



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: 07th 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 06.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-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)	68983	51945	46645	26061	3030	196664
Peak Shortage (MW)	0	0	0	0	16	16
Energy Met (MU)	1555	1212	1147	559	61	4534
Hydro Gen (MU)	416	98	74	137	34	758
Wind Gen (MU)	72	244	207	-	-	523
Solar Gen (MU)*	124.65	40.09	125.82	4.35	0.64	296
Energy Shortage (MU)	0.23	0.00	0.00	0.19	0.42	0.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	71452	54214	54523	27495	3076	198671
Time Of Maximum Demand Met	00:09	19:35	11:49	00:01	19:27	00:09

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	0.027	0.00	0.00	1.19	1.19	79.45	19.36

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	14210	0	316.6	192.1	-1.3	222	0.00
	Haryana	10878	0	225.3	180.8	-1.1	216	0.00
	Rajasthan	13671	0	301.9	73.0	-4.2	273	0.00
	Delhi	6169	0	123.9	110.3	-1.8	104	0.00
	UP	23072	0	453.8	226.2	-1.0	627	0.00
	Uttarakhand	1832	0	40.3	16.0	0.2	167	0.07
	HP	1576	14	33.2	-1.9	-0.3	134	0.16
	J&K(UT) & Ladakh(UT)	2454	0	49.9	25.4	-1.5	103	0.00
	Chandigarh	303	0	6.3	6.4	-0.1	21	0.00
Railways_NR ISTS	162	0	3.2	3.6	-0.3	1	0.00	
WR	Chhattisgarh	4340	0	95.3	35.6	-2.1	292	0.00
	Gujarat	15230	0	350.6	147.1	0.0	640	0.00
	MP	9832	0	211.3	70.4	-5.7	370	0.00
	Maharashtra	21868	0	482.5	171.5	-4.4	557	0.00
	Goa	583	0	12.0	12.1	-0.4	51	0.00
	DNHDDPDCL	1204	0	28.5	28.3	0.2	63	0.00
	AMNSIL	929	0	19.7	9.3	0.2	313	0.00
	BALCO	521	0	12.4	12.7	-0.3	1	0.00
SR	Andhra Pradesh	11752	0	232.7	74.7	-0.4	568	0.00
	Telangana	11912	0	249.0	123.3	2.2	535	0.00
	Karnataka	12193	0	212.2	57.6	0.3	512	0.00
	Kerala	3757	0	75.6	60.5	1.4	263	0.00
	Tamil Nadu	16385	0	367.5	172.5	-4.3	270	0.00
	Puducherry	445	0	10.2	9.7	-0.2	42	0.00
ER	Bihar	6815	0	138.3	133.1	-2.2	167	0.00
	DVC	3364	0	71.8	-36.3	-0.3	303	0.00
	Jharkhand	1663	0	35.4	31.8	-0.3	140	0.19
	Odisha	6816	0	122.1	49.0	-1.7	297	0.00
	West Bengal	9323	0	190.6	63.3	-3.2	397	0.00
	Sikkim	56	0	0.7	0.9	-0.2	5	0.00
	Railways_ER ISTS	13	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	155	0	2.9	3.0	-0.6	5	0.00
	Assam	2073	0	40.7	33.5	0.4	144	0.00
	Manipur	175	0	2.4	2.6	-0.1	18	0.00
	Meghalaya	317	7	5.7	1.9	-0.2	70	0.42
	Mizoram	105	0	1.6	1.7	-0.4	8	0.00
	Nagaland	158	0	2.9	2.6	0.1	21	0.00
	Tripura	275	0	4.4	4.8	-0.1	31	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	43.3	8.1	-25.5	-29.1
Day Peak (MW)	1857.0	430.0	-1078.0	-1261.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.6	-326.1	145.0	-107.6	-6.8	0.0
Actual(MU)	270.0	-328.4	164.8	-107.4	-6.3	-7.3
O/D/U/D(MU)	-25.6	-2.2	19.8	0.3	0.5	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5414	13874	6168	2560	271	28287	44
State Sector	6740	16928	9048	2620	131	35467	56
Total	12153	30802	15216	5180	402	63754	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	661	1185	499	595	11	2952	61
Lignite	26	8	47	0	0	81	2
Hydro	416	98	74	137	34	758	16
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	26	12	6	0	28	72	1
RES (Wind, Solar, Biomass & Others)	203	285	358	6	1	854	18
Total	1361	1638	1055	739	74	4867	100

