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: 06th 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 05.08.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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: 06-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)	71939	53587	49829	26840	3313	205508
Peak Shortage (MW)	308	0	100	157	6	571
Energy Met (MU)	1603	1235	1192	581	64	4674
Hydro Gen (MU)	430	97	92	138	33	789
Wind Gen (MU)	34	181	210	-	-	425
Solar Gen (MU)*	124.04	40.15	128.60	4.73	0.81	298
Energy Shortage (MU)	1.42	0.00	0.28	1.52	0.55	3.77
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72353	55849	56403	27842	3357	207385
Time Of Maximum Demand Met	22:16	19:32	10:22	20:15	19:03	19:48

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	0.033	0.00	0.28	6.04	6.32	83.22	10.46

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	14188	0	302.9	182.5	-0.6	185	0.00
	Haryana	11342	0	235.2	187.0	-1.1	215	0.60
	Rajasthan	13788	0	301.1	91.5	-4.1	115	0.00
	Delhi	6125	0	127.1	113.4	-1.1	174	0.00
	UP	24824	0	490.1	235.8	-1.2	362	0.00
	Uttarakhand	2084	0	47.4	20.2	0.4	116	0.15
	HP	1724	0	36.7	0.8	0.0	104	0.00
	J&K(UT) & Ladakh(UT)	2480	0	52.6	27.2	-0.4	152	0.67
	Chandigarh	345	0	7.1	7.4	-0.3	19	0.00
	Railways_NR ISTS	162	0	3.2	3.6	-0.4	0	0.00
WR	Chhattisgarh	4057	0	88.2	27.3	-1.5	220	0.00
	Gujarat	16703	0	368.6	159.8	0.0	865	0.00
	MP	9832	0	208.3	74.5	-3.4	459	0.00
	Maharashtra	22409	0	493.8	181.7	-6.0	660	0.00
	Goa	647	0	13.2	12.6	0.3	72	0.00
	DNHDDPDCL	1285	0	29.9	29.8	0.1	43	0.00
	AMNSIL	938	0	20.8	9.7	0.6	312	0.00
	BALCO	519	0	12.4	12.5	-0.1	4	0.00
SR	Andhra Pradesh	11625	0	234.5	68.8	0.8	448	0.00
	Telangana	12276	0	252.6	126.6	-0.4	655	0.00
	Karnataka	13008	0	226.5	70.1	0.6	613	0.28
	Kerala	3955	0	81.8	62.4	0.7	193	0.00
	Tamil Nadu	17368	0	386.5	177.8	-1.4	567	0.00
	Puducherry	485	0	9.6	9.6	-0.4	74	0.00
ER	Bihar	6957	0	145.3	138.5	-1.4	296	0.47
	DVC	3339	0	73.3	-38.2	-0.2	206	0.00
	Jharkhand	1641	63	35.9	30.4	1.2	183	1.05
	Odisha	6669	0	113.4	44.4	-3.1	325	0.00
	West Bengal	9535	0	211.7	82.0	-2.4	356	0.00
	Sikkim	72	0	1.2	1.2	0.0	18	0.00
	Railways_ER ISTS	11	0	0.1	0.2	-0.1	0	0.00
NER	Arunachal Pradesh	167	0	2.8	2.6	-0.3	24	0.00
	Assam	2233	0	43.0	35.7	0.5	188	0.00
	Manipur	171	0	2.5	2.6	-0.1	22	0.00
	Meghalaya	322	6	5.7	1.4	-0.1	42	0.55
	Mizoram	120	0	1.8	1.7	-0.3	13	0.00
	Nagaland	169	0	2.9	2.7	0.0	13	0.00
	Tripura	284	0	5.2	5.3	0.2	75	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.3	8.8	-25.2	-28.9
Day Peak (MW)	1932.0	355.4	-1080.0	-1244.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	304.5	-329.7	138.2	-104.1	-6.0	3.0
Actual(MU)	273.2	-327.1	158.2	-104.2	-5.4	-5.2
O/D/U/D(MU)	-31.3	2.6	20.0	-0.1	0.7	-8.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3022	11589	6378	2360	271	23621	41
State Sector	6080	15796	8833	2830	131	33669	59
Total	9102	27385	15211	5190	402	57290	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	739	1254	521	613	15	3141	63
Lignite	27	10	53	0	0	90	2
Hydro	430	97	92	138	33	789	16
Nuclear	29	50	70	0	0	150	3
Gas, Naptha & Diesel	27	19	6	0	29	81	2
RES (Wind, Solar, Biomass & Others)	164	223	365	7	1	760	15
Total	1417	1653	1108	757	77	5012	100

