



**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: 20<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., डोंगतेिह, 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 19.02.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 19<sup>th</sup> February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	52560	63752	50527	21706	2722	191267
Peak Shortage (MW)	0	0	0	264	0	264
Energy Met (MU)	1076	1490	1268	453	49	4337
Hydro Gen (MU)	111	32	44	17	8	213
Wind Gen (MU)	68	146	62	-	-	276
Solar Gen (MU)*	126.29	77.44	135.31	3.16	1.01	343
Energy Shortage (MU)	0.15	0.00	0.00	1.09	0.07	1.31
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56573	72907	63204	22338	2789	213775
Time Of Maximum Demand Met	09:25	10:51	10:26	18:27	17:56	10:23

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	0.074	0.32	2.42	4.96	7.71	62.62	29.67

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	6791	0	124.1	45.5	-2.4	365	0.00
	Haryana	7073	0	135.1	92.1	-2.8	289	0.00
	Rajasthan	16747	0	302.3	81.3	-6.6	289	0.00
	Delhi	4081	0	70.5	62.1	0.1	287	0.00
	UP	17792	0	310.5	87.8	-1.3	270	0.00
	Uttarakhand	2308	0	41.1	29.4	-0.4	132	0.00
	HP	1937	0	33.8	28.9	0.0	131	0.00
	J&K(UT) & Ladakh(UT)	2474	0	51.2	49.9	-3.1	148	0.15
	Chandigarh	243	0	3.6	4.1	-0.5	11	0.00
Railways NR ISTS	192	0	3.7	3.6	0.1	27	0.00	
WR	Chhattisgarh	5727	0	124.3	61.7	-1.5	262	0.00
	Gujarat	20086	0	405.4	134.1	-5.6	582	0.00
	MP	15031	0	289.5	189.1	-5.3	803	0.00
	Maharashtra	28660	0	598.5	194.0	-4.5	801	0.00
	Goa	708	0	14.1	14.4	-0.5	58	0.00
	DNHDDPDCL	1269	0	28.8	28.7	0.1	45	0.00
	AMNSIL	828	0	17.4	7.0	0.6	300	0.00
	BALCO	519	0	12.4	12.5	-0.1	4	0.00
SR	Andhra Pradesh	12542	0	225.8	79.3	-1.1	576	0.00
	Telangana	14694	0	277.4	153.2	1.6	913	0.00
	Karnataka	16204	0	308.6	135.2	1.6	1302	0.00
	Kerala	4650	0	92.5	73.9	1.7	245	0.00
	Tamil Nadu	17127	0	355.0	180.5	-0.4	533	0.00
	Puducherry	433	0	8.9	9.2	-0.3	37	0.00
ER	Bihar	4641	0	85.4	72.9	0.2	220	0.00
	DVC	3209	0	71.1	-44.7	-0.2	513	0.00
	Jharkhand	1582	0	29.8	22.1	-1.7	243	1.09
	Odisha	5174	0	113.4	29.5	-1.8	465	0.00
	West Bengal	7396	0	151.2	21.4	-2.1	248	0.00
	Sikkim	124	0	2.0	2.0	0.0	21	0.00
Railways ER ISTS	23	0	0.2	0.2	0.0	9	0.00	
NER	Arunachal Pradesh	173	0	3.1	2.9	0.2	32	0.00
	Assam	1564	0	28.0	22.6	-0.1	154	0.00
	Manipur	223	0	3.0	3.0	0.0	53	0.07
	Meghalaya	353	0	6.6	5.7	-0.1	287	0.00
	Mizoram	142	0	2.1	1.7	-0.1	29	0.00
	Nagaland	145	0	2.5	2.5	0.0	9	0.00
Tripura	230	0	3.8	3.4	-0.3	23	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.9	-13.2	-21.4	-29.9
Day Peak (MW)	-623.9	-883.6	-1043.0	-1409.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	151.4	-255.2	235.0	-143.0	11.8	0.0
Actual(MU)	133.8	-250.4	263.9	-165.2	12.4	-5.6
O/D/U/D(MU)	-17.7	4.8	28.9	-22.2	0.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8700	9334	5438	3812	838	28122	52
State Sector	9791	9969	3861	1837	219	25676	48
Total	18491	19303	9299	5649	1057	53798	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	617	1522	709	684	8	3540	75
Lignite	26	19	42	0	0	86	2
Hydro	111	32	44	17	8	213	5
Nuclear	31	40	52	0	0	122	3
Gas, Naptha & Diesel	10	20	6	0	25	61	1
RES (Wind, Solar, Biomass & Others)	218	226	231	5	1	682	14
Total	1013	1858	1084	706	42	4704	100

