

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र GRID CONTROLLER OF INDIA LIMITED ग्रिड कंटोलर 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: 05th September 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 04.09.2023.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th 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: 05-Sep-2023

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 20:00 hrs; from RLDCs)	76274	64984	44155	25155	3424	213992
Peak Shortage (MW)	769	98	0	414	201	1482
Energy Met (MU)	1796	1574	1037	550	71	5029
Hydro Gen (MU)	361	87	53	121	34	655
Wind Gen (MU)	30	106	228	-	-	364
Solar Gen (MU)*	141.54	55.76	62.38	1.73	1.29	263
Energy Shortage (MU)	5.42	2.75	0.00	1.13	0.67	9.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	81220	72487	48844	26171	3712	226227
Time Of Maximum Demand Met	14:55	14:54	11:37	19:12	18:57	14:54

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	0.044	0.00	0.22	3.88	4.10	61.21	34.70

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	14986	0	317.7	179.8	-0.2	301	0.00
	Haryana	12310	0	262.6	197.6	-0.6	205	1.44
	Rajasthan	17363	0	371.6	149.1	-1.6	451	0.00
	Delhi	6642	0	135.8	111.3	-2.5	143	0.00
NR	UP	26528	0	559.9	257.7	-1.4	1923	0.00
	Uttarakhand	2314	0	49.6	25.7	0.8	168	0.70
	HP	1722	0	35.6	4.1	0.5	104	0.12
	J&K(UT) & Ladakh(UT)	2435	178	52.7	25.6	3.2	278	3.16
	Chandigarh	379	0	7.3	7.3	-0.1	35	0.00
	Railways_NR ISTS	166	0	3.4	3.3	0.1	43	0.00
	Chhattisgarh	4767	0	109.2	54.8	-1.5	225	0.00
	Gujarat	24235	0	507.4	196.9	-0.2	957	0.00
	MP	14852	0	320.3	180.6	-0.9	1528	2.59
WR	Maharashtra	25851	0	566.2	211.5	-1.8	931	0.16
	Goa	665	0	13.8	13.7	0.1	60	0.00
	DNHDDPDCL	1279	0	28.5	29.1	-0.6	60	0.00
	AMNSIL	771	0	16.5	3.9	0.4	296	0.00
	BALCO	519	0	12.4	12.5	-0.1	4	0.00
	Andhra Pradesh	9549	0	205.4	64.5	-4.2	413	0.00
	Telangana	9677	0	191.6	70.6	-2.3	666	0.00
SR	Karnataka	11800	0	221.8	76.8	-3.6	487	0.00
	Kerala	4080	0	81.3	65.1	1.7	293	0.00
	Tamil Nadu	15936	0	326.8	101.9	-5.4	565	0.00
	Puducherry	446	0	9.9	9.5	-0.3	41	0.00
	Bihar	6871	0	134.6	135.7	-2.5	214	0.78
	DVC	3287	0	73.7	-46.7	0.4	311	0.00
	Jharkhand	1722	0	35.8	31.2	0.2	193	0.35
ER	Odisha	4934	0	105.5	32.6	-2.4	345	0.00
	West Bengal	9626	0	199.2	88.6	-4.3	385	0.00
	Sikkim	98	0	1.4	1.2	0.2	46	0.00
	Railways_ER ISTS	20	0	0.1	0.2	0.0	12	0.00
	Arunachal Pradesh	166	0	3.2	2.9	-0.1	57	0.00
	Assam	2398	0	48.9	39.2	2.1	338	0.25
	Manipur	199	0	2.8	2.8	-0.1	40	0.00
NER	Meghalaya	285	0	5.2	1.6	-0.2	33	0.42
•	Mizoram	127	0	2.0	1.3	-0.1	20	0.00
	Nagaland	167	0	3.3	3.1	-0.1	19	0.00
	Tripura	335	0	6.2	7.3	0.3	53	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	39.7	8.9	-24.6	-31.1
Day Peak (MW)	1839.0	422.0	-1085.0	-1474.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	419.0	-253.0	-20.8	-141.4	-3.9	-0.1
Actual(MU)	407.9	-255.9	-21.6	-147.1	-1.3	-18.0
O/D/U/D(MU)	-11.1	-3.0	-0.7	-5.7	2.6	-17.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3104	7907	4908	1960	205	18083	47
State Sector	4305	8865	4412	2344	256	20181	53
Total	7409	16772	9320	4304	461	38264	100

