



**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: 14<sup>th</sup> February 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 13.02.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-फ़रवरी-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 13<sup>th</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-Feb-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)	54771	61523	47661	20594	2673	187222
Peak Shortage (MW)	245	14	0	365	50	674
Energy Met (MU)	1188	1487	1264	441	49	4428
Hydro Gen (MU)	95	41	44	23	8	210
Wind Gen (MU)	20	66	79	-	-	165
Solar Gen (MU)*	110.35	59.38	135.48	5.54	1.12	312
Energy Shortage (MU)	4.04	0.31	0.00	1.88	0.43	6.66
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61464	73231	62565	21424	2776	218065
Time Of Maximum Demand Met	10:10	10:41	11:15	18:21	17:47	10:41

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	0.042	0.00	0.09	4.29	4.39	71.40	24.21

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	8873	0	164.4	62.1	0.7	227	0.00
	Haryana	8537	0	154.8	115.8	-0.1	222	1.82
	Rajasthan	17546	0	327.6	109.9	-0.6	321	0.00
	Delhi	4465	0	76.6	62.7	-0.2	267	0.00
	UP	18207	0	317.8	67.0	-0.5	543	0.00
	Uttarakhand	2439	0	44.2	31.7	0.4	106	0.06
	HP	2035	0	36.0	31.2	0.0	146	0.00
	J&K(UT) & Ladakh(UT)	2852	0	59.1	54.1	0.6	248	2.16
	Chandigarh	257	0	4.1	4.1	-0.1	26	0.00
Railways NR ISTS	176	0	3.5	3.6	-0.1	22	0.00	
WR	Chhattisgarh	5259	37	113.8	58.8	-0.4	460	0.31
	Gujarat	20613	0	407.4	165.6	0.1	732	0.00
	MP	15506	0	298.6	181.2	-3.2	475	0.00
	Maharashtra	27980	0	593.6	184.3	0.7	674	0.00
	Goa	708	0	12.8	13.5	-0.8	50	0.00
	DNHDDPDCL	1279	0	29.4	29.5	-0.1	29	0.00
	AMNSIL	813	0	18.6	8.6	0.2	229	0.00
	BALCO	521	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	12268	0	223.7	74.9	-1.3	856	0.00
	Telangana	14810	0	278.1	147.7	-0.2	860	0.00
	Karnataka	16158	0	306.6	133.1	1.1	934	0.00
	Kerala	4271	0	85.2	68.2	1.2	473	0.00
	Tamil Nadu	17078	0	360.9	176.7	-1.0	545	0.00
	Puducherry	417	0	9.2	8.9	-0.2	48	0.00
ER	Bihar	4670	0	87.8	80.5	-2.4	222	0.00
	DVC	3365	0	70.8	-48.9	0.3	311	0.00
	Jharkhand	1416	0	27.2	20.0	-2.0	305	1.88
	Odisha	4663	0	98.6	22.8	-1.5	314	0.00
	West Bengal	7371	0	154.6	31.7	-2.2	212	0.00
	Sikkim	110	0	1.7	1.9	-0.3	11	0.00
	Railways ER ISTS	14	0	0.2	0.1	0.0	0	0.00
NER	Arunachal Pradesh	162	0	3.0	2.8	0.2	52	0.00
	Assam	1579	0	28.1	22.2	0.2	200	0.10
	Manipur	209	20	3.1	2.9	0.2	53	0.33
	Meghalaya	334	0	6.3	5.2	-0.2	70	0.00
	Mizoram	145	0	2.2	1.7	-0.1	41	0.00
	Nagaland	146	0	2.4	2.5	-0.2	21	0.00
	Tripura	243	0	3.9	3.6	0.1	59	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.4	-12.6	-21.0	-28.3
Day Peak (MW)	-651.0	-627.3	-1059.0	-1376.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.1	-249.9	176.5	-144.1	10.4	0.0
Actual(MU)	210.7	-256.4	185.4	-154.6	10.9	-4.1
O/D/U/D(MU)	3.6	-6.5	8.9	-10.5	0.4	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8235	11254	4889	4972	822	30172	56
State Sector	7706	9187	3991	2614	219	23716	44
Total	15941	20440	8880	7586	1041	53889	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	730	1602	721	656	10	3719	78
Lignite	31	19	63	0	0	113	2
Hydro	95	41	44	23	8	210	4
Nuclear	31	26	52	0	0	109	2
Gas, Naptha & Diesel	18	49	7	0	24	99	2
RES (Wind, Solar, Biomass & Others)	154	129	253	8	1	546	11
Total	1061	1865	1138	687	44	4796	100

Share of RES in total generation (%)	14.55	6.92	22.20	1.17	2.59	11.37
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.55	10.50	30.60	4.52	21.07	18.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.043

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218065	10:41	776
Non-Solar hr	196051	18:44	563

