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: **13th** 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 12.08.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	75301	61657	48267	27252	3165	215642
Peak Shortage (MW)	1363	212	323	226	30	2154
Energy Met (MU)	1746	1437	1183	571	65	5002
Hydro Gen (MU)	429	101	86	134	32	782
Wind Gen (MU)	54	216	134	-	-	404
Solar Gen (MU)*	132.59	47.89	113.56	2.17	0.59	297
Energy Shortage (MU)	8.73	2.20	1.17	0.69	0.51	13.30
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78884	64004	56025	27534	3238	225637
Time Of Maximum Demand Met	14:50	10:14	14:41	20:54	18:44	14:43

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	0.023	0.00	0.00	1.63	1.63	76.25	22.12

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	14593	0	323.5	189.5	-0.2	93	0.00
	Haryana	12219	0	258.2	191.6	0.0	197	4.05
	Rajasthan	16399	0	345.6	117.7	-1.7	254	2.15
	Delhi	6374	0	129.3	112.4	-2.0	142	0.00
	UP	26651	420	544.5	230.6	1.6	336	2.44
	Uttarakhand	2130	0	47.1	23.2	0.2	74	0.00
	HP	1688	0	34.9	-0.3	-0.3	91	0.03
	J&K(UT) & Ladakh(UT)	2518	0	52.5	26.2	0.7	166	0.06
	Chandigarh	324	0	6.6	6.9	-0.3	26	0.00
	Railways_NR ISTS	173	0	3.4	3.2	0.2	62	0.00
WR	Chhattisgarh	5570	19	126.7	65.4	0.0	544	1.61
	Gujarat	19282	0	409.9	123.5	-0.1	568	0.00
	MP	12230	0	270.5	135.4	-1.5	638	0.00
	Maharashtra	24951	0	554.5	191.4	-3.7	538	0.59
	Goa	654	0	13.3	13.0	0.3	74	0.00
	DNHDDPDCL	1298	0	30.3	30.1	0.2	69	0.00
	AMNSIL	905	0	19.5	8.8	0.2	287	0.00
	BALCO	520	0	12.4	12.2	0.2	132	0.00
SR	Andhra Pradesh	11007	0	225.5	93.3	1.5	752	1.17
	Telangana	13179	0	267.2	122.1	-0.9	855	0.00
	Karnataka	14965	0	258.2	83.9	-0.6	856	0.00
	Kerala	3989	0	84.4	66.0	0.6	291	0.00
	Tamil Nadu	15755	0	338.5	169.6	-8.1	541	0.00
	Puducherry	422	0	9.4	9.6	-0.5	15	0.00
ER	Bihar	7149	0	134.3	130.6	-1.3	252	0.16
	DVC	3419	0	74.5	-46.0	-0.8	267	0.00
	Jharkhand	1749	0	39.1	33.6	0.4	160	0.53
	Odisha	5627	0	120.8	36.5	-1.1	331	0.00
	West Bengal	9096	0	200.5	75.6	-2.6	218	0.00
	Sikkim	85	0	1.3	1.1	0.2	37	0.00
	Railways_ER ISTS	19	0	0.2	0.1	0.0	0	0.00
NER	Arunachal Pradesh	157	0	2.9	2.4	-0.1	84	0.00
	Assam	2136	0	43.6	35.4	0.9	195	0.00
	Manipur	184	0	2.5	2.6	-0.1	22	0.00
	Meghalaya	301	3	5.2	1.0	-0.1	64	0.51
	Mizoram	121	0	2.1	1.7	-0.1	21	0.00
	Nagaland	162	0	3.0	2.7	-0.1	33	0.00
	Tripura	278	0	5.3	5.9	-0.2	23	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.0	10.7	-25.0	-28.7
Day Peak (MW)	1749.6	465.0	-1095.0	-1357.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	287.0	-326.2	192.0	-146.2	-6.7	0.0
Actual(MU)	274.3	-332.4	204.2	-144.2	-5.0	-3.2
O/D/U/D(MU)	-12.8	-6.3	12.1	2.0	1.8	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2098	12168	7758	2360	305	24688	49
State Sector	4930	11211	7338	2520	152	26151	51
Total	7027	23379	15096	4880	457	50839	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	844	1412	557	643	15	3471	65
Lignite	27	10	45	0	0	81	2
Hydro	429	101	86	134	32	782	15
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	44	50	6	0	30	131	2
RES (Wind, Solar, Biomass & Others)	192	265	287	3	1	747	14
Total	1565	1888	1051	780	78	5362	100

