



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: 01st September 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 31.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-Sep-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)	72504	64346	45977	26563	3089	212479
Peak Shortage (MW)	1794	2976	1071	912	565	7318
Energy Met (MU)	1691	1530	1216	622	67	5126
Hydro Gen (MU)	362	112	114	137	39	764
Wind Gen (MU)	21	52	54	-	-	127
Solar Gen (MU)*	141.14	59.70	115.69	2.58	1.26	320
Energy Shortage (MU)	22.30	40.94	11.61	10.62	4.62	90.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76022	71708	61657	27795	3302	236598
Time Of Maximum Demand Met	14:05	11:03	11:51	00:42	18:23	12:11

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	0.125	2.94	5.09	17.13	25.16	69.68	5.16

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	13699	0	294.3	159.9	-0.3	130	0.00
	Haryana	11051	494	242.7	172.1	0.2	190	7.35
	Rajasthan	16553	0	338.1	120.0	1.0	418	9.49
	Delhi	6523	0	132.3	114.9	-2.8	175	0.00
	UP	25230	220	541.0	225.0	-4.3	1889	1.38
	Uttarakhand	2144	0	44.3	18.4	0.1	133	0.59
	HP	1652	0	35.7	1.8	1.5	227	0.00
	J&K(UT) & Ladakh(UT)	2468	80	51.8	24.7	3.0	394	3.49
	Chandigarh	356	0	7.0	6.8	0.3	76	0.00
Railways NR ISTS	167	0	3.4	3.0	0.4	51	0.00	
WR	Chhattisgarh	5669	0	130.8	69.3	0.8	384	2.59
	Gujarat	22972	0	460.5	178.1	0.4	1136	0.00
	MP	13605	0	297.4	162.7	5.6	1085	0.00
	Maharashtra	27996	2986	566.7	200.7	1.6	1142	38.31
	Goa	644	0	13.6	13.3	0.2	97	0.04
	DNHDDPDCL	1236	0	28.1	28.8	-0.7	11	0.00
	AMNSIL	905	0	20.1	9.4	0.2	291	0.00
BALCO	519	0	12.4	12.4	0.0	30	0.00	
SR	Andhra Pradesh	12172	0	231.6	87.2	8.5	963	5.51
	Telangana	14816	0	278.2	125.3	2.0	782	0.00
	Karnataka	15859	600	268.3	101.0	8.5	1327	6.10
	Kerala	4006	0	84.1	60.6	-0.1	227	0.00
	Tamil Nadu	15813	0	344.7	172.8	-0.4	1136	0.00
	Puducherry	397	0	9.4	9.2	-0.6	35	0.00
ER	Bihar	6924	421	154.3	149.4	-0.6	306	3.00
	DVC	3643	0	78.0	-40.2	-1.8	223	0.00
	Jharkhand	1701	0	35.9	31.2	2.0	234	7.62
	Odisha	5594	0	124.8	41.1	0.8	418	0.00
	West Bengal	10540	0	227.3	105.9	6.1	776	0.00
	Sikkim	88	0	1.3	1.1	0.2	36	0.00
Railways ER ISTS	0	0	0.1	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	171	0	3.0	2.4	0.1	44	0.00
	Assam	2106	230	45.1	34.4	3.3	261	4.00
	Manipur	201	0	2.8	2.8	0.0	37	0.00
	Meghalaya	292	52	5.3	0.3	-0.1	60	0.62
	Mizoram	120	0	1.8	1.3	-0.7	45	0.00
	Nagaland	169	0	2.9	2.7	-0.1	11	0.00
Tripura	332	0	6.2	6.2	0.2	59	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	31.4	11.0	-25.0	-33.1
Day Peak (MW)	1895.9	516.0	-1108.0	-1472.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	275.5	-278.9	133.5	-117.9	-12.2	0.0
Actual(MU)	236.5	-276.3	152.9	-110.9	-11.0	-8.8
O/D/U/D(MU)	-39.1	2.6	19.4	7.0	1.2	-8.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1831	9114	5258	1900	255	18357	47
State Sector	3785	8728	4038	4100	167	20818	53
Total	5616	17842	9296	6000	422	39175	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	915	1555	711	654	17	3852	70
Lignite	24	13	40	0	0	77	1
Hydro	362	112	114	137	39	764	14
Nuclear	29	54	62	0	0	144	3
Gas, Naptha & Diesel	52	85	6	0	28	171	3
RES (Wind, Solar, Biomass & Others)	169	115	209	5	1	499	9
Total	1551	1933	1142	796	86	5508	100

