



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: 05th 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 04.08.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th August 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-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)	71206	52969	49962	26468	3220	203825
Peak Shortage (MW)	243	0	0	116	16	375
Energy Met (MU)	1605	1215	1186	588	64	4659
Hydro Gen (MU)	437	96	94	136	33	795
Wind Gen (MU)	31	191	235	-	-	457
Solar Gen (MU)*	119.16	33.94	115.01	2.01	0.85	271
Energy Shortage (MU)	1.07	0.00	0.00	1.46	0.42	2.95
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	72355	55371	57212	27845	3271	206265
Time Of Maximum Demand Met	00:00	19:40	11:54	21:01	19:13	19:43

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	0.037	0.00	1.18	4.99	6.17	80.07	13.76

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	14813	0	313.0	185.3	-0.4	195	0.00
	Haryana	10805	0	236.2	180.5	-1.6	151	0.38
	Rajasthan	13210	0	295.6	93.5	-0.5	404	0.00
	Delhi	6405	0	133.9	121.1	-1.6	247	0.00
	UP	24977	0	479.3	236.5	-2.5	372	0.17
	Uttarakhand	2164	0	47.5	20.4	0.9	170	0.00
	HP	1724	0	36.3	0.5	-0.2	79	0.00
	J&K(UT) & Ladakh(UT)	2567	0	52.5	27.3	-0.6	221	0.52
	Chandigarh	344	0	7.3	7.6	-0.3	26	0.00
Railways_NR ISTS	157	0	3.2	3.6	-0.4	0	0.00	
WR	Chhattisgarh	3908	0	84.8	23.5	-0.3	238	0.00
	Gujarat	16463	0	362.2	167.0	-2.7	651	0.00
	MP	9563	0	203.2	68.7	-2.9	344	0.00
	Maharashtra	22453	0	488.8	175.2	-5.7	436	0.00
	Goa	638	0	13.0	12.3	0.4	66	0.00
	DNHDDPDCL	1278	0	29.9	29.8	0.1	53	0.00
	AMNSIL	942	0	20.6	9.7	0.4	258	0.00
	BALCO	520	0	12.4	12.5	-0.1	147	0.00
SR	Andhra Pradesh	11259	0	227.1	56.2	0.8	763	0.00
	Telangana	12127	0	246.2	124.6	-0.3	569	0.00
	Karnataka	12892	0	225.3	61.5	1.1	762	0.00
	Kerala	4063	0	83.1	64.0	1.4	219	0.00
	Tamil Nadu	17881	0	393.8	181.3	-0.5	894	0.00
	Puducherry	492	0	10.8	9.9	0.2	82	0.00
ER	Bihar	7070	0	143.3	135.6	-0.5	343	1.18
	DVC	3541	0	73.9	-38.0	0.3	311	0.00
	Jharkhand	1690	0	38.0	30.0	2.6	175	0.28
	Odisha	6429	0	118.8	55.2	-4.5	280	0.00
	West Bengal	9751	0	212.8	83.5	-2.3	451	0.00
	Sikkim	80	0	1.3	1.2	0.0	21	0.00
	Railways_ER ISTS	23	0	0.1	0.3	-0.1	10	0.00
NER	Arunachal Pradesh	162	0	3.0	2.9	-0.4	19	0.00
	Assam	2180	0	43.3	35.8	0.2	117	0.00
	Manipur	178	0	2.6	2.6	-0.1	14	0.00
	Meghalaya	320	10	5.5	1.4	-0.1	53	0.42
	Mizoram	112	0	1.8	1.6	-0.1	6	0.00
	Nagaland	165	0	2.8	2.4	-0.2	11	0.00
	Tripura	286	0	5.2	5.1	0.0	46	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	42.3	7.9	-24.9	-28.7
Day Peak (MW)	1998.2	338.0	-1084.0	-1237.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	314.9	-329.7	110.0	-89.1	-6.1	0.0
Actual(MU)	290.8	-326.2	130.6	-92.8	-5.8	-3.4
O/D/U/D(MU)	-24.1	3.5	20.6	-3.7	0.3	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3072	12624	5918	2885	271	24771	42
State Sector	6210	15671	9043	2830	119	33872	58
Total	9282	28295	14961	5715	390	58643	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	734	1233	529	609	14	3119	63
Lignite	25	11	57	0	0	92	2
Hydro	437	96	94	136	33	795	16
Nuclear	29	50	66	0	0	146	3
Gas, Naptha & Diesel	21	18	6	0	29	74	1
RES (Wind, Solar, Biomass & Others)	156	227	376	3	1	763	15
Total	1401	1634	1128	748	77	4988	100

