

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: 01st 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 31.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-Nov-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 19:00 hrs; from RLDCs)	53662	62406	47744	22134	2901	188847
Peak Shortage (MW)	110	0	0	528	0	638
Energy Met (MU)	1171	1522	1164	469	53	4378
Hydro Gen (MU)	148	47	56	45	18	315
Wind Gen (MU)	22	46	35	-	-	104
Solar Gen (MU)*	102.26	61.68	96.90	2.71	1.28	265
Energy Shortage (MU)	0.75	0.00	0.00	1.13	0.00	1.88
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57032	71123	57621	22913	3102	203826
Time Of Maximum Demand Met	18:32	10:59	11:51	18:17	17:32	11:24

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	0.035	0.00	0.32	5.42	5.74	79.61	14.65

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	6986	0	144.2	51.0	-1.0	146	0.00
	Haryana	7340	0	155.0	93.5	-0.4	224	0.00
	Rajasthan	15558	0	312.5	110.8	-2.6	322	0.00
	Delhi	4124	0	80.9	72.8	-0.1	216	0.00
	UP	18569	0	350.6	111.7	-2.0	1296	0.00
	Uttarakhand	2026	0	39.3	28.0	0.4	143	0.00
	HP	1871	0	33.3	23.0	0.2	93	0.00
	J&K(UT) & Ladakh(UT)	2430	0	48.2	39.7	1.2	439	0.75
	Chandigarh	200	0	3.6	3.7	-0.1	15	0.00
Railways NR ISTS	180	0	3.5	3.4	0.1	24	0.00	
WR	Chhattisgarh	4703	0	97.3	39.6	-1.0	204	0.00
	Gujarat	21238	0	432.5	208.5	0.3	466	0.00
	MP	15209	0	315.5	181.3	-4.2	670	0.00
	Maharashtra	27760	0	603.3	239.3	-2.6	650	0.00
	Goa	633	0	13.8	12.8	0.3	33	0.00
	DNHDDPDCL	1239	0	28.8	28.9	-0.1	26	0.00
	AMNSIL	815	0	18.2	9.9	-0.5	210	0.00
	BALCO	521	0	12.4	12.5	-0.1	13	0.00
SR	Andhra Pradesh	12116	0	231.7	89.3	-0.3	602	0.00
	Telangana	12091	0	238.5	115.7	-1.1	601	0.00
	Karnataka	15090	0	271.6	105.3	-0.3	630	0.00
	Kerala	3988	0	80.8	60.2	1.7	426	0.00
	Tamil Nadu	16142	0	332.4	194.8	-4.7	496	0.00
	Puducherry	437	0	9.2	9.4	-0.3	36	0.00
ER	Bihar	5025	380	98.7	88.8	-1.4	361	0.81
	DVC	3328	0	71.3	-44.3	-2.1	395	0.00
	Jharkhand	1584	0	31.6	23.5	-1.9	154	0.32
	Odisha	4809	0	103.0	20.5	-1.2	338	0.00
	West Bengal	8311	0	163.0	38.7	-1.7	195	0.00
	Sikkim	85	0	1.2	0.8	0.4	55	0.00
	Railways ER ISTS	22	0	0.2	0.2	0.0	16	0.00
NER	Arunachal Pradesh	140	0	2.6	2.6	-0.2	12	0.00
	Assam	1912	0	32.1	24.9	-0.6	105	0.00
	Manipur	199	0	2.6	2.6	0.0	22	0.00
	Meghalaya	321	0	6.0	4.7	-0.1	30	0.00
	Mizoram	128	0	1.9	1.5	-0.1	24	0.00
	Nagaland	157	0	2.4	2.3	-0.1	11	0.00
Tripura	308	0	5.0	4.5	0.3	42	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.0	11.6	-24.6	-22.5
Day Peak (MW)	247.2	434.0	-1072.0	-1292.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.1	-172.6	152.7	-165.5	-1.6	1.1
Actual(MU)	190.6	-166.3	158.5	-184.3	-3.0	-4.5
O/D/U/D(MU)	2.5	6.3	5.8	-18.8	-1.5	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6063	9769	4208	3821	205	24065	55
State Sector	6351	8425	2406	2630	121	19933	45
Total	12414	18194	6614	6451	326	43998	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	730	1594	730	673	16	3743	78
Lignite	26	13	62	0	0	102	2
Hydro	148	47	56	45	18	315	7
Nuclear	15	53	71	0	0	139	3
Gas, Naptha & Diesel	12	17	4	0	28	61	1
RES (Wind, Solar, Biomass & Others)	131	111	168	4	1	414	9
Total	1062	1836	1091	722	63	4774	100

