

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: 30<sup>th</sup> 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 29.10.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29<sup>th</sup> October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-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)	49812	59546	43076	20915	2698	176047
Peak Shortage (MW)	0	0	0	266	0	266
Energy Met (MU)	1101	1480	1152	449	50	4233
Hydro Gen (MU)	144	34	46	38	19	281
Wind Gen (MU)	6	29	41	-	-	76
Solar Gen (MU)*	119.52	64.97	100.00	2.90	1.24	289
Energy Shortage (MU)	0.29	0.00	0.00	0.98	0.04	1.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53028	68278	57147	22363	2857	197158
Time Of Maximum Demand Met	18:41	10:47	09:45	17:52	17:35	10:28

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	0.030	0.00	0.00	4.18	4.18	79.96	15.87

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	6384	0	132.0	51.7	-0.2	229	0.00
	Haryana	6644	0	139.1	79.7	-0.4	383	0.00
	Rajasthan	14785	0	300.0	105.4	-1.9	261	0.00
	Delhi	3656	0	73.6	64.2	0.1	212	0.00
	UP	17403	0	331.5	117.6	-0.9	1256	0.00
	Uttarakhand	1871	0	36.4	25.8	-0.1	176	0.00
	HP	1680	0	31.2	21.5	-0.5	50	0.05
	J&K(UT) & Ladakh(UT)	2410	0	51.0	41.7	1.9	370	0.24
	Chandigarh	183	0	3.2	3.3	-0.1	8	0.00
Railways NR ISTS	185	0	3.4	3.6	-0.1	15	0.00	
WR	Chhattisgarh	4638	0	100.9	40.5	-0.2	205	0.00
	Gujarat	20132	0	421.3	219.7	-0.6	420	0.00
	MP	14505	0	306.3	184.7	-6.0	468	0.00
	Maharashtra	26645	0	580.2	237.2	-6.5	730	0.00
	Goa	630	0	13.3	11.7	1.0	35	0.00
	DNHDDPDCL	1212	0	28.2	28.1	0.1	33	0.00
	AMNSIL	831	0	17.5	10.7	-0.3	342	0.00
	BALCO	522	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12387	0	235.7	95.7	-1.8	423	0.00
	Telangana	12276	0	238.0	113.9	0.4	578	0.00
	Karnataka	15129	0	271.0	98.5	-1.3	691	0.00
	Kerala	3510	0	74.5	59.5	2.5	292	0.00
	Tamil Nadu	14969	0	323.7	194.5	-2.1	350	0.00
	Puducherry	398	0	9.5	9.0	-0.3	24	0.00
ER	Bihar	5298	0	99.1	90.4	-0.9	256	0.00
	DVC	3477	0	71.7	-39.9	0.4	263	0.00
	Jharkhand	1565	0	31.2	24.7	-2.7	157	0.98
	Odisha	4605	0	97.5	19.5	-1.8	306	0.00
	West Bengal	7188	0	148.6	30.3	-1.8	393	0.00
	Sikkim	71	0	1.0	1.0	0.0	33	0.00
	Railways ER ISTS	21	0	0.2	0.1	0.0	11	0.00
NER	Arunachal Pradesh	150	0	2.7	2.7	-0.2	16	0.00
	Assam	1732	0	30.5	23.4	-0.6	101	0.00
	Manipur	189	0	2.6	2.7	-0.1	18	0.00
	Meghalaya	311	0	5.7	4.2	-0.1	93	0.04
	Mizoram	111	0	1.8	1.3	-0.3	14	0.00
	Nagaland	142	0	2.5	2.3	0.0	13	0.00
	Tripura	257	0	4.5	4.5	-0.2	71	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	5.0	14.5	-25.1	-23.2
Day Peak (MW)	296.5	556.0	-1070.0	-1179.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	184.8	-176.3	141.2	-146.5	-7.0	-3.7
Actual(MU)	176.3	-154.8	163.9	-187.9	-4.4	-6.9
O/D/U/D(MU)	-8.5	21.4	22.7	-41.4	2.5	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6838	8569	4068	3491	205	23170	52
State Sector	6596	10326	3036	1470	121	21548	48
Total	13434	18894	7104	4961	326	44718	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	669	1569	711	651	14	3615	79
Lignite	28	11	62	0	0	101	2
Hydro	144	34	46	38	19	281	6
Nuclear	15	53	71	0	0	139	3
Gas, Naptha & Diesel	9	6	6	0	28	49	1
RES (Wind, Solar, Biomass & Others)	131	95	173	4	1	404	9
Total	996	1769	1070	693	62	4590	100

Share of RES in total generation (%)	13.14	5.38	16.20	0.55	2.01	8.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.09	10.32	27.12	6.06	33.18	17.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
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	197158	10:28	12
Non-Solar hr	184599	18:38	266