G. Sourcewise generation (Gross) (MU)

G. Bour cewise generation (Gross) (MC)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	833	1528	636	645	15	3656	68
Lignite	30	13	57	0	0	100	2
Hydro	361	87	53	121	34	655	12
Nuclear	29	54	46	0	0	129	2
Gas, Naptha & Diesel	50	92	6	0	29	176	3
RES (Wind, Solar, Biomass & Others)	179	164	336	3	1	683	13
Total	1482	1938	1133	769	79	5400	100
Share of RES in total generation (%)	12.06	8.46	29.64	0.38	1.63	12.64	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.36	15.70	38.39	16.10	45.28	27.17	

H.	All	India	Dem	and I	Diversity	Factor
T.	-	_	•	117	1	•

H. All India Demand Diversity Factor	
Based on Regional Max Demands	1.027
Based on State Max Demands	1.058

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	226227	14:54	253
Non-Solar hr	215764	19:27	1047

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: 05-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 (With NR) ALIPURDUAR-AGRA	2	0	801	0.0	19.9	-19.9
2 HVDC	PUSAULI B/B		0	97	0.0	2.4	-2.4
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	2 1	359 40	820 553	0.0	9.1 8.4	-9.1 -8.4
5 765 kV 6 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	7	839 88	0.0	14.2 0.5	-14.2 -0.5
7 400 kV	PUSAULI -ALLAHABAD	1	0	117	0.0	1.8 14.5	-1.8
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2 2	0	840 579	0.0	11.0	-14.5 -11.0
10 400 kV 11 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0 41	612 363	0.0	11.3 5.6	-11.3 -5.6
12 400 kV	MOTIHARI-GORAKHPUR	2	0	465	0.0	8.4	-8.4
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	127 0	400 149	0.0	3.3 0.6	-3.3 -0.6
15 132 kV 16 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0	0.0	0.0
17 132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18 132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0	0.0 110.9	0.0 -110.4
Import/Export of ER (•			
1 765 kV 2 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	527 1316	1198 0	0.0 19.1	9.5 0.0	-9.5 19.1
3 765 kV 4 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2	0	279 499	0.0	3.6 6.9	-3.6
5 400 kV	RANCHI-SIPAT	2	255	106	2.4	0.0	-6.9 2.4
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0 33	135 38	0.0	1.9 0.0	-1.9 0.0
		-	00	ER-WR	21.5	21.9	-0.4
Import/Export of ER (With SR) JEYPORE-GAZUWAKA B/B	2	0	392	0.0	5.2	-5.2
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1342	0.0	25.4	-25.4
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 637	1884 321	0.0 6.6	28.2 0.0	-28.2 6.6
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	58.8	-58.8
1 400 kV	BINAGURI-BONGAIGAON	2	0	350	0.0	5.3	-5.3 5.3
2 400 kV 3 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	33	396 97	0.0	5.3 1.5	-5.3 -1.5
T	(WALNE)			ER-NER	0.0	12.1	-12.1
Import/Export of NER 1 HVDC	(With NR) BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.3	-13.3
		-	•	NER-NR	0.0	13.3	-13.3
Import/Export of WR	(With NR) CHAMPA-KURUKSHETRA	2	0	5051	0.0	45.0	-45.0
2 HVDC	VINDHYACHAL B/B		270	53	2.9	0.7	2.1
3 HVDC 4 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1450 2522	0.0	36.3 38.8	-36.3 -38.8
5 765 kV	GWALIOR-PHAGI	2 2	7	1987	0.0	32.5 24.5	-32.5
6 765 kV 7 765 kV	JABALPUR-ORAI GWALIOR-ORAI	1	791	1521 0	0.0	2.8	-24.5 -2.8
8 765 kV 9 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	1 2	0 1213	1135 927	0.0	22.9 18.5	-22.9 -18.5
