



**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: 01<sup>st</sup> April 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 31.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31<sup>st</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 01-Apr-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)	52834	62334	48671	25002	1926	190767
Peak Shortage (MW)	0	0	0	114	0	114
Energy Met (MU)	1144	1495	1310	542	43	4534
Hydro Gen (MU)	167	25	46	21	11	270
Wind Gen (MU)	19	74	31	-	-	124
Solar Gen (MU)*	158.41	79.60	148.69	2.58	0.40	390
Energy Shortage (MU)	0.00	0.00	0.00	0.49	0.00	0.49
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53463	65639	60559	25924	2042	201533
Time Of Maximum Demand Met	19:30	11:26	11:53	21:33	18:08	11:12

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	0.036	0.00	0.07	5.09	5.16	78.83	16.01

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	5855	0	126.8	38.6	-0.8	126	0.00
	Haryana	6029	0	129.4	102.6	-3.2	85	0.00
	Rajasthan	13300	0	274.9	59.7	-1.7	178	0.00
	Delhi	3829	0	82.3	73.7	0.0	165	0.00
	UP	20147	0	406.6	130.0	-1.6	925	0.00
	Uttarakhand	1859	0	39.4	26.6	-0.3	156	0.00
	HP	1441	0	26.5	14.6	-0.4	79	0.00
	J&K(UT) & Ladakh(UT)	2697	0	50.5	38.1	-2.3	117	0.00
	Chandigarh	187	0	3.5	3.5	0.0	25	0.00
Railways NR ISTS	180	0	3.8	3.7	0.0	28	0.00	
WR	Chhattisgarh	5983	0	140.0	72.0	3.6	194	0.00
	Gujarat	20027	0	428.3	156.1	-1.6	550	0.00
	MP	12174	0	261.6	141.5	-5.7	403	0.00
	Maharashtra	25852	0	589.6	215.1	-2.1	744	0.00
	Goa	693	0	16.0	11.9	3.7	47	0.00
	DNHDDPDCL	1184	0	26.8	26.9	-0.1	39	0.00
	AMNSIL	885	0	20.5	8.0	0.2	306	0.00
BALCO	524	0	12.5	12.6	-0.1	6	0.00	
SR	Andhra Pradesh	12413	0	236.1	82.4	0.6	680	0.00
	Telangana	13542	0	277.1	152.2	0.4	907	0.00
	Karnataka	15077	0	309.1	145.6	-4.0	1138	0.00
	Kerala	5078	0	96.3	75.9	1.3	343	0.00
	Tamil Nadu	17304	0	382.1	238.9	0.3	554	0.00
	Puducherry	433	0	9.5	9.1	-0.2	34	0.00
ER	Bihar	5565	0	110.4	98.5	1.1	317	0.26
	DVC	3170	0	68.2	-40.1	-0.7	283	0.00
	Jharkhand	1794	0	32.9	22.8	-1.8	398	0.23
	Odisha	5897	0	127.1	62.4	-1.8	320	0.00
	West Bengal	9791	0	201.6	52.4	-2.7	192	0.00
	Sikkim	85	0	1.4	1.6	-0.3	8	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	173	0	2.7	3.0	-0.4	51	0.00
	Assam	1293	0	24.7	19.9	-1.1	172	0.00
	Manipur	192	0	3.0	3.3	-0.4	50	0.00
	Meghalaya	300	0	5.2	5.5	-0.8	79	0.00
	Mizoram	109	0	1.4	1.7	-0.6	7	0.00
	Nagaland	123	0	1.9	2.2	-0.4	11	0.00
Tripura	196	0	3.9	4.1	0.9	68	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.2	-8.5	-23.9	-23.1
Day Peak (MW)	-361.0	-525.2	-1117.0	-1033.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	69.2	-256.6	288.2	-101.8	1.0	0.0
Actual(MU)	70.6	-266.3	301.6	-111.6	-3.0	-8.7
O/D/U/D(MU)	1.4	-9.7	13.3	-9.8	-4.0	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5688	9031	5288	3202	146	23355	55
State Sector	6381	6920	3335	2297	170	19102	45
Total	12069	15951	8623	5499	316	42457	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	751	1606	719	715	15	3806	77
Lignite	24	17	66	0	0	108	2
Hydro	167	25	46	21	11	270	5
Nuclear	11	55	52	0	0	118	2
Gas, Naptha & Diesel	10	39	4	0	26	79	2
RES (Wind, Solar, Biomass & Others)	198	158	200	4	0	560	11
Total	1161	1901	1087	740	53	4941	100

Share of RES in total generation (%)	17.01	8.31	18.41	0.52	0.76	11.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.32	12.57	27.43	2.59	22.21	19.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.068

