



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: 28th 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 27.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	72643	58527	45434	26691	2834	206129
Peak Shortage (MW)	200	43	0	176	0	419
Energy Met (MU)	1617	1435	1196	568	56	4873
Hydro Gen (MU)	375	99	68	134	41	717
Wind Gen (MU)	54	188	134	-	-	376
Solar Gen (MU)*	125.65	56.45	123.68	2.27	0.53	309
Energy Shortage (MU)	2.47	0.41	0.00	0.78	0.08	3.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73211	65882	57412	27626	2907	217926
Time Of Maximum Demand Met	22:13	11:36	11:55	22:40	18:31	14:38

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	0.018	0.00	0.00	0.42	0.42	83.44	16.14

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	14119	0	304.1	173.5	0.0	128	0.00
	Haryana	10542	130	230.4	159.7	-1.5	115	0.50
	Rajasthan	16164	0	342.4	107.4	-4.2	295	0.00
	Delhi	5855	0	119.1	106.6	-2.6	86	0.00
	UP	25054	0	485.1	226.6	-3.3	440	0.00
	Uttarakhand	2081	0	45.2	18.3	0.5	151	0.04
	HP	1488	0	31.9	-0.3	0.3	99	0.13
	J&K(UT) & Ladakh(UT)	2378	135	49.5	24.6	0.6	276	1.80
	Chandigarh	305	0	6.0	6.1	-0.1	31	0.00
Railways NR ISTS	164	0	3.3	3.5	-0.2	10	0.00	
WR	Chhattisgarh	5586	0	129.4	68.8	-0.9	280	0.00
	Gujarat	21467	0	444.8	204.0	0.0	559	0.00
	MP	12195	0	271.6	138.0	-4.5	250	0.00
	Maharashtra	24352	0	538.3	195.9	-4.6	672	0.41
	Goa	588	0	12.1	12.1	-0.1	39	0.00
	DNHDDPDCL	346	0	7.8	29.5	-21.6	33	0.00
	AMNSIL	891	0	18.8	11.1	-1.4	247	0.00
	BALCO	522	0	12.5	12.5	0.0	19	0.00
SR	Andhra Pradesh	10937	0	225.8	83.7	-1.5	766	0.00
	Telangana	13151	0	256.6	114.2	-1.6	557	0.00
	Karnataka	14874	0	272.0	108.8	-1.8	631	0.00
	Kerala	4104	0	82.0	62.3	1.9	664	0.00
	Tamil Nadu	15751	0	349.9	171.3	-2.4	361	0.00
	Puducherry	423	0	9.8	9.3	-0.2	33	0.00
ER	Bihar	6900	0	134.5	128.0	1.4	300	0.00
	DVC	3455	0	74.4	-32.7	-0.6	370	0.00
	Jharkhand	1827	0	39.9	32.2	2.9	281	0.78
	Odisha	6194	0	132.3	55.8	-2.1	318	0.00
	West Bengal	9506	0	186.3	72.8	-2.0	401	0.00
	Sikkim	54	0	0.7	1.0	-0.2	13	0.00
Railways ER ISTS	22	0	0.1	0.1	0.0	16	0.00	
NER	Arunachal Pradesh	148	0	2.7	2.4	-0.2	28	0.00
	Assam	1832	0	36.1	28.9	0.4	123	0.00
	Manipur	177	0	2.5	2.6	-0.1	14	0.00
	Meghalaya	314	0	5.4	1.0	-0.2	45	0.08
	Mizoram	110	0	2.0	1.5	-0.6	6	0.00
	Nagaland	147	0	2.8	2.5	-0.1	16	0.00
Tripura	284	0	4.6	4.5	-0.1	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	40.7	10.4	-24.6	-30.2
Day Peak (MW)	1881.5	464.9	-1082.0	-1380.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	282.6	-271.5	159.1	-151.0	-19.2	0.0
Actual(MU)	255.2	-276.7	184.1	-149.6	-19.2	-6.2
O/D/U/D(MU)	-27.4	-5.1	25.0	1.3	0.1	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2897	10242	5658	1760	305	20861	42
State Sector	3990	13477	6498	4450	139	28553	58
Total	6887	23718	12156	6210	444	49414	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	808	1445	625	643	14	3534	67
Lignite	25	13	41	0	0	79	1
Hydro	375	99	68	134	41	717	14
Nuclear	24	53	46	0	0	123	2
Gas, Naptha & Diesel	31	40	6	0	28	105	2
RES (Wind, Solar, Biomass & Others)	186	248	298	4	1	736	14
Total	1449	1898	1084	781	83	5294	100