10 765 kV	VINDHYACHAL-VARANASI	2	0	3489	0.0	30.8	-30.8
11 400 kV 12 400 kV	ZERDA-KANKROLI ZERDA -BHINMAL	1	213 506	162 332	1.4 10.8	0.9	0.4 10.8
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	951 191	0 780	10.7 0.0	0.0 18.7	10.7 -18.7
15 220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16 220 kV 17 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 114	30	0.0 1.8	2.7 0.0	-2.7 1.8
18 220 kV	MALANPUR-AURAIYA	1	73	1	0.7	0.0	0.7
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
T	ANYAL CD)			WR-NR	28.1	275.0	-246.9
Import/Export of WR ((WITH SK) BHADRAWATI B/B		305	353	3.8	3.4	0.5
2 HVDC	RAIGARH-PUGALUR	2	0	1304	0.0	45.2	-45.2
3 765 kV 4 765 kV	SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	2563 901	0 1229	35.0 0.0	0.0 24.0	35.0 -24.0
5 400 kV 6 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1846 0	0	34.6 0.0	0.0	34.6 0.0
7 220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8 220 kV	XELDEM-AMBEWADI	1	0	117 WR-SR	2.3 75.7	0.0 72.6	2.3 3.1
	IN'	TERNATIONAL EXC	CHANGES		**	•	+ve)/Export(-ve)
State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
	ER	400kV MANGDECHHU-A ALIPURDUAR RECEIPT	ALIPURDUAR 1,2&3 i.e.	713	476	618	(MU) 14.83
	ER	HEP 4*180MW) 400kV TALA-BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H) i.e. BINAGURI	1108	871	959	23.01
BHUTAN	ER	220kV CHUKHA-BIRPAI MALBASE - BIRPARA) i (from CHUKHA HEP 4*8	RA 1&2 (& 220kV .e. BIRPARA RECEIPT	129	-22	83	1.99
	NER	132kV GELEPHU-SALAI		-8	-5	-7	-0.16
	NER	132kV MOTANGA-RANG	GIA	0	0	0	0.00
	NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC)	-55	0	-10	-0.25
NEPAL	ER	NEPAL IMPORT (FROM	I BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	477	299	381	9.15
	ER	BHERAMARA B/B HVD	C (B'DESH)	-947	-827	-912	-21.88
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAI	HANPUR (B'DESH) D/C	-1474	-913	-1297	-31.12
	NER	132kV COMILLA-SURA	IMANI NAGAR 1&2	-138	0	-115	-2.76

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 05-Sep-2023

Export From II	iuia (iii Mic)								_
		STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE						
Country	PPA	BILATERAL	IDAM			RTM			TOTAL
		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	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
Bangladesh	21.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.93
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.08

Import by India(in MU)

import by mai	a(III IVIO)									
			STOA							
	(ISGS/LTA/MTOA)		COLLECTIVE							
Country	PPA	BILATERAL	IDAM		RTM			TOTAL		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	36.37	2.58	0.00	0.00	0.00	0.00	0.00	0.00	38.95	
Nepal	0.00	0.00	9.10	0.00	0.00	0.00	0.00	0.00	9.10	
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	36.37	2.58	9.10	0.00	0.00	0.00	0.00	0.00	48.05	

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

Net Irom mula	(III IVIO)						-ve .	Export / +ve : II	прогі
			STOA						
	(ISGS/LTA/MTOA)		COLLECTIVE						TOTAL
Country PPA		BILATERAL	ATERAL IDAM			RTM			
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	36.37	2.58	0.00	0.00	0.00	0.00	0.00	0.00	38.95
Nepal	-0.15	0.00	9.10	0.00	0.00	0.00	0.00	0.00	8.95
Bangladesh	-21.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.93
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	14.29	2.58	9.10	0.00	0.00	0.00	0.00	0.00	25.97