



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: 19th 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 18.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	74841	58062	48995	24787	3181	209866
Peak Shortage (MW)	3164	0	0	648	396	4208
Energy Met (MU)	1777	1449	1237	568	68	5099
Hydro Gen (MU)	408	121	76	136	33	774
Wind Gen (MU)	28	189	220	-	-	437
Solar Gen (MU)*	129.20	45.19	100.57	1.58	1.02	278
Energy Shortage (MU)	22.94	1.15	1.30	2.78	2.03	30.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	81097	66284	60551	26109	3342	231611
Time Of Maximum Demand Met	14:41	11:51	11:51	21:54	18:19	12:13

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	0.030	0.00	0.27	1.40	1.67	69.00	29.34

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	14479	0	315.3	185.8	0.6	370	0.00
	Haryana	12692	138	273.1	209.4	0.2	176	4.50
	Rajasthan	17148	154	351.8	124.6	1.7	477	8.02
	Delhi	7114	0	144.3	129.1	-1.3	144	0.00
	UP	25655	610	547.5	263.7	-0.6	444	7.78
	Uttarakhand	2148	0	46.2	24.6	1.6	204	2.40
	HP	1658	0	35.3	-0.4	0.0	108	0.02
	J&K(UT) & Ladakh(UT)	2555	0	52.2	28.6	-1.1	151	0.22
	Chandigarh	402	0	7.7	8.0	-0.3	24	0.00
Railways_NR ISTS	167	0	3.4	3.2	0.2	43	0.00	
WR	Chhattisgarh	5187	0	114.6	63.5	-2.6	152	0.00
	Gujarat	21201	0	447.6	148.5	-2.4	498	0.00
	MP	11811	0	255.8	125.7	-3.4	556	0.00
	Maharashtra	25798	0	558.7	216.5	-2.3	994	1.15
	Goa	642	0	13.4	13.2	-0.1	52	0.00
	DNHDDPDCL	1322	0	30.7	30.7	0.0	41	0.00
	AMNSIL	839	0	15.6	5.6	-0.6	296	0.00
	BALCO	522	0	12.4	12.5	-0.1	6	0.00
SR	Andhra Pradesh	11358	0	231.6	73.2	-1.8	679	0.00
	Telangana	12941	0	254.1	132.0	0.6	641	0.00
	Karnataka	15908	0	280.1	104.6	1.5	1065	1.30
	Kerala	4165	0	86.8	67.5	2.2	467	0.00
	Tamil Nadu	17212	0	374.5	150.6	-1.5	524	0.00
	Puducherry	438	0	9.9	9.6	-0.4	37	0.00
ER	Bihar	6813	263	142.8	142.8	-0.6	747	2.43
	DVC	3377	0	75.1	-40.5	0.3	374	0.00
	Jharkhand	1672	0	36.7	31.7	0.5	194	0.35
	Odisha	4925	0	109.4	42.9	-0.6	302	0.00
	West Bengal	9147	0	202.6	81.5	-2.7	152	0.00
	Sikkim	84	0	1.2	1.1	0.1	26	0.00
	Railways_ER ISTS	18	0	0.0	0.2	-0.2	12	0.00
NER	Arunachal Pradesh	158	0	3.1	2.4	0.2	82	0.00
	Assam	2271	130	46.7	37.1	2.6	311	1.39
	Manipur	197	0	2.7	2.7	0.0	21	0.00
	Meghalaya	303	32	5.0	-0.1	0.0	62	0.64
	Mizoram	113	0	1.9	1.5	-0.2	8	0.00
	Nagaland	155	0	2.8	2.7	0.0	15	0.00
Tripura	325	0	6.1	6.2	0.3	60	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.2	7.2	-23.0	-30.6
Day Peak (MW)	1951.0	411.0	-1084.0	-1371.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	370.4	-370.4	132.7	-126.9	-5.7	0.0
Actual(MU)	358.5	-374.0	144.1	-127.0	-4.7	-3.1
O/D/U/D(MU)	-11.8	-3.6	11.4	-0.1	1.0	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1953	10117	6758	3020	305	22452	41
State Sector	7070	13912	6803	3740	157	31681	59
Total	9023	24028	13561	6760	461	54133	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	855	1478	626	613	17	3589	66
Lignite	27	10	41	0	0	78	1
Hydro	408	121	76	136	33	774	14
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	40	55	6	0	28	130	2
RES (Wind, Solar, Biomass & Others)	164	236	346	3	1	749	14
Total	1524	1950	1165	752	79	5470	100

