



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड कंट्रोलर 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: 20th August 2023

To,

- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 19.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-अगस्त-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 19th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	73356	57923	46818	25282	3222	206601
Peak Shortage (MW)	3431	43	0	660	268	4402
Energy Met (MU)	1750	1415	1150	579	66	4961
Hydro Gen (MU)	416	101	69	140	32	758
Wind Gen (MU)	13	171	227	-	-	412
Solar Gen (MU)*	123.45	38.89	88.92	2.38	0.70	254
Energy Shortage (MU)	20.95	0.50	0.00	3.32	3.84	28.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	77906	65107	54621	26026	3239	220724
Time Of Maximum Demand Met	12:57	10:22	10:05	23:22	18:27	12:58

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	0.031	0.00	0.00	3.24	3.24	69.64	27.11

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	14955	0	328.4	199.9	-0.5	177	0.00
	Haryana	11824	0	254.2	197.1	-0.9	217	5.17
	Rajasthan	16612	0	343.3	129.6	0.5	432	7.45
	Delhi	6902	0	138.9	119.9	-0.8	209	0.00
	UP	25367	0	537.2	253.6	2.1	563	7.37
	Uttarakhand	2248	0	49.4	22.5	1.0	159	0.46
	HP	1651	0	35.6	-0.3	1.3	174	0.26
	J&K(UT) & Ladakh(UT)	2522	125	52.2	28.4	-1.9	129	0.24
	Chandigarh	371	0	7.4	7.6	-0.2	18	0.00
Railways_NR ISTS	165	0	3.2	3.2	-0.1	39	0.00	
WR	Chhattisgarh	4771	0	106.8	54.0	-1.1	301	0.00
	Gujarat	22470	0	458.7	154.2	-0.1	717	0.00
	MP	10848	0	237.9	117.5	-3.3	770	0.00
	Maharashtra	25013	0	540.3	219.4	-3.9	682	0.50
	Goa	629	0	13.1	12.8	-0.1	56	0.00
	DNHDDPDCL	1310	0	30.6	30.8	-0.2	40	0.00
	AMNSIL	845	0	15.4	5.5	-0.3	269	0.00
	BALCO	521	0	12.5	12.5	0.0	11	0.00
SR	Andhra Pradesh	11076	0	224.8	69.9	-0.8	453	0.00
	Telangana	10505	0	210.6	98.1	-1.8	625	0.00
	Karnataka	14241	0	257.4	92.5	0.8	897	0.00
	Kerala	4032	0	83.3	66.5	2.3	812	0.00
	Tamil Nadu	16985	0	363.8	144.2	-4.7	428	0.00
	Puducherry	454	0	9.9	9.9	-0.7	24	0.00
ER	Bihar	6915	410	143.0	138.9	1.7	565	2.57
	DVC	3400	0	75.4	-39.6	0.3	277	0.00
	Jharkhand	1748	0	38.1	30.7	2.0	225	0.73
	Odisha	5231	0	115.9	43.3	1.2	365	0.02
	West Bengal	9435	0	205.4	83.1	-2.9	56	0.00
	Sikkim	77	0	1.1	1.1	0.1	19	0.00
	Railways_ER ISTS	31	0	0.2	0.2	0.1	20	0.00
NER	Arunachal Pradesh	160	0	2.8	2.4	0.0	50	0.00
	Assam	2163	0	44.8	34.9	2.7	268	3.42
	Manipur	188	0	2.8	2.7	0.0	69	0.00
	Meghalaya	325	0	5.1	0.0	-0.1	44	0.42
	Mizoram	119	0	2.0	1.6	-0.2	6	0.00
	Nagaland	159	0	2.8	2.5	0.0	38	0.00
	Tripura	318	0	6.1	6.6	0.4	72	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.5	9.8	-25.0	-30.5
Day Peak (MW)	1929.0	437.0	-1087.0	-1379.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	373.6	-344.7	90.5	-112.9	-6.5	0.0
Actual(MU)	358.0	-338.1	87.6	-108.7	-3.5	-4.7
O/D/U/D(MU)	-15.6	6.6	-2.9	4.2	3.0	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2939	9710	6758	3660	255	23322	42
State Sector	7070	13812	7138	3490	157	31666	58
Total	10009	23522	13896	7150	411	54988	100

