



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: 08th 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., डोंगतिह, 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 07.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	73415	55465	50563	25851	3150	208444
Peak Shortage (MW)	150	686	0	404	21	1261
Energy Met (MU)	1587	1294	1213	533	60	4687
Hydro Gen (MU)	419	105	108	140	33	805
Wind Gen (MU)	86	273	189	-	-	547
Solar Gen (MU)*	127.79	37.41	112.94	1.64	0.81	281
Energy Shortage (MU)	1.26	1.29	0.00	1.97	0.35	4.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73586	58394	58606	26231	3230	209855
Time Of Maximum Demand Met	22:12	19:40	12:31	20:43	18:57	19:45

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	0.032	0.00	0.47	5.73	6.20	79.32	14.48

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	14374	0	312.6	190.2	-0.3	113	0.00
	Haryana	11294	0	237.7	189.2	-1.3	125	0.00
	Rajasthan	13864	0	308.7	72.6	-5.2	121	0.00
	Delhi	6269	0	128.8	116.1	-2.5	143	0.00
	UP	25110	0	460.4	217.6	0.7	364	0.62
	Uttarakhand	2044	0	44.6	20.3	0.3	103	0.07
	HP	1623	0	34.4	-0.8	-0.4	42	0.00
	J&K(UT) & Ladakh(UT)	2394	75	49.9	25.3	-1.3	147	0.57
	Chandigarh	365	0	7.1	7.2	-0.1	24	0.00
Railways NR ISTS	170	0	3.3	3.4	-0.2	26	0.00	
WR	Chhattisgarh	4575	0	100.0	41.1	-1.1	224	0.00
	Gujarat	17296	0	381.0	134.4	-1.7	751	0.00
	MP	10689	0	222.1	65.2	-4.3	625	0.00
	Maharashtra	23346	0	515.7	176.2	1.5	1119	1.29
	Goa	666	0	13.4	13.3	-0.2	175	0.00
	DNHDDPDCL	1300	0	29.7	29.4	0.3	113	0.00
	AMNSIL	852	0	19.4	9.3	0.0	236	0.00
	BALCO	518	0	12.4	12.4	0.0	516	0.00
	Andhra Pradesh	12049	0	239.1	82.7	1.2	662	0.00
SR	Telangana	12663	0	258.5	135.4	0.9	995	0.00
	Karnataka	13488	0	235.8	67.0	1.6	1200	0.00
	Kerala	4096	0	83.2	62.9	1.2	482	0.00
	Tamil Nadu	17821	0	385.7	191.4	0.2	1003	0.00
	Puducherry	489	0	10.7	10.1	-0.2	24	0.00
	Bihar	6153	0	120.3	116.5	-1.4	251	0.83
ER	DVC	3337	0	72.1	-34.5	-0.5	293	0.00
	Jharkhand	1532	114	33.8	29.3	0.6	131	1.14
	Odisha	6778	0	120.2	44.4	-1.3	487	0.00
	West Bengal	8370	0	185.8	58.3	-3.2	361	0.00
	Sikkim	81	0	1.0	1.1	-0.1	9	0.00
	Railways ER ISTS	13	0	0.1	0.1	0.0	8	0.00
NER	Arunachal Pradesh	160	0	2.9	2.8	-0.4	24	0.00
	Assam	2187	0	40.3	32.9	0.3	173	0.00
	Manipur	175	0	2.5	2.6	-0.1	19	0.00
	Meghalaya	304	21	5.1	1.4	-0.1	28	0.35
	Mizoram	105	0	1.6	1.7	-0.4	5	0.00
	Nagaland	169	0	2.7	2.6	-0.1	10	0.00
	Tripura	277	0	4.7	4.8	-0.2	38	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	37.9	8.7	-23.9	-27.6
Day Peak (MW)	1784.7	467.0	-1067.0	-1232.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	304.5	-339.7	174.5	-132.2	-7.1	0.0
Actual(MU)	270.9	-342.1	209.2	-135.9	-8.3	-6.3
O/D/U/D(MU)	-33.6	-2.5	34.8	-3.7	-1.2	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3992	14725	6258	3680	271	28926	45
State Sector	5830	16338	10348	2770	152	35438	55
Total	9822	31063	16606	6450	423	64364	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	673	1240	503	595	13	3022	60
Lignite	26	9	59	0	0	94	2
Hydro	419	105	108	140	33	805	16
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	28	21	6	0	29	83	2
RES (Wind, Solar, Biomass & Others)	220	312	329	4	1	866	17
Total	1396	1736	1076	738	75	5021	100

