



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: 27 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 26.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26 August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	71736	60750	48860	25256	2969	209571
Peak Shortage (MW)	1045	0	300	274	210	1829
Energy Met (MU)	1601	1486	1261	531	59	4939
Hydro Gen (MU)	378	104	90	142	37	751
Wind Gen (MU)	46	172	118	-	-	336
Solar Gen (MU)*	122.61	52.84	113.14	2.42	0.46	291
Energy Shortage (MU)	4.83	0.00	0.92	2.10	1.91	9.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	73672	67238	61418	25748	3098	224108
Time Of Maximum Demand Met	22:28	10:58	11:50	20:01	18:37	14:54

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	0.00	2.36	2.36	83.10	14.54

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	13648	0	290.8	168.3	0.9	161	0.00
	Haryana	11420	0	242.9	167.3	-0.9	115	0.39
	Rajasthan	16102	0	341.4	109.6	-0.9	565	0.00
	Delhi	5926	0	123.3	109.8	-1.8	125	0.00
	UP	24096	560	465.1	213.5	-2.5	542	4.03
	Uttarakhand	2124	75	47.1	21.0	0.9	164	0.37
	HP	1577	0	33.3	-0.2	0.4	107	0.04
	J&K(UT) & Ladakh(UT)	2331	0	47.7	24.9	-1.2	152	0.00
	Chandigarh	318	0	6.4	6.6	-0.2	20	0.00
Railways NR ISTS	158	0	3.2	3.3	0.0	43	0.00	
WR	Chhattisgarh	5535	0	125.5	64.3	-0.6	242	0.00
	Gujarat	22586	0	463.3	207.6	0.0	690	0.00
	MP	12137	0	266.6	133.2	-1.9	538	0.00
	Maharashtra	25497	0	554.9	199.8	-4.7	656	0.00
	Goa	633	0	14.1	12.8	1.2	80	0.00
	DNHDDPDCL	1298	0	30.3	30.5	-0.2	0	0.00
	AMNSIL	891	0	18.8	9.7	0.1	264	0.00
	BALCO	521	0	12.5	12.5	0.0	0	0.00
SR	Andhra Pradesh	11106	0	231.7	96.1	-1.7	601	0.00
	Telangana	13081	0	257.9	124.3	-2.3	535	0.00
	Karnataka	15653	0	283.7	119.9	0.6	747	0.92
	Kerala	4240	0	87.3	69.1	1.2	533	0.00
	Tamil Nadu	17852	0	389.8	187.9	1.9	727	0.00
	Puducherry	457	0	10.7	9.9	0.0	31	0.00
ER	Bihar	6685	0	123.2	118.4	0.2	327	0.25
	DVC	3460	0	76.7	-27.4	0.5	249	0.00
	Jharkhand	1716	0	36.3	29.8	1.7	285	1.86
	Odisha	5254	0	113.7	38.6	-1.5	267	0.00
	West Bengal	8610	0	180.2	70.9	-3.8	199	0.00
	Sikkim	79	0	1.2	1.1	0.0	22	0.00
Railways ER ISTS	19	0	0.2	0.1	0.0	6	0.00	
NER	Arunachal Pradesh	141	0	2.8	2.5	-0.2	102	0.00
	Assam	1966	50	38.8	30.3	1.7	224	1.27
	Manipur	187	0	2.5	2.7	-0.1	18	0.00
	Meghalaya	306	0	5.2	0.4	0.0	41	0.64
	Mizoram	116	0	2.0	1.4	-0.1	22	0.00
	Nagaland	152	0	2.9	2.5	-0.1	10	0.00
Tripura	291	0	4.9	4.7	-0.1	30	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.1	11.8	-24.0	-28.5
Day Peak (MW)	1909.5	443.4	-1087.0	-1328.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	270.7	-276.7	195.9	-172.3	-17.7	0.0
Actual(MU)	250.5	-287.3	223.7	-177.3	-15.6	-6.0
O/D/U/D(MU)	-20.2	-10.7	27.7	-4.9	2.1	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2737	10410	6008	1900	305	21359	44
State Sector	4125	13879	5158	3850	129	27141	56
Total	6862	24289	11166	5750	434	48500	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	803	1437	666	630	16	3552	67
Lignite	24	13	43	0	0	80	2
Hydro	378	104	90	142	37	751	14
Nuclear	24	52	45	0	0	122	2
Gas, Naptha & Diesel	34	50	6	0	29	119	2
RES (Wind, Solar, Biomass & Others)	175	228	268	4	0	676	13
Total	1440	1884	1118	775	82	5300	100

