



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: 12th 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 11.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	73544	60020	45368	25469	3228	207629
Peak Shortage (MW)	3656	995	388	650	232	5921
Energy Met (MU)	1707	1421	1205	579	66	4978
Hydro Gen (MU)	425	116	112	126	35	814
Wind Gen (MU)	37	170	59	-	-	265
Solar Gen (MU)*	121.73	48.03	117.47	2.28	0.90	290
Energy Shortage (MU)	26.41	8.60	8.66	4.26	1.39	49.32
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78434	63827	60531	28066	3387	228963
Time Of Maximum Demand Met	14:51	10:48	11:24	00:55	18:39	12:52

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	0.029	0.00	0.31	3.84	4.15	76.87	18.98

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	14410	0	319.1	186.9	-0.8	101	0.00
	Haryana	12018	0	249.9	186.8	1.2	160	8.02
	Rajasthan	16216	0	330.4	118.1	2.7	571	14.68
	Delhi	6588	0	134.8	121.4	-2.1	148	0.00
	UP	26168	660	530.2	219.1	0.2	297	2.99
	Uttarakhand	2066	105	46.0	22.7	0.1	115	0.21
	HP	1665	0	34.8	-1.6	-0.4	139	0.00
	J&K(UT) & Ladakh(UT)	2446	0	51.6	25.5	0.4	143	0.51
	Chandigarh	340	0	6.9	7.0	-0.1	35	0.00
Railways_NR ISTS	169	0	3.4	3.1	0.3	69	0.00	
WR	Chhattisgarh	5354	0	122.5	65.2	0.4	369	3.00
	Gujarat	18818	0	408.6	151.2	-3.3	714	0.00
	MP	12072	0	265.5	133.1	-4.9	391	0.00
	Maharashtra	24808	0	548.0	186.3	-2.1	748	5.60
	Goa	655	0	13.9	13.5	0.0	46	0.00
	DNHDDPDCL	1303	0	30.8	31.1	-0.3	38	0.00
	AMNSIL	831	0	18.9	9.0	0.1	260	0.00
	BALCO	518	0	12.4	12.5	-0.1	14	0.00
SR	Andhra Pradesh	11645	0	231.0	106.1	4.2	1093	2.54
	Telangana	13829	0	272.6	124.7	2.0	1037	0.00
	Karnataka	15233	0	254.2	71.0	3.6	1152	6.12
	Kerala	4133	0	85.7	60.1	1.1	275	0.00
	Tamil Nadu	16441	0	352.1	199.3	2.6	833	0.00
	Puducherry	422	0	9.7	9.6	-0.3	29	0.00
ER	Bihar	7185	73	137.6	130.7	1.8	323	2.21
	DVC	3515	0	75.0	-51.7	-1.2	378	0.00
	Jharkhand	1634	0	36.3	31.2	0.3	182	2.05
	Odisha	6708	0	122.7	36.2	0.9	336	0.00
	West Bengal	9606	0	205.8	81.4	-1.7	268	0.00
	Sikkim	85	0	1.3	1.0	0.3	34	0.00
	Railways_ER ISTS	23	0	0.2	0.1	0.0	14	0.00
NER	Arunachal Pradesh	163	0	3.0	2.7	-0.3	23	0.00
	Assam	2238	0	45.0	36.0	1.6	58	0.90
	Manipur	177	0	2.5	2.6	-0.1	22	0.00
	Meghalaya	285	40	5.3	0.9	-0.1	35	0.49
	Mizoram	111	0	1.9	1.6	-0.3	4	0.00
	Nagaland	178	0	3.1	2.7	0.0	15	0.00
	Tripura	302	0	5.5	5.9	-0.1	42	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	28.8	8.9	-24.6	-28.4
Day Peak (MW)	1815.0	431.0	-1087.0	-1328.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.5	-328.5	200.4	-127.4	-10.0	0.0
Actual(MU)	250.4	-348.6	227.0	-123.1	-9.8	-4.2
O/D/U/D(MU)	-15.1	-20.1	26.6	4.3	0.2	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2018	11254	7758	2360	305	23694	47
State Sector	6140	11861	6228	2520	152	26901	53
Total	8157	23115	13986	4880	457	50595	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	861	1436	610	636	17	3559	67
Lignite	27	8	46	0	0	81	2
Hydro	425	116	112	126	35	814	15
Nuclear	28	50	71	0	0	149	3
Gas, Naptha & Diesel	45	65	6	0	30	146	3
RES (Wind, Solar, Biomass & Others)	165	219	213	3	1	600	11
Total	1550	1893	1058	766	83	5350	100

