



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: 12<sup>th</sup> March 2024

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., डोंगतेिह, 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 11.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-मार्च -2024 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 11<sup>th</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-Mar-2024

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)	52689	64341	52377	23392	2716	195515
Peak Shortage (MW)	330	261	0	248	0	839
Energy Met (MU)	1102	1504	1363	498	48	4515
Hydro Gen (MU)	124	41	56	18	10	249
Wind Gen (MU)	10	68	43	-	-	121
Solar Gen (MU)*	159.12	85.00	125.43	6.57	1.19	377
Energy Shortage (MU)	0.33	0.26	0.00	1.60	0.00	2.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57825	70440	67079	23837	2793	217995
Time Of Maximum Demand Met	10:14	10:32	10:54	18:31	18:15	10:50

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	0.039	0.00	0.36	8.11	8.47	78.35	13.18

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	8164	0	147.4	61.8	1.1	252	0.00
	Haryana	7200	0	140.8	106.7	-0.6	217	0.00
	Rajasthan	15744	0	294.3	84.4	-1.0	326	0.00
	Delhi	3908	0	69.3	62.5	1.2	399	0.00
	UP	17511	0	316.9	55.4	0.0	471	0.00
	Uttarakhand	2162	0	39.3	24.9	0.9	271	0.00
	HP	1827	0	30.5	24.5	-0.5	83	0.00
	J&K(UT) & Ladakh(UT)	2754	0	56.7	49.8	0.0	234	0.33
	Chandigarh	220	0	3.4	3.4	0.0	54	0.00
Railways NR ISTS	177	0	3.7	3.6	0.1	22	0.00	
WR	Chhattisgarh	5912	0	135.4	79.0	2.2	433	0.00
	Gujarat	20417	0	423.2	181.7	-0.7	1004	0.00
	MP	13292	0	259.2	150.0	-4.7	513	0.00
	Maharashtra	27627	0	609.9	193.9	-3.1	888	0.26
	Goa	734	0	15.0	11.8	2.7	26	0.00
	DNHDDPDCL	1268	0	28.6	28.5	0.1	70	0.00
	AMNSIL	904	0	20.4	10.2	-0.3	272	0.00
	BALCO	521	0	12.2	12.5	-0.3	14	0.00
SR	Andhra Pradesh	13036	0	241.4	90.2	-0.6	443	0.00
	Telangana	15161	0	300.2	182.8	-1.4	975	0.00
	Karnataka	17110	0	325.5	162.6	-2.5	649	0.00
	Kerala	5031	0	100.2	77.9	1.2	279	0.00
	Tamil Nadu	18605	0	386.6	245.1	-0.6	455	0.00
	Puducherry	417	0	9.4	9.1	-0.3	24	0.00
ER	Bihar	4828	0	93.1	80.4	0.3	259	0.00
	DVC	3684	0	70.6	-42.6	-0.2	903	0.00
	Jharkhand	1869	213	34.9	23.8	-1.4	267	1.60
	Odisha	6000	0	133.7	65.7	-2.3	325	0.00
	West Bengal	8021	0	164.1	19.7	-1.3	174	0.00
	Sikkim	108	0	1.8	1.7	0.1	33	0.00
Railways ER ISTS	10	0	0.1	0.1	0.0	2	0.00	
NER	Arunachal Pradesh	156	0	2.3	2.8	-0.5	23	0.00
	Assam	1634	0	28.6	23.5	0.1	119	0.00
	Manipur	207	0	3.0	3.1	-3.1	28	0.00
	Meghalaya	327	0	5.0	5.1	-5.1	43	0.00
	Mizoram	134	0	2.0	1.6	-1.6	23	0.00
	Nagaland	145	0	2.3	2.3	-2.3	50	0.00
Tripura	229	0	4.0	3.9	-3.9	104	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.3	-14.3	-21.9	-28.5
Day Peak (MW)	-568.1	-643.3	-943.0	-1475.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.3	-266.6	309.5	-133.1	5.9	0.0
Actual(MU)	78.4	-264.8	316.5	-144.1	6.9	-7.1
O/D/U/D(MU)	-6.0	1.8	7.0	-11.0	1.0	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7333	8446	4078	3432	568	23856	48
State Sector	7566	12067	3756	2747	135	26269	52
Total	14898	20512	7834	6179	702	50125	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	720	1588	750	720	13	3791	77
Lignite	30	17	67	0	0	114	2
Hydro	124	41	56	18	10	246	5
Nuclear	31	43	52	0	0	126	3
Gas, Naptha & Diesel	9	43	6	0	24	80	2
RES (Wind, Solar, Biomass & Others)	188	155	202	8	1	554	11
Total	1103	1888	1133	746	48	4917	100