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: 14-Feb-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	0	1075	0.0	16.6	-16.6
4	765 kV	SASARAM-FATEHPUR	1	0	661	0.0	11.1	-11.1
5	765 kV	GAYA-BALIA	1	0	677	0.0	9.3	-9.3
6	400 kV	PUSAULI-VARANASI	1	19	33	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	67	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	38	525	0.0	5.4	-5.4
9	400 kV	PATNA-BALIA	2	0	644	0.0	15.4	-15.4
10	400 kV	NAUBATPUR-BALIA	2	0	333	0.0	4.8	-4.8
11	400 kV	BIHARSHARIF-BALIA	2	121	313	0.0	1.4	-1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	498	0.0	8.1	-8.1
13	400 kV	BIHARSHARIF-VARANASI	2	0	353	0.0	5.2	-5.2
14	220 kV	SAHUPURI-KARAMNANA	1	20	131	0.0	1.5	-1.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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>0.5</b>	<b>81.1</b>	<b>-80.7</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	588	481	4.7	0.0	4.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	671	516	0.0	0.8	-0.8
3	765 kV	JHARSUGUDA-DURG	2	0	526	0.0	10.1	-10.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	700	0.0	12.5	-12.5
5	400 kV	RANCHI-SIPAT	2	103	241	0.0	2.6	-2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	97	68	0.7	0.0	0.7
<b>ER-WR</b>						<b>5.4</b>	<b>27.4</b>	<b>-22.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	391	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2001	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2491	0.0	49.9	-49.9
4	400 kV	TALCHER-I/C	2	307	259	0.0	0.7	-0.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>104.4</b>	<b>-104.4</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	134	64	0.6	0.2	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	447	44	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	89	0	1.1	0.0	1.1
<b>ER-NER</b>						<b>6.2</b>	<b>0.2</b>	<b>6.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	705	0	16.7	0.0	16.7
<b>NER-NR</b>						<b>16.7</b>	<b>0.0</b>	<b>16.7</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1999	0.0	47.9	-47.9
2	HVDC	VINDHYACHAL B/B	-	437	0	10.2	0.0	10.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	693	0.0	11.0	-11.0
4	765 kV	GWALIOR-AGRA	2	0	2096	0.0	31.4	-31.4
5	765 kV	GWALIOR-PHAGI	2	0	1977	0.0	31.2	-31.2
6	765 kV	JABALPUR-ORAI	2	0	967	0.0	25.0	-25.0
7	765 kV	GWALIOR-ORAI	1	1119	0	18.5	0.0	18.5
8	765 kV	SATNA-ORAI	1	0	1035	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1123	662	7.9	2.2	5.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2398	0.0	30.9	-30.9
11	400 kV	ZERDA-KANKROLI	1	154	123	1.2	0.4	0.8
12	400 kV	ZERDA -BHINMAL	1	439	343	2.8	1.3	1.4
13	400 kV	VINDHYACHAL -RIHAND	1	487	0	10.6	0.0	10.6
14	400 kV	RAPP-SHUJALPUR	2	239	401	0.7	3.1	-2.4
15	220 kV	BHANPURA-RANPUR	1	75	83	0.4	0.4	0.0
16	220 kV	BHANPURA-MORAK	1	0	30	1.6	0.0	1.6
17	220 kV	MEHGAON-AURAIYA	1	105	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	73	8	0.7	0.0	0.7
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>55.8</b>	<b>205.2</b>	<b>-149.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	16.5	-16.5
2	HVDC	RAIGARH-PUGALUR	2	0	4513	0.0	58.9	-58.9
3	765 kV	SOLAPUR-RAICHUR	2	889	1009	3.5	8.1	-4.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2246	0.0	37.4	-37.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2214	0.0	37.7	-37.7
6	400 kV	KOLHAPUR-KUDGI	2	1580	0	23.8	0.0	23.8
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	119	2.2	0.0	2.2
<b>WR-SR</b>						<b>29.6</b>	<b>158.6</b>	<b>-129.0</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)	-197	66	-113	-2.70
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-311	225	-77	-1.86
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-282	-143	-241	-5.80
	NER	132kV GELEPHU-SALAKATI	-25	-4	-17	-0.40
NEPAL	NER	132kV MOTANGA-RANGIA	30	3	16	0.38
	NR	NEPAL IMPORT (FROM UP)	-74	0	-47	-1.13
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-59	-1.42
	ER	NEPAL IMPORT (FROM BIHAR)	-173	-4	-68	-1.64
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-454	-71	-351	-8.43
	ER	BHERAMARA B/B HVDC (B'DESH)	-925	-639	-774	-18.58
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1376	-813	-1180	-28.32
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-99	-2.38

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 14-Feb-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	11.40	0.00	0.00	0.75	0.00	0.00	12.15
Nepal	0.29	0.00	8.67	0.00	0.00	0.07	0.00	0.00	9.03
Bangladesh	18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.95	0.00	20.07	0.00	0.00	0.82	0.00	0.00	39.84

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	-11.40	0.00	0.00	-0.75	0.00	0.00	-11.75
Nepal	-0.29	0.00	-8.67	0.00	0.00	-0.07	0.00	0.00	-9.03
Bangladesh	-18.66	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.66
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.55	0.00	-20.07	0.00	0.00	-0.82	0.00	0.00	-39.44