



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: 09th July 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 08.07.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-जुलाई-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 08th July 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-Jul-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)	57236	53509	44075	25392	3318	183530
Peak Shortage (MW)	0	0	0	0	12	12
Energy Met (MU)	1304	1243	1071	554	64	4235
Hydro Gen (MU)	375	34	53	130	31	623
Wind Gen (MU)	5	128	210	-	-	342
Solar Gen (MU)*	100.14	37.90	88.63	2.24	1.12	230
Energy Shortage (MU)	0.19	0.00	0.00	0.95	1.01	2.15
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64235	55931	50720	26653	3309	185373
Time Of Maximum Demand Met	00:07	19:51	12:43	23:23	20:01	00:00

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	0.042	0.00	0.49	4.90	5.38	69.90	24.72

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	9584	0	190.0	126.8	-5.6	256	0.00
	Haryana	10666	0	196.1	153.3	-3.4	147	0.00
	Rajasthan	11040	0	240.5	93.8	-0.8	347	0.00
	Delhi	5790	0	111.3	108.1	-2.2	110	0.06
	UP	22500	0	433.6	203.0	-0.9	292	0.12
	Uttarakhand	1888	0	42.8	19.5	-0.8	135	0.00
	HP	1659	0	33.5	-10.1	0.5	231	0.01
	J&K(UT) & Ladakh(UT)	2352	0	48.1	21.1	0.5	215	0.00
	Chandigarh	260	0	5.2	5.6	-0.4	18	0.00
Railways NR ISTS	141	0	3.1	3.5	-0.5	0	0.00	
WR	Chhattisgarh	4501	0	99.9	50.1	-0.9	259	0.00
	Gujarat	15456	0	350.5	176.1	0.0	724	0.00
	MP	10255	0	224.6	120.5	-2.5	1104	0.00
	Maharashtra	22345	0	495.1	164.0	-5.5	601	0.00
	Goa	614	0	12.3	12.1	-0.2	64	0.00
	DNHDDPDCL	1298	0	30.2	30.1	0.1	65	0.00
	AMNSIL	803	0	17.8	9.3	-0.3	265	0.00
	BALCO	521	0	12.4	12.5	-0.1	0	0.00
SR	Andhra Pradesh	9758	0	209.4	43.2	1.2	774	0.00
	Telangana	11144	0	216.9	98.1	1.9	1037	0.00
	Karnataka	10913	0	203.1	44.8	0.2	775	0.00
	Kerala	3548	0	70.8	51.4	1.3	262	0.00
	Tamil Nadu	16969	0	360.6	167.0	-2.5	420	0.00
	Puducherry	449	0	10.2	9.6	0.0	52	0.00
ER	Bihar	6555	0	133.6	130.3	-2.1	245	0.95
	DVC	3535	0	73.7	-27.5	0.6	223	0.00
	Jharkhand	1713	0	35.9	28.0	-0.8	123	0.00
	Odisha	6053	0	119.2	41.4	-2.9	240	0.00
	West Bengal	9343	0	189.8	76.4	-2.3	537	0.00
	Sikkim	78	0	1.2	1.3	-0.1	11	0.00
	Railways ER ISTS	10	0	0.3	0.3	0.0	8	0.00
NER	Arunachal Pradesh	142	0	2.4	2.2	0.0	42	0.00
	Assam	2201	0	43.7	36.5	0.6	167	0.00
	Manipur	167	0	2.5	2.6	-0.1	27	0.00
	Meghalaya	334	0	5.2	1.7	-0.1	54	1.01
	Mizoram	115	0	1.8	1.6	-0.3	16	0.00
	Nagaland	153	0	2.9	2.6	-0.1	27	0.00
	Tripura	319	0	5.5	5.4	0.4	55	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	41.0	6.5	-26.0	-14.6
Day Peak (MW)	1833.0	344.1	-1098.0	-630.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	261.0	-225.4	63.3	-99.4	0.5	0.0
Actual(MU)	222.5	-221.8	94.7	-104.9	3.1	-6.4
O/D/U/D(MU)	-38.5	3.6	31.4	-5.6	2.6	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5931	9911	6768	1700	351	24662	43
State Sector	8690	15669	5733	2250	251	32593	57
Total	14621	25580	12501	3950	602	57254	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	578	1222	540	549	11	2900	68
Lignite	17	12	36	0	0	65	2
Hydro	372	24	52	130	30	609	14
Nuclear	22	42	43	0	0	108	3
Gas, Naptha & Diesel	7	15	6	0	16	43	1
RES (Wind, Solar, Biomass & Others)	112	167	314	3	1	597	13
Total	1107	1483	991	682	58	4321	100

