



**National Load Despatch Centre**  
**राष्ट्रीय भार प्रेषण केंद्र**  
**GRID CONTROLLER OF INDIA LIMITED**  
**ग्रीड 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: 02<sup>nd</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., 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 01.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 01<sup>st</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	49382	61613	51161	21874	2643	186673
Peak Shortage (MW)	35	0	0	285	0	320
Energy Met (MU)	1122	1477	1339	463	49	4450
Hydro Gen (MU)	109	28	44	19	7	208
Wind Gen (MU)	33	92	77	-	-	201
Solar Gen (MU)*	92.81	73.64	133.88	6.09	1.07	307
Energy Shortage (MU)	1.39	0.00	0.00	1.79	0.02	3.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60366	70750	66439	22539	2743	219075
Time Of Maximum Demand Met	10:21	10:50	11:23	18:31	18:02	10:55

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	0.00	1.00	5.57	6.56	75.98	17.46

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	7379	0	141.3	55.6	-0.4	185	0.00
	Haryana	7107	0	141.5	96.8	-0.4	189	0.00
	Rajasthan	16773	0	298.8	88.7	-6.1	251	0.00
	Delhi	4114	0	73.0	63.5	1.9	350	0.00
	UP	18249	0	328.1	109.6	-2.0	810	0.00
	Uttarakhand	2260	0	42.0	29.2	0.0	181	0.00
	HP	1982	0	35.4	31.0	-0.1	171	0.16
	J&K(UT) & Ladakh(UT)	2697	0	54.4	49.8	-1.1	321	1.23
	Chandigarh	228	0	3.7	3.9	-0.1	17	0.00
Railways NR ISTS	174	0	3.5	3.5	0.0	15	0.00	
WR	Chhattisgarh	5786	0	125.0	62.3	-2.4	392	0.00
	Gujarat	20340	0	426.5	165.6	-1.1	1814	0.00
	MP	13355	0	245.9	144.3	-6.9	839	0.00
	Maharashtra	27519	0	604.8	194.2	-6.3	1761	0.00
	Goa	767	0	14.5	15.1	-0.7	317	0.00
	DNHDDPDCL	1198	0	27.9	28.1	-0.2	50	0.00
	AMNSIL	889	0	20.1	9.3	0.2	271	0.00
	BALCO	521	0	12.4	12.5	-0.1	520	0.00
SR	Andhra Pradesh	13007	0	236.4	102.0	-0.7	790	0.00
	Telangana	15110	0	291.4	165.8	-0.2	870	0.00
	Karnataka	16692	0	322.4	151.8	-0.3	1121	0.00
	Kerala	4677	0	96.0	73.0	1.3	329	0.00
	Tamil Nadu	18162	0	383.5	211.6	-2.1	526	0.00
	Puducherry	415	0	9.4	9.3	-0.5	17	0.00
ER	Bihar	4619	0	91.3	78.8	0.2	272	0.00
	DVC	3342	0	68.7	-39.5	-1.7	364	0.00
	Jharkhand	1625	0	33.8	22.4	-0.7	274	1.79
	Odisha	5353	0	105.6	31.8	0.0	452	0.00
	West Bengal	7676	0	161.5	21.8	-2.1	113	0.00
	Sikkim	116	0	2.0	1.9	0.0	29	0.00
Railways ER ISTS	16	0	0.1	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	172	0	3.1	2.8	0.2	41	0.00
	Assam	1566	0	28.6	22.2	0.3	106	0.00
	Manipur	205	0	3.1	3.1	0.0	30	0.02
	Meghalaya	337	0	6.2	5.1	-0.1	22	0.00
	Mizoram	129	0	2.0	1.7	-0.3	5	0.00
	Nagaland	149	0	2.4	2.4	-0.1	12	0.00
Tripura	240	0	4.0	2.7	-0.5	9	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.0	-14.1	-21.0	-24.5
Day Peak (MW)	-635.0	-763.7	-1045.0	-1223.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	169.7	-301.8	278.2	-152.4	6.2	0.0
Actual(MU)	190.3	-303.0	292.7	-193.4	7.5	-5.9
O/D/U/D(MU)	20.6	-1.2	14.4	-41.0	1.3	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5912	8747	4028	3493	408	22588	50
State Sector	7731	8238	3171	2957	99	22195	50
Total	13643	16985	7199	6450	507	44783	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	679	1609	716	711	14	3729	77
Lignite	32	16	70	0	0	119	2
Hydro	109	28	44	19	7	208	4
Nuclear	31	47	52	0	0	129	3
Gas, Naptha & Diesel	11	42	7	0	25	84	2
RES (Wind, Solar, Biomass & Others)	149	167	242	8	1	567	12
Total	1011	1909	1130	738	47	4835	100