Share of RES in total generation (%)	17.05	8.22	17.78	1.12	2.71	11.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.19	12.70	27.40	3.46	24.07	18.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.041

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217995	10:50	0
Non-Solar hr	198401	19:09	839

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 -> 07:00 to 17:00hrs 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: 12-Mar-2024

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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	748	0.0	10.7	-10.7
4	765 kV	SASARAM-FATEHPUR	1	0	461	0.0	8.0	-8.0
5	765 kV	GAYA-BALIA	1	0	480	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	1	17	70	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	24	66	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	197	553	0.0	3.7	-3.7
9	400 kV	PATNA-BALIA	2	0	560	0.0	13.1	-13.1
10	400 kV	NAUBATPUR-BALIA	2	0	514	0.0	4.3	-4.3
11	400 kV	BIHARSHARIFF-BALIA	2	240	102	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	8	372	0.0	5.2	-5.2
13	400 kV	BIHARSHARIFF-VARANASI	2	11	317	0.0	3.6	-3.6
14	220 kV	SAHUPURI-KARAMNANA	1	22	60	0.0	0.3	-0.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.0	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>1.6</b>	<b>57.4</b>	<b>-55.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1603	0	23.9	0.0	23.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1225	0.0	19.1	-19.1
3	765 kV	JHARSUGUDA-DURG	2	0	955	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	540	0.0	8.8	-8.8
5	400 kV	RANCHI-SIPAT	2	0	452	0.0	6.8	-6.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	109	45	0.6	0.0	0.6
<b>ER-WR</b>						<b>24.5</b>	<b>49.2</b>	<b>-24.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	638	0.0	14.6	-14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	40.1	-40.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2920	0.0	58.8	-58.8
4	400 kV	TALCHER-I/C	2	406	211	4.6	0.0	4.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>113.4</b>	<b>-113.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.5	0.2	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	411	0	3.8	0.0	3.8
3	220 kV	ALIPURDUAR-SALAKATI	2	25	25	0.0	0.0	0.0
<b>ER-NER</b>						<b>4.3</b>	<b>0.2</b>	<b>4.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.1	0.0	11.1
<b>NER-NR</b>						<b>11.1</b>	<b>0.0</b>	<b>11.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	990	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	428	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	16.7	-16.7
4	765 kV	GWALIOR-AGRA	2	219	1617	0.2	12.0	-11.8
5	765 kV	GWALIOR-PHAGI	2	655	1488	2.1	16.9	-14.7
6	765 kV	JABALPUR-ORAI	2	270	904	0.0	6.4	-6.4
7	765 kV	GWALIOR-ORAI	1	758	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1163	0.0	19.4	-19.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1478	98	17.3	0.0	17.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1879	0.0	21.8	-21.8
11	400 kV	ZERDA-KANKROLI	1	340	0	4.0	0.0	4.0
12	400 kV	ZERDA -BHINMAL	1	340	0	3.9	0.0	3.9
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	723	271	7.2	0.5	6.7
15	220 kV	BHANPURA-RANPUR	1	0	128	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	107	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	75	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>83.5</b>	<b>121.3</b>	<b>-37.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	20.3	-20.3
2	HVDC	RAIGARH-PUGALUR	2	0	6531	0.0	101.3	-101.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2114	0.0	29.8	-29.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3064	0.0	54.6	-54.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3062	0.0	57.7	-57.7
6	400 kV	KOLHAPUR-KUDGI	2	969	0	10.7	0.0	10.7
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	123	2.3	0.0	2.3
<b>WR-SR</b>						<b>13.0</b>	<b>263.7</b>	<b>-250.7</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)	-213	105	-109	-2.61
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-260	118	-136	-3.28
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-245	-110	-191	-4.60
	NER	132kV GELEPHU-SALAKATI	-17	0	-8	-0.19
	NER	132kV MOTANGA-RANGIA	27	0	15	0.36
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-65	-1.55
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-56	-1.35
	ER	NEPAL IMPORT (FROM BIHAR)	-164	0	-97	-2.34
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-479	0	-378	-9.08
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-943	-803	-914	-21.93
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1475	-811	-1187	-28.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2		0	0	0.00

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-Mar-2024

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	11.64	0.00	0.00	0.00	0.00	0.00	11.64
Nepal	0.27	0.00	9.35	0.00	0.00	0.13	0.00	0.00	9.75
Bangladesh	21.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.22	0.00	20.99	0.00	0.00	0.13	0.00	0.00	43.34

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.68

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	0.68	0.00	-11.64	0.00	0.00	0.00	0.00	0.00	-10.96
Nepal	-0.27	0.00	-9.35	0.00	0.00	-0.13	0.00	0.00	-9.75
Bangladesh	-21.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.54	0.00	-20.99	0.00	0.00	-0.13	0.00	0.00	-42.66