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 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 24.08.2023.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24th 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: 25-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)	70680	60623	49775	25017	2917	209012
Peak Shortage (MW)	215	0	0	319	352	886
Energy Met (MU)	1557	1459	1278	547	61	4902
Hydro Gen (MU)	389	103	80	134	39	744
Wind Gen (MU)	71	212	156	-	-	439
Solar Gen (MU)*	122.01	44.01	123.96	1.55	0.61	292
Energy Shortage (MU)	1.67	0.00	0.00	1.43	3.13	6.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70670	65322	61849	25548	3184	218998
Time Of Maximum Demand Met	19:48	10:48	10:58	19:21	18:48	11:57

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	0.026	0.00	0.00	2.04	2.04	81.87	16.10

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	14780	0	320.0	188.9	-1.1	107	0.00
	Haryana	10843	0	230.5	167.5	-1.4	76	0.00
	Rajasthan	15398	0	333.6	85.2	-4.3	228	0.00
	Delhi	5875	0	122.6	108.6	-2.9	78	0.00
	UP	22520	0	411.2	193.9	-3.1	225	0.00
	Uttarakhand	2075	0	44.0	21.2	0.4	151	0.07
	HP	1622	0	36.5	0.8	-0.4	121	0.06
	J&K(UT) & Ladakh(UT)	2363	200	49.7	26.0	-1.0	168	1.54
	Chandigarh	313	0	6.0	6.8	-0.8	2	0.00
	Railways_NR ISTS	153	0	3.2	3.5	-0.2	9	0.00
WR	Chhattisgarh	5337	0	121.6	62.0	-1.4	150	0.00
	Gujarat	21466	0	450.0	171.1	-1.9	1013	0.00
	MP	11503	0	244.8	102.3	-3.9	406	0.00
	Maharashtra	25490	0	566.7	219.3	0.4	645	0.00
	Goa	662	0	14.0	13.4	0.2	53	0.00
	DNHDDPDCL	1314	0	30.6	30.8	-0.2	39	0.00
	AMNSIL	835	0	18.8	7.6	-0.4	200	0.00
	BALCO	520	0	12.4	12.4	0.0	13	0.00
SR	Andhra Pradesh	11806	0	237.4	89.0	-1.4	563	0.00
	Telangana	13451	0	265.4	141.7	-0.4	415	0.00
	Karnataka	16272	0	295.6	112.8	2.2	1328	0.00
	Kerala	4247	0	88.6	75.9	1.2	314	0.00
	Tamil Nadu	18023	0	380.7	172.5	-2.5	516	0.00
	Puducherry	466	0	10.5	9.8	-0.1	38	0.00
ER	Bihar	6499	0	128.8	127.5	-3.2	312	0.24
	DVC	3377	0	75.1	-35.4	-0.1	517	0.00
	Jharkhand	1637	0	36.4	30.3	1.1	190	1.20
	Odisha	5113	0	110.2	43.9	-1.9	258	0.00
	West Bengal	9040	0	194.9	85.5	-4.1	198	0.00
	Sikkim	85	0	1.3	1.2	0.1	27	0.00
	Railways_ER ISTS	13	0	0.2	0.2	0.0	6	0.00
NER	Arunachal Pradesh	158	0	2.9	2.6	-0.3	30	0.00
	Assam	2109	0	39.6	30.6	1.9	358	2.25
	Manipur	189	0	2.6	2.7	0.0	12	0.00
	Meghalaya	323	56	5.8	0.8	0.0	57	0.88
	Mizoram	120	0	1.8	1.4	-0.2	9	0.00
	Nagaland	161	0	2.7	2.6	-0.1	15	0.00
	Tripura	316	0	5.8	6.1	-0.2	41	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.3	11.2	-24.6	-31.7
Day Peak (MW)	1905.0	468.0	-1069.0	-1427.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	244.1	-300.2	200.5	-127.7	-16.7	0.0
Actual(MU)	212.7	-304.9	228.5	-129.9	-12.0	-5.6
O/D/U/D(MU)	-31.4	-4.8	28.0	-2.2	4.8	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2263	11010	5718	3210	305	22506	47
State Sector	4095	11944	6078	3250	129	25496	53
Total	6358	22954	11796	6460	434	48001	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	746	1381	640	605	13	3385	65
Lignite	27	11	50	0	0	88	2
Hydro	389	103	80	134	39	744	14
Nuclear	29	51	46	0	0	127	2
Gas, Naptha & Diesel	37	52	6	0	28	123	2
RES (Wind, Solar, Biomass & Others)	199	259	306	3	1	768	15
Total	1428	1857	1127	742	81	5234	100

