



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: 16th 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 15.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	70836	55476	46636	25915	3201	202064
Peak Shortage (MW)	510	0	0	0	44	554
Energy Met (MU)	1670	1371	1148	574	64	4828
Hydro Gen (MU)	409	99	96	143	34	780
Wind Gen (MU)	15	139	129	-	-	283
Solar Gen (MU)*	106.37	46.12	124.46	2.63	0.97	281
Energy Shortage (MU)	3.67	0.09	0.00	0.00	0.49	4.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73805	60182	54781	26706	3210	214418
Time Of Maximum Demand Met	14:44	06:39	12:42	23:02	19:20	12:41

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	0.035	0.00	0.62	7.24	7.87	82.85	9.28

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	14083	0	305.4	171.3	0.4	165	0.00
	Haryana	10622	288	229.8	166.8	-0.8	180	0.48
	Rajasthan	16230	0	341.5	154.7	0.4	581	1.90
	Delhi	6023	0	112.7	96.2	-1.2	282	0.00
	UP	25902	0	558.6	259.7	0.1	915	0.00
	Uttarakhand	1803	0	36.9	16.2	-0.3	158	0.67
	HP	1201	17	24.9	-5.7	-0.7	122	0.13
	J&K(UT) & Ladakh(UT)	2534	0	50.5	25.4	-0.6	192	0.49
	Chandigarh	313	0	6.0	6.0	0.0	35	0.00
	Railways_NR ISTS	155	0	3.2	3.4	-0.2	13	0.00
WR	Chhattisgarh	5641	10	130.1	71.1	-0.9	287	0.09
	Gujarat	18732	0	401.5	164.6	-2.8	433	0.00
	MP	12097	0	265.8	135.5	-3.4	531	0.00
	Maharashtra	23327	0	507.3	172.7	0.2	704	0.00
	Goa	575	0	12.1	11.6	0.1	35	0.00
	DNHDDPDCL	1228	0	22.6	22.8	-0.2	34	0.00
	AMNSIL	911	0	19.6	10.0	0.3	244	0.00
	BALCO	521	0	12.4	12.5	-0.1	13	0.00
SR	Andhra Pradesh	11922	0	232.5	113.4	0.7	909	0.00
	Telangana	11635	0	255.6	120.0	0.0	772	0.00
	Karnataka	14851	0	258.0	90.5	-0.1	1106	0.00
	Kerala	3932	0	79.7	56.7	0.8	229	0.00
	Tamil Nadu	14399	0	313.8	140.1	-1.4	1090	0.00
	Puducherry	376	0	8.7	8.0	0.0	34	0.00
ER	Bihar	7075	0	148.9	140.5	2.7	431	0.00
	DVC	3344	0	73.1	-45.2	-0.3	297	0.00
	Jharkhand	1735	0	38.9	32.5	1.5	178	0.00
	Odisha	5599	0	118.0	42.7	-0.7	251	0.00
	West Bengal	9013	0	194.9	71.4	-1.4	335	0.00
	Sikkim	48	0	0.7	0.8	-0.2	8	0.00
	Railways_ER ISTS	19	0	0.1	0.2	0.0	7	0.00
NER	Arunachal Pradesh	161	0	2.9	2.5	-0.2	38	0.00
	Assam	2198	0	42.7	34.0	0.8	181	0.00
	Manipur	209	0	3.0	2.8	0.2	34	0.00
	Meghalaya	287	31	5.3	1.2	-0.2	32	0.49
	Mizoram	115	0	1.7	1.5	-0.5	7	0.00
	Nagaland	162	0	2.9	2.7	-0.1	11	0.00
	Tripura	275	0	5.5	6.3	0.0	34	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	38.0	7.5	-25.1	-28.9
Day Peak (MW)	1835.9	379.0	-1087.0	-1373.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	309.3	-332.4	171.4	-139.1	-9.2	0.0
Actual(MU)	301.8	-336.4	172.3	-135.7	-10.5	-8.5
O/D/U/D(MU)	-7.5	-4.0	0.9	3.4	-1.3	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3418	11241	7908	2360	305	25231	44
State Sector	5765	14544	8418	3140	142	32009	56
Total	9183	25785	16326	5500	447	57240	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	846	1453	553	625	17	3494	67
Lignite	26	10	44	0	0	80	2
Hydro	409	99	96	143	34	780	15
Nuclear	29	50	71	0	0	150	3
Gas, Naptha & Diesel	20	28	6	0	30	83	2
RES (Wind, Solar, Biomass & Others)	128	186	274	4	1	594	11
Total	1457	1826	1044	772	82	5181	100

