



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: 29th 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 28.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-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)	73922	62501	48681	27419	3069	215592
Peak Shortage (MW)	221	0	0	236	110	567
Energy Met (MU)	1627	1516	1246	604	57	5050
Hydro Gen (MU)	379	104	73	136	40	732
Wind Gen (MU)	70	219	158	-	-	447
Solar Gen (MU)*	130.68	56.34	128.15	2.87	0.71	319
Energy Shortage (MU)	1.38	0.00	0.00	2.04	0.61	4.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	75275	69312	60783	28219	3218	229194
Time Of Maximum Demand Met	22:29	15:02	11:55	20:36	18:29	14:55

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	0.036	0.00	0.00	1.83	1.83	76.37	21.80

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	12736	0	272.2	154.5	-4.6	441	0.00
	Haryana	11296	0	236.9	161.6	-1.6	209	0.00
	Rajasthan	16193	0	349.8	98.7	-6.2	516	0.00
	Delhi	6426	0	128.4	115.9	-2.2	81	0.00
	UP	25620	0	503.9	229.8	-0.8	575	0.00
	Uttarakhand	2137	0	46.0	19.9	-0.2	210	0.15
	HP	1607	0	33.1	1.4	-0.3	72	0.10
	J&K(UT) & Ladakh(UT)	2316	122	47.5	23.9	2.7	456	1.13
	Chandigarh	294	0	6.0	6.7	-0.7	6	0.00
Railways NR ISTS	169	0	3.4	3.4	0.0	23	0.00	
WR	Chhattisgarh	5827	0	133.5	71.7	-0.1	264	0.00
	Gujarat	22776	0	463.7	188.4	-5.9	990	0.00
	MP	12463	0	282.0	142.4	-2.7	479	0.00
	Maharashtra	25766	0	561.7	204.4	-3.9	798	0.00
	Goa	628	0	13.1	13.1	-0.1	197	0.00
	DNHDDPDCL	1299	0	29.8	29.7	0.1	83	0.00
	AMNSIL	885	0	19.7	11.2	-0.4	274	0.00
	BALCO	520	0	12.4	12.4	0.0	34	0.00
SR	Andhra Pradesh	11341	0	238.1	80.4	-0.3	565	0.00
	Telangana	13466	0	258.8	113.5	-0.6	540	0.00
	Karnataka	15754	0	289.4	116.6	-0.1	893	0.00
	Kerala	4068	0	84.4	68.5	1.1	226	0.00
	Tamil Nadu	17716	0	365.4	175.3	-3.1	733	0.00
	Puducherry	432	0	9.8	9.5	-0.4	41	0.00
ER	Bihar	7121	0	142.2	137.1	-0.2	346	1.25
	DVC	3479	0	75.9	-33.1	0.0	393	0.00
	Jharkhand	1817	128	41.1	33.6	2.3	199	0.79
	Odisha	6117	0	134.6	58.0	-1.2	357	0.00
	West Bengal	10043	0	209.5	94.6	-2.2	282	0.00
	Sikkim	83	0	1.0	1.2	-0.2	20	0.00
Railways ER ISTS	22	0	0.1	0.1	0.0	15	0.00	
NER	Arunachal Pradesh	152	0	2.7	2.2	0.0	48	0.00
	Assam	2006	150	35.9	26.6	1.2	130	0.55
	Manipur	196	0	2.7	2.5	0.2	39	0.00
	Meghalaya	373	0	5.2	0.3	-0.2	52	0.06
	Mizoram	125	0	2.1	1.4	-0.4	11	0.00
	Nagaland	151	0	2.9	2.6	0.0	7	0.00
Tripura	302	0	5.2	5.1	0.1	49	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.5	9.4	-25.3	-28.3
Day Peak (MW)	1909.5	394.7	-1117.0	-1375.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	263.7	-292.9	164.6	-118.5	-16.9	0.0
Actual(MU)	227.3	-292.1	185.9	-109.6	-15.9	-4.3
O/D/U/D(MU)	-36.4	0.8	21.3	8.9	1.0	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2428	9642	5758	1760	255	19842	41
State Sector	3625	13456	6908	4390	129	28507	59
Total	6053	23097	12666	6150	384	48349	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	832	1438	642	641	10	3564	66
Lignite	23	13	36	0	0	71	1
Hydro	379	104	73	136	40	732	13
Nuclear	24	53	46	0	0	123	2
Gas, Naptha & Diesel	33	55	6	0	29	123	2
RES (Wind, Solar, Biomass & Others)	206	277	328	4	1	816	15
Total	1497	1938	1132	781	80	5429	100

