



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: 25<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., 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 24.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24<sup>th</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-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)	46280	58255	47423	22506	2446	176910
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1078	1465	1291	481	45	4360
Hydro Gen (MU)	140	23	37	17	15	231
Wind Gen (MU)	16	92	44	-	-	153
Solar Gen (MU)*	140.22	83.02	132.42	3.43	0.91	360
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.00	0.00
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52989	66455	60638	22787	2536	199723
Time Of Maximum Demand Met	09:52	10:43	11:58	18:36	18:08	09:44

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	0.033	0.00	0.03	5.07	5.10	80.78	14.12

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	6425	0	141.2	58.1	0.2	210	0.00
	Haryana	5969	0	121.1	96.1	-2.3	112	0.00
	Rajasthan	14081	0	269.3	71.3	-0.7	364	0.00
	Delhi	3405	0	66.3	58.1	-0.2	203	0.00
	UP	16444	0	352.6	101.8	0.6	488	0.00
	Uttarakhand	1791	0	35.8	26.9	-0.3	80	0.00
	HP	1648	0	29.7	19.8	-0.5	73	0.00
	J&K(UT) & Ladakh(UT)	2698	0	54.3	45.5	-1.0	162	0.00
	Chandigarh	171	0	3.2	3.6	-0.3	6	0.00
Railways NR ISTS	194	0	4.1	3.7	0.4	36	0.00	
WR	Chhattisgarh	5601	0	125.7	65.5	-0.2	468	0.00
	Gujarat	19574	0	401.0	213.5	0.0	716	0.00
	MP	12536	0	256.4	148.6	-5.1	685	0.00
	Maharashtra	26968	0	607.8	210.3	-0.2	733	0.00
	Goa	664	0	14.5	11.5	2.6	45	0.00
	DNHDDPDCL	1231	0	28.1	28.1	0.0	45	0.00
	AMNSIL	848	0	18.8	8.4	0.3	239	0.00
	BALCO	524	0	12.5	12.6	-0.1	8	0.00
SR	Andhra Pradesh	12124	0	229.7	82.1	-1.8	379	0.00
	Telangana	13769	0	279.7	157.7	1.3	699	0.00
	Karnataka	15200	0	309.2	151.9	-3.6	428	0.00
	Kerala	5029	0	95.2	80.7	1.6	216	0.00
	Tamil Nadu	16875	0	368.0	222.4	-1.0	491	0.00
	Puducherry	396	0	9.4	9.2	-0.3	9	0.00
ER	Bihar	4615	0	89.7	84.0	-0.5	429	0.00
	DVC	3309	0	70.4	-35.4	0.2	295	0.00
	Jharkhand	1683	0	36.2	25.1	-1.6	203	0.00
	Odisha	5662	0	118.0	46.1	-1.5	402	0.00
	West Bengal	7828	0	164.9	23.2	-1.3	197	0.00
	Sikkim	83	0	1.4	1.7	-0.2	7	0.00
	Railways ER ISTS	12	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	167	0	2.9	3.3	-0.6	347	0.00
	Assam	1444	0	25.8	19.9	0.0	107	0.00
	Manipur	202	0	3.0	3.0	0.0	22	0.00
	Meghalaya	307	0	5.9	5.6	-0.2	19	0.00
	Mizoram	108	0	1.7	1.6	-0.2	46	0.00
	Nagaland	142	0	2.2	2.2	-0.1	10	0.00
	Tripura	212	0	3.4	3.0	-0.1	106	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.3	-8.4	-24.7	-22.5
Day Peak (MW)	-537.0	-474.8	-1101.0	-1043.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	86.2	-246.6	305.8	-144.3	-1.2	0.0
Actual(MU)	83.1	-238.1	315.7	-164.6	-1.9	-5.9
O/D/U/D(MU)	-3.1	8.4	9.9	-20.3	-0.7	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5371	7364	5168	2602	226	20731	43
State Sector	8611	12723	3110	2757	170	27370	57
Total	13982	20086	8278	5359	396	48100	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	684	1513	686	716	15	3614	76
Lignite	28	22	69	0	0	119	2
Hydro	140	23	37	17	15	231	5
Nuclear	31	60	52	0	0	143	3
Gas, Naptha & Diesel	10	31	6	0	25	72	2
RES (Wind, Solar, Biomass & Others)	176	178	206	5	1	565	12
Total	1069	1827	1055	737	55	4743	100

Share of RES in total generation (%)	16.46	9.72	19.50	0.67	1.64	11.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.48	14.32	27.89	2.96	28.20	19.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.051

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199723	9:44	0
Non-Solar hr	181848	0:00	28

