



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: 31st 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 30.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 31-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)	71295	59337	45817	26601	3002	206052
Peak Shortage (MW)	170	30	2098	1151	559	4008
Energy Met (MU)	1668	1497	1234	609	65	5073
Hydro Gen (MU)	366	110	120	139	40	775
Wind Gen (MU)	16	71	60	-	-	147
Solar Gen (MU)*	138.01	58.30	115.37	5.90	1.51	319
Energy Shortage (MU)	7.90	18.40	12.80	17.29	3.83	60.22
Maximum Demand During the Day (MW) (From NLDC SCADA)	74657	68090	62678	28176	3216	233289
Time Of Maximum Demand Met	11:26	11:35	11:16	23:24	18:25	11:40

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	0.131	3.56	5.54	15.99	25.10	66.07	8.83

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	13179	0	287.3	156.0	-0.9	145	0.00
	Haryana	11107	0	240.7	172.8	-1.1	174	3.59
	Rajasthan	15980	0	335.3	111.9	3.1	628	2.37
	Delhi	6352	0	130.7	112.2	-2.2	197	0.00
	UP	24849	0	534.5	223.1	-2.8	276	0.00
	Uttarakhand	2050	0	44.3	19.3	-0.3	147	0.33
	HP	1637	0	34.3	2.1	1.2	156	0.00
	J&K(UT) & Ladakh(UT)	2480	0	50.9	23.3	3.3	442	1.61
	Chandigarh	314	0	6.5	6.5	0.0	39	0.00
Railways_NR ISTS	167	0	3.3	2.1	1.1	98	0.00	
WR	Chhattisgarh	5677	93	132.0	67.5	0.2	334	1.22
	Gujarat	19320	0	431.4	163.6	1.8	818	0.00
	MP	13396	0	294.3	159.5	4.8	1021	0.00
	Maharashtra	27395	691	565.7	202.4	0.5	1039	17.09
	Goa	645	0	13.3	13.0	0.2	139	0.09
	DNHDDPDCL	1255	0	27.4	27.6	-0.2	42	0.00
	AMNSIL	912	0	20.5	10.0	0.3	285	0.00
	BALCO	518	0	12.4	12.4	0.0	5	0.00
SR	Andhra Pradesh	12377	0	240.4	94.9	6.3	1048	4.13
	Telangana	14428	0	273.4	120.8	2.7	749	0.00
	Karnataka	16932	0	278.3	108.8	7.4	1211	5.91
	Kerala	3902	0	80.3	54.7	0.8	235	0.00
	Tamil Nadu	16274	0	351.0	181.6	4.2	1474	2.76
	Puducherry	448	0	10.3	9.4	0.2	90	0.00
ER	Bihar	6881	346	146.6	141.5	-0.4	264	9.52
	DVC	3673	0	77.6	-38.7	-1.5	337	0.00
	Jharkhand	1748	0	37.3	30.6	1.8	289	7.31
	Odisha	5540	220	117.3	39.4	0.4	494	0.46
	West Bengal	10642	0	229.0	108.0	2.2	539	0.00
	Sikkim	86	0	1.3	1.1	0.2	28	0.00
Railways_ER ISTS	18	0	0.1	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	168	0	3.1	2.6	0.0	36	0.00
	Assam	2026	414	43.0	32.8	3.2	315	3.33
	Manipur	202	0	2.8	2.7	0.1	44	0.00
	Meghalaya	296	35	5.2	0.4	-0.3	43	0.50
	Mizoram	121	0	1.9	1.4	-0.8	7	0.00
	Nagaland	170	0	3.1	2.8	0.1	10	0.00
	Tripura	334	0	6.3	6.2	0.2	52	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.4	10.0	-24.9	-30.3
Day Peak (MW)	1816.0	385.0	-1101.0	-1429.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	260.4	-282.3	160.2	-124.6	-13.7	0.0
Actual(MU)	221.8	-284.0	190.9	-117.6	-11.5	-0.3
O/D/U/D(MU)	-38.6	-1.7	30.7	7.0	2.2	-0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2177	9979	5758	2100	315	20328	43
State Sector	4645	11973	6338	3500	254	26709	57
Total	6821	21952	12096	5600	568	47037	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	914	1519	691	651	15	3790	70
Lignite	24	13	39	0	0	76	1
Hydro	366	110	120	139	40	775	14
Nuclear	26	53	51	0	0	131	2
Gas, Naptha & Diesel	48	71	6	0	28	153	3
RES (Wind, Solar, Biomass & Others)	123	133	215	8	2	480	9
Total	1501	1900	1122	798	84	5406	100

