



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: 26th 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 25.11.2023.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-नवंबर -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 25th November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-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)	47652	59594	45223	19812	2620	174901
Peak Shortage (MW)	60	0	0	121	0	181
Energy Met (MU)	1062	1475	1026	411	48	4022
Hydro Gen (MU)	112	39	36	19	14	220
Wind Gen (MU)	26	102	60	-	-	188
Solar Gen (MU)*	84.50	49.93	82.51	5.08	1.20	223
Energy Shortage (MU)	0.06	0.00	0.00	0.75	0.00	0.81
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53622	72880	48610	21224	2780	194855
Time Of Maximum Demand Met	10:32	10:53	09:36	18:05	17:18	10:32

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	0.070	1.01	0.91	3.38	5.30	67.61	27.09

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	7429	0	142.2	57.5	0.1	247	0.00
	Haryana	7367	0	141.0	100.3	0.2	265	0.00
	Rajasthan	14676	0	274.6	85.2	-7.1	251	0.00
	Delhi	3698	0	68.8	57.2	2.5	313	0.00
	UP	16638	0	300.0	111.9	-2.2	620	0.00
	Uttarakhand	2067	0	39.2	30.7	-0.6	112	0.00
	HP	1977	0	34.7	27.1	0.1	97	0.00
	J&K(UT) & Ladakh(UT)	2550	0	54.9	49.0	0.5	212	0.06
	Chandigarh	188	0	3.4	3.6	-0.3	23	0.00
Railways_NR ISTS	186	0	3.7	3.7	0.0	18	0.00	
WR	Chhattisgarh	4316	0	89.7	30.8	-0.9	186	0.00
	Gujarat	20819	0	398.1	173.7	0.5	638	0.00
	MP	17065	0	330.0	205.7	-6.4	441	0.00
	Maharashtra	27615	0	583.4	233.3	-0.3	700	0.00
	Goa	727	0	15.0	13.9	1.1	41	0.00
	DNHDDPDCL	1245	0	28.4	28.3	0.1	42	0.00
	AMNSIL	796	0	17.9	7.4	0.2	293	0.00
	BALCO	525	0	12.5	12.5	0.0	12	0.00
SR	Andhra Pradesh	9500	0	200.3	70.2	-1.6	737	0.00
	Telangana	9485	0	196.5	93.6	0.3	1396	0.00
	Karnataka	13445	0	246.3	112.0	-1.8	1046	0.00
	Kerala	4095	0	80.9	66.8	0.7	196	0.00
	Tamil Nadu	14675	0	294.2	159.0	-3.4	777	0.00
	Puducherry	393	0	8.3	8.4	-0.1	35	0.00
ER	Bihar	4541	0	80.8	75.0	-2.7	227	0.00
	DVC	3362	0	68.4	-31.3	-2.5	394	0.00
	Jharkhand	1660	0	29.8	23.7	-2.6	170	0.75
	Odisha	4849	0	95.4	34.0	-2.6	360	0.00
	West Bengal	6882	0	134.8	24.7	-1.8	179	0.00
	Sikkim	95	0	1.5	1.5	0.0	47	0.00
Railways_ER ISTS	11	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	163	0	2.8	2.4	0.2	45	0.00
	Assam	1599	0	27.7	20.7	0.1	78	0.00
	Manipur	198	0	2.7	2.7	0.0	29	0.00
	Meghalaya	368	0	6.4	4.7	-0.2	56	0.00
	Mizoram	138	0	2.0	1.6	-0.1	13	0.00
	Nagaland	146	0	2.3	2.2	-0.1	13	0.00
Tripura	234	0	3.9	3.1	-0.3	43	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.9	7.0	-12.6	-19.8
Day Peak (MW)	-256.0	386.4	-580.0	-843.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	197.7	-166.3	146.8	-176.3	-1.9	0.0
Actual(MU)	196.9	-160.6	155.6	-195.1	-1.0	-4.2
O/D/U/D(MU)	-0.8	5.7	8.8	-18.9	0.9	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5328	9889	6628	2466	155	24465	43
State Sector	9896	10989	7219	4152	145	32400	57
Total	15224	20877	13847	6618	300	56865	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	636	1491	605	647	12	3391	77
Lignite	31	19	52	0	0	102	2
Hydro	112	39	36	19	14	220	5
Nuclear	21	52	76	0	0	149	3
Gas, Naptha & Diesel	12	16	4	0	27	58	1
RES (Wind, Solar, Biomass & Others)	129	154	174	7	1	465	11
Total	940	1771	947	672	54	4385	100

