



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: 27th November 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 26.11.2023.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-नवंबर -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेंकें 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 November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	43597	50520	40644	19034	2432	156227
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1019	1332	961	405	45	3763
Hydro Gen (MU)	109	35	32	14	13	203
Wind Gen (MU)	19	105	95	-	-	218
Solar Gen (MU)*	29.45	27.47	93.79	5.24	1.12	157
Energy Shortage (MU)	0.20	0.00	0.00	0.59	0.00	0.79
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53206	65872	45726	20726	2569	184198
Time Of Maximum Demand Met	10:54	09:56	09:25	17:45	17:22	09:56

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	0.00	1.84	1.84	75.26	22.90

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	6810	0	133.8	49.9	-0.8	91	0.00
	Haryana	6596	0	126.9	89.1	0.1	222	0.00
	Rajasthan	15259	0	264.7	103.4	-6.7	334	0.00
	Delhi	3825	0	67.2	55.2	2.9	318	0.00
	UP	16059	0	295.7	113.4	-1.1	1134	0.00
	Uttarakhand	1967	0	36.6	28.1	-0.4	134	0.00
	HP	1841	1	32.4	25.5	-0.2	57	0.02
	J&K(UT) & Ladakh(UT)	2522	0	55.0	49.0	0.7	159	0.18
	Chandigarh	172	0	3.2	3.4	-0.3	2	0.00
Railways NR ISTS	188	0	3.6	3.7	-0.1	20	0.00	
WR	Chhattisgarh	4228	0	89.3	31.6	-0.5	281	0.00
	Gujarat	16205	0	318.2	147.4	-0.1	975	0.00
	MP	16783	0	306.7	188.2	-9.4	500	0.00
	Maharashtra	26352	0	547.1	212.5	-3.8	654	0.00
	Goa	656	0	13.6	12.8	0.2	46	0.00
	DNHDDPDCL	1190	0	27.2	27.2	0.0	43	0.00
	AMNSIL	824	0	17.7	7.0	-0.1	250	0.00
	BALCO	524	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	9621	0	198.6	70.3	-1.1	641	0.00
	Telangana	9170	0	193.8	93.4	1.0	450	0.00
	Karnataka	11964	0	225.1	81.4	-4.8	843	0.00
	Kerala	3776	0	75.1	61.0	1.3	247	0.00
	Tamil Nadu	12107	0	259.9	141.5	-5.0	377	0.00
	Puducherry	355	0	8.2	8.0	-0.4	28	0.00
ER	Bihar	4503	0	85.3	78.5	0.3	245	0.00
	DVC	3232	0	70.9	-26.5	0.4	262	0.00
	Jharkhand	1637	0	29.7	23.9	-2.9	160	0.59
	Odisha	4502	0	95.0	31.2	-3.1	255	0.00
	West Bengal	6184	0	123.1	15.0	-3.3	124	0.00
	Sikkim	77	0	1.2	1.3	-0.1	11	0.00
Railways ER ISTS	9	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	160	0	2.8	2.4	0.3	39	0.00
	Assam	1454	0	25.8	18.7	0.2	76	0.00
	Manipur	198	0	2.7	2.6	0.1	33	0.00
	Meghalaya	332	0	6.3	5.0	-0.1	191	0.00
	Mizoram	119	0	1.8	1.6	-0.1	9	0.00
	Nagaland	136	0	2.2	2.2	-0.1	18	0.00
Tripura	235	0	3.8	3.0	-0.1	27	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.5	3.5	-13.4	-20.0
Day Peak (MW)	-221.0	302.0	-579.0	-884.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.0	-198.1	112.9	-151.1	-1.6	0.0
Actual(MU)	245.6	-195.3	114.9	-165.7	0.8	0.3
O/D/U/D(MU)	7.6	2.9	2.0	-14.6	2.5	0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5876	9289	6418	3066	155	24803	41
State Sector	11336	13079	8089	3552	145	36200	59
Total	17212	22368	14507	6618	300	61003	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	606	1409	538	615	10	3178	78
Lignite	32	19	44	0	0	95	2
Hydro	109	35	32	14	13	203	5
Nuclear	21	52	76	0	0	149	4
Gas, Naptha & Diesel	10	5	5	0	27	47	1
RES (Wind, Solar, Biomass & Others)	66	135	217	8	1	428	10
Total	843	1656	911	637	52	4099	100

Share of RES in total generation (%)	7.86	8.17	23.83	1.18	2.17	10.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.22	13.48	35.64	3.43	27.18	19.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.041

