



**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: 04<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 03.02.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 03<sup>rd</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 04-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)	57075	62270	47387	21086	2572	190390
Peak Shortage (MW)	166	0	0	465	166	797
Energy Met (MU)	1183	1491	1231	440	46	4391
Hydro Gen (MU)	94	42	60	23	9	227
Wind Gen (MU)	12	28	40	-	-	80
Solar Gen (MU)*	68.36	64.79	112.48	2.85	0.66	249
Energy Shortage (MU)	2.37	1.09	0.00	2.02	1.28	6.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59214	74014	60021	22068	2649	214106
Time Of Maximum Demand Met	18:39	10:46	09:55	18:18	19:35	10:42

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	0.055	0.00	1.63	11.34	12.97	69.73	17.30

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	7681	0	148.5	49.8	-0.6	237	0.00
	Haryana	7326	0	142.7	87.9	1.1	284	0.88
	Rajasthan	17098	0	320.8	127.5	-4.7	159	0.00
	Delhi	4893	0	80.7	65.0	0.0	428	0.00
	UP	18952	0	334.3	94.8	-1.2	399	0.00
	Uttarakhand	2337	70	45.7	33.8	0.2	139	0.23
	HP	2026	0	37.9	32.3	0.9	223	0.00
	J&K(UT) & Ladakh(UT)	3028	0	64.7	59.9	0.4	251	1.26
	Chandigarh	271	0	4.6	4.5	0.1	29	0.00
Railways NR ISTS	170	0	3.6	3.4	0.1	30	0.00	
WR	Chhattisgarh	5246	153	110.1	46.3	-0.6	312	0.23
	Gujarat	20795	0	413.8	176.4	2.6	757	0.00
	MP	16748	0	320.0	198.8	-3.0	648	0.86
	Maharashtra	27355	0	572.9	164.6	1.3	988	0.00
	Goa	677	0	12.2	12.7	-1.1	36	0.00
	DNHDDPDCL	1282	0	29.3	29.3	0.0	39	0.00
	AMNSIL	878	0	19.9	9.9	0.0	305	0.00
	BALCO	522	0	12.5	12.4	0.1	16	0.00
SR	Andhra Pradesh	12405	0	229.8	77.8	-1.0	650	0.00
	Telangana	14042	0	262.2	116.5	-0.1	707	0.00
	Karnataka	16150	0	294.6	134.9	2.2	716	0.00
	Kerala	4208	0	87.0	70.8	0.7	261	0.00
	Tamil Nadu	16767	0	348.3	190.2	-2.3	483	0.00
	Puducherry	403	0	9.2	8.6	0.0	89	0.00
ER	Bihar	5076	0	89.6	83.8	-0.7	411	0.79
	DVC	3198	0	72.5	-40.5	0.4	258	0.00
	Jharkhand	1621	83	31.5	22.1	-0.5	247	1.23
	Odisha	4821	0	98.6	10.3	-0.4	401	0.00
	West Bengal	7058	0	146.1	18.8	-2.8	136	0.00
	Sikkim	116	0	1.9	1.9	0.0	16	0.00
	Railways ER ISTS	15	0	0.1	0.2	-0.1	4	0.00
NER	Arunachal Pradesh	172	0	3.0	2.9	-0.1	37	0.00
	Assam	1517	0	26.0	21.1	0.7	209	1.10
	Manipur	225	0	2.7	2.9	-0.1	35	0.18
	Meghalaya	345	0	6.4	5.4	-0.2	61	0.00
	Mizoram	147	0	2.1	1.8	-0.5	46	0.00
	Nagaland	150	0	2.3	2.3	0.0	14	0.00
Tripura	228	0	3.9	3.4	-0.2	28	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.4	-12.2	-21.1	-17.3
Day Peak (MW)	-611.9	-473.1	-1054.0	-767.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	269.1	-275.8	179.3	-180.2	7.6	0.0
Actual(MU)	264.9	-282.0	193.6	-189.2	7.5	-5.2
O/D/U/D(MU)	-4.2	-6.2	14.3	-9.0	-0.1	-5.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7972	8659	5088	4672	697	27088	53
State Sector	7316	8312	5451	2664	281	24023	47
Total	15288	16970	10539	7336	978	51112	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1659	731	690	11	3811	80
Lignite	32	13	60	0	0	105	2
Hydro	94	42	60	23	9	227	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	18	50	7	0	25	99	2
RES (Wind, Solar, Biomass & Others)	103	97	208	4	1	413	9
Total	1000	1901	1116	716	45	4778	100

Share of RES in total generation (%)	10.30	5.13	18.59	0.62	1.47	8.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.89	9.47	28.61	3.02	21.32	15.91

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.055

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214106	10:42	537
Non-Solar hr	196954	18:54	282