Share of RES in total generation (%)	12.33	6.02	15.38	0.49	2.03	8.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.67	11.51	27.05	6.76	30.59	18.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.067

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203826	11:24	0
Non-Solar hr	198440	18:19	713

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: 01-Nov-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	12.7	-12.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.4	-1.4
3	765 kV	GAYA-VARANASI	2	0	646	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	0	458	0.0	9.3	-9.3
5	765 kV	GAYA-BALIA	1	0	514	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	19	30	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	71	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	476	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	2	0	432	0.0	7.0	-7.0
10	400 kV	NAUBATPUR-BALIA	2	0	460	0.0	7.3	-7.3
11	400 kV	BIHARSHARIF-BALIA	2	31	180	0.0	1.6	-1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	343	0.0	5.3	-5.3
13	400 kV	BIHARSHARIF-VARANASI	2	0	260	0.0	3.5	-3.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	81	0.0	1.2	-1.2
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						0.4	76.9	-76.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1173	0.0	18.0	-18.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	247	824	0.0	4.8	-4.8
3	765 kV	JHARSUGUDA-DURG	2	0	759	0.0	15.2	-15.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	726	0.0	11.6	-11.6
5	400 kV	RANCHI-SIPAT	2	17	303	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	69	60	0.4	0.0	0.4
ER-WR						0.4	54.7	-54.3
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	994	0.0	24.3	-24.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2496	0.0	48.6	-48.6
4	400 kV	TALCHER-I/C	2	913	0	20.4	0.0	20.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	85.5	-85.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	262	0.0	4.3	-4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	590	0.0	7.7	-7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	114	0.0	1.4	-1.4
ER-NER						0.0	13.4	-13.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	17.1	-17.1
NER-NR						0.0	17.1	-17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	649	0.0	15.4	-15.4
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	17.9	-17.9
4	765 kV	GWALIOR-AGRA	2	148	1284	0.0	18.1	-18.0
5	765 kV	GWALIOR-PHAGI	2	0	1756	0.0	30.4	-30.4
6	765 kV	JABALPUR-ORAI	2	0	699	0.0	19.5	-19.5
7	765 kV	GWALIOR-ORAI	1	933	0	16.0	0.0	16.0
8	765 kV	SATNA-ORAI	1	0	971	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1686	0	22.9	0.0	22.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2375	0.0	40.6	-40.6
11	400 kV	ZERDA-KANKROLI	1	230	0	3.5	0.0	3.5
12	400 kV	ZERDA -BHINMAL	1	533	37	4.9	0.0	4.9
13	400 kV	VINDHYACHAL -RIHAND	1	956	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUALPUR	2	378	266	0.6	0.0	0.6
15	220 kV	BHANPURA-RANPUR	1	0	163	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	123	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.2	0.0	1.2
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						73.1	173.0	-99.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	19.1	-19.1
2	HVDC	RAIGARH-PUGALUR	2	0	4010	0.0	90.5	-90.5
3	765 kV	SOLAPUR-RAICHUR	2	1294	54	16.0	0.0	16.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1873	0.0	29.5	-29.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1760	0.0	27.1	-27.1
6	400 kV	KOLHAPUR-KUDGI	2	1643	0	28.2	0.0	28.2
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	101	2.1	0.0	2.1
WR-SR						46.3	166.2	-119.9

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)	72	-9	23	0.55
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	272	80	238	5.71
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-159	-101	-123	-2.95
	NER	132kV GELEPHU-SALAKATI	8	-3	-1	-0.02
	NER	132kV MOTANGA-RANGIA	35	0	28	0.68
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.59
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	434	269	418	10.02
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-920	-784	-904	-21.69
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1292	-536	-938	-22.50
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-152	0	-123	-2.94

