



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: 05<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 04.11.2023.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-नवंबर -2023 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 04<sup>th</sup> November 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-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)	52502	62939	45006	21831	2675	184953
Peak Shortage (MW)	135	0	0	94	25	254
Energy Met (MU)	1153	1534	1105	466	52	4310
Hydro Gen (MU)	132	40	50	36	18	274
Wind Gen (MU)	4	38	33	-	-	75
Solar Gen (MU)*	101.80	56.70	90.08	3.01	1.04	253
Energy Shortage (MU)	0.81	0.00	0.00	0.26	0.07	1.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56533	72377	54239	23110	2936	201946
Time Of Maximum Demand Met	18:31	11:02	10:02	18:17	17:20	10:51

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	0.047	0.06	1.24	9.21	10.51	76.18	13.31

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	6902	0	140.5	45.7	0.2	450	0.00
	Haryana	7165	0	145.1	92.6	-1.4	211	0.00
	Rajasthan	15579	0	316.8	123.0	-4.5	216	0.00
	Delhi	3903	0	76.2	67.9	-0.6	162	0.00
	UP	18472	0	344.2	102.2	-0.3	799	0.00
	Uttarakhand	1998	0	39.5	28.8	0.4	146	0.00
	HP	1837	0	33.2	24.1	-0.4	29	0.00
	J&K(UT) & Ladakh(UT)	2365	0	50.8	41.5	3.7	669	0.81
	Chandigarh	191	0	3.5	3.6	0.0	21	0.00
Railways NR ISTS	195	0	3.6	3.5	0.1	23	0.00	
WR	Chhattisgarh	4551	0	96.8	43.2	-2.3	246	0.00
	Gujarat	21565	0	436.7	198.3	-0.2	438	0.00
	MP	15610	0	322.3	193.1	-2.3	717	0.00
	Maharashtra	28048	0	603.6	230.6	0.1	673	0.00
	Goa	716	0	14.8	13.0	1.1	65	0.00
	DNHDDPDCL	1239	0	28.5	28.8	-0.3	24	0.00
	AMNSIL	845	0	18.6	10.5	0.0	256	0.00
	BALCO	520	0	12.4	12.4	0.0	8	0.00
SR	Andhra Pradesh	11350	0	223.9	98.7	-1.1	822	0.00
	Telangana	11622	0	226.4	123.8	0.4	442	0.00
	Karnataka	14712	0	266.7	102.6	-3.1	550	0.00
	Kerala	3766	0	78.6	63.8	0.6	261	0.00
	Tamil Nadu	14911	0	300.5	179.7	-3.5	378	0.00
	Puducherry	427	0	8.8	9.0	-0.3	21	0.00
ER	Bihar	5143	0	96.2	87.4	-1.2	273	0.00
	DVC	3276	0	68.9	-47.8	0.3	210	0.00
	Jharkhand	1533	0	30.6	23.4	-2.0	183	0.26
	Odisha	4803	0	102.6	33.0	-1.3	262	0.00
	West Bengal	8079	0	166.7	37.1	-3.5	158	0.00
	Sikkim	85	0	1.2	1.2	0.0	27	0.00
	Railways ER ISTS	14	0	0.2	0.2	0.0	9	0.00
NER	Arunachal Pradesh	139	0	2.4	2.5	-0.2	16	0.00
	Assam	1804	0	31.2	23.4	0.2	62	0.00
	Manipur	196	0	2.6	2.6	0.0	37	0.00
	Meghalaya	338	25	6.3	4.4	-0.2	99	0.07
	Mizoram	127	0	1.8	1.5	-0.2	25	0.00
	Nagaland	142	0	2.3	2.3	0.0	21	0.00
	Tripura	278	0	5.0	4.5	0.1	57	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.8	10.0	-22.3	-26.3
Day Peak (MW)	220.3	449.0	-1075.0	-1321.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	187.2	-194.3	176.6	-171.5	2.0	0.0
Actual(MU)	183.7	-179.4	179.6	-204.8	-1.3	-22.2
O/D/U/D(MU)	-3.6	14.9	3.0	-33.3	-3.3	-22.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5323	9290	6978	3466	301	25358	53
State Sector	7771	7300	4961	2015	121	22168	47
Total	13094	16590	11939	5481	422	47526	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	750	1619	676	702	12	3759	80
Lignite	23	13	52	0	0	88	2
Hydro	132	40	50	36	18	274	6
Nuclear	20	52	71	0	0	143	3
Gas, Naptha & Diesel	12	20	4	0	29	64	1
RES (Wind, Solar, Biomass & Others)	116	97	154	5	1	372	8
Total	1052	1841	1006	743	59	4700	100