Share of RES in total generation (%)	15.78	17.95	30.62	0.48	1.08	17.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.91	26.89	47.21	19.47	45.09	36.27

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.081

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	208776	11:46	40
Non-Solar hr	209855	19:45	1115

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: 08-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	11.7	-11.7
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	581	546	0.0	3.6	-3.6
4	765 kV	SASARAM-FATEHPUR	1	343	391	0.0	6.0	-6.0
5	765 kV	GAYA-BALIA	1	0	574	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	58	24	0.5	0.0	0.5
7	400 kV	PUSAULI-ALLAHABAD	1	17	65	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	916	0.0	15.1	-15.1
9	400 kV	PATNA-BALIA	2	0	608	0.0	10.1	-10.1
10	400 kV	NAUBATPUR-BALIA	2	0	636	0.0	10.3	-10.3
11	400 kV	BIHARSHARIFF-BALIA	2	12	328	0.0	4.0	-4.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	513	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	161	265	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	129	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	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHUPURI	1	0	24	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.9	81.9	-81.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1610	0	27.4	0.0	27.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	775	1065	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	27	362	0.0	2.9	-2.9
4	400 kV	JHARSUGUDA-RAIGARH	4	227	247	0.0	0.0	0.0
5	400 kV	RANCHI-SIPAT	2	224	306	0.8	0.0	0.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	241	0	2.1	0.0	2.1
ER-WR						34.4	3.5	30.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	41.3	-41.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3008	0.0	47.3	-47.3
4	400 kV	TALCHER-I/C	2	0	1131	0.0	17.6	-17.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	101.1	-101.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	55	260	0.1	2.5	-2.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	171	254	0.0	3.3	-3.3
3	220 kV	ALIPURDUAR-SALAKATI	2	7	75	0.0	1.0	-1.0
ER-NER						0.1	6.9	-6.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	0	703	0.0	16.7	-16.7
NER-NR						0.0	16.7	-16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2009	0.0	47.9	-47.9
2	HVDC	VINDHYACHAL B/B	-	438	100	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	16.4	-16.4
4	765 kV	GWALIOR-AGRA	2	0	2427	0.0	33.8	-33.8
5	765 kV	GWALIOR-PHAGI	2	949	1078	3.9	11.4	-7.5
6	765 kV	JABALPUR-ORAI	2	46	1038	0.0	21.8	-21.8
7	765 kV	GWALIOR-ORAI	1	619	0	9.5	0.0	9.5
8	765 kV	SATNA-ORAI	1	0	1096	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	137	1631	0.0	18.0	-18.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3019	0.0	49.4	-49.4
11	400 kV	ZERDA-KANKROLI	1	158	190	1.3	1.4	-0.1
12	400 kV	ZERDA-BHINMAL	1	627	105	5.8	0.3	5.5
13	400 kV	VINDHYACHAL-RIHAND	1	943	0	12.2	0.0	12.2
14	400 kV	RAPP-SHUJALPUR	2	231	556	1.5	4.4	-2.9
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	112	36	1.1	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	82	42	0.7	0.0	0.6
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	225.2	-177.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	990	1005	0.0	17.1	-17.1
2	HVDC	RAIGARH-PUGALUR	2	0	6027	0.0	85.7	-85.7
3	765 kV	SOLAPUR-RAICHUR	2	588	2034	1.8	9.7	-7.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3337	0.0	44.3	-44.3
5	400 kV	KOLHAPUR-KUDGI	2	1427	0	18.5	0.0	18.5
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	123	2.3	0.0	2.3
WR-SR						22.6	156.7	-134.1

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)	619	0	563	13.50
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1055	846	960	23.05
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	170	79	123	2.96
	NER	132kV GELEPHU-SALAKATI	-35	-20	-24	-0.58
	NER	132kV MOTANGA-RANGIA	-67	-14	-45	-1.08
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	18	0.42
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	537	239	345	8.28
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-914	-824	-866	-20.78
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1233	-987	-1150	-27.60
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-153	0	-130	-3.12

