



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: 02nd 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 01.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01st August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	75526	53919	48089	24819	3393	205746
Peak Shortage (MW)	175	0	0	0	26	201
Energy Met (MU)	1684	1257	1104	584	70	4700
Hydro Gen (MU)	445	73	76	133	32	759
Wind Gen (MU)	50	253	283	-	-	587
Solar Gen (MU)*	131.47	38.36	105.90	1.36	1.26	278
Energy Shortage (MU)	0.66	0.00	0.00	0.39	0.60	1.65
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	76438	56283	51185	28282	3392	206579
Time Of Maximum Demand Met	22:30	19:33	10:29	00:01	19:03	19:53

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	0.24	2.35	2.59	74.60	22.81

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	15123	0	327.3	190.4	-0.2	126	0.00
	Haryana	11756	0	246.7	193.3	-1.6	100	0.00
	Rajasthan	12466	0	279.1	74.6	-4.7	333	0.00
	Delhi	6736	0	136.0	123.9	-2.0	106	0.00
	UP	27299	0	546.0	267.5	-1.4	352	0.12
	Uttarakhand	2244	0	49.2	22.3	0.5	124	0.15
	HP	1710	0	36.4	0.6	-0.3	50	0.00
	J&K(UT) & Ladakh(UT)	2518	0	52.6	27.6	0.4	229	0.39
	Chandigarh	400	0	7.6	7.4	0.2	51	0.00
Railways_NR ISTS	157	0	3.2	3.5	-0.3	10	0.00	
WR	Chhattisgarh	4841	0	108.7	52.8	-1.8	224	0.00
	Gujarat	15425	0	346.8	138.0	-5.3	850	0.00
	MP	11527	0	248.8	125.0	-4.1	337	0.00
	Maharashtra	22067	0	480.1	166.7	-6.4	662	0.00
	Goa	612	0	12.8	12.8	-0.1	47	0.00
	DNHDDPDCL	1258	0	29.5	29.5	0.0	38	0.00
	AMNSIL	874	0	18.2	8.0	0.1	287	0.00
	BALCO	519	0	12.4	12.5	-0.1	29	0.00
SR	Andhra Pradesh	9880	0	208.8	59.2	-0.5	724	0.00
	Telangana	10957	0	211.2	96.8	-2.1	640	0.00
	Karnataka	11054	0	201.4	50.8	-3.3	397	0.00
	Kerala	3990	0	80.7	61.4	1.7	248	0.00
	Tamil Nadu	18252	0	391.9	164.9	-2.8	459	0.00
	Puducherry	481	0	10.5	10.1	-0.3	33	0.00
ER	Bihar	7178	0	148.3	144.4	-2.4	302	0.39
	DVC	3390	0	74.5	-35.5	-0.2	297	0.00
	Jharkhand	1559	0	36.9	31.8	0.3	105	0.00
	Odisha	5904	0	114.0	54.8	-3.9	345	0.00
	West Bengal	9887	0	209.2	88.5	-4.5	287	0.00
	Sikkim	83	0	1.3	1.2	0.1	34	0.00
	Railways_ER ISTS	24	0	0.2	0.3	-0.1	10	0.00
NER	Arunachal Pradesh	170	0	3.0	2.7	0.0	59	0.00
	Assam	2389	0	48.1	40.8	0.4	178	0.00
	Manipur	185	0	2.6	2.8	-0.2	24	0.00
	Meghalaya	311	12	5.3	1.4	-0.1	67	0.60
	Mizoram	113	0	1.8	1.7	-0.2	10	0.00
	Nagaland	158	0	2.9	2.4	-0.1	32	0.00
	Tripura	285	0	6.0	5.5	0.4	74	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	44.0	5.1	-24.8	-20.6
Day Peak (MW)	1990.0	315.0	-1075.0	-1203.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	323.5	-317.6	61.3	-66.0	-1.2	0.0
Actual(MU)	300.4	-320.5	74.8	-56.5	1.6	-0.1
O/D/U/D(MU)	-23.1	-2.9	13.6	9.5	2.8	-0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3173	10739	5848	3385	271	23416	40
State Sector	5900	16626	10038	3090	178	35831	60
Total	9072	27364	15886	6475	449	59247	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1222	481	567	13	3035	61
Lignite	27	10	56	0	0	93	2
Hydro	445	73	76	133	32	759	15
Nuclear	29	50	64	0	0	143	3
Gas, Naptha & Diesel	32	21	6	0	29	88	2
RES (Wind, Solar, Biomass & Others)	187	292	411	3	1	895	18
Total	1472	1669	1095	702	74	5013	100