Share of RES in total generation (%)	12.85	13.06	27.47	0.45	0.64	13.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.42	21.07	37.97	17.66	49.92	29.77

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.041
Based on State Max Demands	1.075

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217926	14:38	135
Non-Solar hr	209851	22:18	162

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: 28-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	800	0.0	20.0	-20.0
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	410	515	0.0	3.7	-3.7
4	765 kV	SASARAM-FATEHPUR	1	9	396	0.0	6.4	-6.4
5	765 kV	GAYA-BALIA	1	0	540	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	0	95	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	82	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	901	0.0	15.8	-15.8
9	400 kV	PATNA-BALIA	2	0	619	0.0	12.3	-12.3
10	400 kV	NAUBATPUR-BALIA	2	0	646	0.0	12.7	-12.7
11	400 kV	BIHARSHARIFF-BALIA	2	35	330	0.0	5.1	-5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	520	0.0	9.7	-9.7
13	400 kV	BIHARSHARIFF-VARANASI	2	152	245	0.0	2.5	-2.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	139	0.0	2.4	-2.4
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						0.6	101.7	-101.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1494	0	22.8	0.0	22.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1075	943	1.6	0.0	1.6
3	765 kV	JHARSUGUDA-DURG	2	47	314	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	548	0.0	7.5	-7.5
5	400 kV	RANCHI-SIPAT	2	165	337	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	199	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	51	20	0.3	0.0	0.3
ER-WR						24.7	15.4	9.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	544	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1996	0.0	41.1	-41.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2879	0.0	45.6	-45.6
4	400 kV	TALCHER-I/C	2	148	968	0.0	8.1	-8.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.1	-99.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	249	155	1.9	0.3	1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	474	137	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	78	37	0.6	0.0	0.6
ER-NER						7.4	0.3	7.1
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-KURUKSHETRA	2	0	4038	0.0	81.3	-81.3
2	HVDC	VINDHYACHAL B/B	-	438	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	675	1931	1.4	16.3	-14.9
5	765 kV	GWALIOR-PHAGI	2	440	1077	1.4	12.4	-10.9
6	765 kV	JABALPUR-ORAI	2	105	810	0.0	13.6	-13.6
7	765 kV	GWALIOR-ORAI	1	756	0	12.9	0.0	12.9
8	765 kV	SATNA-ORAI	1	0	820	0.0	15.6	-15.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1370	484	8.9	2.1	6.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3228	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	298	34	2.7	0.0	2.7
12	400 kV	ZERDA -BHINMAL	1	505	106	4.5	0.0	4.5
13	400 kV	VINDHYACHAL -RIHAND	1	960	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUALPUR	2	324	421	1.9	2.2	-0.4
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	155	0	2.3	0.0	2.3
18	220 kV	MALANPUR-AURAIYA	1	120	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						71.5	216.8	-145.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	21.0	-21.0
2	HVDC	RAIGARH-PUGALUR	2	0	4010	0.0	53.3	-53.3
3	765 kV	SOLAPUR-RAICHUR	2	253	2698	0.1	21.3	-21.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3100	0.0	44.4	-44.4
5	400 kV	KOLHAPUR-KUDGI	2	1069	0	16.7	0.0	16.7
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	56	0.0	0.7	-0.7
8	220 kV	XELDEM-AMBEWADI	1	1	116	2.1	0.0	2.1
WR-SR						18.8	140.6	-121.8

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)	682	460	660	15.85	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1028	815	927	22.25	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	77	12	55	1.31	
	NER	132kV GELEPHU-SALAKATI	15	6	11	0.26	
	NER	132kV MOTANGA-RANGIA	54	6	42	1.01	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-55	0	-3	-0.08	
	ER	NEPAL IMPORT (FROM BIHAR)	16	4	10	0.24	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	504	319	428	10.27	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-816	-899	-21.59	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1380	-1148	-1256	-30.15	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-150	0	-125	-3.00	