Share of RES in total generation (%)	10.62	11.56	20.11	0.45	1.08	11.22
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.85	20.31	37.39	16.96	43.57	29.23

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.049

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	228963	12:52	87
Non-Solar hr	211635	19:23	6476

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: 12-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	500	0.0	12.6	-12.6
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	403	339	0.0	0.7	-0.7
4	765 kV	SASARAM-FATEHPUR	1	0	287	0.0	3.6	-3.6
5	765 kV	GAYA-BALIA	1	0	589	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	21	63	0.6	0.0	0.6
7	400 kV	PUSAULI -ALLAHABAD	1	58	30	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	723	0.0	11.1	-11.1
9	400 kV	PATNA-BALIA	2	0	508	0.0	8.7	-8.7
10	400 kV	NAUBATPUR-BALIA	2	0	520	0.0	8.7	-8.7
11	400 kV	BIHARSHARIFF-BALIA	2	109	207	0.0	2.5	-2.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	417	0.0	6.4	-6.4
13	400 kV	BIHARSHARIFF-VARANASI	2	134	178	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	109	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	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	0	59	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.0	64.7	-63.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1553	0	26.5	0.0	26.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1013	486	9.6	0.0	9.6
3	765 kV	JHARSUGUDA-DURG	2	113	233	0.0	1.3	-1.3
4	400 kV	JHARSUGUDA-RAIGARH	4	147	358	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	247	153	1.3	0.0	1.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	139	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	120	0	0.7	0.0	0.7
ER-WR						38.1	5.9	32.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	756	0.0	13.3	-13.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	47.1	-47.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2457	0.0	43.4	-43.4
4	400 kV	TALCHER-I/C	2	0	1260	0.0	27.7	-27.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	103.8	-103.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	48	300	0.0	3.4	-3.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	162	315	0.0	1.6	-1.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	98	0.0	1.2	-1.2
ER-NER						0.0	6.2	-6.2
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	2010	0.0	48.4	-48.4
2	HVDC	VINDHYACHAL B/B	-	439	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	164	2005	0.0	24.3	-24.3
5	765 kV	GWALIOR-PHAGI	2	282	1265	0.0	14.1	-14.1
6	765 kV	JABALPUR-ORAI	2	51	994	0.0	23.2	-23.2
7	765 kV	GWALIOR-ORAI	1	601	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1001	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	588	1235	0.0	11.8	-11.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3005	0.0	49.5	-49.5
11	400 kV	ZERDA-KANKROLI	1	179	182	0.0	1.0	-1.0
12	400 kV	ZERDA -BHINMAL	1	363	284	0.0	0.3	-0.3
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	185	492	0.0	3.3	-3.3
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	158	0	2.6	0.0	2.6
18	220 kV	MALANPUR-AURAIYA	1	122	0	1.9	0.0	1.9
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						49.6	221.2	-171.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	11.6	-11.6
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	95.7	-95.7
3	765 kV	SOLAPUR-RAICHUR	2	646	1708	0.0	15.0	-15.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2778	0.0	44.4	-44.4
5	400 kV	KOLHAPUR-KUDGI	2	1201	0	19.5	0.0	19.5
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	122	2.3	0.0	2.3
WR-SR						21.9	166.7	-144.8

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)	593	-152	198	4.75
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1041	820	933	22.39
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	153	85	112	2.69
	NER	132kV GELEPHU-SALAKATI	26	-22	1	0.02
	NER	132kV MOTANGA-RANGIA	-68	-20	-43	-1.02
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-49	0	4	0.10
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	480	241	367	8.80
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-815	-889	-21.33
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1328	-1039	-1183	-28.40
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-135	-3.24

