

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: 26<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 25.10.2023.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-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 25<sup>th</sup> October 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-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)	52776	62806	48827	20973	2691	188073
Peak Shortage (MW)	70	0	0	0	0	70
Energy Met (MU)	1116	1481	1207	460	49	4313
Hydro Gen (MU)	160	38	57	44	20	320
Wind Gen (MU)	3	33	34	-	-	69
Solar Gen (MU)*	123.58	63.32	121.36	5.28	0.71	314
Energy Shortage (MU)	0.39	0.00	0.00	0.10	0.03	0.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55602	70210	59674	21566	2849	204240
Time Of Maximum Demand Met	18:34	11:01	12:30	18:03	17:33	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	0.030	0.00	0.09	4.06	4.15	79.59	16.26

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	6928	0	134.4	38.1	0.5	170	0.00
	Haryana	7345	0	149.0	92.0	-0.4	163	0.00
	Rajasthan	14659	0	291.2	89.9	-0.4	367	0.00
	Delhi	4006	0	77.6	68.2	0.2	263	0.00
	UP	18193	0	339.4	108.8	-0.4	820	0.00
	Uttarakhand	1932	0	36.7	24.2	0.8	133	0.00
	HP	1762	0	32.2	21.2	-0.2	67	0.00
	J&K(UT) & Ladakh(UT)	2522	70	49.1	39.5	1.4	388	0.39
	Chandigarh	198	0	3.5	3.5	0.0	26	0.00
Railways NR ISTS	163	0	3.4	3.7	-0.3	7	0.00	
WR	Chhattisgarh	4703	0	104.2	44.0	-0.4	279	0.00
	Gujarat	20643	0	419.3	193.1	0.7	475	0.00
	MP	14393	0	296.5	187.4	-4.3	598	0.00
	Maharashtra	27612	0	589.0	261.7	-2.9	593	0.00
	Goa	695	0	14.4	13.6	0.3	44	0.00
	DNHDDPDCL	1254	0	26.4	26.7	-0.3	49	0.00
	AMNSIL	804	0	18.3	9.5	-0.2	287	0.00
	BALCO	522	0	12.4	12.5	-0.1	5	0.00
SR	Andhra Pradesh	12686	0	236.3	95.8	-0.6	780	0.00
	Telangana	12767	0	253.0	136.6	-0.3	954	0.00
	Karnataka	15129	0	270.9	102.9	-3.5	684	0.00
	Kerala	4127	0	81.9	67.4	0.5	341	0.00
	Tamil Nadu	16988	0	354.9	221.1	1.0	763	0.00
	Puducherry	464	0	10.2	9.7	-0.3	31	0.00
ER	Bihar	4709	0	98.2	92.2	-3.3	172	0.00
	DVC	3050	0	69.7	-38.9	2.1	226	0.00
	Jharkhand	1541	0	29.9	23.0	-1.5	177	0.10
	Odisha	4731	0	109.3	33.7	0.5	444	0.00
	West Bengal	7591	0	152.5	18.4	-2.9	201	0.00
	Sikkim	60	0	0.8	0.8	0.0	19	0.00
Railways ER ISTS	23	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	149	0	2.5	2.2	0.1	28	0.00
	Assam	1699	0	28.8	21.5	0.1	129	0.00
	Manipur	193	0	2.6	2.7	-0.1	28	0.00
	Meghalaya	334	20	6.0	4.0	-0.2	72	0.03
	Mizoram	123	0	1.8	1.5	-0.3	8	0.00
	Nagaland	144	0	2.3	2.2	-0.1	10	0.00
Tripura	266	0	4.6	4.2	-0.2	32	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	8.1	16.7	-22.7	-23.1
Day Peak (MW)	354.0	650.0	-1074.0	-1161.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	139.4	-155.9	183.3	-156.4	-6.6	3.8
Actual(MU)	131.9	-133.2	198.8	-194.5	-6.8	-3.7
O/D/U/D(MU)	-7.6	22.7	15.6	-38.1	-0.1	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6428	7922	3718	3826	205	22098	52
State Sector	5056	9414	4461	1320	121	20371	48
Total	11484	17335	8179	5146	326	42469	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	711	1535	715	667	14	3641	78
Lignite	27	16	54	0	0	98	2
Hydro	160	38	57	44	20	320	7
Nuclear	16	53	71	0	0	140	3
Gas, Naptha & Diesel	13	21	6	0	28	68	1
RES (Wind, Solar, Biomass & Others)	132	98	184	6	1	421	9
Total	1059	1762	1087	718	62	4688	100

