



**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: 13<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 12.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12<sup>th</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	52930	64854	53086	23206	2619	196695
Peak Shortage (MW)	119	0	0	280	0	399
Energy Met (MU)	1145	1529	1388	504	50	4615
Hydro Gen (MU)	122	37	62	20	9	250
Wind Gen (MU)	12	84	35	-	-	131
Solar Gen (MU)*	160.91	85.39	130.50	3.55	0.98	381
Energy Shortage (MU)	0.15	0.00	0.00	1.49	0.00	1.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57998	70488	67328	24149	2744	218897
Time Of Maximum Demand Met	10:47	10:58	11:53	18:39	18:09	10:58

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	0.046	0.00	0.34	9.12	9.45	75.95	14.59

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	8271	0	155.0	65.0	-0.4	202	0.00
	Haryana	7244	0	145.8	100.9	0.0	141	0.00
	Rajasthan	16067	0	307.6	83.6	0.8	430	0.00
	Delhi	3811	0	69.7	61.3	0.1	309	0.00
	UP	17967	0	331.8	61.5	0.6	303	0.00
	Uttarakhand	2079	0	40.0	24.9	1.1	156	0.03
	HP	1793	0	30.7	25.0	-0.3	45	0.00
	J&K(UT) & Ladakh(UT)	2770	0	57.4	50.3	0.5	195	0.12
	Chandigarh	210	0	3.4	3.5	-0.1	23	0.00
Railways NR ISTS	170	0	3.6	3.7	-0.1	9	0.00	
WR	Chhattisgarh	5998	0	136.6	77.2	0.3	393	0.00
	Gujarat	20553	0	429.2	178.9	-0.6	630	0.00
	MP	13158	0	263.4	144.6	-5.0	426	0.00
	Maharashtra	28428	0	624.9	206.7	-5.7	577	0.00
	Goa	723	0	15.3	12.2	2.8	240	0.00
	DNHDDPDCL	1266	0	29.0	29.2	-0.2	71	0.00
	AMNSIL	834	0	18.2	8.8	0.1	246	0.00
	BALCO	523	0	12.5	12.5	0.0	6	0.00
SR	Andhra Pradesh	13073	0	243.2	87.4	-1.7	552	0.00
	Telangana	15374	0	306.8	181.0	0.4	752	0.00
	Karnataka	17220	0	328.7	161.8	-1.1	643	0.00
	Kerala	5004	0	101.3	78.5	0.9	329	0.00
	Tamil Nadu	18783	0	398.4	238.2	0.0	567	0.00
	Puducherry	422	0	9.6	9.3	-0.4	44	0.00
ER	Bihar	5044	0	92.8	81.7	-1.0	319	0.05
	DVC	3330	0	71.8	-46.5	-0.3	330	0.00
	Jharkhand	1649	280	36.0	24.5	-1.4	317	1.43
	Odisha	5781	0	125.9	55.1	-0.3	320	0.00
	West Bengal	8376	0	175.2	29.6	-0.7	350	0.00
	Sikkim	109	0	1.8	1.8	0.0	20	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	11	0.00	
NER	Arunachal Pradesh	164	0	2.9	2.8	0.0	27	0.00
	Assam	1584	0	29.6	24.2	0.4	103	0.00
	Manipur	213	0	3.0	2.9	0.0	25	0.00
	Meghalaya	340	0	6.0	4.6	0.0	46	0.00
	Mizoram	130	0	2.0	1.5	-0.1	39	0.00
	Nagaland	141	0	2.2	2.1	0.0	35	0.00
Tripura	238	0	4.3	3.9	0.3	63	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.3	-14.4	-24.7	-29.4
Day Peak (MW)	-511.0	-699.8	-1079.0	-1429.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	90.5	-271.1	301.0	-130.6	10.2	0.0
Actual(MU)	90.6	-280.3	306.5	-135.2	11.4	-7.0
O/D/U/D(MU)	0.1	-9.2	5.5	-4.6	1.1	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7703	8571	4578	4637	643	26131	49
State Sector	7696	12189	4059	2747	99	26789	51
Total	15398	20759	8637	7384	742	52920	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	750	1616	781	720	10	3876	77
Lignite	30	15	65	0	0	110	2
Hydro	122	37	62	20	9	250	5
Nuclear	31	47	52	0	0	130	3
Gas, Naptha & Diesel	12	49	7	0	25	93	2
RES (Wind, Solar, Biomass & Others)	192	172	198	4	1	567	11
Total	1137	1935	1165	744	44	5026	100

Share of RES in total generation (%)	99.29	8.86	17.01	0.58	2.20	96.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	99.41	13.22	26.84	3.29	22.35	97.04

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218897	10:58	0
Non-Solar hr	200787	19:15	399