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: 30-Oct-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	701	0.0	16.5	-16.5
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	0	659	0.0	13.1	-13.1
4	765 kV	SASARAM-FATEHPUR	1	0	475	0.0	7.5	-7.5
5	765 kV	GAYA-BALIA	1	0	523	0.0	5.4	-5.4
6	400 kV	PUSAULI-VARANASI	1	34	41	0.0	0.1	-0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	81	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	3	562	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	2	0	439	0.0	7.7	-7.7
10	400 kV	NAUBATPUR-BALIA	2	0	473	0.0	7.9	-7.9
11	400 kV	BIHARSHARIFF-BALIA	2	143	207	0.0	2.6	-2.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	315	0.0	5.6	-5.6
13	400 kV	BIHARSHARIFF-VARANASI	2	88	323	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNANA	1	24	140	0.0	1.3	-1.3
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	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.4</b>	<b>82.1</b>	<b>-81.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1460	0.0	19.0	-19.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	165	751	0.0	4.1	-4.1
3	765 kV	JHARSUGUDA-DURG	2	0	847	0.0	15.9	-15.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	733	0.0	12.9	-12.9
5	400 kV	RANCHI-SIPAT	2	0	266	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	103	98	0.5	0.0	0.5
<b>ER-WR</b>						<b>0.5</b>	<b>56.2</b>	<b>-55.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	15	1639	0.0	42.6	-42.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2349	0.0	45.1	-45.1
4	400 kV	TALCHER-I/C	2	1622	0	18.7	0.0	18.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>100.3</b>	<b>-100.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	247	0.0	4.3	-4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	109	453	0.0	6.3	-6.3
3	220 kV	ALIPURDUAR-SALAKATI	2	9	85	0.0	1.3	-1.3
<b>ER-NER</b>						<b>0.0</b>	<b>11.9</b>	<b>-11.9</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	17.1	-17.1
<b>NER-NR</b>						<b>0.0</b>	<b>17.1</b>	<b>-17.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	642	0.0	4.4	-4.4
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	113	1231	0.0	14.9	-14.9
5	765 kV	GWALIOR-PHAGI	2	0	1924	0.0	31.5	-31.5
6	765 kV	JABALPUR-ORAI	2	0	683	0.0	22.0	-22.0
7	765 kV	GWALIOR-ORAI	1	872	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	970	0.0	20.3	-20.3
9	765 kV	BANASKANTHA-CHITORGARH	2	2111	0	33.3	0.0	33.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2040	0.0	36.4	-36.4
11	400 kV	ZERDA-KANKROLI	1	291	0	4.7	0.0	4.7
12	400 kV	ZERDA -BHINMAL	1	606	0	5.9	0.0	5.9
13	400 kV	VINDHYACHAL -RIHAND	1	957	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUALPUR	2	345	321	0.0	0.9	-0.9
15	220 kV	BHANPURA-RANPUR	1	0	167	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	109	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	81	0	1.1	0.0	1.1
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>83.8</b>	<b>164.9</b>	<b>-81.1</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6027	0.0	111.1	-111.1
3	765 kV	SOLAPUR-RAICHUR	2	1510	0	22.5	0.0	22.5
4	765 kV	WARDHA-NIZAMABAD	2	0	1370	0.0	23.8	-23.8
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1415	0.0	21.7	-21.7
6	400 kV	KOLHAPUR-KUDGI	2	1507	0	28.7	0.0	28.7
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	110	2.2	0.0	2.2
<b>WR-SR</b>						<b>53.4</b>	<b>180.5</b>	<b>-127.1</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)	83	26	50	1.20
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	254	95	254	6.10
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-146	-111	-130	-3.11
	NER	132kV GELEPHU-SALAKATI	8	-8	3	0.08
	NER	132kV MOTANGA-RANGIA	34	0	28	0.68
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.57
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	556	337	539	12.94
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-916	-912	-914	-21.95
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1179	-809	-966	-23.19
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-132	-3.16

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-Oct-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	22.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.04
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.04

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	3.57	0.00	1.05	0.00	0.00	0.00	0.00	0.00	4.62
Nepal	2.63	0.00	10.14	0.00	0.00	0.49	0.00	0.00	13.26
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	6.20	0.00	11.19	0.00	0.00	0.49	0.00	0.00	17.88

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	3.57	0.00	1.05	0.00	0.00	0.00	0.00	0.00	4.62
Nepal	2.63	0.00	10.14	0.00	0.00	0.49	0.00	0.00	13.26
Bangladesh	-22.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.04
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-15.84	0.00	11.19	0.00	0.00	0.49	0.00	0.00	-4.16