



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: 17th 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 16.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-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)	71998	60622	48339	25993	3203	210155
Peak Shortage (MW)	4119	432	282	747	335	5915
Energy Met (MU)	1703	1461	1212	591	63	5031
Hydro Gen (MU)	409	114	97	144	34	798
Wind Gen (MU)	24	144	129	-	-	296
Solar Gen (MU)*	126.91	50.12	125.49	2.30	0.85	306
Energy Shortage (MU)	25.93	3.00	1.28	4.25	3.19	37.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	78748	67368	60107	26370	3457	233032
Time Of Maximum Demand Met	14:46	11:28	10:53	22:30	18:34	12:54

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	0.026	0.00	0.06	3.55	3.61	79.82	16.57

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	13936	0	305.6	172.9	-0.2	176	0.00
	Haryana	12194	281	250.2	181.8	1.7	439	6.13
	Rajasthan	16273	0	332.8	123.5	-1.1	303	9.02
	Delhi	6780	0	134.4	114.0	-0.2	170	0.00
	UP	25622	1600	543.8	238.0	-1.3	447	9.09
	Uttarakhand	2108	0	43.9	21.1	1.2	155	1.69
	HP	1556	0	30.5	-5.2	0.3	93	0.00
	J&K(UT) & Ladakh(UT)	2507	0	51.4	24.7	1.0	164	0.00
	Chandigarh	373	0	7.3	6.9	0.3	55	0.00
Railways NR ISTS	154	0	3.2	3.2	0.0	55	0.00	
WR	Chhattisgarh	5688	0	130.7	71.5	0.3	467	1.49
	Gujarat	20313	0	427.4	166.1	-2.8	549	0.00
	MP	12092	0	277.7	141.7	0.8	548	0.00
	Maharashtra	25600	0	552.2	185.7	2.2	694	1.51
	Goa	659	0	13.2	12.3	0.5	94	0.00
	DNHDDPDCL	1297	0	27.4	27.2	0.2	72	0.00
	AMNSIL	891	0	20.2	10.5	-0.1	277	0.00
BALCO	521	0	12.4	12.5	-0.1	6	0.00	
SR	Andhra Pradesh	12130	0	235.6	99.4	1.6	648	1.28
	Telangana	12994	0	265.2	131.5	0.6	693	0.00
	Karnataka	15944	0	271.2	90.4	3.6	898	0.00
	Kerala	4182	0	83.9	63.2	1.1	276	0.00
	Tamil Nadu	16722	0	347.9	161.6	-1.7	539	0.00
	Puducherry	407	0	8.6	8.1	-0.2	30	0.00
ER	Bihar	6899	0	148.3	142.2	0.3	381	3.18
	DVC	3432	0	74.9	-46.7	-0.8	252	0.00
	Jharkhand	1698	0	39.3	31.5	2.7	245	1.07
	Odisha	5562	0	116.5	36.7	-0.2	334	0.00
	West Bengal	9766	0	210.6	85.7	-0.6	363	0.00
	Sikkim	80	0	1.2	0.9	0.2	33	0.00
Railways ER ISTS	17	0	0.2	0.1	0.0	8	0.00	
NER	Arunachal Pradesh	170	0	3.0	2.5	0.0	36	0.00
	Assam	2255	180	42.4	32.5	1.9	311	2.70
	Manipur	198	0	2.5	2.7	-0.1	31	0.00
	Meghalaya	304	34	5.4	0.1	-0.2	77	0.49
	Mizoram	114	0	1.7	1.5	-0.5	7	0.00
	Nagaland	168	0	2.9	2.7	0.0	19	0.00
Tripura	310	0	5.5	5.9	0.1	54	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.9	6.8	-25.0	-30.9
Day Peak (MW)	1774.2	371.0	-1098.0	-1373.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	284.9	-326.9	189.2	-136.3	-10.8	0.0
Actual(MU)	265.0	-337.1	206.3	-130.0	-10.4	-6.2
O/D/U/D(MU)	-19.9	-10.2	17.1	6.4	0.5	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1764	8829	7408	2360	305	20666	42
State Sector	6115	12674	7018	2330	142	28279	58
Total	7879	21503	14426	4690	447	48944	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	878	1497	585	638	16	3614	67
Lignite	24	10	41	0	0	75	1
Hydro	409	114	97	144	34	798	15
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	32	52	6	0	30	121	2
RES (Wind, Solar, Biomass & Others)	157	197	278	4	1	636	12
Total	1529	1920	1078	786	82	5395	100