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	184198	9:56	196
Non-Solar hr	166029	18:00	0

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-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1234	0.0	18.2	-18.2
4	765 kV	SASARAM-FATEHPUR	1	0	724	0.0	11.3	-11.3
5	765 kV	GAYA-BALIA	1	0	752	0.0	11.6	-11.6
6	400 kV	PUSAULI-VARANASI	1	59	10	0.5	0.0	0.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	105	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	13.0	-13.0
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	996	0.0	15.7	-15.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	518	0.0	8.3	-8.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	568	0.0	9.3	-9.3
13	400 kV	BIHARSHARIFF-VARANASI	2	0	448	0.0	6.7	-6.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	126	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.1	0.0	0.1
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	98.9	-98.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	649	980	0.0	5.7	-5.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	299	744	0.0	7.3	-7.3
3	765 kV	JHARSUGUDA-DURG	2	0	1040	0.0	19.9	-19.9
4	400 kV	JHARSUGUDA-RAIGARH	4	11	434	0.0	5.8	-5.8
5	400 kV	RANCHI-SIPAT	2	75	259	0.0	2.3	-2.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	138	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	133	94	0.5	0.0	0.5
ER-WR						0.5	42.6	-42.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	303	546	1.8	0.0	1.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1641	0.0	35.4	-35.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3315	0.0	50.6	-50.6
4	400 kV	TALCHER-I/C	2	658	656	6.7	0.0	6.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						1.8	86.0	-84.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	254	0	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	820	0	10.1	0.0	10.1
3	220 kV	ALIPURDUAR-SALAKATI	2	164	0	2.4	0.0	2.4
ER-NER						15.3	0.0	15.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	665	0	16.3	0.0	16.3
NER-NR						16.3	0.0	16.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2033	0.0	29.0	-29.0
2	HVDC	VINDHYACHAL B/B	-	431	0	10.2	0.0	10.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1446	0.0	17.1	-17.1
4	765 kV	GWALIOR-AGRA	2	0	2344	0.0	36.3	-36.3
5	765 kV	GWALIOR-PHAGI	2	0	2419	0.0	33.2	-33.2
6	765 kV	JABALPUR-ORAI	2	0	1187	0.0	30.2	-30.2
7	765 kV	GWALIOR-ORAI	1	1096	0	17.3	0.0	17.3
8	765 kV	SATNA-ORAI	1	0	1265	0.0	22.6	-22.6
9	765 kV	BANASKANTHA-CHITORGARH	2	558	1220	0.0	2.0	-2.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2470	0.0	40.3	-40.3
11	400 kV	ZERDA-KANKROLI	1	145	195	1.2	0.6	0.6
12	400 kV	ZERDA -BHINMAL	1	158	340	0.0	1.2	-1.2
13	400 kV	VINDHYACHAL -RIHAND	1	929	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUJALPUR	2	99	517	0.1	3.1	-3.0
15	220 kV	BHANPURA-RANPUR	1	0	150	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	72	0	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	58	11	0.3	0.0	0.3
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						52.1	219.2	-167.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	492	0.0	9.0	-9.0
2	HVDC	RAIGARH-PUGALUR	2	0	3006	0.0	36.8	-36.8
3	765 kV	SOLAPUR-RAICHUR	2	2169	1529	15.9	6.7	9.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2811	0.0	31.0	-31.0
5	765 kV	WARORA-WARANGAL(NEW)	2	55	2778	0.0	28.4	-28.4
6	400 kV	KOLHAPUR-KUDGI	2	1664	0	23.5	0.0	23.5
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	113	2.2	0.0	2.2
WR-SR						41.6	111.8	-70.2

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)	-65	14	-22	-0.52
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	176	145	153	3.68
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-277	-251	-266	-6.38
	NER	132kV GELEPHU-SALAKATI	-31	-14	-18	-0.44
	NER	132kV MOTANGA-RANGIA	13	4	8	0.18
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.27
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	372	192	200	4.80
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-455	-451	-452	-10.86
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-884	-805	-834	-20.01
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-104	-2.50

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 27-Nov-2023

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	10.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.79
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	10.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.79

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
Nepal	0.00	0.00	6.03	0.00	0.00	0.59	0.00	0.00	6.62
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.79	0.00	6.03	0.00	0.00	0.59	0.00	0.00	7.41

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
Nepal	0.00	0.00	6.03	0.00	0.00	0.59	0.00	0.00	6.62
Bangladesh	-10.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.79
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-10.00	0.00	6.03	0.00	0.00	0.59	0.00	0.00	-3.38