



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: 03rd 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 02.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02nd August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 03-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)	72418	52200	49037	23402	3241	200298
Peak Shortage (MW)	0	0	0	0	21	21
Energy Met (MU)	1678	1230	1127	504	68	4607
Hydro Gen (MU)	442	79	75	116	30	743
Wind Gen (MU)	64	270	276	-	-	611
Solar Gen (MU)*	116.68	32.41	100.63	1.06	1.01	252
Energy Shortage (MU)	0.83	0.00	0.00	0.65	0.46	1.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	74638	54623	53049	24825	3257	202247
Time Of Maximum Demand Met	00:00	19:26	09:41	23:14	19:42	19:47

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	0.034	0.00	0.00	2.68	2.68	82.63	14.69

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	15125	0	332.9	194.4	-1.4	188	0.00
	Haryana	11990	0	246.0	192.7	-0.1	212	0.00
	Rajasthan	12748	0	302.2	74.4	-2.7	396	0.00
	Delhi	7005	0	139.3	126.5	-1.6	184	0.00
	UP	26356	0	511.6	258.5	-3.3	604	0.00
	Uttarakhand	2107	0	47.7	21.6	-0.4	86	0.00
	HP	1710	0	35.9	0.3	-0.4	83	0.75
	J&K(UT) & Ladakh(UT)	2499	0	51.7	27.4	-1.6	84	0.08
	Chandigarh	412	0	7.8	7.9	-0.1	41	0.00
	Railways_NR ISTS	164	0	3.3	3.6	-0.3	5	0.00
WR	Chhattisgarh	4329	0	90.9	37.9	-3.4	230	0.00
	Gujarat	15289	0	344.5	135.1	1.1	1055	0.00
	MP	11052	0	233.1	98.9	-4.7	341	0.00
	Maharashtra	22464	0	489.5	170.2	-5.0	695	0.00
	Goa	626	0	12.6	12.6	-0.2	49	0.00
	DNHDDPDCL	1267	0	29.7	29.4	0.3	52	0.00
	AMNSIL	821	0	17.0	7.2	0.4	258	0.00
	BALCO	520	0	12.4	12.5	-0.1	9	0.00
SR	Andhra Pradesh	10049	0	211.4	55.3	-1.4	410	0.00
	Telangana	11488	0	226.2	105.8	1.4	518	0.00
	Karnataka	11521	0	204.5	48.5	-1.2	410	0.00
	Kerala	4081	0	82.0	65.2	1.7	363	0.00
	Tamil Nadu	17813	0	392.7	172.0	-0.4	575	0.00
	Puducherry	471	0	10.4	10.0	-0.3	40	0.00
ER	Bihar	6764	0	121.0	115.2	-1.9	195	0.55
	DVC	3199	0	68.7	-34.8	0.3	256	0.00
	Jharkhand	1484	0	30.6	26.3	-0.4	208	0.10
	Odisha	5470	0	98.3	40.5	-3.0	377	0.00
	West Bengal	8753	0	184.0	67.7	-2.5	7	0.00
	Sikkim	71	0	0.9	1.2	-0.2	21	0.00
	Railways_ER ISTS	21	0	0.2	0.3	-0.1	378	0.00
NER	Arunachal Pradesh	156	0	3.0	3.0	-0.3	36	0.00
	Assam	2296	0	47.2	40.8	0.4	182	0.00
	Manipur	176	0	2.7	2.7	0.0	17	0.00
	Meghalaya	323	15	5.2	1.5	-0.2	84	0.46
	Mizoram	117	0	1.9	1.7	-0.1	16	0.00
	Nagaland	135	0	2.9	2.6	-0.2	26	0.00
	Tripura	282	0	5.3	5.4	-0.1	40	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.7	6.6	-25.2	-28.3
Day Peak (MW)	2197.0	354.8	-1081.0	-1245.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	333.8	-312.5	74.1	-96.1	0.6	0.0
Actual(MU)	321.3	-335.0	98.8	-92.7	3.3	-4.3
O/D/U/D(MU)	-12.5	-22.5	24.7	3.4	2.7	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3072	12191	5248	3385	271	24167	39
State Sector	6150	17298	9718	3690	179	37035	61
Total	9222	29489	14966	7075	450	61202	100