Share of RES in total generation (%)	8.20	6.98	19.14	1.00	1.79	8.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.32	15.60	34.40	18.44	49.02	25.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	233289	11:40	811
Non-Solar hr	208883	22:29	4214

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: 31-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	802	0.0	18.8	-18.8
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	299	171	1.1	0.0	1.1
4	765 kV	SASARAM-FATEHPUR	1	0	304	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	0	467	0.0	5.6	-5.6
6	400 kV	PUSAULI-VARANASI	1	0	113	0.0	2.0	-2.0
7	400 kV	PUSAULI-ALLAHABAD	1	10	48	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	698	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	2	0	472	0.0	9.5	-9.5
10	400 kV	NAUBATPUR-BALIA	2	0	478	0.0	9.4	-9.4
11	400 kV	BIHARSHARIFF-BALIA	2	76	201	0.0	1.9	-1.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	414	0.0	7.6	-7.6
13	400 kV	BIHARSHARIFF-VARANASI	2	95	129	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	132	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	0.5	0.0	0.5
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						1.7	75.8	-74.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1583	0	20.0	0.0	20.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1205	308	14.8	0.0	14.8
3	765 kV	JHARSUGUDA-DURG	2	97	307	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	490	0.0	7.3	-7.3
5	400 kV	RANCHI-SIPAT	2	215	130	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	206	0.0	3.8	-3.8
7	220 kV	BUDHIPADAR-KORBA	2	36	13	0.2	0.0	0.2
ER-WR						36.4	13.4	23.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	545	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	45.1	-45.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2304	0.0	42.9	-42.9
4	400 kV	TALCHER-I/C	2	181	656	0.0	11.5	-11.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	100.4	-100.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	113	240	0.3	1.5	-1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	276	244	0.9	0.0	0.9
3	220 kV	ALIPURDUAR-SALAKATI	2	35	62	0.0	0.2	-0.2
ER-NER						1.2	1.7	-0.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.4	-13.4
NER-NR						0.0	13.4	-13.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3528	0.0	58.5	-58.5
2	HVDC	VINDHYACHAL B/B	-	181	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	976	0.0	12.8	-12.8
4	765 kV	GWALIOR-AGRA	2	184	1786	0.1	19.3	-19.2
5	765 kV	GWALIOR-PHAGI	2	220	1248	0.6	15.8	-15.2
6	765 kV	JABALPUR-ORAI	2	0	760	0.0	17.6	-17.6
7	765 kV	GWALIOR-ORAI	1	819	0	15.6	0.0	15.6
8	765 kV	SATNA-ORAI	1	0	788	0.0	15.6	-15.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1283	486	8.8	2.4	6.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2949	0.0	49.6	-49.6
11	400 kV	ZERDA-KANKROLI	1	226	103	1.7	0.4	1.3
12	400 kV	ZERDA -BHINMAL	1	436	285	2.8	1.9	0.9
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	359	413	2.1	3.0	-0.8
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	131	0	2.3	0.0	2.3
18	220 kV	MALANPUR-AURAIYA	1	99	0	1.6	0.0	1.6
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						62.4	199.4	-137.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	21.0	-21.0
2	HVDC	RAIGARH-PUGALUR	2	0	5010	0.0	64.8	-64.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1770	0.0	22.3	-22.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2470	0.0	41.5	-41.5
5	400 kV	KOLHAPUR-KUDGI	2	1146	0	20.6	0.0	20.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	67	0.0	0.8	-0.8
8	220 kV	XELDEM-AMBEWADI	1	0	114	0.0	2.2	2.2
WR-SR						22.8	150.4	-127.5

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)	745	446	618	14.84	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1018	0	929	22.30	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	99	32	74	1.78	
	NER	132kV GELEPHU-SALAKATI	18	-10	13	0.30	
	NER	132kV MOTANGA-RANGIA	56	38	49	1.18	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	13	0.32	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	449	129	403	9.66	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-805	-895	-21.47	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1429	-891	-1263	-30.32	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-141	-3.38	

