



**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: 13<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 12.02.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12<sup>th</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 13-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)	54698	61334	49045	21233	2658	188968
Peak Shortage (MW)	830	0	0	310	21	1161
Energy Met (MU)	1180	1471	1222	441	49	4362
Hydro Gen (MU)	96	47	46	24	8	222
Wind Gen (MU)	25	71	88	-	-	184
Solar Gen (MU)*	98.68	64.77	134.20	2.57	1.21	301
Energy Shortage (MU)	7.25	0.00	0.00	2.28	0.37	9.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61376	72168	62032	22075	2751	217018
Time Of Maximum Demand Met	09:54	10:37	11:42	18:54	17:52	10:54

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	0.048	0.00	1.57	4.93	6.50	71.13	22.37

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	8014	0	158.8	77.2	0.7	254	0.00
	Haryana	8486	200	148.7	106.9	1.2	406	3.85
	Rajasthan	17505	0	322.8	111.4	-6.3	191	0.00
	Delhi	4497	0	75.4	61.2	0.2	535	0.00
	UP	18486	0	328.5	79.1	-1.1	495	0.00
	Uttarakhand	2386	0	43.0	31.6	0.1	115	0.13
	HP	2054	0	35.7	30.8	0.0	192	0.19
	J&K(UT) & Ladakh(UT)	2860	550	59.0	54.4	0.4	264	3.08
	Chandigarh	252	0	4.2	4.3	-0.2	50	0.00
Railways NR ISTS	172	0	3.5	3.6	0.0	29	0.00	
WR	Chhattisgarh	5026	0	106.0	51.6	-1.1	490	0.00
	Gujarat	20576	0	396.5	169.4	-3.5	536	0.00
	MP	16494	0	309.2	183.5	-0.6	692	0.00
	Maharashtra	27935	0	584.6	182.5	-3.1	616	0.00
	Goa	688	0	13.5	13.6	-0.1	70	0.00
	DNHDDPDCL	1272	0	29.0	29.0	0.0	57	0.00
	AMNSIL	871	0	19.5	9.3	0.1	298	0.00
	BALCO	522	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12242	0	222.5	70.4	-1.0	803	0.00
	Telangana	14284	0	270.7	141.9	-1.5	740	0.00
	Karnataka	15951	0	301.6	132.8	-0.4	705	0.00
	Kerala	4319	0	86.1	68.6	1.3	343	0.00
	Tamil Nadu	16736	0	331.9	163.0	-1.5	890	0.00
	Puducherry	399	0	8.9	8.7	-0.4	18	0.00
ER	Bihar	5190	0	93.9	83.1	-0.7	294	0.06
	DVC	3183	0	71.1	-45.8	0.5	299	0.00
	Jharkhand	1672	0	30.8	21.8	-0.4	332	2.22
	Odisha	4452	0	93.4	17.4	0.1	477	0.00
	West Bengal	7438	0	149.4	26.8	-1.4	341	0.00
	Sikkim	122	0	1.9	2.0	-0.1	23	0.00
Railways ER ISTS	15	0	0.3	0.1	0.2	8	0.00	
NER	Arunachal Pradesh	170	0	3.1	2.8	0.3	31	0.00
	Assam	1554	54	28.0	21.4	1.0	128	0.08
	Manipur	228	20	3.2	2.8	0.4	38	0.29
	Meghalaya	315	0	6.2	5.0	-0.2	25	0.00
	Mizoram	147	0	2.2	1.7	-0.1	18	0.00
	Nagaland	149	0	2.4	2.4	-0.1	12	0.00
Tripura	251	0	3.8	3.6	0.1	37	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-12.4	-12.1	-21.2	-27.5
Day Peak (MW)	-653.4	-568.1	-1059.0	-1328.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	224.7	-244.8	156.5	-146.5	10.1	0.0
Actual(MU)	227.3	-253.3	158.5	-150.8	11.0	-7.3
O/D/U/D(MU)	2.6	-8.5	2.0	-4.3	0.9	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7985	10754	4689	4972	886	29286	50
State Sector	8231	11982	5591	2864	255	28922	50
Total	16216	22735	10280	7836	1140	58208	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	704	1569	712	652	10	3648	77
Lignite	31	17	60	0	0	108	2
Hydro	96	47	46	24	8	222	5
Nuclear	31	26	52	0	0	109	2
Gas, Naptha & Diesel	20	52	7	0	24	103	2
RES (Wind, Solar, Biomass & Others)	146	140	259	4	1	551	12
Total	1028	1851	1136	681	44	4740	100

Share of RES in total generation (%)	14.22	7.56	22.80	0.63	2.76	11.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.72	11.51	31.46	3.33	21.43	18.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217018	10:54	878
Non-Solar hr	195713	18:44	926