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: 25-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	192	818	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	17	501	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	486	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	87	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	37	43	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	178	453	0.0	5.9	-5.9
9	400 kV	PATNA-BALIA	2	0	445	0.0	12.1	-12.1
10	400 kV	NAUBATPUR-BALIA	2	11	218	0.0	3.6	-3.6
11	400 kV	BIHARSHARIF-BALIA	2	217	147	0.0	0.6	-0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	380	0.0	6.3	-6.3
13	400 kV	BIHARSHARIF-VARANASI	2	168	195	0.0	1.9	-1.9
14	220 kV	SAHUPURI-KARAMNANA	1	2	93	0.0	1.2	-1.2
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>0.0</b>	<b>62.0</b>	<b>-62.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	860	144	9.1	0.0	9.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1461	0.0	22.8	-22.8
3	765 kV	JHARSUGUDA-DURG	2	0	1184	0.0	23.6	-23.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	571	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	0	406	0.0	6.9	-6.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	131	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	94	36	0.7	0.0	0.7
					<b>ER-WR</b>	<b>9.8</b>	<b>63.8</b>	<b>-54.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	745	0.0	17.6	-17.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1491	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2940	0.0	59.3	-59.3
4	400 kV	TALCHER-I/C	2	418	0	9.1	0.0	9.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					<b>ER-SR</b>	<b>0.0</b>	<b>113.0</b>	<b>-113.0</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	2	6	2.9	0.0	2.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	890	0	14.5	0.0	14.5
3	220 kV	ALIPURDUAR-SALAKATI	2	157	0	0.8	0.0	0.8
					<b>ER-NER</b>	<b>18.2</b>	<b>0.0</b>	<b>18.2</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	659	0	15.6	0.0	15.6
					<b>NER-NR</b>	<b>15.6</b>	<b>0.0</b>	<b>15.6</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2514	0.0	62.0	-62.0
2	HVDC	VINDHYACHAL B/B	-	305	0	6.9	0.0	6.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1912	0.0	22.6	-22.6
4	765 kV	GWALIOR-AGRA	2	652	954	2.2	4.4	-2.2
5	765 kV	GWALIOR-PHAGI	2	1057	1232	4.0	15.6	-11.6
6	765 kV	JABALPUR-ORAI	2	426	441	0.0	2.1	-2.1
7	765 kV	GWALIOR-ORAI	1	747	0	12.2	0.0	12.2
8	765 kV	SATNA-ORAI	1	0	888	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	2212	0	34.6	0.0	34.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1620	0.0	21.8	-21.8
11	400 kV	ZERDA-KANKROLI	1	418	0	6.8	0.0	6.8
12	400 kV	ZERDA -BHINMAL	1	416	0	6.8	0.0	6.8
13	400 kV	VINDHYACHAL -RIHAND	1	964	0	20.8	0.0	20.8
14	400 kV	RAPP-SHUALPUR	2	836	44	7.5	0.0	7.5
15	220 kV	BHANPURA-RANPUR	1	159	119	1.0	1.4	-0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.7	-0.5
17	220 kV	MEHGAON-AURAIYA	1	108	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	74	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>106.0</b>	<b>147.7</b>	<b>-41.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	20.9	-20.9
2	HVDC	RAIGARH-PUGALUR	2	0	6030	0.0	123.1	-123.1
3	765 kV	SOLAPUR-RAICHUR	2	0	1447	0.0	19.9	-19.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2883	0.0	49.4	-49.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3080	0.0	55.6	-55.6
6	400 kV	KOLHAPUR-KUDGI	2	1047	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	2	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	119	2.3	0.0	2.3
					<b>WR-SR</b>	<b>18.4</b>	<b>268.8</b>	<b>-250.4</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)	-169	108	9	0.22
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-237	157	-45	-1.09
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-251	-122	-190	-4.55
	NER	132kV GELEPHU-SALAKATI	-22	0	-7	-0.18
	NER	132kV MOTANGA-RANGIA	19	3	20	0.49
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-0.62
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.10
	ER	NEPAL IMPORT (FROM BIHAR)	-61	0	-9	-0.21
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-351	-189	-270	-6.47
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-951	-805	-913	-21.90
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1043	-805	-939	-22.54
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	150	0	-117	-2.80

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-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	5.96	0.00	0.00	0.76	0.00	0.00	6.72
Nepal	0.20	0.00	6.71	0.00	0.00	0.24	0.00	0.00	7.15
Bangladesh	22.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.01
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.21	0.00	12.67	0.00	0.00	1.00	0.00	0.00	35.88

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	-5.96	0.00	0.00	-0.76	0.00	0.00	-6.04
Nepal	-0.20	0.00	-6.71	0.00	0.00	-0.24	0.00	0.00	-7.15
Bangladesh	-22.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.01
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.53	0.00	-12.67	0.00	0.00	-1.00	0.00	0.00	-35.20