Share of RES in total generation (%)	11.13	13.87	33.33	0.40	1.10	15.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	44.38	22.79	47.51	18.57	44.26	34.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.084

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206175	11:54	22
Non-Solar hr	206265	19:43	895

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: 05-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	513	404	0.0	1.5	-1.5
4	765 kV	SASARAM-FATEHPUR	1	63	355	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	619	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	36	19	0.2	0.0	0.2
7	400 kV	PUSAULI -ALLAHABAD	1	12	44	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	900	0.0	14.7	-14.7
9	400 kV	PATNA-BALIA	2	0	572	0.0	10.7	-10.7
10	400 kV	NAUBATPUR-BALIA	2	0	596	0.0	8.9	-8.9
11	400 kV	BIHARSHARIFF-BALIA	2	84	285	0.0	3.5	-3.5
12	400 kV	MOTTHARI-GORAKHPUR	2	0	502	0.0	8.8	-8.8
13	400 kV	BIHARSHARIFF-VARANASI	2	161	230	0.0	2.0	-2.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	117	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	60	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.0	78.0	-77.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1745	0	26.1	0.0	26.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1370	782	13.0	0.0	13.0
3	765 kV	JHARSUGUDA-DURG	2	65	343	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	441	0	5.5	0.0	5.5
5	400 kV	RANCHI-SIPAT	2	380	182	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	11	44	0.0	0.5	-0.5
7	220 kV	BUDHIPADAR-KORBA	2	299	0	2.6	0.0	2.6
ER-WR						50.5	2.7	47.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	288	0	7.2	0.0	7.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	38.5	-38.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3129	0.0	54.0	-54.0
4	400 kV	TALCHER-I/C	2	236	949	0.0	10.2	-10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						7.2	92.5	-85.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	109	206	0.0	1.8	-1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	185	296	0.0	2.3	-2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	13	69	0.0	0.8	-0.8
ER-NER						0.0	4.8	-4.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
NER-NR						0.0	12.0	-12.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4031	0.0	60.7	-60.7
2	HVDC	VINDHYACHAL B/B	-	293	293	0.0	3.1	-3.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	977	0.0	10.0	-10.0
4	765 kV	GWALIOR-AGRA	2	10	2424	0.0	34.0	-34.0
5	765 kV	GWALIOR-PHAGI	2	257	1264	0.0	17.8	-17.8
6	765 kV	JABALPUR-ORAI	2	0	886	0.0	23.2	-23.2
7	765 kV	GWALIOR-ORAI	1	734	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	917	0.0	18.1	-18.1
9	765 kV	BANASKANTHA-CHITORGARH	2	721	1090	0.0	5.7	-5.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	3311	0.0	58.3	-58.3
11	400 kV	ZERDA-KANKROLI	1	138	146	0.0	0.3	-0.3
12	400 kV	ZERDA -BHINMAL	1	311	209	0.6	0.0	0.6
13	400 kV	VINDHYACHAL -RIHAND	1	952	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	88	551	0.0	5.6	-5.6
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
17	220 kV	MEHGAON-AURAIYA	1	69	22	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	45	32	0.2	0.2	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						36.8	239.4	-202.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	299	317	0.0	2.5	-2.5
2	HVDC	RAIGARH-PUGALUR	2	0	5007	0.0	32.9	-32.9
3	765 kV	SOLAPUR-RAICHUR	2	549	2090	0.0	14.8	-14.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3591	0.0	50.3	-50.3
5	400 kV	KOLHAPUR-KUDGI	2	1399	0	22.7	0.0	22.7
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	123	2.2	0.0	2.2
WR-SR						25.0	100.5	-75.5

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)	617	573	588	14.12	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1050	0	996	23.90	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	197	47	113	2.70	
	NER	132kV GELEPHU-SALAKATI	23	17	22	0.54	
	NER	132kV MOTANGA-RANGIA	59	33	43	1.03	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	5	0.12	
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	403	245	323	7.76	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-813	-907	-21.78	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1237	-1135	-1195	-28.69	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-132	-3.16	

