



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: 11 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 10.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10 August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-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)	72269	58485	47036	24818	3369	205977
Peak Shortage (MW)	3746	1636	1575	1307	43	8307
Energy Met (MU)	1678	1395	1205	564	65	4907
Hydro Gen (MU)	420	112	109	140	35	815
Wind Gen (MU)	47	200	78	-	-	325
Solar Gen (MU)*	122.05	47.33	108.46	2.56	0.76	281
Energy Shortage (MU)	23.30	8.21	17.67	7.54	0.97	57.69
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76473	62975	59445	28714	3365	224840
Time Of Maximum Demand Met	14:51	10:56	11:55	19:00	20:06	14:56

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	0.043	0.23	1.49	7.75	9.48	79.24	11.28

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	14338	0	317.7	185.8	-0.9	147	0.00
	Haryana	12304	0	253.4	197.6	0.4	209	7.07
	Rajasthan	15883	0	326.4	95.8	1.5	308	9.37
	Delhi	6548	0	132.0	118.8	-1.7	225	0.00
	UP	24698	750	505.2	206.4	-0.9	478	5.36
	Uttarakhand	2040	0	45.0	22.0	0.7	182	1.07
	HP	1709	0	36.5	-0.1	-0.1	153	0.01
	J&K(UT) & Ladakh(UT)	2487	0	51.3	24.6	0.8	266	0.42
	Chandigarh	345	0	7.1	7.4	-0.4	22	0.00
Railways NR ISTS	175	0	3.4	2.9	0.5	90	0.00	
WR	Chhattisgarh	5053	0	115.0	58.8	2.0	571	5.86
	Gujarat	18331	0	401.7	139.1	-7.8	629	0.00
	MP	11940	0	258.7	119.7	-2.4	529	0.00
	Maharashtra	24885	0	544.2	177.6	-3.6	782	2.35
	Goa	657	0	13.6	12.9	0.4	97	0.00
	DNHDDPDCL	1310	0	30.9	30.3	0.6	87	0.00
	AMNSIL	896	0	18.1	9.5	-0.4	273	0.00
	BALCO	520	0	12.4	12.1	0.4	134	0.00
SR	Andhra Pradesh	12103	0	236.4	118.6	0.9	1180	0.00
	Telangana	13383	0	262.8	117.9	0.1	650	0.00
	Karnataka	14684	0	252.7	71.0	2.7	926	12.20
	Kerala	4147	0	85.2	60.0	1.2	387	0.00
	Tamil Nadu	16355	0	358.5	203.2	2.9	1761	5.47
	Puducherry	448	0	9.7	9.5	-0.6	42	0.00
ER	Bihar	6307	1092	123.0	118.3	-0.5	189	4.40
	DVC	3396	0	74.9	-54.7	-1.0	168	0.00
	Jharkhand	1929	0	35.5	27.7	2.8	244	2.80
	Odisha	6784	0	124.7	38.1	1.2	621	0.34
	West Bengal	9317	0	204.4	74.4	1.1	760	0.00
	Sikkim	89	0	1.3	1.0	0.3	39	0.00
Railways ER ISTS	19	0	0.2	0.1	0.1	9	0.00	
NER	Arunachal Pradesh	162	0	3.0	2.9	-0.4	34	0.00
	Assam	2326	0	44.2	36.3	0.6	247	0.34
	Manipur	166	0	2.5	2.6	-0.1	11	0.00
	Meghalaya	293	0	5.3	0.9	-0.2	61	0.63
	Mizoram	120	0	1.8	1.7	-0.3	5	0.00
	Nagaland	162	0	2.8	2.5	-0.2	11	0.00
Tripura	304	0	5.4	5.8	0.1	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.6	9.6	-24.8	-29.2
Day Peak (MW)	1997.0	475.0	-1079.0	-1368.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	242.8	-316.5	212.7	-131.2	-7.9	0.0
Actual(MU)	230.3	-361.4	233.4	-125.3	-8.8	-31.8
O/D/U/D(MU)	-12.5	-44.9	20.7	5.9	-0.9	-31.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2710	12598	7258	4630	305	27501	50
State Sector	5880	12870	6148	2520	152	27570	50
Total	8590	25468	13406	7150	457	55070	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	852	1332	604	600	18	3406	65
Lignite	27	7	45	0	0	80	2
Hydro	420	112	109	140	35	815	16
Nuclear	29	50	70	0	0	149	3
Gas, Naptha & Diesel	41	69	6	0	29	145	3
RES (Wind, Solar, Biomass & Others)	176	249	215	4	1	644	12
Total	1545	1819	1049	744	82	5239	100