Share of RES in total generation (%)	11.61	13.50	32.97	0.86	1.05	15.17
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.04	22.38	47.63	19.02	43.79	33.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.079

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206208	10:54	25
Non-Solar hr	207385	19:48	582

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: 06-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	504	0.0	11.9	-11.9
2	HVDC	PUSAULI B/B	-	3	0	0.0	2.7	-2.7
3	765 kV	GAYA-VARANASI	2	568	295	0.0	0.3	-0.3
4	765 kV	SASARAM-FATEHPUR	1	87	319	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	642	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	20	48	0.0	0.3	-0.3
7	400 kV	PUSAULI -ALLAHABAD	1	40	29	0.3	0.0	0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	813	0.0	14.0	-14.0
9	400 kV	PATNA-BALIA	2	0	620	0.0	11.5	-11.5
10	400 kV	NAUBATPUR-BALIA	2	0	640	0.0	9.4	-9.4
11	400 kV	BIHARSHARIFF-BALIA	2	84	313	0.0	3.7	-3.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	464	0.0	8.4	-8.4
13	400 kV	BIHARSHARIFF-VARANASI	2	194	164	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNASA	1	8	109	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	53	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	1.1	78.0	-76.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1652	0	27.5	0.0	27.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1152	897	12.8	0.0	12.8
3	765 kV	JHARSUGUDA-DURG	2	79	341	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	422	58	4.4	0.0	4.4
5	400 kV	RANCHI-SIPAT	2	348	211	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	173	0	2.3	0.0	2.3
					ER-WR	50.3	2.9	47.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	298	339	0.0	0.7	-0.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	38.7	-38.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2714	0.0	50.9	-50.9
4	400 kV	TALCHER-I/C	2	0	1230	0.0	19.3	-19.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	90.2	-90.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	130	228	0.5	2.2	-1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	197	335	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	21	77	0.0	0.9	-0.9
					ER-NER	0.5	5.4	-5.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3021	0.0	57.2	-57.2
2	HVDC	VINDHYACHAL B/B	-	48	294	0.1	6.2	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	20.4	-20.4
4	765 kV	GWALIOR-AGRA	2	527	2215	0.5	29.5	-29.0
5	765 kV	GWALIOR-PHAGI	2	414	1320	1.3	16.1	-14.9
6	765 kV	JABALPUR-ORAI	2	124	854	0.0	19.2	-19.2
7	765 kV	GWALIOR-ORAI	1	729	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	918	0.0	17.5	-17.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1134	1069	5.3	6.5	-1.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3292	0.0	56.0	-56.0
11	400 kV	ZERDA-KANKROLI	1	226	139	1.2	0.7	0.5
12	400 kV	ZERDA -BHINMAL	1	441	207	3.3	1.1	2.2
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	155	524	0.6	4.6	-4.0
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	51	7	0.5	0.0	0.5
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	48.2	237.4	-189.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	704	0.0	8.3	-8.3
2	HVDC	RAIGARH-PUGALUR	2	0	5265	0.0	48.1	-48.1
3	765 kV	SOLAPUR-RAICHUR	2	689	1423	0.4	13.7	-13.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2714	0.0	45.7	-45.7
5	400 kV	KOLHAPUR-KUDGI	2	1400	0	23.0	0.0	23.0
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	117	2.3	0.0	2.3
					WR-SR	25.8	115.7	-90.0

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)	761	0	570	13.67
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1046	0	1000	23.99
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	161	94	128	3.06
	NER	132kV GELEPHU-SALAKATI	37	19	23	0.55
	NER	132kV MOTANGA-RANGIA	64	0	44	1.06
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-23	0	8	0.20
	ER	NEPAL IMPORT (FROM BIHAR)	-10	0	-2	-0.04
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	388	229	359	8.62
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-909	-791	-897	-21.53
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1244	-1099	-1206	-28.94
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-171	0	-151	-3.62

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 06-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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	21.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.51
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.51

Import by India(in MU)

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	39.88	2.27	0.00	0.00	0.00	0.00	0.00	0.00	42.15
Nepal	0.00	0.00	8.24	0.00	0.00	0.00	0.00	0.00	8.24
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	39.88	2.27	8.24	0.00	0.00	0.00	0.00	0.00	50.39

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	39.88	2.27	0.00	0.00	0.00	0.00	0.00	0.00	42.15
Nepal	0.00	0.00	8.24	0.00	0.00	0.00	0.00	0.00	8.24
Bangladesh	-21.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.51
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	18.37	2.27	8.24	0.00	0.00	0.00	0.00	0.00	28.88