

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: 7<sup>th</sup> December 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 06.12.2023.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-दिसम्बर-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 6<sup>th</sup> December 2023, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 07-Dec-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)	47895	53656	43984	18799	2571	166905
Peak Shortage (MW)	0	0	0	102	0	102
Energy Met (MU)	1063	1244	962	395	48	3711
Hydro Gen (MU)	114	25	52	16	11	220
Wind Gen (MU)	29	123	21	-	-	174
Solar Gen (MU)*	107.65	45.72	76.78	0.60	0.85	232
Energy Shortage (MU)	0.14	0.00	0.00	0.78	0.01	0.93
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55036	61054	45987	19301	2781	182116
Time Of Maximum Demand Met	09:45	09:54	11:59	17:45	17:12	09:54

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	0.043	0.23	0.89	8.26	9.39	80.07	10.54

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	7474	0	142.2	50.4	-0.3	171	0.00
	Haryana	7436	0	144.1	100.1	-1.7	145	0.00
	Rajasthan	14976	0	275.1	109.6	-3.1	602	0.00
	Delhi	3837	0	69.5	61.0	-0.6	199	0.00
	UP	16122	0	294.4	118.6	-0.3	1131	0.00
	Uttarakhand	2113	0	39.5	28.0	0.9	203	0.00
	HP	2004	0	35.4	28.2	-0.2	31	0.00
	J&K(UT) & Ladakh(UT)	2679	0	55.6	50.9	-0.7	87	0.14
	Chandigarh	216	0	3.6	3.6	-0.1	33	0.00
Railways NR ISTS	169	0	3.5	3.5	-0.1	17	0.00	
WR	Chhattisgarh	3969	0	81.8	37.2	-1.6	191	0.00
	Gujarat	18144	0	361.7	173.5	-0.2	652	0.00
	MP	12015	0	219.2	121.5	-3.9	458	0.00
	Maharashtra	24672	0	505.5	187.5	0.7	755	0.00
	Goa	683	0	14.0	13.0	0.4	45	0.00
	DNHDDPDCL	1264	0	28.9	28.7	0.2	94	0.00
	AMNSIL	876	0	20.0	9.1	0.2	262	0.00
	BALCO	523	0	12.5	12.5	0.0	6	0.00
SR	Andhra Pradesh	7525	0	143.5	40.6	0.0	900	0.00
	Telangana	8970	0	173.4	81.3	0.6	724	0.00
	Karnataka	14063	0	255.4	120.5	-2.3	856	0.00
	Kerala	4275	0	85.5	68.9	0.7	199	0.00
	Tamil Nadu	15032	0	295.2	174.8	1.8	1035	0.00
	Puducherry	400	0	8.7	8.3	-0.2	27	0.00
ER	Bihar	4319	0	82.1	74.9	1.3	277	0.00
	DVC	3297	0	64.8	-35.9	-0.1	288	0.00
	Jharkhand	1553	213	25.9	22.4	-3.1	323	0.78
	Odisha	4320	0	89.0	20.0	-2.4	310	0.00
	West Bengal	6649	0	131.5	25.8	-2.9	165	0.00
	Sikkim	97	0	1.6	1.7	-0.1	18	0.00
Railways ER ISTS	15	0	0.1	0.1	0.0	1	0.00	
NER	Arunachal Pradesh	188	0	2.9	2.9	-0.2	18	0.00
	Assam	1572	0	27.6	21.6	0.5	170	0.00
	Manipur	215	0	3.0	3.1	-0.1	46	0.00
	Meghalaya	346	0	6.3	5.3	-0.3	308	0.01
	Mizoram	142	0	2.0	2.0	-0.3	15	0.00
	Nagaland	148	0	2.4	2.4	-0.2	18	0.00
Tripura	235	0	4.0	4.8	-0.1	42	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.8	-0.7	-16.7	-16.3
Day Peak (MW)	-311.0	-45.2	-1048.0	-772.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.8	-225.4	142.7	-146.9	2.7	0.0
Actual(MU)	208.5	-227.9	167.2	-159.2	2.8	-8.7
O/D/U/D(MU)	-18.4	-2.5	24.4	-12.3	0.1	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6383	12062	6678	3981	155	29259	41
State Sector	12806	17224	8194	3997	306	42526	59
Total	19189	29285	14872	7978	461	71785	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	586	1323	589	611	13	3122	77
Lignite	26	18	48	0	0	93	2
Hydro	114	25	52	16	11	220	5
Nuclear	21	40	69	0	0	130	3
Gas, Naptha & Diesel	14	16	5	0	26	60	1
RES (Wind, Solar, Biomass & Others)	157	172	121	3	1	453	11
Total	918	1594	884	630	51	4077	100