G. Sourcwise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	827	1456	606	605	16	3510	66
Lignite	27	9	41	0	0	77	1
Hydro	416	101	69	140	32	758	14
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	41	58	6	0	28	133	2
RES (Wind, Solar, Biomass & Others)	144	211	340	4	1	699	13
Total	1482	1886	1133	749	77	5327	100

Share of RES in total generation (%)	9.68	11.21	29.99	0.48	0.91	13.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.70	19.22	42.36	19.20	42.67	30.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.071

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220724	12:58	344
Non-Solar hr	210286	19:26	3545

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: 20-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	94	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	32	475	0.0	3.5	-3.5
4	765 kV	SASARAM-FATEHPUR	1	0	284	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	635	0.0	10.8	-10.8
6	400 kV	PUSAULI-VARANASI	1	0	85	0.0	1.0	-1.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	101	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	844	0.0	14.0	-14.0
9	400 kV	PATNA-BALIA	2	0	505	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	0	516	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	301	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	482	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	21	233	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	116	0.0	1.8	-1.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	68	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	82.7	-82.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1784	0	23.8	0.0	23.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1239	354	14.9	0.0	14.9
3	765 kV	JHARSUGUDA-DURG	2	151	285	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	4	14	446	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	251	198	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	178	0.0	2.9	-2.9
7	220 kV	BUDHIPADAR-KORBA	2	59	19	0.5	0.0	0.5
ER-WR						40.7	8.9	31.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1632	0.0	29.2	-29.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2404	0.0	37.9	-37.9
4	400 kV	TALCHER-I/C	2	173	561	0.0	0.9	-0.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	75.6	-75.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	314	0.0	4.1	-4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	475	0.0	6.0	-6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	91	0.0	1.3	-1.3
ER-NER						0.0	11.5	-11.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5556	0.0	81.0	-81.0
2	HVDC	VINDHYACHAL B/B	-	359	0	5.1	0.0	5.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	23.4	-23.4
4	765 kV	GWALIOR-AGRA	2	0	2500	0.0	36.8	-36.8
5	765 kV	GWALIOR-PHAGI	2	0	1440	0.0	20.8	-20.8
6	765 kV	JABALPUR-ORAI	2	0	1212	0.0	31.5	-31.5
7	765 kV	GWALIOR-ORAI	1	684	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1093	0.0	21.3	-21.3
9	765 kV	BANASKANTHA-CHITORGARH	2	366	1585	1.0	16.2	-15.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3464	0.0	60.3	-60.3
11	400 kV	ZERDA-KANKROLI	1	100	204	0.3	1.4	-1.2
12	400 kV	ZERDA -BHINMAL	1	246	502	0.7	4.5	-3.8
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	133	673	0.2	7.0	-6.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	90	7	1.0	0.0	1.0
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						43.4	306.9	-263.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	998	0.0	13.0	-13.0
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	22.2	-22.2
3	765 kV	SOLAPUR-RAICHUR	2	848	1553	5.6	5.1	0.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2440	0.0	30.0	-30.0
5	400 kV	KOLHAPUR-KUDGI	2	1146	0	20.0	0.0	20.0
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	104	2.1	0.0	2.1
WR-SR						27.6	70.3	-42.7

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 MANGDECHHU HEP 4*180MW)	615	575	603	14.47	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1015	0	980	23.51	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	130	82	104	2.50	
	NER	132kV GELEPHU-SALAKATI	32	22	27	0.64	
	NER	132kV MOTANGA-RANGIA	67	43	55	1.33	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-19	0	16	0.39	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	456	289	390	9.36	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-794	-898	-21.55	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1379	-949	-1269	-30.47	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-163	0	-146	-3.50	

