



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: 14<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 13.11.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13<sup>th</sup> November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	40857	49240	40731	20400	2553	153781
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	875	1221	911	414	46	3467
Hydro Gen (MU)	131	25	34	18	14	221
Wind Gen (MU)	7	60	60	-	-	126
Solar Gen (MU)*	106.32	56.20	106.27	2.69	1.24	273
Energy Shortage (MU)	0.00	0.00	0.00	0.09	0.00	0.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	44209	59381	44328	21453	2736	164063
Time Of Maximum Demand Met	18:16	11:16	11:43	17:40	17:33	11:17

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	0.044	0.22	0.47	6.45	7.14	70.72	22.14

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	4500	0	85.5	32.4	-2.0	93	0.00
	Haryana	4568	0	87.6	65.6	0.5	277	0.00
	Rajasthan	13483	0	256.5	97.4	-3.0	257	0.00
	Delhi	2872	0	55.9	48.3	-0.4	202	0.00
	UP	15827	0	282.6	109.6	-1.4	1326	0.00
	Uttarakhand	1544	0	27.0	16.2	-0.4	84	0.00
	HP	1232	0	20.5	11.9	-0.2	43	0.00
	J&K(UT) & Ladakh(UT)	2496	0	52.7	44.4	2.2	257	0.00
	Chandigarh	160	0	2.9	3.2	-0.3	15	0.00
Railways NR ISTS	180	0	3.8	3.7	0.1	30	0.00	
WR	Chhattisgarh	3869	0	79.7	23.6	-1.4	228	0.00
	Gujarat	14696	0	282.3	151.2	2.7	362	0.00
	MP	15464	0	300.5	188.8	-3.7	565	0.00
	Maharashtra	23161	0	498.9	197.6	-1.1	612	0.00
	Goa	660	0	12.8	11.8	0.6	45	0.00
	DNHDDPDCL	718	0	15.8	15.8	0.0	40	0.00
	AMNSIL	842	0	18.3	8.1	0.4	338	0.00
	BALCO	519	0	12.4	12.5	-0.1	11	0.00
SR	Andhra Pradesh	10300	0	199.9	77.9	-1.5	724	0.00
	Telangana	9817	0	201.7	103.6	0.3	717	0.00
	Karnataka	11043	0	199.1	75.7	0.3	806	0.00
	Kerala	4078	0	78.8	64.5	1.1	213	0.00
	Tamil Nadu	11208	0	224.9	139.8	-3.7	566	0.00
	Puducherry	333	0	6.9	6.6	-0.3	29	0.00
ER	Bihar	4498	0	87.3	77.9	-0.9	311	0.09
	DVC	3257	0	68.9	-27.3	0.7	267	0.00
	Jharkhand	1531	0	29.7	23.7	-3.4	97	0.00
	Odisha	4618	0	98.1	24.5	-1.3	264	0.00
	West Bengal	7107	0	128.9	15.5	-3.1	67	0.00
	Sikkim	71	0	1.0	1.2	-0.2	10	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	8	0.00	
NER	Arunachal Pradesh	156	0	2.7	2.6	0.0	27	0.00
	Assam	1561	0	25.6	18.4	0.3	121	0.00
	Manipur	199	0	2.7	2.7	0.0	28	0.00
	Meghalaya	331	0	6.0	5.0	-0.1	65	0.00
	Mizoram	133	0	1.9	1.6	-0.2	8	0.00
	Nagaland	148	0	2.3	2.2	-0.1	12	0.00
Tripura	257	0	4.4	3.7	0.0	27	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.7	12.1	-24.0	-22.9
Day Peak (MW)	-198.5	542.0	-1084.0	-1170.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	121.0	-132.1	133.0	-120.4	-1.5	0.0
Actual(MU)	112.4	-118.7	139.0	-131.7	-1.6	-0.7
O/D/U/D(MU)	-8.6	13.4	6.0	-11.4	-0.1	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6385	11334	6108	3466	155	27447	40
State Sector	11581	17661	10519	1625	145	41531	60
Total	17966	28995	16627	5091	300	68978	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	500	1233	496	585	11	2825	75
Lignite	29	14	49	0	0	92	2
Hydro	132	25	34	18	14	223	6
Nuclear	20	52	76	0	0	148	4
Gas, Naptha & Diesel	10	5	4	0	27	45	1
RES (Wind, Solar, Biomass & Others)	130	119	198	4	1	451	12
Total	820	1448	856	606	53	3784	100