Share of RES in total generation (%)	10.99	5.26	15.28	0.65	1.76	7.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.43	10.24	27.23	5.46	31.50	16.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.061

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201946	10:51	0
Non-Solar hr	196457	18:30	359

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: 05-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	501	0.0	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.0	-1.0
3	765 kV	GAYA-VARANASI	2	0	788	0.0	14.9	-14.9
4	765 kV	SASARAM-FATEHPUR	1	0	506	0.0	10.1	-10.1
5	765 kV	GAYA-BALIA	1	0	552	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	27	45	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	74	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	440	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	478	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	508	0.0	10.4	-10.4
11	400 kV	BIHARSHARIF-BALIA	2	66	156	0.0	1.9	-1.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	323	0.0	5.9	-5.9
13	400 kV	BIHARSHARIF-VARANASI	2	0	272	0.0	4.4	-4.4
14	220 kV	SAHUPURI-KARAMNANA	1	3	89	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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.4</b>	<b>89.1</b>	<b>-88.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1061	0.0	12.9	-12.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	70	989	0.0	14.0	-14.0
3	765 kV	JHARSUGUDA-DURG	2	0	797	0.0	15.9	-15.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	610	0.0	11.0	-11.0
5	400 kV	RANCHI-SIPAT	2	0	373	0.0	5.4	-5.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	82	96	0.4	0.0	0.4
<b>ER-WR</b>						<b>0.4</b>	<b>61.1</b>	<b>-60.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	570	0.0	12.2	-12.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	30.2	-30.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2682	0.0	47.9	-47.9
4	400 kV	TALCHER-I/C	2	1155	154	14.7	0.0	14.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>90.3</b>	<b>-90.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	269	0.0	4.2	-4.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	172	468	0.0	5.4	-5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	15	64	0.0	0.9	-0.9
<b>ER-NER</b>						<b>0.0</b>	<b>10.5</b>	<b>-10.5</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
<b>NER-NR</b>						<b>0.0</b>	<b>12.1</b>	<b>-12.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	825	0.0	33.0	-33.0
2	HVDC	VINDHYACHAL B/B	-	0	246	0.0	6.0	-6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	21.6	-21.6
4	765 kV	GWALIOR-AGRA	2	205	1207	0.4	12.0	-11.6
5	765 kV	GWALIOR-PHAGI	2	0	1729	0.0	31.3	-31.3
6	765 kV	JABALPUR-ORAI	2	0	692	0.0	9.7	-9.7
7	765 kV	GWALIOR-ORAI	1	855	0	4.1	0.0	4.1
8	765 kV	SATNA-ORAI	1	0	970	0.0	19.8	-19.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1846	0	27.0	0.0	27.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2106	0.0	28.6	-28.6
11	400 kV	ZERDA-KANKROLI	1	288	0	3.5	0.0	3.5
12	400 kV	ZERDA -BHINMAL	1	580	122	2.7	0.0	2.7
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUALPUR	2	485	272	1.2	0.0	1.2
15	220 kV	BHANPURA-RANPUR	1	0	163	0.0	2.9	-2.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	125	0	2.0	0.0	2.0
18	220 kV	MALANPUR-AURAIYA	1	94	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>64.4</b>	<b>166.5</b>	<b>-102.1</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	22.4	-22.4
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	92.8	-92.8
3	765 kV	SOLAPUR-RAICHUR	2	1296	773	13.0	1.0	12.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2326	0.0	31.1	-31.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2362	0.0	31.4	-31.4
6	400 kV	KOLHAPUR-KUDGI	2	1449	0	25.4	0.0	25.4
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	120	2.4	0.0	2.4
<b>WR-SR</b>						<b>40.8</b>	<b>178.6</b>	<b>-137.8</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)	46	-24	11	0.27
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	212	117	212	5.39
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-158	-74	-140	-3.37
	NER	132kV GELEPHU-SALAKATI	0	-12	-2	-0.05
	NER	132kV MOTANGA-RANGIA	30	16	23	0.56
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	449	205	345	8.28
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-911	-586	-800	-19.20
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1322	-844	-1097	-26.32
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-164	0	-131	-3.14