Share of RES in total generation (%)	13.68	8.68	18.36	1.08	2.21	10.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.80	13.85	30.23	3.84	27.58	19.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.055

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	194855	10:32	0
Non-Solar hr	186913	18:16	190

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: 26-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1270	0.0	19.6	-19.6
4	765 kV	SASARAM-FATEHPUR	1	0	741	0.0	12.7	-12.7
5	765 kV	GAYA-BALIA	1	0	584	0.0	11.0	-11.0
6	400 kV	PUSAULI-VARANASI	1	36	15	0.3	0.0	0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	82	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	796	0.0	13.5	-13.5
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	882	0.0	15.4	-15.4
11	400 kV	BIHARSHARIFF-BALIA	2	0	430	0.0	7.0	-7.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	542	0.0	9.2	-9.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	445	0.0	7.5	-7.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	131	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
16	132 kV	GARWAH-RIHAND	1	30	0	0.0	0.0	0.0
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	101.0	-100.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	145	965	0.0	7.0	-7.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	927	0.0	11.3	-11.3
3	765 kV	JHARSUGUDA-DURG	2	0	1115	0.0	22.9	-22.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	454	0.0	6.2	-6.2
5	400 kV	RANCHI-SIPAT	2	5	291	0.0	3.9	-3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	3	145	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	144	81	0.8	0.0	0.8
ER-WR						0.8	52.9	-52.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	546	0.0	12.5	-12.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	44.9	-44.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2645	0.0	46.7	-46.7
4	400 kV	TALCHER-IC	2	255	503	0.0	0.5	-0.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	104.1	-104.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	322	0	2.8	0.0	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	998	0	10.1	0.0	10.1
3	220 kV	ALIPURDUAR-SALAKATI	2	198	0	2.4	0.0	2.4
ER-NER						15.4	0.0	15.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	661	0	15.9	0.0	15.9
NER-NR						15.9	0.0	15.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	839	0.0	20.0	-20.0
2	HVDC	VINDHYACHAL B/B	-	431	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	27.9	-27.9
4	765 kV	GWALIOR-AGRA	2	0	1724	0.0	28.7	-28.7
5	765 kV	GWALIOR-PHAGI	2	0	1880	0.0	29.5	-29.5
6	765 kV	JABALPUR-ORAI	2	0	790	0.0	24.0	-24.0
7	765 kV	GWALIOR-ORAI	1	1061	0	16.4	0.0	16.4
8	765 kV	SATNA-ORAI	1	0	1112	0.0	22.1	-22.1
9	765 kV	BANASKANTHA-CHITORGARH	2	1555	137	13.3	0.0	13.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1751	0.0	30.9	-30.9
11	400 kV	ZERDA-KANKROLI	1	255	0	3.0	0.0	3.0
12	400 kV	ZERDA-BHINMAL	1	560	138	3.0	0.0	3.0
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	319	208	1.9	1.0	0.9
15	220 kV	BHANPURA-RANPUR	1	0	130	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	100	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	72	0	0.6	0.0	0.6
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						71.6	187.7	-116.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	493	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	4007	0.0	75.6	-75.6
3	765 kV	SOLAPUR-RAICHUR	2	2132	338	15.6	1.0	14.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1902	0.0	26.6	-26.6
5	765 kV	WARORA-WARANGAL(NEW)	2	134	1802	0.0	23.2	-23.2
6	400 kV	KOLHAPUR-KUDGI	2	1592	0	25.6	0.0	25.6
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	128	2.5	0.0	2.5
WR-SR						43.7	138.3	-94.6

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)	-62	0	-35	-0.84
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	254	83	151	3.62
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-294	-230	-262	-6.29
	NER	132kV GELEPHU-SALAKATI	-36	-14	-22	-0.53
	NER	132kV MOTANGA-RANGIA	15	1	7	0.16
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.52
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	318	94	226	5.43
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-457	-214	-426	-10.24
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-843	-806	-823	-19.76
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-123	0	-99	-2.37

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 26-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	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.21
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.21

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
Nepal	0.00	0.00	6.99	0.00	0.00	0.13	0.00	0.00	7.12
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	0.80	0.00	6.99	0.00	0.00	0.13	0.00	0.00	7.92

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	0.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80
Nepal	0.00	0.00	6.99	0.00	0.00	0.13	0.00	0.00	7.12
Bangladesh	-10.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-10.21
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-9.41	0.00	6.99	0.00	0.00	0.13	0.00	0.00	-2.29