Share of RES in total generation (%)	8.78	10.20	26.24	0.57	1.18	11.46
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	38.84	18.39	42.17	19.04	42.67	29.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.069

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214418	12:41	13
Non-Solar hr	204589	22:27	975

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: 16-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	12.4	-12.4
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	242	443	0.0	3.2	-3.2
4	765 kV	SASARAM-FATEHPUR	1	0	244	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	0	574	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	0	70	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	90	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	794	0.0	14.3	-14.3
9	400 kV	PATNA-BALIA	2	0	531	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	0	548	0.0	11.1	-11.1
11	400 kV	BIHARSHARIFF-BALIA	2	21	256	0.0	3.6	-3.6
12	400 kV	MOTTHARI-GORAKHPUR	2	0	432	0.0	8.9	-8.9
13	400 kV	BIHARSHARIFF-VARANASI	2	61	203	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	115	0.0	2.1	-2.1
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	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	87.0	-86.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1872	0	30.8	0.0	30.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1018	232	10.4	0.0	10.4
3	765 kV	JHARSUGUDA-DURG	2	78	251	0.0	1.6	-1.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	535	0.0	6.5	-6.5
5	400 kV	RANCHI-SIPAT	2	175	148	0.9	0.0	0.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	3.4	-3.4
7	220 kV	BUDHIPADAR-KORBA	2	83	0	0.0	0.1	-0.1
ER-WR						42.1	11.7	30.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	636	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	45.2	-45.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2298	0.0	39.0	-39.0
4	400 kV	TALCHER-I/C	2	0	1246	0.0	24.2	-24.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	96.6	-96.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	25	201	0.0	1.6	-1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	28	228	0.0	2.2	-2.2
3	220 kV	ALIPURDUAR-SALAKATI	2	1	75	0.0	0.9	-0.9
ER-NER						0.0	4.8	-4.8
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	3025	0.0	72.3	-72.3
2	HVDC	VINDHYACHAL B/B	-	438	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	1884	0.0	24.9	-24.9
5	765 kV	GWALIOR-PHAGI	2	0	1468	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	2	0	1062	0.0	28.9	-28.9
7	765 kV	GWALIOR-ORAI	1	727	0	13.0	0.0	13.0
8	765 kV	SATNA-ORAI	1	0	1006	0.0	19.1	-19.1
9	765 kV	BANASKANTHA-CHITORGARH	2	563	1065	1.3	7.6	-6.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3194	0.0	55.1	-55.1
11	400 kV	ZERDA-KANKROLI	1	85	196	0.2	1.5	-1.3
12	400 kV	ZERDA -BHINMAL	1	174	364	0.4	3.4	-3.1
13	400 kV	VINDHYACHAL -RIHAND	1	953	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	0	616	0.0	7.2	-7.2
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	104	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	72	0	1.0	0.0	1.0
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						51.1	257.6	-206.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	19.9	-19.9
2	HVDC	RAIGARH-PUGALUR	2	0	4006	0.0	62.0	-62.0
3	765 kV	SOLAPUR-RAICHUR	2	834	1451	4.2	7.0	-2.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2420	0.0	35.8	-35.8
5	400 kV	KOLHAPUR-KUDGI	2	1202	0	19.0	0.0	19.0
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	2.2	0.0	2.2
WR-SR						25.4	124.7	-99.4

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)	717	-2	577	13.84	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1041	977	992	23.81	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	142	-61	89	2.13	
	NER	132kV GELEPHU-SALAKATI	45	-26	-20	-0.48	
	NER	132kV MOTANGA-RANGIA	-70	-19	-55	-1.32	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-59	0	0	-0.01	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	438	152	313	7.51	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-818	-907	-21.77	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1374	-1101	-1204	-28.90	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-162	0	-140	-3.36	

