



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: 02<sup>nd</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 01.11.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01<sup>st</sup> November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	52099	61717	46405	21915	2891	185027
Peak Shortage (MW)	0	0	0	350	0	350
Energy Met (MU)	1169	1511	1143	478	54	4355
Hydro Gen (MU)	143	37	44	45	18	287
Wind Gen (MU)	10	33	36	-	-	79
Solar Gen (MU)*	100.74	60.91	95.89	5.08	1.33	264
Energy Shortage (MU)	0.49	0.00	0.00	1.14	0.00	1.63
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55485	70714	56593	22723	3022	203839
Time Of Maximum Demand Met	18:30	10:27	12:30	17:46	17:23	11:32

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	0.033	0.00	0.06	5.83	5.89	79.59	14.52

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	6996	0	142.7	41.6	0.5	247	0.00
	Haryana	7351	0	150.0	91.9	-1.8	135	0.00
	Rajasthan	15522	0	314.6	121.6	-2.9	341	0.00
	Delhi	4186	0	81.5	72.0	0.3	253	0.00
	UP	18325	0	348.6	108.9	-0.9	1202	0.00
	Uttarakhand	1960	0	38.7	28.3	-0.6	108	0.00
	HP	1780	0	33.4	23.8	-0.3	134	0.00
	J&K(UT) & Ladakh(UT)	2535	0	52.3	40.0	4.9	723	0.49
	Chandigarh	191	0	3.5	3.6	-0.1	28	0.00
Railways NR ISTS	193	0	3.7	3.5	0.2	23	0.00	
WR	Chhattisgarh	4634	0	99.8	40.6	-0.8	455	0.00
	Gujarat	20626	0	424.2	213.3	-0.2	315	0.00
	MP	15491	0	315.2	186.4	-4.8	682	0.00
	Maharashtra	27717	0	599.1	233.0	-3.6	598	0.00
	Goa	690	0	14.2	12.6	1.0	84	0.00
	DNHDDPDCL	1218	0	27.9	27.9	0.0	74	0.00
	AMNSIL	820	0	17.7	9.8	0.0	242	0.00
BALCO	521	0	12.4	12.5	-0.1	8	0.00	
SR	Andhra Pradesh	12085	0	230.5	96.4	0.2	956	0.00
	Telangana	11857	0	233.6	105.0	0.3	574	0.00
	Karnataka	13995	0	253.6	101.8	-2.7	639	0.00
	Kerala	4122	0	80.9	64.3	2.2	348	0.00
	Tamil Nadu	16099	0	335.7	192.1	-1.3	372	0.00
	Puducherry	402	0	8.9	9.4	-0.5	15	0.00
ER	Bihar	5063	0	98.7	89.9	-2.0	351	0.31
	DVC	3295	0	71.4	-45.1	-0.5	281	0.00
	Jharkhand	1511	0	31.6	23.3	-1.5	175	0.83
	Odisha	4416	0	104.4	29.5	-0.4	335	0.00
	West Bengal	8402	0	170.9	42.0	-2.0	219	0.00
	Sikkim	88	0	1.1	1.2	-0.1	22	0.00
	Railways ER ISTS	13	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	160	0	2.6	2.6	-0.2	38	0.00
	Assam	1936	0	33.3	25.3	0.5	146	0.00
	Manipur	198	0	2.6	2.7	0.0	26	0.00
	Meghalaya	320	0	5.9	4.7	-0.4	163	0.00
	Mizoram	128	0	1.9	1.6	-0.2	9	0.00
	Nagaland	152	0	2.4	2.3	-0.1	20	0.00
	Tripura	307	0	5.1	4.8	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	4.0	9.2	-24.9	-25.3
Day Peak (MW)	219.0	407.0	-1082.0	-1299.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	183.0	-155.1	136.8	-158.9	-5.8	0.0
Actual(MU)	180.2	-144.0	143.0	-179.5	-2.9	-3.3
O/D/U/D(MU)	-2.9	11.2	6.2	-20.6	2.8	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5763	11689	4208	3821	251	25732	54
State Sector	7741	8560	2916	2225	121	21563	46
Total	13504	20249	7124	6046	372	47294	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	753	1581	738	681	17	3770	79
Lignite	25	13	63	0	0	101	2
Hydro	143	37	44	45	18	287	6
Nuclear	15	54	71	0	0	139	3
Gas, Naptha & Diesel	12	22	4	0	28	66	1
RES (Wind, Solar, Biomass & Others)	119	97	164	7	1	387	8
Total	1067	1803	1083	733	64	4750	100