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: 04-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	1104	0.0	20.6	-20.6
4	765 kV	SASARAM-FATEHPUR	1	0	627	0.0	11.8	-11.8
5	765 kV	GAYA-BALIA	1	0	809	0.0	12.9	-12.9
6	400 kV	PUSAULI-VARANASI	1	31	21	0.2	0.0	0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	79	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	720	0.0	10.1	-10.1
9	400 kV	PATNA-BALIA	2	0	791	0.0	14.7	-14.7
10	400 kV	NAUBATPUR-BALIA	2	0	365	0.0	5.5	-5.5
11	400 kV	BIHARSHARIF-BALIA	2	0	358	0.0	5.7	-5.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	604	0.0	10.6	-10.6
13	400 kV	BIHARSHARIF-VARANASI	2	0	377	0.0	7.0	-7.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	123	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	0.6	0.0	0.6
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>0.7</b>	<b>103.4</b>	<b>-102.6</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1892	0.0	25.6	-25.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	253	1054	0.0	11.0	-11.0
3	765 kV	JHARSUGUDA-DURG	2	0	814	0.0	16.2	-16.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	799	0.0	13.8	-13.8
5	400 kV	RANCHI-SIPAT	2	40	347	0.0	4.5	-4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	194	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	30	145	0.0	1.2	-1.2
<b>ER-WR</b>						<b>0.0</b>	<b>75.3</b>	<b>-75.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	503	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	18	1224	0.0	0.4	-0.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2881	0.0	55.0	-55.0
4	400 kV	TALCHER-I/C	2	1927	0	43.7	0.0	43.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>66.7</b>	<b>-66.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	13	6	0.0	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	723	0	8.1	0.0	8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	120	0	1.5	0.0	1.5
<b>ER-NER</b>						<b>9.6</b>	<b>0.0</b>	<b>9.6</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	701	0	17.2	0.0	17.2
<b>NER-NR</b>						<b>17.2</b>	<b>0.0</b>	<b>17.2</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3012	0.0	69.9	-69.9
2	HVDC	VINDHYACHAL B/B	-	436	0	6.7	0.0	6.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	2524	0.0	30.5	-30.5
5	765 kV	GWALIOR-PHAGI	2	0	2323	0.0	34.5	-34.5
6	765 kV	JABALPUR-ORAI	2	0	1175	0.0	21.7	-21.7
7	765 kV	GWALIOR-ORAI	1	814	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1348	0.0	22.6	-22.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1148	486	12.1	0.8	11.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2620	0.0	32.4	-32.4
11	400 kV	ZERDA-KANKROLI	1	203	147	1.5	0.6	1.0
12	400 kV	ZERDA -BHINMAL	1	357	341	2.1	1.7	0.4
13	400 kV	VINDHYACHAL -RIHAND	1	489	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUALPUR	2	174	607	0.6	4.6	-4.0
15	220 kV	BHANPURA-RANPUR	1	110	205	0.4	1.8	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	90	5	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	59	29	0.6	0.1	0.5
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>51.1</b>	<b>234.7</b>	<b>-183.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	508	0.0	12.0	-12.0
2	HVDC	RAIGARH-PUGALUR	2	0	5010	0.0	85.0	-85.0
3	765 kV	SOLAPUR-RAICHUR	2	635	1958	1.2	20.1	-18.8
4	765 kV	WARDHA-NIZAMABAD	2	148	2667	0.1	36.0	-35.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2676	0.0	40.9	-40.9
6	400 kV	KOLHAPUR-KUDGI	2	1374	0	17.3	0.0	17.3
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	111	2.0	0.0	2.0
<b>WR-SR</b>						<b>20.6</b>	<b>193.9</b>	<b>-173.3</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)	-209	51	-122	-2.92
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-231	152	-87	-2.09
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-243	-74	-160	-3.83
	NER	132kV GELEPHU-SALAKATI	-32	-12	-21	-0.50
	NER	132kV MOTANGA-RANGIA	-35	17	-2	-0.04
NEPAL	NR	NEPAL IMPORT (FROM UP)	-75	0	-47	-1.12
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-57	-1.37
	ER	NEPAL IMPORT (FROM BIHAR)	-82	0	-82	-2.08
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-391	0	-320	-7.67
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-445	-777	-18.65
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-768	-510	-719	-17.25
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-103	-2.48

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-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	9.16	0.00	0.00	1.23	0.00	0.00	10.39
Nepal	0.24	0.00	8.39	0.00	0.00	0.28	0.00	0.00	8.91
Bangladesh	18.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.92	0.00	17.55	0.00	0.00	1.51	0.00	0.00	37.98

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
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	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43

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	0.43	0.00	-9.16	0.00	0.00	-1.23	0.00	0.00	-9.96
Nepal	-0.24	0.00	-8.39	0.00	0.00	-0.28	0.00	0.00	-8.91
Bangladesh	-18.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.68
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.49	0.00	-17.55	0.00	0.00	-1.51	0.00	0.00	-37.55