G. Sourcwise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1177	498	552	13	2960	60
Lignite	27	10	52	0	0	89	2
Hydro	442	79	75	116	30	743	15
Nuclear	29	50	64	0	0	143	3
Gas, Naptha & Diesel	26	20	6	0	28	79	2
RES (Wind, Solar, Biomass & Others)	188	304	398	2	1	893	18
Total	1432	1640	1093	670	72	4907	100

Share of RES in total generation (%)	13.09	18.56	36.46	0.31	1.41	18.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	46.00	26.43	49.17	17.65	43.95	36.26

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.093

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199851	14:59	80
Non-Solar hr	202247	19:47	15

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: 03-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	500	0.0	11.9	-11.9
2	HVDC	PUSAULI B/B	-	0	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	270	570	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	0	400	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	620	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	38	28	0.0	0.4	-0.4
7	400 kV	PUSAULI -ALLAHABAD	1	21	46	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	876	0.0	15.4	-15.4
9	400 kV	PATNA-BALIA	2	0	528	0.0	8.6	-8.6
10	400 kV	NAUBATPUR-BALIA	2	0	545	0.0	8.5	-8.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	313	0.0	4.9	-4.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	638	0.0	10.2	-10.2
13	400 kV	BIHARSHARIFF-VARANASI	2	62	291	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	151	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	0.6	0.0	0.6
17	132 kV	KARMANASA-SAHUPURI	1	0	36	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	81.0	-80.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1627	0	16.3	0.0	16.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	971	814	25.9	0.0	25.9
3	765 kV	JHARSUGUDA-DURG	2	88	361	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	363	196	1.5	0.0	1.5
5	400 kV	RANCHI-SIPAT	2	213	211	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	97	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	142	0	0.5	0.0	0.5
ER-WR						48.9	4.2	44.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	386	0	7.2	0.0	7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	40.2	-40.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2755	0.0	46.3	-46.3
4	400 kV	TALCHER-I/C	2	258	652	0.0	2.5	-2.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.2	86.6	-79.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	362	0.0	5.1	-5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	486	0.0	6.9	-6.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	119	0.0	1.8	-1.8
ER-NER						0.0	13.8	-13.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
NER-NR						0.0	12.1	-12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5050	0.0	88.2	-88.2
2	HVDC	VINDHYACHAL B/B	-	0	101	0.0	2.4	-2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	17.4	-17.4
4	765 kV	GWALIOR-AGRA	2	0	2403	0.0	33.9	-33.9
5	765 kV	GWALIOR-PHAGI	2	580	1315	2.0	12.5	-10.5
6	765 kV	JABALPUR-ORAI	2	0	927	0.0	23.6	-23.6
7	765 kV	GWALIOR-ORAI	1	762	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	880	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	66	1343	0.0	18.6	-18.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3149	0.0	52.9	-52.9
11	400 kV	ZERDA-KANKROLI	1	112	177	1.0	0.0	1.0
12	400 kV	ZERDA -BHINMAL	1	458	198	3.7	0.6	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	954	0	19.8	0.0	19.8
14	400 kV	RAPP-SHUJALPUR	2	225	601	1.0	4.5	-3.5
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
17	220 kV	MEHGAON-AURAIYA	1	123	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	60	0	0.7	0.0	0.7
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						42.1	273.2	-231.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	304	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	4004	0.0	40.9	-40.9
3	765 kV	SOLAPUR-RAICHUR	2	1001	1566	3.2	6.7	-3.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2715	0.0	34.5	-34.5
5	400 kV	KOLHAPUR-KUDGI	2	1454	0	24.9	0.0	24.9
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	113	2.1	0.0	2.1
WR-SR						30.3	89.3	-59.1

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)	685	379	534	12.81
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1077	0	999	23.97
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	271	71	135	3.25
	NER	132kV GELEPHU-SALAKATI	29	14	23	0.56
	NER	132kV MOTANGA-RANGIA	60	35	48	1.15
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-36	0	-12	-0.29
	ER	NEPAL IMPORT (FROM BIHAR)	-5	0	-1	-0.02
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	396	152	288	6.92
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-801	-915	-21.96
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1245	-1122	-1178	-28.27
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-157	0	-134	-3.21

