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: **1**0 August 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
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 09.08.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-अगस्त-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 09 August 2023, is available at the NLDC website.

धन्यवाद,

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

Report for previous day **Date of Reporting: 10-Aug-2023**

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)	73165	57711	45302	24927	3076	204181
Peak Shortage (MW)	2254	884	3771	607	321	7837
Energy Met (MU)	1676	1371	1220	532	63	4863
Hydro Gen (MU)	424	109	114	139	35	820
Wind Gen (MU)	66	207	108	-	-	381
Solar Gen (MU)*	122.29	40.52	115.10	2.22	0.98	281
Energy Shortage (MU)	12.53	3.71	21.73	2.75	1.46	42.18
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74523	61734	60570	26715	3328	220957
Time Of Maximum Demand Met	14:48	10:46	12:27	20:33	18:34	14:56

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	0.117	3.00	4.02	15.91	22.93	68.64	8.44

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)
NR	Punjab	14421	0	320.2	192.0	-0.1	481	0.00
	Haryana	12179	0	253.0	193.9	-1.3	93	4.20
	Rajasthan	15277	0	324.7	83.1	-2.8	223	3.29
	Delhi	6277	0	129.4	116.9	-2.1	144	0.00
	UP	24948	800	501.9	219.7	-2.2	349	3.86
	Uttarakhand	2131	0	45.6	22.6	0.0	101	0.79
	HP	1723	0	36.6	-0.1	-0.3	120	0.03
	J&K(UT) & Ladakh(UT)	2570	0	53.6	26.2	2.9	291	0.36
	Chandigarh	367	0	7.3	7.6	-0.3	18	0.00
	Railways_NR ISTS	175	0	3.4	3.1	0.3	54	0.00
WR	Chhattisgarh	4893	0	113.3	52.8	1.3	316	1.91
	Gujarat	18096	0	395.2	142.3	0.3	1139	1.80
	MP	11580	0	248.0	102.9	-3.0	432	0.00
	Maharashtra	24336	0	540.0	184.3	-6.1	831	0.00
	Goa	648	0	13.3	12.6	0.3	59	0.00
	DNHDDPDCL	1321	0	30.6	30.0	0.6	113	0.00
	AMNSIL	846	0	18.5	8.8	0.0	252	0.00
	BALCO	521	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	12487	0	235.6	113.3	6.9	1401	7.17
	Telangana	13321	0	260.2	134.2	-1.1	686	0.00
	Karnataka	14720	0	249.3	73.9	1.5	794	4.30
	Kerala	4116	10	83.2	59.4	1.8	484	0.48
	Tamil Nadu	17834	0	381.5	206.7	7.7	1896	9.78
	Puducherry	463	0	10.2	9.7	-0.2	59	0.00
ER	Bihar	5832	152	107.1	103.2	-1.0	482	0.76
	DVC	3384	0	73.1	-45.5	-0.4	257	0.00
	Jharkhand	1539	0	36.0	28.3	2.4	314	1.88
	Odisha	6691	115	118.9	41.5	-0.7	517	0.12
	West Bengal	9240	0	195.9	63.2	0.4	298	0.00
	Sikkim	85	0	1.1	1.1	0.0	32	0.00
	Railways_ER ISTS	19	0	0.1	0.1	0.0	12	0.00
NER	Arunachal Pradesh	164	0	3.0	2.6	-0.2	56	0.00
	Assam	2219	125	42.3	32.6	1.8	240	1.05
	Manipur	186	0	2.6	2.4	0.2	40	0.00
	Meghalaya	334	6	5.2	1.2	-0.2	35	0.41
	Mizoram	120	0	1.8	1.7	-0.2	6	0.00
	Nagaland	159	0	2.9	2.6	-0.1	17	0.00
	Tripura	286	0	5.2	5.3	0.2	68	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.7	10.5	-25.1	-29.3
Day Peak (MW)	2047.8	477.0	-1100.0	-1379.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.5	-332.8	233.3	-153.8	-11.3	0.0
Actual(MU)	235.7	-335.7	262.9	-158.5	-11.1	-6.6
O/D/U/D(MU)	-28.9	-2.9	29.7	-4.7	0.2	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2211	14108	6758	4611	305	27993	49
State Sector	5230	14017	7331	2270	131	28978	51
Total	7441	28125	14089	6881	436	56971	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	825	1358	545	598	17	3342	64
Lignite	28	7	49	0	0	84	2
Hydro	424	109	114	139	35	820	16
Nuclear	29	50	68	0	0	147	3
Gas, Naptha & Diesel	31	48	6	0	29	113	2
RES (Wind, Solar, Biomass & Others)	194	249	251	3	1	699	13
Total	1530	1821	1032	740	82	5205	100