Share of RES in total generation (%)	21.53	12.14	21.33	0.72	2.37	14.50
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.62	16.05	30.27	2.52	21.95	21.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
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	213775	10:23	0
Non-Solar hr	196374	18:54	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: 20-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	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1040	0.0	14.3	-14.3
4	765 kV	SASARAM-FATEHPUR	1	0	537	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	584	0.0	7.9	-7.9
6	400 kV	PUSAULI-VARANASI	1	20	62	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	15	68	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	229	606	0.0	4.0	-4.0
9	400 kV	PATNA-BALIA	2	0	619	0.0	12.8	-12.8
10	400 kV	NAUBATPUR-BALIA	2	0	318	0.0	3.8	-3.8
11	400 kV	BIHARSHARIFF-BALIA	2	233	233	0.0	0.6	-0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	71	382	0.0	5.0	-5.0
13	400 kV	BIHARSHARIFF-VARANASI	2	32	351	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNANA	1	12	125	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>64.5</b>	<b>-64.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	954	131	8.3	0.0	8.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	306	1135	0.0	13.8	-13.8
3	765 kV	JHARSUGUDA-DURG	2	0	645	0.0	12.3	-12.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	736	0.0	13.4	-13.4
5	400 kV	RANCHI-SIPAT	2	33	382	0.0	5.1	-5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	178	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	64	88	0.0	0.3	-0.3
<b>ER-WR</b>						<b>8.3</b>	<b>47.9</b>	<b>-39.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	37.3	-37.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3151	0.0	59.3	-59.3
4	400 kV	TALCHER-I/C	2	698	135	6.9	0.0	6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>111.5</b>	<b>-111.5</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.6	0.4	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	399	109	3.5	0.0	3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	72	17	0.6	0.0	0.6
<b>ER-NER</b>						<b>4.7</b>	<b>0.4</b>	<b>4.3</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-KIRUKSHETRA	2	0	2009	0.0	36.2	-36.2
2	HVDC	VINDHYACHAL B/B	-	219	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1166	0.0	21.8	-21.8
4	765 kV	GWALIOR-AGRA	2	185	2349	0.1	20.6	-20.5
5	765 kV	GWALIOR-PHAGI	2	1277	1608	4.6	15.0	-10.5
6	765 kV	JABALPUR-ORAI	2	352	765	0.0	9.3	-9.3
7	765 kV	GWALIOR-ORAI	1	1021	0	14.1	0.0	14.1
8	765 kV	SATNA-ORAI	1	0	952	0.0	16.8	-16.8
9	765 kV	BANASKANTHA-CHITORGARH	2	572	1213	1.4	7.6	-6.2
10	765 kV	VINDHYACHAL-VARANASI	2	26	1679	0.0	21.3	-21.3
11	400 kV	ZERDA-KANKROLI	1	163	82	1.3	0.3	1.0
12	400 kV	ZERDA -BHINMAL	1	640	129	6.5	0.1	6.4
13	400 kV	VINDHYACHAL -RIHAND	1	494	0	10.2	0.0	10.2
14	400 kV	RAPP-SHUJALPUR	2	861	138	9.2	0.2	9.0
15	220 kV	BHANPURA-RANPUR	1	100	117	0.7	0.6	0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.2	1.6
17	220 kV	MEHGAON-AURAIYA	1	111	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	77	9	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>58.2</b>	<b>150.0</b>	<b>-91.8</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	812	0.0	19.2	-19.2
2	HVDC	RAIGARH-PUGALUR	2	0	5013	0.0	84.2	-84.2
3	765 kV	SOLAPUR-RAICHUR	2	323	1596	0.3	17.5	-17.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3058	0.0	49.1	-49.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2989	0.0	50.0	-50.0
6	400 kV	KOLHAPUR-KUDGI	2	1302	0	17.5	0.0	17.5
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	1.7	0.0	1.7
9	220 kV	XELDEM-AMBEWADI	1	0	120	2.4	0.0	2.4
<b>WR-SR</b>						<b>21.8</b>	<b>220.0</b>	<b>-198.2</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)	-190	78	-105	-2.53
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-254	134	-132	-3.18
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-252	-128	-210	-5.05
	NER	132kV GELEPHU-SALAKATI	-28	0	-17	-0.40
	NER	132kV MOTANGA-RANGIA	23	-3	9	0.21
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-44	-1.06
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-127	0	-86	-2.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-757	-75	-358	-8.59
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-933	-635	-796	-19.10
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1409	-1010	-1247	-29.93
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-110	0	-94	-2.26

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 20-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	11.63	0.00	0.00	0.25	0.00	0.00	11.88	
Nepal	0.23	0.00	9.65	0.00	0.00	0.00	0.00	0.00	9.88	
Bangladesh	19.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.08	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Export	19.31	0.00	21.28	0.00	0.00	0.25	0.00	0.00	40.84	

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.41	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	-11.63	0.00	0.00	-0.25	0.00	0.00	-11.47	
Nepal	-0.23	0.00	-9.65	0.00	0.00	0.00	0.00	0.00	-9.88	
Bangladesh	-19.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.08	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Net	-18.90	0.00	-21.28	0.00	0.00	-0.25	0.00	0.00	-40.43	