Share of RES in total generation (%)	9.61	10.60	29.98	0.49	1.64	13.10
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	43.92	15.76	39.45	19.00	46.30	29.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.083
Based on State Max Demands	1.106

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	183028	10:57	26
Non-Solar hr	185373	0:00	112

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: 09-Jul-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	1503	0.0	38.2	-38.2
2	HVDC	PUSAULI B/B	-	0	148	0.0	3.5	-3.5
3	765 kV	GAYA-VARANASI	2	775	186	4.6	0.0	4.6
4	765 kV	SASARAM-FATEHPUR	1	228	100	1.0	0.0	1.0
5	765 kV	GAYA-BALIA	1	0	680	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	151	0.0	2.7	-2.7
7	400 kV	PUSAULI-ALLAHABAD	1	0	82	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	617	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	2	0	498	0.0	7.6	-7.6
10	400 kV	NAUBATPUR-BALIA	2	0	524	0.0	7.5	-7.5
11	400 kV	BIHARSHARIFF-BALIA	2	59	195	0.0	2.7	-2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	40	348	0.0	4.7	-4.7
13	400 kV	BIHARSHARIFF-VARANASI	2	288	64	2.1	0.0	2.1
14	220 kV	SAHUPURI-KARAMNANA	1	17	97	0.0	0.8	-0.8
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	39	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						8.5	86.7	-78.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1446	241	17.7	0.0	17.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1417	536	19.7	0.0	19.7
3	765 kV	JHARSUGUDA-DURG	2	142	546	0.0	4.8	-4.8
4	400 kV	JHARSUGUDA-RAIGARH	4	29	383	0.0	3.0	-3.0
5	400 kV	RANCHI-SIPAT	2	301	157	4.0	0.0	4.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	44	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	105	0	1.4	0.0	1.4
ER-WR						42.9	9.0	33.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	460	0.0	10.3	-10.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1628	0.0	23.7	-23.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	3048	0.0	42.9	-42.9
4	400 kV	TALCHER-I/C	2	1009	499	4.3	0.0	4.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	76.9	-76.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	496	0.0	7.4	-7.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	118	416	0.0	4.0	-4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	0	152	0.0	2.2	-2.2
ER-NER						0.0	13.6	-13.6
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-KIRUKSHETRA	2	0	5045	0.0	75.0	-75.0
2	HVDC	VINDHYACHAL B/B	-	227	0	0.0	5.5	-5.5
3	HVDC	MUNDRA-MOHINDERGARH	2	264	0	0.0	6.0	-6.0
4	765 kV	GWALIOR-AGRA	2	678	1822	1.3	16.3	-15.0
5	765 kV	GWALIOR-PHAGI	2	672	1597	1.6	18.4	-16.8
6	765 kV	JABALPUR-ORAI	2	113	908	0.0	19.2	-19.2
7	765 kV	GWALIOR-ORAI	1	823	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	941	0.0	14.8	-14.8
9	765 kV	BANASKANTHA-CHITORGARH	2	985	677	10.4	2.2	8.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	3199	0.0	54.7	-54.7
11	400 kV	ZERDA-KANKROLI	1	193	115	2.0	0.5	1.5
12	400 kV	ZERDA -BHINMAL	1	447	177	4.2	0.8	3.4
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	20.3	0.0	20.3
14	400 kV	RAPP-SHUJALPUR	2	360	606	2.3	4.2	-1.9
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	108	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	90	8	0.8	0.0	0.8
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						55.8	219.4	-163.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	993	1009	2.4	0.0	2.4
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	43.1	-43.1
3	765 kV	SOLAPUR-RAICHUR	2	1787	2178	11.5	5.8	5.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3403	0.0	36.1	-36.1
5	400 kV	KOLHAPUR-KUDGI	2	1350	0	20.9	0.0	20.9
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	105	2.0	0.0	2.0
WR-SR						36.9	85.0	-48.1

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)	671	440	647	15.52	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	1047	877	975	23.40	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	191	129	151	3.63	
	NER	132kV GELEPHU-SALAKATI	-47	-25	-33	-0.80	
	NER	132kV MOTANGA-RANGIA	-52	-14	-34	-0.81	
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-59	0	-22	-0.52	
	ER	NEPAL IMPORT (FROM BIHAR)	-32	0	-76	-1.82	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	435	285	368	8.82	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	0	-932	-22.37	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-631	-262	-610	-14.65	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-152	-3.64	

