

National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड 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: 28th 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 27.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-अक्टूबर-2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 27th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 28-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)	52438	62108	48888	21974	2838	188246
Peak Shortage (MW)	150	0	0	490	25	665
Energy Met (MU)	1152	1520	1240	474	53	4439
Hydro Gen (MU)	150	37	64	42	20	313
Wind Gen (MU)	10	32	41	-	-	83
Solar Gen (MU)*	121.72	66.37	123.63	3.27	1.18	316
Energy Shortage (MU)	1.16	0.00	0.00	3.32	0.15	4.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56231	70638	61319	22250	3054	207407
Time Of Maximum Demand Met	18:22	11:03	11:59	17:45	17:34	10:54

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	0.036	0.00	0.00	3.60	3.60	76.32	20.08

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	6911	0	142.1	45.3	0.1	299	0.00
	Haryana	7414	0	155.0	98.0	-1.0	154	0.00
	Rajasthan	14772	0	298.1	92.4	-1.8	333	0.00
	Delhi	4038	0	79.4	70.5	-0.5	183	0.00
	UP	18475	0	345.0	107.3	-1.7	1221	0.00
	Uttarakhand	2042	0	39.3	27.4	0.5	140	0.11
	HP	1856	0	33.6	22.7	0.1	80	0.00
	J&K(UT) & Ladakh(UT)	2438	100	52.0	39.0	4.8	525	1.05
	Chandigarh	199	0	3.5	3.7	-0.1	19	0.00
Railways NR ISTS	180	0	3.6	3.7	-0.1	27	0.00	
WR	Chhattisgarh	4810	0	104.1	42.9	-0.6	174	0.00
	Gujarat	21175	0	434.2	217.3	-1.6	502	0.00
	MP	14777	0	306.8	190.6	-3.5	580	0.00
	Maharashtra	27304	0	598.8	261.1	-0.1	684	0.00
	Goa	698	0	14.4	13.3	0.6	61	0.00
	DNHDDPDCL	1266	0	29.3	29.3	0.0	35	0.00
	AMNSIL	876	0	19.7	9.9	0.0	268	0.00
	BALCO	523	0	12.5	12.6	-0.1	8	0.00
SR	Andhra Pradesh	12921	0	245.1	99.2	-0.7	710	0.00
	Telangana	12884	0	246.7	123.4	-1.9	661	0.00
	Karnataka	15978	0	286.9	100.5	-0.6	700	0.00
	Kerala	4113	0	83.5	61.5	2.6	343	0.00
	Tamil Nadu	17071	0	367.9	218.2	-1.4	451	0.00
	Puducherry	457	0	10.3	9.9	-0.2	20	0.00
ER	Bihar	5041	530	100.0	90.0	-1.0	477	2.20
	DVC	3304	0	70.6	-45.5	-0.2	202	0.00
	Jharkhand	1547	0	30.7	24.3	-1.8	179	1.12
	Odisha	4718	0	104.3	17.7	-1.9	340	0.00
	West Bengal	8133	0	166.7	38.0	-3.1	126	0.00
	Sikkim	77	0	1.1	0.8	0.3	45	0.00
Railways ER ISTS	17	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	145	0	2.4	2.3	-0.2	36	0.00
	Assam	1900	0	33.6	25.1	0.5	164	0.00
	Manipur	188	0	2.5	2.5	0.0	33	0.00
	Meghalaya	304	12	5.9	3.9	-0.1	71	0.15
	Mizoram	120	0	1.8	1.3	-0.3	12	0.00
	Nagaland	147	0	2.4	2.2	-0.2	19	0.00
Tripura	279	0	5.0	4.3	-0.1	21	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.8	15.9	-24.9	-26.8
Day Peak (MW)	352.0	565.0	-1061.0	-1336.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.7	-167.8	162.9	-162.3	-3.5	0.0
Actual(MU)	160.7	-151.3	176.6	-187.1	-5.3	-6.5
O/D/U/D(MU)	-10.0	16.5	13.7	-24.8	-1.8	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7088	8569	4128	4811	205	24800	56
State Sector	6386	9861	2406	720	121	19493	44
Total	13474	18429	6534	5531	326	44293	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1590	754	676	16	3757	78
Lignite	27	13	58	0	0	99	2
Hydro	150	37	64	42	20	313	7
Nuclear	15	53	71	0	0	139	3
Gas, Naptha & Diesel	14	24	6	0	28	72	1
RES (Wind, Solar, Biomass & Others)	137	100	194	5	1	437	9
Total	1065	1817	1146	722	66	4816	100