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	201533	11:12	0
Non-Solar hr	193271	22:43	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 -> 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: 01-Apr-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	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	502	775	0.0	8.7	-8.7
4	765 kV	SASARAM-FATEHPUR	1	109	452	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	0	572	0.0	9.1	-9.1
6	400 kV	PUSAULI-VARANASI	1	0	98	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	50	21	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	312	480	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	2	88	438	0.0	7.8	-7.8
10	400 kV	NAUBATPUR-BALIA	2	79	211	0.0	2.4	-2.4
11	400 kV	BIHARSHARIFF-BALIA	2	283	137	0.0	1.2	-1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	140	353	0.0	2.6	-2.6
13	400 kV	BIHARSHARIFF-VARANASI	2	309	148	0.0	0.4	-0.4
14	220 kV	SAHUPURI-KARAMNANA	1	42	96	0.0	1.1	-1.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.1	-0.1
16	132 kV	GARWAH-RIHAND	1	0	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>0.1</b>	<b>45.1</b>	<b>-45.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1606	0	23.1	0.0	23.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	222	1301	0.0	11.2	-11.2
3	765 kV	JHARSUGUDA-DURG	2	0	1021	0.0	18.9	-18.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	565	0.0	9.2	-9.2
5	400 kV	RANCHI-SIPAT	2	2	411	0.0	5.1	-5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	44	104	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	103	0	1.2	0.0	1.2
					<b>ER-WR</b>	<b>24.3</b>	<b>45.0</b>	<b>-20.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	654	0.0	14.3	-14.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1491	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2806	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	409	0	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					<b>ER-SR</b>	<b>0.0</b>	<b>107.9</b>	<b>-107.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	589	0	5.3	0.0	5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	976	0	9.1	0.0	9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	184	0	1.7	0.0	1.7
					<b>ER-NER</b>	<b>16.1</b>	<b>0.0</b>	<b>16.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	659	0	14.3	0.0	14.3
					<b>NER-NR</b>	<b>14.3</b>	<b>0.0</b>	<b>14.3</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1250	0.0	45.4	-45.4
2	HVDC	VINDHYACHAL B/B	-	257	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	677	984	2.7	6.2	-3.5
5	765 kV	GWALIOR-PHAGI	2	1023	1069	4.9	11.6	-6.7
6	765 kV	JABALPUR-ORAI	2	401	509	0.0	2.5	-2.5
7	765 kV	GWALIOR-ORAI	1	659	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	822	0.0	15.6	-15.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1848	0	23.4	0.0	23.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2005	0.0	29.5	-29.5
11	400 kV	ZERDA-KANKROLI	1	338	0	4.4	0.0	4.4
12	400 kV	ZERDA -BHINMAL	1	338	0	4.4	0.0	4.4
13	400 kV	VINDHYACHAL -RIHAND	1	966	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	567	206	5.0	0.6	4.4
15	220 kV	BHANPURA-RANPUR	1	0	135	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	100	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	73	0	0.9	0.0	0.9
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>85.3</b>	<b>130.1</b>	<b>-44.9</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	21.6	-21.6
2	HVDC	RAIGARH-PUGALUR	2	0	4510	0.0	90.9	-90.9
3	765 kV	SOLAPUR-RAICHUR	2	0	1997	0.0	27.9	-27.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3030	0.0	57.7	-57.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2986	0.0	59.1	-59.1
6	400 kV	KOLHAPUR-KUDGI	2	932	0	13.1	0.0	13.1
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	120	2.5	0.0	2.5
					<b>WR-SR</b>	<b>15.6</b>	<b>257.1</b>	<b>-241.5</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)	191	-184	22	0.53
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-240	199	-14	-0.33
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-230	-75	-179	-4.29
	NER	132kV GELEPHU-SALAKATI	-31	0	-15	-0.37
	NER	132kV MOTANGA-RANGIA	24	1	11	0.27
NEPAL	NR	NEPAL IMPORT (FROM UP)	-63	0	-61	-1.47
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-63	0	-38	-0.91
	ER	NEPAL IMPORT (FROM BIHAR)	-205	0	-78	-1.88
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-320	0	-177	-4.24
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-951	-106	-864	-20.74
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1033	-785	-963	-23.11
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-166	0	-132	-3.16

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 01-Apr-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	7.65	0.00	0.00	0.00	0.00	0.00	0.00	7.65
Nepal	0.29	0.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	4.79
Bangladesh	21.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.21
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.50	0.00	12.15	0.00	0.00	0.00	0.00	0.00	0.00	33.65

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.56
Bangladesh	0.00	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	0.00
Total Import	0.96	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	1.52

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	0.96	0.00	-7.65	0.00	0.00	0.00	0.00	0.00	0.00	-6.69
Nepal	-0.29	0.00	-4.50	0.00	0.00	0.56	0.00	0.00	0.00	-4.23
Bangladesh	-21.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.21
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.54	0.00	-12.15	0.00	0.00	0.56	0.00	0.00	0.00	-32.13