Share of RES in total generation (%)	13.63	14.29	28.97	0.53	0.89	14.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.60	22.34	39.54	17.97	51.06	30.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.063

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	229194	14:55	422
Non-Solar hr	218389	22:30	719

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: 29-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	19.7	-19.7
2	HVDC	PUSAULI B/B	-	0	95	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	634	159	3.2	0.0	3.2
4	765 kV	SASARAM-FATEHPUR	1	124	301	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	7	438	0.0	5.1	-5.1
6	400 kV	PUSAULI-VARANASI	1	0	121	0.0	1.9	-1.9
7	400 kV	PUSAULI-ALLAHABAD	1	17	54	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	775	0.0	11.8	-11.8
9	400 kV	PATNA-BALIA	2	0	521	0.0	9.0	-9.0
10	400 kV	NAUBATPUR-BALIA	2	0	535	0.0	9.5	-9.5
11	400 kV	BIHARSHARIFF-BALIA	2	107	244	0.0	3.0	-3.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	432	0.0	7.4	-7.4
13	400 kV	BIHARSHARIFF-VARANASI	2	262	128	0.2	0.0	0.2
14	220 kV	SAHUPURI-KARAMNANA	1	0	124	0.0	2.0	-2.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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	4.0	75.8	-71.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1624	0	19.9	0.0	19.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1448	911	11.4	0.0	11.4
3	765 kV	JHARSUGUDA-DURG	2	114	317	0.0	2.7	-2.7
4	400 kV	JHARSUGUDA-RAIGARH	4	8	408	0.0	5.1	-5.1
5	400 kV	RANCHI-SIPAT	2	269	289	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	190	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	62	15	0.5	0.0	0.5
					ER-WR	32.6	11.2	21.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	620	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2000	0.0	40.3	-40.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3303	0.0	44.4	-44.4
4	400 kV	TALCHER-I/C	2	175	871	0.0	7.4	-7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	97.2	-97.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	251	357	1.8	1.4	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	482	358	3.2	0.0	3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	84	95	0.3	0.0	0.3
					ER-NER	5.2	1.4	3.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	553	0.0	13.2	-13.2
					NER-NR	0.0	13.2	-13.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	5048	0.0	76.8	-76.8
2	HVDC	VINDHYACHAL B/B	-	438	0	11.0	0.0	11.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	17.1	-17.1
4	765 kV	GWALIOR-AGRA	2	638	1934	1.4	19.4	-18.0
5	765 kV	GWALIOR-PHAGI	2	981	1134	3.2	10.6	-7.4
6	765 kV	JABALPUR-ORAI	2	182	817	0.0	13.9	-13.9
7	765 kV	GWALIOR-ORAI	1	787	0	12.3	0.0	12.3
8	765 kV	SATNA-ORAI	1	0	777	0.0	15.4	-15.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1098	846	6.3	4.8	1.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3410	0.0	54.3	-54.3
11	400 kV	ZERDA-KANKROLI	1	284	98	2.5	0.2	2.3
12	400 kV	ZERDA-BHINMAL	1	627	142	5.8	0.2	5.6
13	400 kV	VINDHYACHAL-RIHAND	1	960	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	489	366	2.8	2.3	0.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
17	220 kV	MEHGAON-AURAIYA	1	153	0	2.2	0.0	2.2
18	220 kV	MALANPUR-AURAIYA	1	118	0	1.5	0.0	1.5
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	70.8	217.3	-146.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	16.1	-16.1
2	HVDC	RAIGARH-PUGALUR	2	0	5063	0.0	66.7	-66.7
3	765 kV	SOLAPUR-RAICHUR	2	845	3428	1.3	20.2	-18.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3699	0.0	42.9	-42.9
5	400 kV	KOLHAPUR-KUDGI	2	1420	175	17.7	0.1	17.6
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	61	0.8	0.0	0.8
8	220 kV	XELDEM-AMBEWADI	1	1	111	2.2	0.0	2.2
					WR-SR	22.0	145.9	-123.9

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)	746	605	649	15.58	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1038	608	965	23.15	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	97	15	97	2.49	
	NER	132kV GELEPHU-SALAKATI	20	-14	11	0.28	
	NER	132kV MOTANGA-RANGIA	60	11	43	1.03	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-42	0	12	0.30	
	ER	NEPAL IMPORT (FROM BIHAR)	-17	-4	-6	-0.14	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	454	293	385	9.24	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-811	-908	-21.79	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1375	-890	-1179	-28.29	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-171	0	-145	-3.48	