Share of RES in total generation (%)	12.68	13.69	24.32	0.46	1.20	13.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	42.28	22.46	41.90	19.25	43.72	32.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.065

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220957	14:56	750
Non-Solar hr	207445	19:40	6305

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.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 10-Aug-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)								
1	HVDC	ALIPURDUAR-AGRA	2	0	502	0.0	11.9	-11.9
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	294	377	0.0	2.9	-2.9
4	765 kV	SASARAM-FATEHPUR	1	0	0	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	240	493	0.0	5.3	-5.3
6	400 kV	PUSAULI-VARANASI	1	17	53	0.0	0.3	-0.3
7	400 kV	PUSAULI -ALLAHABAD	1	46	25	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	949	0.0	16.4	-16.4
9	400 kV	PATNA-BALIA	2	0	689	0.0	11.9	-11.9
10	400 kV	NAUBATPUR-BALIA	2	0	726	0.0	11.4	-11.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	315	0.0	5.2	-5.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	500	0.0	9.0	-9.0
13	400 kV	BIHARSHARIFF-VARANASI	2	7	246	0.0	3.0	-3.0
14	220 kV	SAHUPURI-KARAMNASA	1	0	109	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.6	83.2	-82.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1704	0	26.8	0.0	26.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	779	1156	0.0	4.6	-4.6
3	765 kV	JHARSUGUDA-DURG	2	97	298	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	196	212	0.0	0.0	0.0
5	400 kV	RANCHI-SIPAT	2	185	251	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	171	0	1.8	0.0	1.8
					ER-WR	28.6	9.0	19.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	758	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	48.0	-48.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2778	0.0	52.9	-52.9
4	400 kV	TALCHER-I/C	2	0	991	0.0	22.1	-22.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	115.4	-115.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	91	314	0.4	2.0	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	124	448	0.0	2.2	-2.2
3	220 kV	ALIPURDUAR-SALAKATI	2	18	104	0.0	0.8	-0.8
					ER-NER	0.4	4.9	-4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
					NER-NR	0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3015	0.0	55.4	-55.4
2	HVDC	VINDHYACHAL B/B	-	438	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1727	0.0	36.5	-36.5
4	765 kV	GWALIOR-AGRA	2	388	1893	0.3	19.2	-18.9
5	765 kV	GWALIOR-PHAGI	2	664	989	2.2	9.6	-7.5
6	765 kV	JABALPUR-ORAI	2	87	905	0.0	15.8	-15.8
7	765 kV	GWALIOR-ORAI	1	501	0	9.0	0.0	9.0
8	765 kV	SATNA-ORAI	1	0	923	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	649	822	2.9	6.1	-3.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2627	0.0	36.2	-36.2
11	400 kV	ZERDA-KANKROLI	1	213	117	1.8	0.5	1.3
12	400 kV	ZERDA -BHINMAL	1	639	106	6.4	0.3	6.1
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	20.7	0.0	20.7
14	400 kV	RAPP-SHUJALPUR	2	317	419	1.8	2.5	-0.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	165	0	2.7	0.0	2.7
18	220 kV	MALANPUR-AURAIYA	1	130	0	2.0	0.0	2.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	61.9	202.4	-140.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	14.1	-14.1
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	99.5	-99.5
3	765 kV	SOLAPUR-RAICHUR	2	629	2074	0.4	25.4	-25.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3279	0.0	55.5	-55.5
5	400 kV	KOLHAPUR-KUDGI	2	1262	0	16.4	0.0	16.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	106	2.1	0.0	2.1
					WR-SR	19.0	194.4	-175.4

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	745	562	605	14.53
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1053	827	951	22.82
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	159	30	120	2.89
	NER	132kV GELEPHU-SALAKATI	26	5	17	0.40
	NER	132kV MOTANGA-RANGIA	64	23	46	1.09
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-29	0	13	0.31
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	506	338	424	10.17
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-797	-900	-21.59
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1380	-985	-1221	-29.29
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-167	0	-148	-3.54

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-Aug-2023

Export From India (in MU)

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			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	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11
Bangladesh	21.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.58
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.69

Import by India(in MU)

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.76	2.58	0.00	0.00	0.00	0.00	0.00	0.00	41.34
Nepal	0.00	0.00	10.65	0.00	0.00	0.00	0.00	0.00	10.65
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	38.76	2.58	10.65	0.00	0.00	0.00	0.00	0.00	51.99

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

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	38.76	2.58	0.00	0.00	0.00	0.00	0.00	0.00	41.34
Nepal	-0.11	0.00	10.65	0.00	0.00	0.00	0.00	0.00	10.54
Bangladesh	-21.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.58
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	17.07	2.58	10.65	0.00	0.00	0.00	0.00	0.00	30.30