Share of RES in total generation (%)	14.69	8.77	21.39	1.10	2.28	11.72
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.61	12.72	29.89	3.67	18.02	18.73

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.026

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219075	10:55	402
Non-Solar hr	191085	18:59	160

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: 02-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	1030	0.0	18.7	-18.7
4	765 kV	SASARAM-FATEHPUR	1	0	579	0.0	11.8	-11.8
5	765 kV	GAYA-BALIA	1	0	593	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	35	15	0.3	0.0	0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	81	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	534	0.0	6.6	-6.6
9	400 kV	PATNA-BALIA	2	0	592	0.0	20.5	-20.5
10	400 kV	NAUBATPUR-BALIA	2	0	366	0.0	6.5	-6.5
11	400 kV	BIHARSHARIFF-BALIA	2	45	195	0.0	2.7	-2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	541	0.0	9.6	-9.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	436	0.0	7.5	-7.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	120	0.0	2.0	-2.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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>0.8</b>	<b>97.5</b>	<b>-96.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1205	344	12.3	0.0	12.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1261	0.0	17.8	-17.8
3	765 kV	JHARSUGUDA-DURG	2	0	753	0.0	14.0	-14.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	506	0.0	8.5	-8.5
5	400 kV	RANCHI-SIPAT	2	0	383	0.0	5.8	-5.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	177	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	88	77	0.4	0.0	0.4
<b>ER-WR</b>						<b>12.7</b>	<b>49.0</b>	<b>-36.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	2780	639	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1985	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3043	0.0	60.7	-60.7
4	400 kV	TALCHER-I/C	2	407	240	3.5	0.0	3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>75.4</b>	<b>-75.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	682	26	7.7	0.0	7.7
3	220 kV	ALIPURDUAR-SALAKATI	2	102	28	0.9	0.0	0.9
<b>ER-NER</b>						<b>10.4</b>	<b>0.0</b>	<b>10.4</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	708	0	16.8	0.0	16.8
<b>NER-NR</b>						<b>16.8</b>	<b>0.0</b>	<b>16.8</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	36.0	-36.0
2	HVDC	VINDHYACHAL B/B	-	439	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	0	1752	0.0	21.5	-21.5
5	765 kV	GWALIOR-PHAGI	2	93	1658	0.0	21.7	-21.7
6	765 kV	JABALPUR-ORAI	2	0	764	0.0	17.5	-17.5
7	765 kV	GWALIOR-ORAI	1	771	0	13.4	0.0	13.4
8	765 kV	SATNA-ORAI	1	0	1063	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1040	18	12.2	0.0	12.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	1716	0.0	23.3	-23.3
11	400 kV	ZERDA-KANKROLI	1	269	0	3.5	0.0	3.5
12	400 kV	ZERDA -BHINMAL	1	541	43	5.6	0.0	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	486	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUJALPUR	2	325	298	2.1	1.3	0.8
15	220 kV	BHANPURA-RANPUR	1	75	87	0.5	0.5	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	1.6	0.0	1.6
17	220 kV	MEHGAON-AURAIYA	1	93	9	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	61	24	0.7	0.0	0.6
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>63.6</b>	<b>179.1</b>	<b>-115.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	13.4	-13.4
2	HVDC	RAIGARH-PUGALUR	2	0	6021	0.0	104.6	-104.6
3	765 kV	SOLAPUR-RAICHUR	2	480	1628	0.4	20.1	-19.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3025	0.0	52.5	-52.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3117	0.0	55.3	-55.3
6	400 kV	KOLHAPUR-KUDGI	2	1268	0	19.2	0.0	19.2
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	127	2.4	0.0	2.4
<b>WR-SR</b>						<b>22.0</b>	<b>245.8</b>	<b>-223.7</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)	-194	65	-77	-1.85
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-273	114	-24	-0.58
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-269	-37	-148	-3.56
	NER	132kV GELEPHU-SALAKATI	-30	-1	-14	-0.34
	NER	132kV MOTANGA-RANGIA	27	1	13	0.31
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.26
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-171	-33	-101	-2.43
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-518	-73	-370	-8.89
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-638	-828	-19.88
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1223	-815	-1020	-24.48
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-109	0	-45	-1.08

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 02-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	7.62	0.00	0.00	0.34	0.00	0.00	7.96
Nepal	0.20	0.00	9.65	0.00	0.00	0.29	0.00	0.00	10.14
Bangladesh	19.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.88	0.00	17.27	0.00	0.00	0.63	0.00	0.00	37.78

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
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	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

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	0.40	0.00	-7.62	0.00	0.00	-0.34	0.00	0.00	-7.56
Nepal	-0.20	0.00	-9.65	0.00	0.00	-0.29	0.00	0.00	-10.14
Bangladesh	-19.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.48	0.00	-17.27	0.00	0.00	-0.63	0.00	0.00	-37.38