Share of RES in total generation (%)	11.38	13.71	20.46	0.50	0.93	12.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.45	22.60	37.51	19.31	43.31	30.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	224840	14:56	1250
Non-Solar hr	210051	19:28	8630

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: 11-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	12.4	-12.4
2	HVDC	PUSAULI B/B	-	4	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	254	284	0.0	1.2	-1.2
4	765 kV	SASARAM-FATEHPUR	1	0	198	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	11	498	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	1	15	53	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	48	23	0.5	0.0	0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	708	0.0	11.5	-11.5
9	400 kV	PATNA-BALIA	2	0	460	0.0	8.8	-8.8
10	400 kV	NAUBATPUR-BALIA	2	0	472	0.0	8.7	-8.7
11	400 kV	BIHARSHARIFF-BALIA	2	53	217	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	385	0.0	6.8	-6.8
13	400 kV	BIHARSHARIFF-VARANASI	2	81	173	0.0	1.4	-1.4
14	220 kV	SAHUPURI-KARAMNANA	1	5	108	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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						1.0	64.7	-63.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1664	0	27.3	0.0	27.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	903	819	6.1	0.0	6.1
3	765 kV	JHARSUGUDA-DURG	2	112	245	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	143	272	0.0	0.2	-0.2
5	400 kV	RANCHI-SIPAT	2	225	200	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	122	0	0.7	0.0	0.7
ER-WR						35.7	2.8	32.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	46.2	-46.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2780	0.0	47.0	-47.0
4	400 kV	TALCHER-I/C	2	0	1261	0.0	26.8	-26.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	105.6	-105.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	87	220	0.2	2.5	-2.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	151	305	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	16	89	0.0	0.9	-0.9
ER-NER						0.2	6.8	-6.6
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-KIRUKSHETRA	2	0	2019	0.0	48.4	-48.4
2	HVDC	VINDHYACHAL B/B	-	439	0	0.0	12.1	-12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	17.3	-17.3
4	765 kV	GWALIOR-AGRA	2	0	1949	0.1	26.2	-26.2
5	765 kV	GWALIOR-PHAGI	2	631	915	2.0	13.4	-11.3
6	765 kV	JABALPUR-ORAI	2	49	888	0.0	20.1	-20.1
7	765 kV	GWALIOR-ORAI	1	549	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	914	0.0	17.4	-17.4
9	765 kV	BANASKANTHA-CHITORGARH	2	0	1196	0.0	15.3	-15.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2731	0.0	41.4	-41.4
11	400 kV	ZERDA-KANKROLI	1	99	180	0.5	1.6	-1.1
12	400 kV	ZERDA -BHINMAL	1	441	247	2.6	1.8	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	21.0	0.0	21.0
14	400 kV	RAPP-SHUALPUR	2	298	407	1.9	2.6	-0.7
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	163	0	2.7	0.0	2.7
18	220 kV	MALANPUR-AURAIYA	1	128	0	2.0	0.0	2.0
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						42.2	220.1	-177.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	19.0	-19.0
2	HVDC	RAIGARH-PUGALUR	2	0	5520	0.0	86.3	-86.3
3	765 kV	SOLAPUR-RAICHUR	2	649	1788	0.8	17.6	-16.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3039	0.0	47.9	-47.9
5	400 kV	KOLHAPUR-KUDGI	2	1366	0	18.2	0.0	18.2
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	119	2.2	0.0	2.2
WR-SR						21.2	170.8	-149.6

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 MANGDECHHU HEP 4*180MW)	630	566	590	14.17	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1032	824	935	22.45	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	154	59	99	2.37	
	NER	132kV GELEPHU-SALAKATI	87	15	25	0.60	
	NER	132kV MOTANGA-RANGIA	67	0	43	1.02	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-49	0	6	0.14	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	524	138	396	9.50	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-915	-816	-886	-21.26	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1368	-1092	-1217	-29.20	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	164	0	-149	-3.57	

