



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: 13<sup>th</sup> 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 12.11.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-नवंबर -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 12<sup>th</sup> November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	39270	47208	36460	19897	2619	145454
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	950	1275	884	426	47	3581
Hydro Gen (MU)	130	25	31	19	14	218
Wind Gen (MU)	4	88	55	-	-	147
Solar Gen (MU)*	122.10	62.76	112.94	2.48	1.18	301
Energy Shortage (MU)	0.00	0.00	0.00	0.27	0.00	0.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47371	59577	42691	20254	2699	168985
Time Of Maximum Demand Met	07:54	10:19	09:15	17:52	17:15	09:57

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	0.063	0.00	0.00	4.15	4.15	67.89	27.96

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	5392	0	95.6	37.5	-0.7	465	0.00
	Haryana	4702	0	95.7	76.7	-2.6	187	0.00
	Rajasthan	14385	0	270.8	98.9	-4.6	418	0.00
	Delhi	3025	0	59.6	50.8	-0.6	180	0.00
	UP	15327	0	316.8	128.3	-1.2	516	0.00
	Uttarakhand	1603	0	28.6	17.3	-0.9	104	0.00
	HP	1352	0	23.3	14.7	-0.4	53	0.00
	J&K(UT) & Ladakh(UT)	2538	0	53.0	44.9	1.1	303	0.00
	Chandigarh	183	0	3.0	3.2	-0.3	26	0.00
Railways NR ISTS	198	0	3.9	3.7	0.2	54	0.00	
WR	Chhattisgarh	4078	0	86.1	27.3	1.1	333	0.00
	Gujarat	14932	0	299.5	145.0	-0.2	1188	0.00
	MP	16257	0	317.2	203.7	-4.9	1248	0.00
	Maharashtra	23470	0	511.5	203.6	1.5	691	0.00
	Goa	550	0	11.2	10.5	0.1	50	0.00
	DNHDDPDCL	1101	0	18.3	18.4	-0.1	50	0.00
	AMNSIL	846	0	19.0	9.6	0.1	243	0.00
	BALCO	524	0	12.4	12.5	-0.1	7	0.00
SR	Andhra Pradesh	10095	0	198.0	82.4	-1.2	644	0.00
	Telangana	9627	0	198.9	97.2	0.6	748	0.00
	Karnataka	10153	0	195.9	79.0	-1.6	759	0.00
	Kerala	3603	0	72.5	59.1	-0.1	261	0.00
	Tamil Nadu	10679	0	212.3	119.7	-4.1	558	0.00
	Puducherry	306	0	6.3	6.1	-0.5	19	0.00
ER	Bihar	4765	0	90.5	82.6	-1.4	267	0.00
	DVC	3238	0	70.7	-27.9	0.9	313	0.00
	Jharkhand	1574	0	32.7	24.4	-0.9	165	0.27
	Odisha	4452	0	98.2	23.9	-1.1	527	0.00
	West Bengal	6733	0	132.6	13.3	-3.4	102	0.00
	Sikkim	74	0	1.1	1.3	-0.2	7	0.00
Railways ER ISTS	21	0	0.1	0.1	0.0	7	0.00	
NER	Arunachal Pradesh	151	0	2.7	2.6	-0.1	30	0.00
	Assam	1693	0	26.9	20.7	-0.3	102	0.00
	Manipur	199	0	2.7	2.8	-0.1	25	0.00
	Meghalaya	318	0	5.9	4.8	-0.1	33	0.00
	Mizoram	108	0	1.8	1.5	-0.2	19	0.00
	Nagaland	144	0	2.3	2.2	-0.1	21	0.00
Tripura	260	0	4.3	3.6	0.1	29	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.2	12.0	-25.2	-24.5
Day Peak (MW)	-102.4	510.2	-1082.0	-1228.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	141.5	-133.3	107.1	-115.0	-0.4	0.0
Actual(MU)	127.7	-120.6	102.8	-117.1	0.4	-6.9
O/D/U/D(MU)	-13.9	12.7	-4.3	-2.2	0.7	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5315	10974	6608	4183	155	27234	39
State Sector	11781	17931	11009	1625	145	42491	61
Total	17096	28905	17617	5808	300	69724	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	553	1262	488	583	10	2897	74
Lignite	27	14	48	0	0	90	2
Hydro	131	25	31	19	14	220	6
Nuclear	21	52	76	0	0	148	4
Gas, Naptha & Diesel	10	6	5	0	27	46	1
RES (Wind, Solar, Biomass & Others)	147	153	196	4	1	501	13
Total	889	1511	844	607	52	3903	100

Share of RES in total generation (%)	16.53	10.10	23.23	0.73	2.26	12.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.61	15.21	35.88	3.82	29.45	22.29