Share of RES in total generation (%)	11.12	5.35	15.12	0.93	2.08	8.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.90	10.40	25.70	7.10	29.78	17.12

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.056

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203839	11:32	0
Non-Solar hr	194637	18:19	504

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: 02-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	703	0.0	14.4	-14.4
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	670	0.0	12.5	-12.5
4	765 kV	SASARAM-FATEHPUR	1	0	468	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	573	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	21	54	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	6	72	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	25	388	0.0	4.4	-4.4
9	400 kV	PATNA-BALIA	2	0	373	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	0	391	0.0	6.8	-6.8
11	400 kV	BIHARSHARIFF-BALIA	2	82	147	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	251	0.0	4.0	-4.0
13	400 kV	BIHARSHARIFF-VARANASI	2	0	256	0.0	5.1	-5.1
14	220 kV	SAHUPURI-KARAMNUSA	1	17	89	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.4	0.0	0.4
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
<b>ER-NR</b>						<b>0.4</b>	<b>77.9</b>	<b>-77.5</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1033	0.0	15.5	-15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	138	757	0.0	7.4	-7.4
3	765 kV	JHARSUGUDA-DURG	2	0	688	0.0	13.9	-13.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	654	0.0	11.5	-11.5
5	400 kV	RANCHI-SIPAT	2	0	291	0.0	3.7	-3.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	74	80	0.5	0.0	0.5
<b>ER-WR</b>						<b>0.5</b>	<b>54.3</b>	<b>-53.9</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	555	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	998	0.0	24.2	-24.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2509	0.0	46.8	-46.8
4	400 kV	TALCHER-I/C	2	911	0	20.6	0.0	20.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>83.3</b>	<b>-83.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	228	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	128	402	0.0	5.4	-5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	20	81	0.0	1.1	-1.1
<b>ER-NER</b>						<b>0.0</b>	<b>10.2</b>	<b>-10.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	705	0.0	13.9	-13.9
<b>NER-NR</b>						<b>0.0</b>	<b>13.9</b>	<b>-13.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	657	0.0	15.4	-15.4
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	22.1	-22.1
4	765 kV	GWALIOR-AGRA	2	226	1509	0.2	15.9	-15.7
5	765 kV	GWALIOR-PHAGI	2	0	1818	0.0	33.5	-33.5
6	765 kV	JABALPUR-ORAI	2	0	660	0.0	19.0	-19.0
7	765 kV	GWALIOR-ORAI	1	947	0	17.4	0.0	17.4
8	765 kV	SATNA-ORAI	1	0	960	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1919	0	27.0	0.0	27.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2155	0.0	33.5	-33.5
11	400 kV	ZERDA-KANKROLI	1	261	0	3.9	0.0	3.9
12	400 kV	ZERDA -BHINMAL	1	525	59	3.8	0.0	3.8
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	406	342	0.1	0.0	0.1
15	220 kV	BHANPURA-RANPUR	1	0	168	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
17	220 kV	MEHGAON-AURAIYA	1	129	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	98	0	1.3	0.0	1.3
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
<b>WR-NR</b>						<b>77.8</b>	<b>169.6</b>	<b>-91.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1007	0.0	20.4	-20.4
2	HVDC	RAIGARH-PUGALUR	2	0	4010	0.0	84.2	-84.2
3	765 kV	SOLAPUR-RAICHUR	2	1660	79	21.4	0.0	21.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1923	0.0	29.1	-29.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1848	0.0	25.0	-25.0
6	400 kV	KOLHAPUR-KUDGI	2	1643	0	29.5	0.0	29.5
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	107	2.1	0.0	2.1
<b>WR-SR</b>						<b>52.9</b>	<b>158.6</b>	<b>-105.8</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)	58	-15	17	0.42
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	231	110	231	5.96
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-155	-100	-132	-3.17
	NER	132kV GELEPHU-SALAKATI	6	-9	0	0.01
	NER	132kV MOTANGA-RANGIA	45	20	31	0.75
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	407	276	316	7.58
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-803	-907	-21.77
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1299	-808	-1055	-25.31
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-160	0	-130	-3.12