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: 13-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	38	670	0.0	8.8	-8.8
4	765 kV	SASARAM-FATEHPUR	1	0	412	0.0	7.6	-7.6
5	765 kV	GAYA-BALIA	1	0	484	0.0	5.6	-5.6
6	400 kV	PUSAULI-VARANASI	1	24	84	0.0	0.7	-0.7
7	400 kV	PUSAULI-ALLAHABAD	1	35	72	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	304	491	0.0	2.3	-2.3
9	400 kV	PATNA-BALIA	2	0	465	0.0	13.9	-13.9
10	400 kV	NAUBATPUR-BALIA	2	80	223	0.0	2.6	-2.6
11	400 kV	BIHARSHARIFF-BALIA	2	272	133	1.0	0.0	1.0
12	400 kV	MOTIHARI-GORAKHPUR	2	78	381	0.0	3.8	-3.8
13	400 kV	BIHARSHARIFF-VARANASI	2	32	263	0.0	3.0	-3.0
14	220 kV	SAHUPURI-KARAMNANA	1	46	60	0.0	0.2	-0.2
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-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>1.0</b>	<b>50.3</b>	<b>-49.3</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1304	0	22.2	0.0	22.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	222	957	0.0	13.9	-13.9
3	765 kV	JHARSUGUDA-DURG	2	0	954	0.0	11.6	-11.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	590	0.0	9.7	-9.7
5	400 kV	RANCHI-SIPAT	2	0	371	0.0	6.5	-6.5
6	220 kV	BUDHIPADAR-RAIGARH	1	80	158	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	151	56	1.0	0.0	1.0
<b>ER-WR</b>						<b>23.2</b>	<b>43.2</b>	<b>-20.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	638	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	44.6	-44.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2772	0.0	57.4	-57.4
4	400 kV	TALCHER-I/C	2	393	214	0.0	0.4	-0.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>116.0</b>	<b>-116.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	1	6	0.7	0.2	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	549	38	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	27	23	0.0	0.0	0.0
<b>ER-NER</b>						<b>5.2</b>	<b>0.2</b>	<b>5.0</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	662	0	15.9	0.0	15.9
<b>NER-NR</b>						<b>15.9</b>	<b>0.0</b>	<b>15.9</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1491	0.0	27.0	-27.0
2	HVDC	VINDHYACHAL B/B	-	430	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	981	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	226	1811	0.3	12.2	-11.9
5	765 kV	GWALIOR-PHAGI	2	643	1377	1.9	15.6	-13.7
6	765 kV	JABALPUR-ORAI	2	303	776	0.0	9.4	-9.4
7	765 kV	GWALIOR-ORAI	1	753	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	1071	0.0	18.9	-18.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1570	498	15.2	0.4	14.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2227	0.0	28.1	-28.1
11	400 kV	ZERDA-KANKROLI	1	793	42	4.1	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	352	41	3.5	0.0	3.5
13	400 kV	VINDHYACHAL -RIHAND	1	981	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	711	247	5.7	0.5	5.2
15	220 kV	BHANPURA-RANPUR	1	0	133	0.0	2.1	-2.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	105	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	73	10	1.0	0.0	1.0
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>79.4</b>	<b>139.7</b>	<b>-60.3</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	19.4	-19.4
2	HVDC	RAIGARH-PUGALUR	2	0	5515	0.0	92.3	-92.3
3	765 kV	SOLAPUR-RAICHUR	2	0	1964	0.0	30.8	-30.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2853	0.0	55.2	-55.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2839	0.0	57.8	-57.8
6	400 kV	KOLHAPUR-KUDGI	2	992	0	13.3	0.0	13.3
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	126	2.4	0.0	2.4
<b>WR-SR</b>						<b>15.7</b>	<b>255.6</b>	<b>-239.9</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)	-200	95	-104	-2.49
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-265	146	-145	-3.47
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-240	-113	-192	-4.60
	NER	132kV GELEPHU-SALAKATI	-14	0	-7	-0.16
	NER	132kV MOTANGA-RANGIA	35	0	18	0.43
NEPAL	NR	NEPAL IMPORT (FROM UP)	-73	0	-60	-1.45
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-57	-1.37
	ER	NEPAL IMPORT (FROM BIHAR)	-172	-20	-106	-2.55
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-528	-50	-378	-9.06
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-803	-910	-21.85
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1429	-810	-1224	-29.37
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-118	-2.84

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	11.37	0.00	0.00	0.00	0.00	0.00	11.37
Nepal	0.23	0.00	9.51	0.00	0.00	0.11	0.00	0.00	9.85
Bangladesh	21.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.89
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.12	0.00	20.88	0.00	0.00	0.11	0.00	0.00	43.11

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
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	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51

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	0.51	0.00	-11.37	0.00	0.00	0.00	0.00	0.00	-10.86
Nepal	-0.23	0.00	-9.51	0.00	0.00	-0.11	0.00	0.00	-9.85
Bangladesh	-21.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.89
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.61	0.00	-20.88	0.00	0.00	-0.11	0.00	0.00	-42.60