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	168985	9:57	0
Non-Solar hr	155179	18:02	152

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: 13-Nov-2023

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	500	0.0	12.6	-12.6
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	441	553	1.5	0.0	1.5
4	765 kV	SASARAM-FATEHPUR	1	91	347	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	539	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	68	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	22	37	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	99	471	0.0	3.2	-3.2
9	400 kV	PATNA-BALIA	2	0	366	0.0	3.2	-3.2
10	400 kV	NAUBATPUR-BALIA	2	25	385	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	141	176	0.4	0.0	0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	65	280	0.0	2.0	-2.0
13	400 kV	BIHARSHARIFF-VARANASI	2	153	244	0.0	0.1	-0.1
14	220 kV	SAHUPURI-KARAMNANA	1	9	94	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>2.3</b>	<b>39.5</b>	<b>-37.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	203	457	0.0	2.7	-2.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	991	177	9.0	0.0	9.0
3	765 kV	JHARSUGUDA-DURG	2	0	635	0.0	10.4	-10.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	423	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	257	144	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	19	96	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	151	13	2.3	0.0	2.3
<b>ER-WR</b>						<b>13.0</b>	<b>18.1</b>	<b>-5.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	550	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1750	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2490	0.0	44.5	-44.5
4	400 kV	TALCHER-I/C	2	269	685	0.0	1.2	-1.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>96.8</b>	<b>-96.8</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	302	0.0	5.9	-5.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	550	0.0	9.8	-9.8
3	220 kV	ALIPURDUAR-SALAKATI	2	0	100	0.0	1.7	-1.7
<b>ER-NER</b>						<b>0.0</b>	<b>17.4</b>	<b>-17.4</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	706	0.0	16.9	-16.9
<b>NER-NR</b>						<b>0.0</b>	<b>16.9</b>	<b>-16.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	815	0.0	19.5	-19.5
2	HVDC	VINDHYACHAL B/B	-	434	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	498	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	66	1259	0.0	16.4	-16.4
5	765 kV	GWALIOR-PHAGI	2	418	1706	1.0	20.6	-19.6
6	765 kV	JABALPUR-ORAI	2	0	549	0.0	17.0	-17.0
7	765 kV	GWALIOR-ORAI	1	885	0	14.5	0.0	14.5
8	765 kV	SATNA-ORAI	1	0	886	0.0	17.0	-17.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1472	0	18.2	0.0	18.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2866	0.0	50.0	-50.0
11	400 kV	ZERDA-KANKROLI	1	192	0	2.7	0.0	2.7
12	400 kV	ZERDA -BHINMAL	1	440	104	2.3	0.0	2.3
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	20.2	0.0	20.2
14	400 kV	RAPP-SHUALPUR	2	629	160	4.0	0.5	3.5
15	220 kV	BHANPURA-RANPUR	1	0	119	0.0	1.8	-1.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	109	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	74	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
<b>WR-NR</b>						<b>78.1</b>	<b>156.6</b>	<b>-78.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	806	0.0	10.2	-10.2
2	HVDC	RAIGARH-PUGALUR	2	0	1501	0.0	17.2	-17.2
3	765 kV	SOLAPUR-RAICHUR	2	2577	854	13.4	4.4	8.9
4	765 kV	WARDHA-NIZAMABAD	2	399	2028	0.0	24.0	-24.0
5	765 kV	WARORA-WARANGAL(NEW)	2	424	2007	0.9	28.0	-27.0
6	400 kV	KOLHAPUR-KUDGI	2	1577	0	20.8	0.0	20.8
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	102	2.0	0.0	2.0
<b>WR-SR</b>						<b>37.1</b>	<b>83.8</b>	<b>-46.8</b>

**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)	-73	7	-32	-0.77
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	161	0	-12	-0.30
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-208	-164	-190	-4.57
	NER	132kV GELEPHU-SALAKATI	5	-12	0	0.01
	NER	132kV MOTANGA-RANGIA	27	0	18	0.43
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.66
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	436	360	430	10.31
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-928	-931	-22.34
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1229	-801	-1020	-24.49
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-144	0	-120	-2.88

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	0.00
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	22.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.49
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.49

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
Nepal	0.00	0.00	11.47	0.00	0.00	0.87	0.00	0.00	0.00	12.34
Bangladesh	0.00	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	0.00
Total Import	0.94	0.00	11.47	0.00	0.00	0.87	0.00	0.00	0.00	13.28

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	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.94
Nepal	0.00	0.00	11.47	0.00	0.00	0.87	0.00	0.00	0.00	12.34
Bangladesh	-22.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.49
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.55	0.00	11.47	0.00	0.00	0.87	0.00	0.00	0.00	-9.21