Share of RES in total generation (%)	10.27	10.24	25.76	0.55	1.04	11.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.93	18.79	41.29	18.86	43.02	29.37

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.038

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	233032	12:54	400
Non-Solar hr	213837	19:23	5830

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: 17-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	11.0	-11.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	313	601	0.0	3.0	-3.0
4	765 kV	SASARAM-FATEHPUR	1	0	231	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	541	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	101	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	87	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	771	0.0	12.1	-12.1
9	400 kV	PATNA-BALIA	2	0	497	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	0	505	0.0	9.6	-9.6
11	400 kV	BIHARSHARIFF-BALIA	2	68	262	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	419	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	152	189	0.0	1.2	-1.2
14	220 kV	SAHUPURI-KARAMNANA	1	6	131	0.0	1.3	-1.3
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	40	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	73.3	-72.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1787	0	26.9	0.0	26.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1027	436	10.3	0.0	10.3
3	765 kV	JHARSUGUDA-DURG	2	56	259	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	480	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	162	153	0.6	0.0	0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	3.2	-3.2
7	220 kV	BUDHIPADAR-KORBA	2	76	20	0.0	0.0	0.0
ER-WR						37.8	11.3	26.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	548	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1997	0.0	44.5	-44.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2282	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	0	1251	0.0	25.6	-25.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	98.5	-98.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	82	277	0.2	1.8	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	133	394	0.0	2.4	-2.4
3	220 kV	ALIPURDUAR-SALAKATI	2	7	92	0.0	0.8	-0.8
ER-NER						0.2	4.9	-4.7
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-KIRUKSHETRA	2	0	4036	0.0	73.4	-73.4
2	HVDC	VINDHYACHAL B/B	-	440	0	11.7	0.0	11.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	975	0.0	12.3	-12.3
4	765 kV	GWALIOR-AGRA	2	108	1890	0.1	22.1	-22.1
5	765 kV	GWALIOR-PHAGI	2	448	1346	0.9	15.4	-14.5
6	765 kV	JABALPUR-ORAI	2	2	984	0.0	24.3	-24.3
7	765 kV	GWALIOR-ORAI	1	638	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	955	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1172	1115	3.7	8.0	-4.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	3095	0.0	54.4	-54.4
11	400 kV	ZERDA-KANKROLI	1	219	165	1.1	1.0	0.1
12	400 kV	ZERDA-BHINMAL	1	385	321	2.1	2.5	-0.4
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	217	578	0.8	3.5	-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	2.6	-2.6
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	93	0	1.1	0.0	1.1
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						56.8	238.2	-181.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	15.2	-15.2
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	85.3	-85.3
3	765 kV	SOLAPUR-RAICHUR	2	889	1280	1.4	9.0	-7.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2625	0.0	42.9	-42.9
5	400 kV	KOLHAPUR-KUDGI	2	1381	0	19.8	0.0	19.8
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	112	2.1	0.0	2.1
WR-SR						23.3	152.4	-129.1

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	713	417	585	14.04	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1045	974	996	23.91	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	147	68	116	2.79	
	NER	132kV GELEPHU-SALAKATI	-28	8	-22	-0.53	
	NER	132kV MOTANGA-RANGIA	-64	-42	-53	-1.28	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-4	-0.09	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	426	142	286	6.87	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-811	-899	-21.58	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1373	-1204	-1288	-30.91	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-170	0	-141	-3.39	