Share of RES in total generation (%)	10.90	5.95	18.33	0.58	1.47	9.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.09	14.53	33.67	17.85	46.76	25.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
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	236598	12:11	1018
Non-Solar hr	212975	22:21	8062

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: 01-Sep-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	800	0.0	20.3	-20.3
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.2	-2.2
3	765 kV	GAYA-VARANASI	2	130	216	0.0	0.3	-0.3
4	765 kV	SASARAM-FATEHPUR	1	0	277	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	512	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	131	0.0	2.2	-2.2
7	400 kV	PUSAULI-ALLAHABAD	1	26	45	0.0	0.0	0.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	606	0.0	10.0	-10.0
9	400 kV	PATNA-BALIA	2	0	485	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	0	494	0.0	9.7	-9.7
11	400 kV	BIHARSHARIFF-BALIA	2	74	129	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	395	0.0	7.1	-7.1
13	400 kV	BIHARSHARIFF-VARANASI	2	84	96	0.0	0.2	-0.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	118	0.0	1.6	-1.6
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						0.5	76.5	-76.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1446	0	20.7	0.0	20.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1192	0	15.2	0.0	15.2
3	765 kV	JHARSUGUDA-DURG	2	87	185	0.0	1.1	-1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	486	0.0	7.0	-7.0
5	400 kV	RANCHI-SIPAT	2	211	72	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	212	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	31	65	0.0	0.4	-0.4
ER-WR						36.9	10.8	26.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	10.1	-10.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2124	0.0	36.0	-36.0
4	400 kV	TALCHER-I/C	2	0	642	0.0	14.4	-14.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	94.2	-94.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	48	246	0.0	1.5	-1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	199	201	0.6	0.0	0.6
3	220 kV	ALIPURDUAR-SALAKATI	2	27	55	0.0	0.3	-0.3
ER-NER						0.6	1.8	-1.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	552	0.0	13.5	-13.5
NER-NR						0.0	13.5	-13.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3013	0.0	64.7	-64.7
2	HVDC	VINDHYACHAL B/B	-	181	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1216	0.0	21.9	-21.9
4	765 kV	GWALIOR-AGRA	2	0	1805	0.0	20.5	-20.5
5	765 kV	GWALIOR-PHAGI	2	0	1330	0.0	18.3	-18.3
6	765 kV	JABALPUR-ORAI	2	0	807	0.0	20.2	-20.2
7	765 kV	GWALIOR-ORAI	1	832	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	818	0.0	16.3	-16.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1845	528	12.1	0.0	12.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3019	0.0	50.6	-50.6
11	400 kV	ZERDA-KANKROLI	1	291	102	2.3	0.4	1.8
12	400 kV	ZERDA -BHINMAL	1	570	237	2.1	0.0	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUJALPUR	2	333	426	0.0	1.5	-1.5
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	134	0	2.6	0.0	2.6
18	220 kV	MALANPUR-AURAIYA	1	102	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						64.6	216.7	-152.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4010	0.0	60.0	-60.0
3	765 kV	SOLAPUR-RAICHUR	2	761	1651	2.7	8.6	-5.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2417	0.0	32.0	-32.0
5	400 kV	KOLHAPUR-KUDGI	2	1482	0	25.9	0.0	25.9
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	1	123	2.1	0.0	2.1
WR-SR						30.7	124.5	-93.8

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)	642	432	548	13.16	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1011	0	630	15.11	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	102	25	70	1.67	
	NER	132kV GELEPHU-SALAKATI	16	0	11	0.27	
	NER	132kV MOTANGA-RANGIA	61	18	49	1.18	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-2	0	25	0.60	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	518	323	432	10.36	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-935	-810	-892	-21.41	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1472	-1291	-1380	-33.12	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-173	0	-148	-3.56	

