



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: 18th 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 17.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	72683	60369	49500	24448	3277	210277
Peak Shortage (MW)	4254	1724	0	976	301	7255
Energy Met (MU)	1754	1484	1251	567	66	5122
Hydro Gen (MU)	413	120	84	138	33	789
Wind Gen (MU)	39	187	193	-	-	420
Solar Gen (MU)*	123.16	49.59	120.66	1.36	1.28	296
Energy Shortage (MU)	32.87	8.88	5.55	3.90	2.76	53.96
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	80056	68677	61020	26003	3503	234058
Time Of Maximum Demand Met	14:28	11:24	10:38	21:14	18:42	14:34

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	0.029	0.00	0.00	1.26	1.26	72.05	26.69

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	14573	0	314.2	176.5	0.2	166	0.00
	Haryana	12484	0	262.1	198.4	0.4	172	8.92
	Rajasthan	16911	0	342.8	115.0	2.5	332	11.42
	Delhi	6912	0	139.1	120.2	-2.5	199	0.00
	UP	25220	800	552.7	252.6	0.5	623	10.35
	Uttarakhand	2099	0	46.0	25.2	0.8	154	2.18
	HP	1583	0	33.9	-2.3	-0.4	115	0.00
	J&K(UT) & Ladakh(UT)	2540	0	52.2	28.0	-1.6	294	0.00
	Chandigarh	397	0	7.6	7.4	0.2	24	0.00
Railways_NR ISTS	161	0	3.3	3.0	0.3	50	0.00	
WR	Chhattisgarh	5757	0	127.2	72.5	-2.1	305	0.55
	Gujarat	20991	0	441.9	154.6	-8.4	628	0.00
	MP	12604	0	274.3	143.9	-3.7	496	0.00
	Maharashtra	26056	0	564.9	208.1	-0.4	907	8.33
	Goa	636	0	13.3	13.2	-0.3	36	0.00
	DNHDDPDCL	1327	0	30.7	30.7	0.0	53	0.00
	AMNSIL	896	0	18.8	7.8	0.6	332	0.00
	BALCO	521	0	12.4	12.5	-0.1	9	0.00
SR	Andhra Pradesh	11988	0	237.1	84.3	0.8	583	0.00
	Telangana	13262	0	268.6	137.8	1.4	772	0.00
	Karnataka	15966	0	282.1	106.3	2.5	1159	5.55
	Kerala	4233	0	86.5	66.1	2.2	313	0.00
	Tamil Nadu	17244	0	366.7	141.6	-1.5	448	0.00
	Puducherry	458	0	9.9	9.5	-0.3	20	0.00
ER	Bihar	6874	207	137.3	136.5	-1.7	486	3.15
	DVC	3401	0	73.3	-41.3	0.0	587	0.00
	Jharkhand	1669	0	36.4	31.3	0.8	275	0.75
	Odisha	4939	0	111.1	41.4	-0.7	293	0.00
	West Bengal	9484	0	208.2	85.4	-2.0	193	0.00
	Sikkim	83	0	1.2	1.0	0.2	36	0.00
	Railways_ER ISTS	0	0	0.0	0.2	-0.2	19	0.00
NER	Arunachal Pradesh	164	0	3.1	2.5	0.0	53	0.00
	Assam	2320	0	45.7	37.5	1.1	316	2.29
	Manipur	191	0	2.7	2.7	0.0	23	0.00
	Meghalaya	286	20	5.2	0.3	-0.2	48	0.47
	Mizoram	106	0	1.9	1.6	-0.3	16	0.00
	Nagaland	166	0	3.0	2.7	-0.1	15	0.00
	Tripura	337	0	5.0	6.4	-0.5	96	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.3	6.8	-24.9	-30.8
Day Peak (MW)	1967.0	422.0	-1101.0	-1375.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	315.2	-340.0	156.6	-126.0	-5.8	0.0
Actual(MU)	293.9	-345.7	174.1	-123.7	-5.1	-6.6
O/D/U/D(MU)	-21.3	-5.8	17.5	2.2	0.7	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1583	9598	6758	2360	305	20604	39
State Sector	6250	14477	6958	3740	193	31617	61
Total	7833	24075	13716	6100	497	52220	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	868	1496	614	612	17	3607	66
Lignite	25	10	42	0	0	76	1
Hydro	413	120	84	138	33	789	14
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	48	57	6	0	28	140	3
RES (Wind, Solar, Biomass & Others)	168	239	331	3	1	742	13
Total	1551	1973	1148	753	79	5505	100