Share of RES in total generation (%)	10.77	12.08	29.68	0.39	1.29	13.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.44	20.86	42.27	18.48	43.17	30.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.048

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	231611	12:13	171
Non-Solar hr	214212	19:31	3761

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: 19-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	94	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	76	350	0.0	3.5	-3.5
4	765 kV	SASARAM-FATEHPUR	1	0	342	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	613	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	87	0.0	1.1	-1.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	85	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	731	0.0	13.0	-13.0
9	400 kV	PATNA-BALIA	2	0	501	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	0	516	0.0	9.7	-9.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	234	0.0	3.8	-3.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	405	0.0	8.0	-8.0
13	400 kV	BIHARSHARIFF-VARANASI	2	66	163	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	122	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	0.5	0.0	0.5
17	132 kV	KARMANASA-SAHUPURI	1	60	72	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	82.4	-81.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1793	0	27.4	0.0	27.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1175	648	12.8	0.0	12.8
3	765 kV	JHARSUGUDA-DURG	2	150	283	0.0	1.1	-1.1
4	400 kV	JHARSUGUDA-RAIGARH	4	17	470	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	236	243	1.1	0.0	1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	75	40	0.3	0.0	0.3
ER-WR						41.6	10.7	31.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	396	0.0	8.8	-8.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	36.2	-36.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2631	0.0	42.2	-42.2
4	400 kV	TALCHER-I/C	2	0	1180	0.0	15.5	-15.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	87.2	-87.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	265	0.0	3.7	-3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	381	0.0	5.3	-5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	2	90	0.0	1.2	-1.2
ER-NER						0.0	10.2	-10.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5556	0.0	82.5	-82.5
2	HVDC	VINDHYACHAL B/B	-	181	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	64	2264	0.0	31.7	-31.7
5	765 kV	GWALIOR-PHAGI	2	15	1254	0.0	17.2	-17.2
6	765 kV	JABALPUR-ORAI	2	0	1068	0.0	37.4	-37.4
7	765 kV	GWALIOR-ORAI	1	592	0	11.3	0.0	11.3
8	765 kV	SATNA-ORAI	1	0	1010	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	245	1385	0.2	18.8	-18.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	3429	0.0	60.3	-60.3
11	400 kV	ZERDA-KANKROLI	1	93	209	0.3	2.1	-1.9
12	400 kV	ZERDA -BHINMAL	1	208	384	0.9	3.0	-2.1
13	400 kV	VINDHYACHAL -RIHAND	1	951	0	21.6	0.0	21.6
14	400 kV	RAPP-SHUJALPUR	2	108	557	0.3	5.0	-4.8
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	148	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	111	0	1.2	0.0	1.2
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						42.4	305.4	-263.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1005	0.0	12.5	-12.5
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	36.2	-36.2
3	765 kV	SOLAPUR-RAICHUR	2	801	1935	1.7	12.1	-10.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2843	0.0	40.6	-40.6
5	400 kV	KOLHAPUR-KUDGI	2	1157	0	18.2	0.0	18.2
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	104	2.1	0.0	2.1
WR-SR						22.0	101.4	-79.5

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)	620	574	599	14.37
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1020	976	979	23.51
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	130	68	101	2.43
	NER	132kV GELEPHU-SALAKATI	38	18	27	0.64
	NER	132kV MOTANGA-RANGIA	73	23	54	1.29
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-20	0	8	0.20
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	431	176	293	7.02
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-447	-826	-19.83
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1371	-1191	-1277	-30.64
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-133	-3.20