Share of RES in total generation (%)	17.08	10.77	13.65	0.41	1.67	11.10
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.81	14.85	27.42	3.02	24.24	19.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.057

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	182116	9:54	213
Non-Solar hr	175768	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: 07-Dec-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	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1064	0.0	15.4	-15.4
4	765 kV	SASARAM-FATEHPUR	1	0	534	0.0	8.6	-8.6
5	765 kV	GAYA-BALIA	1	0	667	0.0	10.9	-10.9
6	400 kV	PUSAULI-VARANASI	1	38	16	0.4	0.0	0.4
7	400 kV	PUSAULI-ALLAHABAD	1	0	83	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	620	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	0	0.0	0.0	0.0
10	400 kV	NAUBATPUR-BALIA	2	0	599	0.0	9.2	-9.2
11	400 kV	BIHARSHARIF-BALIA	2	0	293	0.0	4.3	-4.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	423	0.0	6.6	-6.6
13	400 kV	BIHARSHARIF-VARANASI	2	0	385	0.0	5.6	-5.6
14	220 kV	SAHUPURI-KARAMNANA	1	6	95	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
					<b>ER-NR</b>	<b>0.4</b>	<b>72.8</b>	<b>-72.4</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	19	856	0.0	10.8	-10.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	369	684	0.0	3.0	-3.0
3	765 kV	JHARSUGUDA-DURG	2	0	733	0.0	13.8	-13.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	672	0.0	10.1	-10.1
5	400 kV	RANCHI-SIPAT	2	95	271	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	13	123	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	136	68	1.1	0.0	1.1
					<b>ER-WR</b>	<b>1.1</b>	<b>40.6</b>	<b>-39.5</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	717	0.0	16.3	-16.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1993	0.0	37.0	-37.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2585	0.0	49.7	-49.7
4	400 kV	TALCHER-I/C	2	580	336	4.2	0.0	4.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					<b>ER-SR</b>	<b>0.0</b>	<b>102.9</b>	<b>-102.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAOON	2	233	33	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	757	0	8.6	0.0	8.6
3	220 kV	ALIPURDUAR-SALAKATI	2	148	0	2.0	0.0	2.0
					<b>ER-NER</b>	<b>12.6</b>	<b>0.0</b>	<b>12.6</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	657	0	16.0	0.0	16.0
					<b>NER-NR</b>	<b>16.0</b>	<b>0.0</b>	<b>16.0</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1528	0.0	36.0	-36.0
2	HVDC	VINDHYACHAL B/B	-	270	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	259	0.0	6.1	-6.1
4	765 kV	GWALIOR-AGRA	2	0	2064	0.0	35.6	-35.6
5	765 kV	GWALIOR-PHAGI	2	0	1885	0.0	30.5	-30.5
6	765 kV	JABALPUR-ORAI	2	0	893	0.0	31.2	-31.2
7	765 kV	GWALIOR-ORAI	1	1023	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1129	0.0	22.8	-22.8
9	765 kV	BANASKANTHA-CHITORGARH	2	773	340	7.0	1.3	5.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2435	0.0	43.3	-43.3
11	400 kV	ZERDA-KANKROLI	1	146	0	2.0	0.0	2.0
12	400 kV	ZERDA -BHINMAL	1	302	177	2.0	0.4	1.6
13	400 kV	VINDHYACHAL -RIHAND	1	958	0	20.4	0.0	20.4
14	400 kV	RAPP-SHUJALPUR	2	156	349	0.3	2.6	-2.3
15	220 kV	BHANPURA-RANPUR	1	0	126	0.0	1.7	-1.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.8	-0.8
17	220 kV	MEHGAON-AURAIYA	1	73	19	0.4	0.1	0.3
18	220 kV	MALANPUR-AURAIYA	1	51	29	0.2	0.2	0.0
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>54.7</b>	<b>212.5</b>	<b>-157.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	505	0.0	8.1	-8.1
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	40.8	-40.8
3	765 kV	SOLAPUR-RAICHUR	2	838	1103	1.9	12.1	-10.2
4	765 kV	WARDHA-NIZAMABAD	2	0	1968	0.0	34.0	-34.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	1938	0.0	33.2	-33.2
6	400 kV	KOLHAPUR-KUDGI	2	1210	0	16.0	0.0	16.0
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	111	2.1	0.0	2.1
					<b>WR-SR</b>	<b>20.0</b>	<b>128.3</b>	<b>-108.3</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)	-186	54	-92	-2.21
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	307	15	107	2.57
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-292	-71	-237	-5.70
	NER	132kV GELEPHU-SALAKATI	-35	0	-25	-0.59
	NER	132kV MOTANGA-RANGIA	10	-4	4	0.09
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-10	-0.24
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-92	0	-17	-0.41
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-456	-607	-14.57
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-772	-509	-681	-16.34
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-107	0	-90	-2.16