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: 13-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	1132	0.0	17.9	-17.9
4	765 kV	SASARAM-FATEHPUR	1	0	639	0.0	10.7	-10.7
5	765 kV	GAYA-BALIA	1	0	622	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	36	28	0.0	0.1	-0.1
7	400 kV	PUSAULI-ALLAHABAD	1	0	85	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	666	0.0	6.9	-6.9
9	400 kV	PATNA-BALIA	2	0	572	0.0	14.0	-14.0
10	400 kV	NAUBATPUR-BALIA	2	0	475	0.0	4.4	-4.4
11	400 kV	BIHARSHARIF-BALIA	2	156	201	0.0	1.7	-1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	551	0.0	8.2	-8.2
13	400 kV	BIHARSHARIF-VARANASI	2	0	350	0.0	5.1	-5.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	113	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	0.5	0.0	0.5
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>0.6</b>	<b>81.5</b>	<b>-80.9</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	641	600	0.0	0.2	-0.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	705	456	0.0	0.1	-0.1
3	765 kV	JHARSUGUDA-DURG	2	0	549	0.0	10.3	-10.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	770	0.0	11.1	-11.1
5	400 kV	RANCHI-SIPAT	2	112	261	0.0	1.8	-1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	9	139	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	96	111	0.3	0.0	0.3
<b>ER-WR</b>						<b>0.3</b>	<b>24.9</b>	<b>-24.7</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	510	0.0	10.8	-10.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1999	0.0	33.9	-33.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2715	0.0	52.5	-52.5
4	400 kV	TALCHER-I/C	2	680	237	10.5	0.0	10.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>97.2</b>	<b>-97.2</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	134	79	0.6	0.2	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	501	102	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	104	23	1.1	0.0	1.1
<b>ER-NER</b>						<b>6.2</b>	<b>0.2</b>	<b>6.0</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	17.1	0.0	17.1
<b>NER-NR</b>						<b>17.1</b>	<b>0.0</b>	<b>17.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4021	0.0	56.0	-56.0
2	HVDC	VINDHYACHAL B/B	-	436	0	11.8	0.0	11.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	300	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	0	2440	0.0	34.2	-34.2
5	765 kV	GWALIOR-PHAGI	2	0	2046	0.0	33.4	-33.4
6	765 kV	JABALPUR-ORAI	2	0	1134	0.0	29.4	-29.4
7	765 kV	GWALIOR-ORAI	1	1105	0	17.9	0.0	17.9
8	765 kV	SATNA-ORAI	1	0	1124	0.0	21.4	-21.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1009	601	6.8	1.3	5.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2391	0.0	33.0	-33.0
11	400 kV	ZERDA-KANKROLI	1	129	90	1.1	0.3	0.7
12	400 kV	ZERDA -BHINMAL	1	416	229	2.3	1.0	1.4
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	10.6	0.0	10.6
14	400 kV	RAPP-SHUJALPUR	2	213	505	0.6	4.3	-3.7
15	220 kV	BHANPURA-RANPUR	1	41	130	0.1	1.2	-1.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.8	0.4	0.4
17	220 kV	MEHGAON-AURAIYA	1	127	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	97	20	0.8	0.0	0.8
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>54.1</b>	<b>223.1</b>	<b>-169.0</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1003	0.0	13.9	-13.9
2	HVDC	RAIGARH-PUGALUR	2	0	3004	0.0	43.7	-43.7
3	765 kV	SOLAPUR-RAICHUR	2	1181	1314	5.7	10.7	-5.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2349	0.0	35.4	-35.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2363	0.0	36.1	-36.1
6	400 kV	KOLHAPUR-KUDGI	2	1604	0	22.6	0.0	22.6
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	116	2.2	0.0	2.2
<b>WR-SR</b>						<b>30.5</b>	<b>139.7</b>	<b>-109.2</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)	-208	111	-121	-2.90
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	267	-265	-145	-3.48
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-315	-142	-243	-5.83
	NER	132kV GELEPHU-SALAKATI	-25	-2	-18	-0.42
	NER	132kV MOTANGA-RANGIA	27	0	10	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-51	-1.22
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-58	-1.39
	ER	NEPAL IMPORT (FROM BIHAR)	-125	0	-43	-1.04
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-443	-119	-350	-8.41
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-639	-778	-18.66
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1329	-813	-1147	-27.52
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-133	0	-105	-2.52

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	11.68	0.00	0.00	0.84	0.00	0.00	12.52
Nepal	0.27	0.00	8.46	0.00	0.00	0.28	0.00	0.00	9.01
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	18.93	0.00	20.14	0.00	0.00	1.12	0.00	0.00	40.19

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
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	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41

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	0.41	0.00	-11.68	0.00	0.00	-0.84	0.00	0.00	-12.11
Nepal	-0.27	0.00	-8.46	0.00	0.00	-0.28	0.00	0.00	-9.01
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	-18.52	0.00	-20.14	0.00	0.00	-1.12	0.00	0.00	-39.78