Share of RES in total generation (%)	14.94	17.43	33.93	0.84	0.86	17.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	47.62	26.45	47.66	19.37	46.25	36.20

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.060
Based on State Max Demands	1.090

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	198172	11:50	42
Non-Solar hr	198671	0:09	58

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: 07-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	12.5	-12.5
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	493	443	0.0	0.5	-0.5
4	765 kV	SASARAM-FATEHPUR	1	48	323	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	605	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	58	23	0.3	0.0	0.3
7	400 kV	PUSAULI -ALLAHABAD	1	16	67	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	13.9	-13.9
9	400 kV	PATNA-BALIA	2	0	630	0.0	10.7	-10.7
10	400 kV	NAUBATPUR-BALIA	2	0	667	0.0	9.9	-9.9
11	400 kV	BIHARSHARIFF-BALIA	2	27	320	0.0	3.9	-3.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	509	0.0	7.9	-7.9
13	400 kV	BIHARSHARIFF-VARANASI	2	134	268	0.0	2.0	-2.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	119	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	75.1	-74.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1790	0	30.6	0.0	30.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	888	564	9.9	0.0	9.9
3	765 kV	JHARSUGUDA-DURG	2	137	229	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	282	52	3.2	0.0	3.2
5	400 kV	RANCHI-SIPAT	2	248	107	2.8	0.0	2.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	151	0	2.4	0.0	2.4
ER-WR						48.9	1.0	47.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	707	0.0	11.8	-11.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	38.8	-38.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2737	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	0	1215	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	95.7	-95.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	30	188	0.1	1.5	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	51	248	0.0	2.1	-2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	1	70	0.0	0.9	-0.9
ER-NER						0.1	4.6	-4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3021	0.0	51.1	-51.1
2	HVDC	VINDHYACHAL B/B	-	434	0	1.6	0.0	1.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	494	0.0	8.5	-8.5
4	765 kV	GWALIOR-AGRA	2	0	2784	0.0	35.2	-35.2
5	765 kV	GWALIOR-PHAGI	2	1048	1239	5.1	13.4	-8.3
6	765 kV	JABALPUR-ORAI	2	0	1121	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	728	9	9.8	0.0	9.8
8	765 kV	SATNA-ORAI	1	0	1116	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	253	1785	0.2	17.4	-17.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3142	0.0	58.2	-58.2
11	400 kV	ZERDA-KANKROLI	1	166	218	0.8	1.2	-0.4
12	400 kV	ZERDA-BHINMAL	1	512	160	4.8	0.6	4.2
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	19.4	0.0	19.4
14	400 kV	RAPP-SHUJALPUR	2	288	600	1.7	4.4	-2.7
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	81	0	0.8	0.0	0.8
18	220 kV	MALANPUR-AURAIYA	1	60	16	0.4	0.0	0.4
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						44.5	231.4	-186.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1001	0.0	10.0	-10.0
2	HVDC	RAIGARH-PUGALUR	2	0	5509	0.0	58.0	-58.0
3	765 kV	SOLAPUR-RAICHUR	2	740	1688	1.5	9.0	-7.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2801	0.0	42.4	-42.4
5	400 kV	KOLHAPUR-KUDGI	2	1283	0	22.7	0.0	22.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	45	0.0	0.7	-0.7
8	220 kV	XELDEM-AMBEWADI	1	0	118	2.2	0.0	2.2
WR-SR						26.4	120.0	-93.6

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)	605	556	605	14.74	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1046	0	1004	24.10	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	147	99	119	2.84	
	NER	132kV GELEPHU-SALAKATI	25	15	20	0.49	
	NER	132kV MOTANGA-RANGIA	63	19	48	1.14	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-15	0	11	0.27	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	445	222	325	7.80	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-916	-908	-912	-21.88	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1261	-1159	-1214	-29.13	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-149	-3.58	