Share of RES in total generation (%)	12.18	12.11	23.99	0.48	0.56	12.75
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	40.15	20.40	36.04	18.75	45.73	29.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.062

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	224108	14:54	0
Non-Solar hr	213650	19:37	2103

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: 27-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	801	0.0	18.8	-18.8
2	HVDC	PUSAULI B/B	-	0	97	0.0	2.1	-2.1
3	765 kV	GAYA-VARANASI	2	0	605	0.0	9.7	-9.7
4	765 kV	SASARAM-FATEHPUR	1	0	499	0.0	8.7	-8.7
5	765 kV	GAYA-BALIA	1	0	533	0.0	6.3	-6.3
6	400 kV	PUSAULI-VARANASI	1	28	60	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	89	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	890	0.0	18.0	-18.0
9	400 kV	PATNA-BALIA	2	0	587	0.0	12.5	-12.5
10	400 kV	NAUBATPUR-BALIA	2	0	613	0.0	12.9	-12.9
11	400 kV	BIHARSHARIF-BALIA	2	0	276	0.0	5.4	-5.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	542	0.0	11.4	-11.4
13	400 kV	BIHARSHARIF-VARANASI	2	0	245	0.0	3.0	-3.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	141	0.0	2.5	-2.5
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	113.4	-112.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1571	0	22.5	0.0	22.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1056	1165	0.0	3.7	-3.7
3	765 kV	JHARSUGUDA-DURG	2	9	370	0.0	4.7	-4.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	538	0.0	9.5	-9.5
5	400 kV	RANCHI-SIPAT	2	168	348	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	179	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	40	19	0.3	0.0	0.3
ER-WR						22.8	23.3	-0.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	759	0.0	11.6	-11.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2478	0.0	44.3	-44.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2865	0.0	45.6	-45.6
4	400 kV	TALCHER-I/C	2	172	1113	0.0	10.9	-10.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	101.4	-101.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	145	145	0.8	0.4	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	327	106	3.0	0.0	3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	48	37	0.2	0.0	0.2
ER-NER						4.0	0.4	3.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	552	0.0	13.0	-13.0
NER-NR						0.0	13.0	-13.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4025	0.0	55.5	-55.5
2	HVDC	VINDHYACHAL B/B	-	442	0	12.0	0.0	12.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	347	2120	0.5	21.3	-20.8
5	765 kV	GWALIOR-PHAGI	2	264	1418	0.2	16.0	-15.8
6	765 kV	JABALPUR-ORAI	2	88	879	0.0	17.4	-17.4
7	765 kV	GWALIOR-ORAI	1	881	0	15.3	0.0	15.3
8	765 kV	SATNA-ORAI	1	0	834	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1088	708	9.4	2.3	7.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	3148	0.0	40.3	-40.3
11	400 kV	ZERDA-KANKROLI	1	275	107	2.8	0.2	2.5
12	400 kV	ZERDA -BHINMAL	1	429	235	4.1	0.8	3.3
13	400 kV	VINDHYACHAL -RIHAND	1	948	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	290	469	1.3	3.0	-1.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.4	-2.4
17	220 kV	MEHGAON-AURAIYA	1	159	0	2.3	0.0	2.3
18	220 kV	MALANPUR-AURAIYA	1	125	0	1.6	0.0	1.6
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	200.7	-129.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1008	0.0	22.8	-22.8
2	HVDC	RAIGARH-PUGALUR	2	0	5522	0.0	88.1	-88.1
3	765 kV	SOLAPUR-RAICHUR	2	464	2418	1.0	23.1	-22.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2898	0.0	45.4	-45.4
5	400 kV	KOLHAPUR-KUDGI	2	1318	0	17.7	0.0	17.7
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	108	2.1	0.0	2.1
WR-SR						20.7	179.4	-158.6

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)	685	603	611	14.66	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1018	976	982	23.56	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	99	51	59	1.43	
	NER	132kV GELEPHU-SALAKATI	16	8	12	0.28	
	NER	132kV MOTANGA-RANGIA	62	33	50	1.19	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-41	0	13	0.32	
	ER	NEPAL IMPORT (FROM BIHAR)	-16	0	-1	-0.03	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	500	385	480	11.52	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-935	-806	-873	-20.96	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1328	-1049	-1185	-28.45	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-125	-3.00	