Share of RES in total generation (%)	12.26	14.01	27.27	0.43	0.76	13.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	41.56	22.01	42.21	17.56	41.78	31.32

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	225637	14:43	95
Non-Solar hr	216461	19:54	1469

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: 13-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	501	0.0	12.0	-12.0
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	499	564	0.0	3.4	-3.4
4	765 kV	SASARAM-FATEHPUR	1	57	319	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	569	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	17	58	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	50	25	0.4	0.0	0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	844	0.0	13.8	-13.8
9	400 kV	PATNA-BALIA	2	0	556	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	572	0.0	9.9	-9.9
11	400 kV	BIHARSHARIFF-BALIA	2	100	291	0.0	3.4	-3.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	481	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	205	256	0.0	2.0	-2.0
14	220 kV	SAHUPURI-KARAMNASA	1	18	119	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	51	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	1.0	77.8	-76.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1639	0	27.8	0.0	27.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	865	860	6.1	0.0	6.1
3	765 kV	JHARSUGUDA-DURG	2	18	312	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	464	0.0	5.2	-5.2
5	400 kV	RANCHI-SIPAT	2	172	245	0.2	0.0	0.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	106	0	0.4	0.0	0.4
					ER-WR	34.5	11.3	23.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.1	-12.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	39.1	-39.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2789	0.0	48.1	-48.1
4	400 kV	TALCHER-I/C	2	0	1175	0.0	18.5	-18.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	99.3	-99.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	432	0.0	4.3	-4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	71	523	0.0	4.4	-4.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	124	0.0	1.4	-1.4
					ER-NER	0.0	10.1	-10.1
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	2774	0.0	51.1	-51.1
2	HVDC	VINDHYACHAL B/B	-	442	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	30.4	-30.4
4	765 kV	GWALIOR-AGRA	2	305	1881	0.0	22.2	-22.2
5	765 kV	GWALIOR-PHAGI	2	521	1148	0.0	11.6	-11.6
6	765 kV	JABALPUR-ORAI	2	32	975	0.0	21.8	-21.8
7	765 kV	GWALIOR-ORAI	1	578	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	964	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1538	0.0	17.2	-17.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2952	0.0	51.5	-51.5
11	400 kV	ZERDA-KANKROLI	1	86	224	0.0	1.3	-1.3
12	400 kV	ZERDA -BHINMAL	1	403	288	1.1	0.0	1.1
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	259	456	0.0	2.3	-2.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	156	0	2.5	0.0	2.5
18	220 kV	MALANPUR-AURAIYA	1	124	0	1.8	0.0	1.8
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	49.1	230.3	-181.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	17.2	-17.2
2	HVDC	RAIGARH-PUGALUR	2	0	6017	0.0	74.6	-74.6
3	765 kV	SOLAPUR-RAICHUR	2	798	1951	0.0	13.8	-13.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2750	0.0	43.3	-43.3
5	400 kV	KOLHAPUR-KUDGI	2	1222	0	18.8	0.0	18.8
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	116	2.2	0.0	2.2
					WR-SR	21.0	148.9	-127.9

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)	430	387	397	9.52
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1037	0	989	23.73
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	162	89	126	3.03
	NER	132kV GELEPHU-SALAKATI	18	14	18	0.43
	NER	132kV MOTANGA-RANGIA	62	38	56	1.34
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-15	0	15	0.37
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	480	319	429	10.29
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-821	-904	-21.69
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1357	-957	-1198	-28.74
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-156	0	-139	-3.34

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
Bangladesh	21.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.68

Import by India(in MU)

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	35.33	2.49	0.00	0.00	0.00	0.00	0.00	0.00	37.82
Nepal	0.00	0.00	10.15	0.00	0.00	0.00	0.00	0.00	10.15
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	35.33	2.49	10.15	0.00	0.00	0.00	0.00	0.00	47.97

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	35.33	2.49	0.00	0.00	0.00	0.00	0.00	0.00	37.82
Nepal	-0.02	0.00	10.15	0.00	0.00	0.00	0.00	0.00	10.13
Bangladesh	-21.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	13.65	2.49	10.15	0.00	0.00	0.00	0.00	0.00	26.29