B HVD	C (B'DESH)	-946	-678	-887	-21.29
		2,2 2,10	/				
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAI	HANPUR (B'DESH) D/C	-1331	-1012	-1143	-27.43
	(Isolated from Indian Grid)						
	NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-150	0	-132	-3.16
	1	<u> </u>				1	<u> </u>

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-Sep-2023

Export From India (in MU)

•			STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE						7	
Country	PPA	BILATERAL		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	21.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.18	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Export	21.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.18	

Import by India(in MU)

			STOA						
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country	PPA	BILATERAL	IDAM				TOTAL		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	34.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	37.34
Nepal	0.00	2.63	10.45	0.00	0.00	0.00	0.00	0.00	13.08
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	34.67	5.30	10.45	0.00	0.00	0.00	0.00	0.00	50.42

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

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			STOA						
	(ISGS/LTA/MTOA)		COLLECTIVE]
Country	PPA	BILATERAL	IDAM					TOTAL	
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	34.67	2.67	0.00	0.00	0.00	0.00	0.00	0.00	37.34
Nepal	0.00	2.63	10.45	0.00	0.00	0.00	0.00	0.00	13.08
Bangladesh	-21.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.18
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	13.49	5.30	10.45	0.00	0.00	0.00	0.00	0.00	29.24