Share of RES in total generation (%)	12.43	5.57	16.95	0.88	1.14	8.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.07	10.74	28.72	7.08	33.37	18.79

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	204240	10:51	0
Non-Solar hr	195131	18:30	0

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: 26-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	702	0.0	16.7	-16.7
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	692	0.0	10.5	-10.5
4	765 kV	SASARAM-FATEHPUR	1	0	509	0.0	8.9	-8.9
5	765 kV	GAYA-BALIA	1	0	516	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	25	38	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	72	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	539	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	2	0	336	0.0	6.5	-6.5
10	400 kV	NAUBATPUR-BALIA	2	0	350	0.0	6.5	-6.5
11	400 kV	BIHARSHARIFF-BALIA	2	47	215	0.0	2.4	-2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	260	0.0	4.1	-4.1
13	400 kV	BIHARSHARIFF-VARANASI	2	0	276	0.0	4.1	-4.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	94	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	0.3	0.0	0.3
17	132 kV	KARMANASA-SAHUPURI	1	66	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>79.3</b>	<b>-79.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	532	607	0.0	0.5	-0.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	29	852	0.0	10.6	-10.6
3	765 kV	JHARSUGUDA-DURG	2	0	715	0.0	10.1	-10.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	627	0.0	14.7	-14.7
5	400 kV	RANCHI-SIPAT	2	0	296	0.0	3.8	-3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	76	31	1.0	0.0	1.0
<b>ER-WR</b>						<b>1.0</b>	<b>42.0</b>	<b>-41.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	556	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1995	0.0	45.8	-45.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2820	0.0	51.9	-51.9
4	400 kV	TALCHER-I/C	2	253	173	0.0	0.7	-0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>110.3</b>	<b>-110.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	448	0.0	6.7	-6.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	155	334	0.0	2.7	-2.7
3	220 kV	ALIPURDUAR-SALAKATI	2	0	84	0.0	1.1	-1.1
<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	705	0.0	17.0	-17.0
<b>NER-NR</b>						<b>0.0</b>	<b>17.0</b>	<b>-17.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	5	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	0	54	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	29.0	-29.0
4	765 kV	GWALIOR-AGRA	2	511	996	1.1	7.3	-6.2
5	765 kV	GWALIOR-PHAGI	2	0	1597	0.0	22.1	-22.1
6	765 kV	JABALPUR-ORAI	2	48	625	0.0	12.5	-12.5
7	765 kV	GWALIOR-ORAI	1	932	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	853	0.0	16.4	-16.4
9	765 kV	BANASKANTHA-CHITORGARH	2	2162	0	31.4	0.0	31.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	1537	0.0	24.0	-24.0
11	400 kV	ZERDA-KANKROLI	1	305	0	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	672	0	6.8	0.0	6.8
13	400 kV	VINDHYACHAL -RIHAND	1	465	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUALPUR	2	555	167	4.2	0.4	3.8
15	220 kV	BHANPURA-RANPUR	1	0	145	0.0	2.4	-2.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
17	220 kV	MEHGAON-AURAIYA	1	121	0	2.1	0.0	2.1
18	220 kV	MALANPUR-AURAIYA	1	96	0	1.5	0.0	1.5
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>117.1</b>	<b>-39.0</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	21.8	-21.8
2	HVDC	RAIGARH-PUGALUR	2	0	5015	0.0	91.8	-91.8
3	765 kV	SOLAPUR-RAICHUR	2	1047	412	9.5	0.5	9.0
4	765 kV	WARDHA-NIZAMABAD	2	0	1771	0.0	27.1	-27.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2187	0.0	34.2	-34.2
6	400 kV	KOLHAPUR-KUDGI	2	1478	0	27.4	0.0	27.4
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	114	2.3	0.0	2.3
<b>WR-SR</b>						<b>39.2</b>	<b>175.3</b>	<b>-136.1</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)	141	88	113	2.71
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	307	266	307	8.45
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-169	-90	-125	-2.99
	NER	132kV GELEPHU-SALAKATI	-25	2	-12	-0.28
	NER	132kV MOTANGA-RANGIA	24	-2	10	0.24
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	1.65
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	650	545	625	15.01
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-920	-631	-818	-19.63
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1161	-802	-960	-23.05
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-127	-3.04

