



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: 24th October 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 23.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-अक्टूबर-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 23th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 24-Oct-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)	51659	61443	45259	20003	2536	180900
Peak Shortage (MW)	50	0	0	0	0	50
Energy Met (MU)	1126	1514	1132	444	48	4264
Hydro Gen (MU)	164	40	50	46	21	320
Wind Gen (MU)	10	43	35	-	-	88
Solar Gen (MU)*	123.40	64.17	120.27	2.63	0.96	311
Energy Shortage (MU)	0.21	0.00	0.00	0.00	0.00	0.21
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55113	71514	55511	20622	2746	199617
Time Of Maximum Demand Met	18:28	11:02	10:50	18:17	17:32	10:50

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	0.032	0.00	0.00	2.42	2.42	76.02	21.56

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	7178	0	142.5	48.8	-0.8	181	0.00
	Haryana	7329	0	150.9	96.9	-1.4	199	0.00
	Rajasthan	14235	0	285.5	87.6	-3.0	157	0.00
	Delhi	3979	0	76.9	65.4	-0.5	261	0.00
	UP	18040	0	342.2	123.0	1.2	975	0.00
	Uttarakhand	1935	0	37.9	26.0	0.0	186	0.00
	HP	1768	0	32.6	21.4	-0.2	44	0.01
	J&K(UT) & Ladakh(UT)	2431	0	50.4	37.4	4.8	358	0.20
	Chandigarh	196	0	3.5	3.7	-0.2	4	0.00
Railways NR ISTS	174	0	3.4	3.7	-0.3	5	0.00	
WR	Chhattisgarh	4912	0	108.3	47.7	-1.5	128	0.00
	Gujarat	21355	0	426.4	191.2	-0.3	474	0.00
	MP	14272	0	298.9	184.8	-4.4	445	0.00
	Maharashtra	28094	0	607.6	284.2	-5.1	896	0.00
	Goa	675	0	13.9	13.0	0.8	45	0.00
	DNHDDPDCL	1213	0	28.3	28.4	-0.1	23	0.00
	AMNSIL	803	0	18.1	9.3	0.1	199	0.00
	BALCO	525	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	11986	0	229.8	92.0	-0.2	604	0.00
	Telangana	12661	0	264.5	138.6	-2.5	462	0.00
	Karnataka	14383	0	253.4	93.4	-2.7	671	0.00
	Kerala	3566	0	75.4	62.7	0.7	178	0.00
	Tamil Nadu	14051	0	300.4	178.7	-1.0	358	0.00
	Puducherry	359	0	8.3	8.0	-0.4	23	0.00
ER	Bihar	4965	0	100.4	92.3	-1.3	140	0.00
	DVC	3019	0	66.8	-38.0	1.0	380	0.00
	Jharkhand	1594	0	29.8	24.7	-3.2	197	0.00
	Odisha	4623	0	102.1	31.8	-2.2	312	0.00
	West Bengal	6752	0	143.6	12.7	-1.8	447	0.00
	Sikkim	60	0	0.8	0.8	0.0	23	0.00
NER	Railways ER ISTS	21	0	0.2	0.1	0.0	16	0.00
	Arunachal Pradesh	145	0	2.3	2.3	-0.2	20	0.00
	Assam	1564	0	28.1	20.0	0.3	111	0.00
	Manipur	190	0	2.5	2.6	-0.2	33	0.00
	Meghalaya	317	0	5.9	4.3	-0.2	35	0.00
	Mizoram	125	0	1.8	1.5	-0.2	15	0.00
	Nagaland	145	0	2.4	2.4	-0.2	13	0.00
Tripura	291	0	5.3	4.7	-0.1	44	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	9.3	17.1	-25.0	-25.2
Day Peak (MW)	422.5	861.0	-1080.0	-1251.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.9	-130.0	137.8	-154.2	-9.1	-5.5
Actual(MU)	147.4	-90.6	144.4	-196.8	-7.2	-2.8
O/D/U/D(MU)	-2.5	39.3	6.7	-42.6	1.9	2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4984	9142	3508	3966	235	21834	50
State Sector	5861	10205	4491	1880	121	22557	50
Total	10845	19346	7999	5846	356	44391	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	692	1511	696	655	12	3566	77
Lignite	24	19	57	0	0	100	2
Hydro	164	40	50	46	21	320	7
Nuclear	21	54	71	0	0	146	3
Gas, Naptha & Diesel	14	22	6	0	28	69	1
RES (Wind, Solar, Biomass & Others)	137	109	183	4	1	434	9
Total	1052	1754	1064	704	62	4636	100

