



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: 27th 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 26.10.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	52760	63577	49306	22438	2820	190901
Peak Shortage (MW)	45	0	0	507	25	577
Energy Met (MU)	1151	1529	1232	484	52	4449
Hydro Gen (MU)	156	44	62	45	21	327
Wind Gen (MU)	4	33	41	-	-	78
Solar Gen (MU)*	125.61	64.20	124.72	2.92	1.11	319
Energy Shortage (MU)	0.65	0.00	0.00	2.04	0.05	2.74
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56925	71205	60503	22327	3015	206927
Time Of Maximum Demand Met	18:31	11:01	11:49	18:24	17:17	10:57

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	0.20	5.15	5.35	78.29	16.36

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	7152	0	143.6	47.6	-0.8	79	0.00
	Haryana	7557	0	156.4	98.5	-1.7	162	0.00
	Rajasthan	14538	0	295.7	94.5	-3.0	372	0.00
	Delhi	4028	0	79.2	70.2	-0.3	200	0.00
	UP	18342	0	346.1	104.5	-0.6	1009	0.00
	Uttarakhand	2066	0	38.4	26.6	0.3	201	0.00
	HP	1823	0	33.3	22.2	-0.2	54	0.01
	J&K(UT) & Ladakh(UT)	2401	0	51.0	38.9	3.8	538	0.64
	Chandigarh	199	0	3.6	3.7	-0.1	12	0.00
Railways NR ISTS	171	0	3.5	3.6	-0.2	18	0.00	
WR	Chhattisgarh	4762	0	103.5	43.6	-1.9	136	0.00
	Gujarat	21284	0	439.6	212.5	-0.2	607	0.00
	MP	14527	0	303.8	191.5	-2.0	727	0.00
	Maharashtra	28004	0	607.7	267.4	0.1	622	0.00
	Goa	688	0	14.3	13.1	0.7	50	0.00
	DNHDDPDCL	1264	0	29.1	29.3	-0.2	57	0.00
	AMNSIL	850	0	18.6	10.0	-0.8	232	0.00
	BALCO	523	0	12.5	12.5	0.0	14	0.00
SR	Andhra Pradesh	12824	0	241.9	98.1	-1.2	554	0.00
	Telangana	12761	0	251.3	137.1	-1.4	460	0.00
	Karnataka	15667	0	282.3	103.0	-1.2	825	0.00
	Kerala	4081	0	83.1	67.7	1.0	450	0.00
	Tamil Nadu	17191	0	363.7	219.4	-0.1	877	0.00
	Puducherry	453	0	10.2	9.8	-0.2	24	0.00
ER	Bihar	5134	145	101.0	91.8	-1.7	308	0.80
	DVC	3288	0	71.2	-44.7	0.5	237	0.00
	Jharkhand	1578	0	31.8	24.1	-0.5	256	1.24
	Odisha	4959	0	113.7	24.3	-0.4	256	0.00
	West Bengal	8119	0	165.4	32.7	-2.6	178	0.00
	Sikkim	70	0	1.0	0.8	0.1	21	0.00
	Railways ER ISTS	16	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	150	0	2.5	2.3	0.0	70	0.00
	Assam	1853	0	32.3	24.1	0.3	185	0.00
	Manipur	192	0	2.5	2.7	-0.3	34	0.00
	Meghalaya	312	0	5.9	3.8	-0.2	181	0.05
	Mizoram	130	0	1.8	1.4	-0.3	12	0.00
	Nagaland	150	0	2.4	2.1	-0.1	16	0.00
	Tripura	276	0	4.8	4.3	-0.2	18	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	6.9	16.2	-25.1	-26.8
Day Peak (MW)	346.0	650.0	-1069.0	-1336.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	155.9	-168.7	174.4	-158.0	-3.7	0.0
Actual(MU)	144.3	-137.7	185.0	-190.3	-6.7	-5.5
O/D/U/D(MU)	-11.7	30.9	10.6	-32.3	-3.0	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7088	7966	4218	4486	205	23962	54
State Sector	5056	10561	3816	720	121	20273	46
Total	12144	18526	8034	5206	326	44235	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	735	1584	738	690	16	3763	78
Lignite	28	16	56	0	0	99	2
Hydro	156	44	62	45	21	327	7
Nuclear	15	53	71	0	0	139	3
Gas, Naptha & Diesel	13	21	6	0	28	68	1
RES (Wind, Solar, Biomass & Others)	135	98	195	5	1	434	9
Total	1081	1816	1129	740	66	4831	100