Share of RES in total generation (%)	12.73	17.53	37.58	0.36	1.69	17.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.96	24.90	50.36	19.26	44.42	35.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.043
Based on State Max Demands	1.083

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204830	15:20	26
Non-Solar hr	206579	19:53	187

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: 02-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	13.1	-13.1
2	HVDC	PUSAULI B/B	-	0	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	804	278	4.4	0.0	4.4
4	765 kV	SASARAM-FATEHPUR	1	214	246	0.0	0.7	-0.7
5	765 kV	GAYA-BALIA	1	0	617	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	41	73	0.0	0.7	-0.7
7	400 kV	PUSAULI -ALLAHABAD	1	79	51	0.7	0.0	0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	866	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	2	0	509	0.0	6.4	-6.4
10	400 kV	NAUBATPUR-BALIA	2	37	522	0.0	6.0	-6.0
11	400 kV	BIHARSHARIFF-BALIA	2	152	293	0.0	2.1	-2.1
12	400 kV	MOTTHARI-GORAKHPUR	2	0	580	0.0	7.3	-7.3
13	400 kV	BIHARSHARIFF-VARANASI	2	291	245	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNANA	1	25	137	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	57	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						5.8	57.2	-51.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1636	0	23.3	0.0	23.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1421	568	18.0	0.0	18.0
3	765 kV	JHARSUGUDA-DURG	2	220	225	0.0	0.1	-0.1
4	400 kV	JHARSUGUDA-RAIGARH	4	188	243	0.0	1.2	-1.2
5	400 kV	RANCHI-SIPAT	2	348	191	3.8	0.0	3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	64	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	151	0	0.6	0.0	0.6
ER-WR						45.6	3.3	42.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	188	0	4.8	0.0	4.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1652	0.0	36.6	-36.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2755	0.0	41.1	-41.1
4	400 kV	TALCHER-I/C	2	663	618	3.4	0.0	3.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.8	77.6	-72.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	304	0.0	4.4	-4.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	185	423	0.0	6.7	-6.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	101	0.0	1.6	-1.6
ER-NER						0.0	12.7	-12.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.2	-12.2
NER-NR						0.0	12.2	-12.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	5046	0.0	108.2	-108.2
2	HVDC	VINDHYACHAL B/B	-	438	486	1.4	6.9	-5.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	978	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	441	2434	0.4	27.2	-26.7
5	765 kV	GWALIOR-PHAGI	2	968	1217	4.5	10.5	-6.1
6	765 kV	JABALPUR-ORAI	2	140	915	0.0	19.6	-19.6
7	765 kV	GWALIOR-ORAI	1	742	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	869	0.0	15.3	-15.3
9	765 kV	BANASKANTHA-CHITORGARH	2	324	1555	0.7	13.3	-12.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	3207	0.0	56.1	-56.1
11	400 kV	ZERDA-KANKROLI	1	163	196	0.7	1.0	-0.3
12	400 kV	ZERDA -BHINMAL	1	458	194	3.9	0.5	3.4
13	400 kV	VINDHYACHAL -RIHAND	1	949	0	20.4	0.0	20.4
14	400 kV	RAPP-SHUJALPUR	2	362	558	2.4	3.5	-1.1
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	74	1	0.1	0.0	0.1
18	220 kV	MALANPUR-AURAIYA	1	22	0	0.0	0.0	0.0
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						46.0	288.4	-242.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1004	3.1	8.5	-5.5
2	HVDC	RAIGARH-PUGALUR	2	0	3501	0.0	29.3	-29.3
3	765 kV	SOLAPUR-RAICHUR	2	1468	1516	5.6	5.3	0.3
4	765 kV	WARDHA-NIZAMABAD	2	45	2497	0.0	28.6	-28.6
5	400 kV	KOLHAPUR-KUDGI	2	1496	0	25.2	0.0	25.2
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	105	2.1	0.0	2.1
WR-SR						36.0	71.7	-35.8

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)	622	565	611	14.66
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1041	0	997	23.93
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	181	106	150	3.60
	NER	132kV GELEPHU-SALAKATI	29	15	23	0.56
	NER	132kV MOTANGA-RANGIA	64	31	50	1.20
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.53
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	315	114	236	5.66
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-794	-908	-21.80
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1204	-703	-858	-20.60
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-145	0	-127	-3.04