Share of RES in total generation (%)	10.82	12.12	28.85	0.35	1.61	13.48
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.30	20.76	42.37	18.70	43.32	30.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	234058	14:34	236
Non-Solar hr	212716	19:24	6719

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: 18-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	500	0.0	12.8	-12.8
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.1	-2.1
3	765 kV	GAYA-VARANASI	2	244	370	0.0	2.0	-2.0
4	765 kV	SASARAM-FATEHPUR	1	0	267	0.0	4.0	-4.0
5	765 kV	GAYA-BALIA	1	0	595	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	2	90	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	35	80	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	758	0.0	11.8	-11.8
9	400 kV	PATNA-BALIA	2	0	519	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	0	537	0.0	9.3	-9.3
11	400 kV	BIHARSHARIFF-BALIA	2	53	236	0.0	3.3	-3.3
12	400 kV	MOTTHARI-GORAKHPUR	2	0	454	0.0	7.7	-7.7
13	400 kV	BIHARSHARIFF-VARANASI	2	104	151	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	10	116	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	60	62	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.4	75.7	-75.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1672	0	32.3	0.0	32.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1199	439	11.1	0.0	11.1
3	765 kV	JHARSUGUDA-DURG	2	122	246	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	549	0.0	7.2	-7.2
5	400 kV	RANCHI-SIPAT	2	214	229	0.3	0.0	0.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	113	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	128	20	0.1	0.0	0.1
ER-WR						43.8	11.9	31.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	553	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	34.9	-34.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2482	0.0	41.7	-41.7
4	400 kV	TALCHER-I/C	2	0	887	0.0	15.2	-15.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	89.1	-89.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	321	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	13	503	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	100	0.0	1.4	-1.4
ER-NER						0.0	11.2	-11.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4548	0.0	74.6	-74.6
2	HVDC	VINDHYACHAL B/B	-	437	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	70	1994	0.0	23.5	-23.5
5	765 kV	GWALIOR-PHAGI	2	445	1166	1.1	13.6	-12.4
6	765 kV	JABALPUR-ORAI	2	0	1027	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	592	0	10.8	0.0	10.8
8	765 kV	SATNA-ORAI	1	0	993	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	244	1477	0.6	14.2	-13.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3324	0.0	55.5	-55.5
11	400 kV	ZERDA-KANKROLI	1	140	241	0.7	1.5	-0.8
12	400 kV	ZERDA -BHINMAL	1	361	146	1.3	0.5	0.8
13	400 kV	VINDHYACHAL -RIHAND	1	940	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	267	490	1.0	3.3	-2.3
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	143	0	2.4	0.0	2.4
18	220 kV	MALANPUR-AURAIYA	1	106	0	1.7	0.0	1.7
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						46.0	253.3	-207.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	0.0	11.4	-11.4
2	HVDC	RAIGARH-PUGALUR	2	0	5512	0.0	60.5	-60.5
3	765 kV	SOLAPUR-RAICHUR	2	778	1466	1.6	11.0	-9.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2780	0.0	44.8	-44.8
5	400 kV	KOLHAPUR-KUDGI	2	1153	0	17.2	0.0	17.2
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	110	2.1	0.0	2.1
WR-SR						20.9	127.7	-106.8

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)	723	420	562	13.49		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1022	963	979	23.51		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	134	21	100	2.39		
	NER	132kV GELEPHU-SALAKATI	30	4	20	0.49		
	NER	132kV MOTANGA-RANGIA	74	46	60	1.43		
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	0.04		
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00		
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	466	85	284	6.81		
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-785	-897	-21.52		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1375	-1188	-1284	-30.82		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	170	0	-141	-3.39		