Share of RES in total generation (%)	12.45	5.42	17.31	0.63	1.68	8.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.29	10.73	29.05	6.72	32.94	18.63

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206927	10:57	5
Non-Solar hr	198949	18:31	1017

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: 27-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	702	0.0	17.2	-17.2
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	638	0.0	10.3	-10.3
4	765 kV	SASARAM-FATEHPUR	1	0	418	0.0	8.5	-8.5
5	765 kV	GAYA-BALIA	1	0	501	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	19	40	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	66	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	491	0.0	7.7	-7.7
9	400 kV	PATNA-BALIA	2	0	311	0.0	6.1	-6.1
10	400 kV	NAUBATPUR-BALIA	2	0	325	0.0	5.9	-5.9
11	400 kV	BIHARSHARIF-BALIA	2	98	156	0.0	1.7	-1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	258	0.0	4.2	-4.2
13	400 kV	BIHARSHARIF-VARANASI	2	0	252	0.0	3.3	-3.3
14	220 kV	SAHUPURI-KARAMNANA	1	10	94	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	66	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	77.0	-76.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	232	476	0.0	4.0	-4.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	379	491	0.0	1.8	-1.8
3	765 kV	JHARSUGUDA-DURG	2	0	662	0.0	13.8	-13.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	653	0.0	11.3	-11.3
5	400 kV	RANCHI-SIPAT	2	40	230	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	159	0.0	2.7	-2.7
7	220 kV	BUDHIPADAR-KORBA	2	88	46	0.5	0.0	0.5
ER-WR						0.5	36.1	-35.7
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	1994	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2644	0.0	51.2	-51.2
4	400 kV	TALCHER-I/C	2	0	638	0.0	5.5	-5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	111.9	-111.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	475	0.0	6.5	-6.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	117	365	0.0	2.7	-2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	90	0.0	1.1	-1.1
ER-NER						0.0	10.3	-10.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.9	-16.9
NER-NR						0.0	16.9	-16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	6	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	4.2	-4.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1169	0.0	24.1	-24.1
4	765 kV	GWALIOR-AGRA	2	311	1293	0.4	11.3	-10.9
5	765 kV	GWALIOR-PHAGI	2	0	1759	0.0	26.0	-26.0
6	765 kV	JABALPUR-ORAI	2	0	700	0.0	18.2	-18.2
7	765 kV	GWALIOR-ORAI	1	838	0	14.1	0.0	14.1
8	765 kV	SATNA-ORAI	1	0	912	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	2301	0	30.2	0.0	30.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2071	0.0	27.4	-27.4
11	400 kV	ZERDA-KANKROLI	1	329	0	4.9	0.0	4.9
12	400 kV	ZERDA -BHINMAL	1	728	0	6.6	0.0	6.6
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	16.7	0.0	16.7
14	400 kV	RAPP-SHUALPUR	2	531	190	2.4	0.0	2.4
15	220 kV	BHANPURA-RANPUR	1	0	148	0.0	2.6	-2.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	130	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	102	0	1.4	0.0	1.4
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						78.6	133.4	-54.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	17.0	-17.0
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	84.5	-84.5
3	765 kV	SOLAPUR-RAICHUR	2	1099	368	13.7	0.2	13.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1991	0.0	29.2	-29.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2127	0.0	32.4	-32.4
6	400 kV	KOLHAPUR-KUDGI	2	1524	0	29.0	0.0	29.0
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	117	2.3	0.0	2.3
WR-SR						44.9	163.3	-118.4

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	2.55
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	0	0	0	7.24
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-2.67
	NER	132kV GELEPHU-SALAKATI	-26	-14	-19	-0.46
	NER	132kV MOTANGA-RANGIA	26	0	9	0.22
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.65
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	650	545	608	14.59
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-919	-920	-22.09
	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	-146	0	-125	-3.00