Share of RES in total generation (%)	12.87	5.51	16.91	0.63	1.79	9.07
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.39	10.43	28.64	6.48	32.91	18.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207407	10:54	0
Non-Solar hr	196662	18:32	1032

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: 28-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	17.3	-17.3
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	13	536	0.0	7.2	-7.2
4	765 kV	SASARAM-FATEHPUR	1	0	411	0.0	8.1	-8.1
5	765 kV	GAYA-BALIA	1	0	538	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	1	24	25	0.2	0.0	0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	72	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	533	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	327	0.0	4.7	-4.7
10	400 kV	NAUBATPUR-BALIA	2	0	338	0.0	4.5	-4.5
11	400 kV	BIHARSHARIF-BALIA	2	61	180	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	29	283	0.0	3.6	-3.6
13	400 kV	BIHARSHARIF-VARANASI	2	17	252	0.0	3.4	-3.4
14	220 kV	SAHUPURI-KARAMNANA	1	10	89	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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						0.6	72.9	-72.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	199	726	0.0	6.4	-6.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	365	471	1.2	0.0	1.2
3	765 kV	JHARSUGUDA-DURG	2	0	681	0.0	14.2	-14.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	699	0.0	12.3	-12.3
5	400 kV	RANCHI-SIPAT	2	30	242	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	87	45	0.7	0.0	0.7
ER-WR						1.8	37.0	-35.2
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	1989	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2697	0.0	50.6	-50.6
4	400 kV	TALCHER-I/C	2	0	635	0.0	5.6	-5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	111.2	-111.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	332	0.0	5.0	-5.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	57	586	0.0	5.4	-5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	0	109	0.0	1.3	-1.3
ER-NER						0.0	11.6	-11.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	16.8	-16.8
NER-NR						0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	6	2	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1907	0.0	20.4	-20.4
4	765 kV	GWALIOR-AGRA	2	196	1278	0.1	15.4	-15.3
5	765 kV	GWALIOR-PHAGI	2	0	1697	0.0	27.8	-27.8
6	765 kV	JABALPUR-ORAI	2	0	695	0.0	21.9	-21.9
7	765 kV	GWALIOR-ORAI	1	811	0	13.7	0.0	13.7
8	765 kV	SATNA-ORAI	1	0	969	0.0	19.9	-19.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2411	0	30.6	0.0	30.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2366	0.0	41.4	-41.4
11	400 kV	ZERDA-KANKROLI	1	357	0	4.8	0.0	4.8
12	400 kV	ZERDA -BHINMAL	1	689	50	6.8	0.0	6.8
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	453	197	2.8	0.9	1.8
15	220 kV	BHANPURA-RANPUR	1	0	153	0.0	2.7	-2.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	132	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	107	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						83.8	158.3	-74.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	20.8	-20.8
2	HVDC	RAIGARH-PUGALUR	2	0	3510	0.0	79.2	-79.2
3	765 kV	SOLAPUR-RAICHUR	2	1505	260	16.9	0.1	16.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2207	0.0	33.1	-33.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1906	0.0	28.6	-28.6
6	400 kV	KOLHAPUR-KUDGI	2	1660	0	30.9	0.0	30.9
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	110	2.2	0.0	2.2
WR-SR						49.9	161.8	-111.9

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)	0	0	0	2.27
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	6.14
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.68
	NER	132kV GELEPHU-SALAKATI	7	0	12	0.28
	NER	132kV MOTANGA-RANGIA	36	0	-8	-0.20
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	75	0	68	1.63
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	565	518	565	14.30
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-911	-916	-21.99
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1337	-906	-1117	-26.80
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-121	-2.90