Share of RES in total generation (%)	13.06	6.20	17.22	0.53	1.55	9.36
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.66	11.51	28.55	7.06	35.17	19.41

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.051

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199617	10:50	0
Non-Solar hr	189514	18:31	50

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: 24-Oct-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	701	0.0	17.8	-17.8
2	HVDC	PUSAULI B/B	-	0	49	0.0	0.0	0.0
3	765 kV	GAYA-VARANASI	2	0	834	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	0	535	0.0	9.0	-9.0
5	765 kV	GAYA-BALIA	1	0	522	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	27	34	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	76	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	552	0.0	9.1	-9.1
9	400 kV	PATNA-BALIA	2	0	453	0.0	7.9	-7.9
10	400 kV	NAUBATPUR-BALIA	2	0	485	0.0	8.1	-8.1
11	400 kV	BIHARSHARIF-BALIA	2	109	205	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	336	0.0	5.4	-5.4
13	400 kV	BIHARSHARIF-VARANASI	2	31	301	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNANA	1	10	97	0.0	1.6	-1.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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						0.5	87.8	-87.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	295	412	0.0	1.9	-1.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	160	746	0.0	5.0	-5.0
3	765 kV	JHARSUGUDA-DURG	2	0	751	0.0	14.6	-14.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	734	0.0	12.5	-12.5
5	400 kV	RANCHI-SIPAT	2	0	321	0.0	3.9	-3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	147	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	116	66	0.3	0.0	0.3
ER-WR						0.3	40.6	-40.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1643	0.0	37.4	-37.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2536	0.0	54.2	-54.2
4	400 kV	TALCHER-I/C	2	407	0	7.3	0.0	7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.2	-104.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	402	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	244	279	0.0	2.1	-2.1
3	220 kV	ALIPURDUAR-SALAKATI	2	22	72	0.0	0.9	-0.9
ER-NER						0.0	9.1	-9.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	5	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	28.0	-28.0
4	765 kV	GWALIOR-AGRA	2	178	931	0.2	10.3	-10.1
5	765 kV	GWALIOR-PHAGI	2	0	1659	0.0	24.9	-24.9
6	765 kV	JABALPUR-ORAI	2	0	595	0.0	16.5	-16.5
7	765 kV	GWALIOR-ORAI	1	916	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	943	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2377	0	35.6	0.0	35.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1842	0.0	32.5	-32.5
11	400 kV	ZERDA-KANKROLI	1	354	0	5.7	0.0	5.7
12	400 kV	ZERDA -BHINMAL	1	708	0	8.1	0.0	8.1
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	21.7	0.0	21.7
14	400 kV	RAPP-SHUJALPUR	2	535	233	3.6	0.9	2.7
15	220 kV	BHANPURA-RANPUR	1	0	146	0.0	2.6	-2.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
17	220 kV	MEHGAON-AURAIYA	1	120	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	89	0	1.3	0.0	1.3
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						93.6	137.3	-43.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	505	0.0	9.6	-9.6
2	HVDC	RAIGARH-PUGALUR	2	0	3006	0.0	59.0	-59.0
3	765 kV	SOLAPUR-RAICHUR	2	1394	76	13.1	0.0	13.1
4	765 kV	WARDHA-NIZAMABAD	2	0	1712	0.0	29.0	-29.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	0	0.0	33.2	-33.2
6	400 kV	KOLHAPUR-KUDGI	2	1506	0	28.3	0.0	28.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	114	2.3	0.0	2.3
WR-SR						43.8	130.8	-87.0

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)	164	73	117	2.80
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	305	266	305	8.11
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-122	-81	-96	-2.31
	NER	132kV GELEPHU-SALAKATI	4	-12	2	0.05
	NER	132kV MOTANGA-RANGIA	35	0	25	0.61
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.63
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	861	465	643	15.44
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-917	-918	-22.04
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1251	-910	-1048	-25.16
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-161	0	-124	-2.98