Share of RES in total generation (%)	13.97	13.92	27.14	0.45	0.76	14.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.27	22.23	38.30	18.46	48.99	31.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
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	218998	11:57	189
Non-Solar hr	212572	19:32	516

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: 25-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	801	0.0	20.2	-20.2
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	483	276	0.0	0.6	-0.6
4	765 kV	SASARAM-FATEHPUR	1	31	280	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	43	455	0.0	4.5	-4.5
6	400 kV	PUSAULI-VARANASI	1	0	88	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	746	0.0	12.8	-12.8
9	400 kV	PATNA-BALIA	2	0	488	0.0	9.0	-9.0
10	400 kV	NAUBATPUR-BALIA	2	0	505	0.0	9.0	-9.0
11	400 kV	BIHARSHARIFF-BALIA	2	139	135	0.0	0.8	-0.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	438	0.0	8.3	-8.3
13	400 kV	BIHARSHARIFF-VARANASI	2	185	148	0.0	0.3	-0.3
14	220 kV	SAHUPURI-KARAMNASA	1	0	116	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	54	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.5	74.9	-74.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1665	0	27.3	0.0	27.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1007	859	2.4	0.0	2.4
3	765 kV	JHARSUGUDA-DURG	2	46	296	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	52	399	0.0	4.1	-4.1
5	400 kV	RANCHI-SIPAT	2	178	249	0.0	3.0	-3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	180	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	74	2	0.9	0.0	0.9
					ER-WR	30.6	12.7	18.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	876	0.0	14.2	-14.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2485	0.0	46.7	-46.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2408	0.0	43.1	-43.1
4	400 kV	TALCHER-I/C	2	51	1132	0.0	13.7	-13.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	104.0	-104.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	103	334	0.1	2.2	-2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	247	386	0.0	0.9	-0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	34	88	0.0	0.5	-0.5
					ER-NER	0.1	3.6	-3.4
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	3022	0.0	47.9	-47.9
2	HVDC	VINDHYACHAL B/B	-	441	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	123	2180	0.2	21.9	-21.7
5	765 kV	GWALIOR-PHAGI	2	777	1167	3.2	9.9	-6.7
6	765 kV	JABALPUR-ORAI	2	233	834	0.0	14.0	-14.0
7	765 kV	GWALIOR-ORAI	1	812	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	888	0.0	16.8	-16.8
9	765 kV	BANASKANTHA-CHITORGARH	2	742	1086	2.9	8.6	-5.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2929	0.0	42.3	-42.3
11	400 kV	ZERDA-KANKROLI	1	271	135	2.0	0.4	1.7
12	400 kV	ZERDA -BHINMAL	1	595	57	5.0	0.0	5.0
13	400 kV	VINDHYACHAL -RIHAND	1	987	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	477	491	2.8	2.5	0.3
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	134	0	2.0	0.0	2.0
18	220 kV	MALANPUR-AURAIYA	1	100	0	1.4	0.0	1.4
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	64.5	190.8	-126.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.4	-21.4
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	95.9	-95.9
3	765 kV	SOLAPUR-RAICHUR	2	296	1656	0.2	18.7	-18.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2665	0.0	46.9	-46.9
5	400 kV	KOLHAPUR-KUDGI	2	1346	0	19.7	0.0	19.7
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	113	2.3	0.0	2.3
					WR-SR	22.3	182.9	-160.6

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)	671	603	651	15.63
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1022	0	937	22.48
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	93	51	71	1.70
	NER	132kV GELEPHU-SALAKATI	19	9	15	0.35
	NER	132kV MOTANGA-RANGIA	61	24	47	1.12
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-27	0	10	0.24
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	495	371	455	10.93
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-804	-897	-21.53
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1427	-1238	-1322	-31.72
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-128	-3.07

CROSS BORDER EXCHANGE SCHEDULE **Date of Reporting: 25-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	21.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.54

Import by India(in MU)

Country	(ISGS/LTA/MTOA) PPA	STOA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	37.62	2.82	0.00	0.00	0.00	0.00	0.00	0.00	40.44
Nepal	0.00	0.00	10.03	0.00	0.00	0.00	0.00	0.00	10.03
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	37.62	2.82	10.03	0.00	0.00	0.00	0.00	0.00	50.47

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	37.62	2.82	0.00	0.00	0.00	0.00	0.00	0.00	40.44
Nepal	0.00	0.00	10.03	0.00	0.00	0.00	0.00	0.00	10.03
Bangladesh	-21.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.54
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	16.08	2.82	10.03	0.00	0.00	0.00	0.00	0.00	28.93