Share of RES in total generation (%)	15.79	8.21	23.07	0.65	2.32	11.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.38	13.53	35.90	3.57	28.66	21.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.081

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	164063	11:17	0
Non-Solar hr	163299	18:16	159

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: 14-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	12.0	-12.0
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	266	485	0.0	1.7	-1.7
4	765 kV	SASARAM-FATEHPUR	1	13	375	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	492	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	0	55	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	9	45	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	63	383	0.0	2.8	-2.8
9	400 kV	PATNA-BALIA	2	0	312	0.0	4.1	-4.1
10	400 kV	NAUBATPUR-BALIA	2	0	321	0.0	3.6	-3.6
11	400 kV	BIHARSHARIFF-BALIA	2	109	119	0.4	0.0	0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	28	224	0.0	2.3	-2.3
13	400 kV	BIHARSHARIFF-VARANASI	2	119	174	0.0	0.7	-0.7
14	220 kV	SAHUPURI-KARAMNANA	1	11	85	0.0	0.9	-0.9
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.8</b>	<b>41.5</b>	<b>-40.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	94	733	0.0	5.7	-5.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	739	314	6.9	0.0	6.9
3	765 kV	JHARSUGUDA-DURG	2	0	657	0.0	11.2	-11.2
4	400 kV	JHARSUGUDA-RAIGARH	4	40	431	0.0	4.0	-4.0
5	400 kV	RANCHI-SIPAT	2	193	154	0.0	2.0	-2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	20	72	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	161	0	2.5	0.0	2.5
<b>ER-WR</b>						<b>9.3</b>	<b>23.7</b>	<b>-14.3</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	1646	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2684	0.0	46.0	-46.0
4	400 kV	TALCHER-I/C	2	260	642	0.0	4.6	-4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>98.3</b>	<b>-98.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	312	0.0	5.5	-5.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	95	553	0.0	7.7	-7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	16	98	0.0	1.3	-1.3
<b>ER-NER</b>						<b>0.0</b>	<b>14.5</b>	<b>-14.5</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	706	0	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-KIRUKSHETRA	2	0	814	0.0	19.0	-19.0
2	HVDC	VINDHYACHAL B/B	-	433	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	197	1266	0.2	13.9	-13.8
5	765 kV	GWALIOR-PHAGI	2	130	1645	0.1	20.9	-20.9
6	765 kV	JABALPUR-ORAI	2	0	511	0.0	15.3	-15.3
7	765 kV	GWALIOR-ORAI	1	869	0	14.2	0.0	14.2
8	765 kV	SATNA-ORAI	1	0	833	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1722	0	20.8	0.0	20.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2089	0.0	39.9	-39.9
11	400 kV	ZERDA-KANKROLI	1	230	0	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	482	87	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	962	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	545	148	3.6	0.4	3.1
15	220 kV	BHANPURA-RANPUR	1	0	125	0.0	1.8	-1.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	85	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>82.6</b>	<b>141.3</b>	<b>-58.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	806	0.0	19.2	-19.2
2	HVDC	RAIGARH-PUGALUR	2	0	3007	0.0	26.5	-26.5
3	765 kV	SOLAPUR-RAICHUR	2	1811	1048	5.7	0.0	5.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2184	0.0	28.7	-28.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2197	0.0	28.4	-28.4
6	400 kV	KOLHAPUR-KUDGI	2	1495	0	20.0	0.0	20.0
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	113	2.1	0.0	2.1
<b>WR-SR</b>						<b>27.8</b>	<b>102.8</b>	<b>-75.1</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)	-60	15	-31	-0.74
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	164	-15	87	2.09
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-224	-181	-224	-5.43
	NER	132kV GELEPHU-SALAKATI	0	0	0	0.00
	NER	132kV MOTANGA-RANGIA	23	0	15	0.37
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.68
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	468	395	433	10.38
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-646	-880	-21.12
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1170	-802	-955	-22.93
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-146	0	-119	-2.86

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 14-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	21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.15
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.15

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	0.94
Nepal	0.00	0.00	11.47	0.00	0.00	1.05	0.00	0.00	12.52
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	0.94	0.00	11.47	0.00	0.00	1.05	0.00	0.00	13.46

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	0.94
Nepal	0.00	0.00	11.47	0.00	0.00	1.05	0.00	0.00	12.52
Bangladesh	-21.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.15
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.21	0.00	11.47	0.00	0.00	1.05	0.00	0.00	-7.69