



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> 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 24.02.2024.**

महोदय/Dear Sir,

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

धन्यवाद,

Report for previous day

Date of Reporting: 25-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)	53884	62251	50465	21613	2614	190827
Peak Shortage (MW)	400	0	0	268	5	673
Energy Met (MU)	1187	1479	1328	459	49	4502
Hydro Gen (MU)	111	31	62	19	8	232
Wind Gen (MU)	11	62	32	-	-	104
Solar Gen (MU)*	155.07	83.41	121.25	3.22	1.20	364
Energy Shortage (MU)	5.91	3.06	0.00	1.14	0.08	10.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61041	71101	65698	23690	2727	219478
Time Of Maximum Demand Met	11:15	10:26	11:31	18:52	18:31	10:51

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	0.56	7.72	8.27	73.23	18.49

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	9463	0	176.0	88.2	0.3	187	0.00
	Haryana	8388	0	159.3	112.9	0.0	343	0.60
	Rajasthan	17129	0	318.7	95.7	-4.2	153	0.00
	Delhi	3952	0	70.2	59.6	1.9	329	0.00
	UP	17755	0	325.4	60.8	1.3	538	0.00
	Uttarakhand	2264	0	42.3	32.9	0.8	167	0.04
	HP	1990	0	36.3	31.8	0.0	159	0.08
	J&K(UT) & Ladakh(UT)	2610	0	51.6	45.9	1.3	314	5.19
	Chandigarh	217	0	3.6	3.4	0.2	34	0.00
Railways NR ISTS	176	0	3.7	3.5	0.2	31	0.00	
WR	Chhattisgarh	5739	0	124.1	60.3	-0.9	299	0.00
	Gujarat	19550	0	404.0	149.3	-1.5	692	0.00
	MP	14518	0	290.8	184.7	-3.7	580	3.06
	Maharashtra	27635	0	588.7	168.3	-2.4	783	0.00
	Goa	672	0	11.9	13.7	-1.9	33	0.00
	DNHDDPDCL	1251	0	28.9	29.3	-0.4	34	0.00
	AMNSIL	801	0	18.4	8.4	0.3	325	0.00
	BALCO	524	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12938	0	238.0	102.5	2.8	881	0.00
	Telangana	14935	0	289.5	160.5	-0.3	534	0.00
	Karnataka	16411	0	314.0	148.4	1.9	1135	0.00
	Kerala	4329	0	91.4	68.4	1.3	316	0.00
	Tamil Nadu	18161	0	385.1	214.6	0.6	618	0.00
	Puducherry	429	0	9.8	9.3	0.0	48	0.00
ER	Bihar	4589	0	85.0	74.0	-0.8	139	0.00
	DVC	3343	0	71.5	-56.9	0.0	315	0.00
	Jharkhand	1633	0	30.8	21.8	-0.4	342	1.14
	Odisha	5242	0	113.0	32.8	-0.5	306	0.00
	West Bengal	7292	0	156.5	16.0	-2.2	221	0.00
	Sikkim	119	0	1.9	2.1	-0.2	13	0.00
Railways ER ISTS	15	0	0.2	0.2	0.0	12	0.00	
NER	Arunachal Pradesh	167	0	3.1	2.8	0.2	45	0.00
	Assam	1585	0	27.7	21.6	0.3	104	0.00
	Manipur	229	7	3.1	3.1	0.0	39	0.08
	Meghalaya	398	0	6.3	5.4	-0.1	72	0.00
	Mizoram	117	0	2.1	1.7	-0.1	9	0.00
	Nagaland	142	0	2.5	2.3	0.0	10	0.00
Tripura	232	0	4.0	3.5	0.2	35	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.0	-10.4	-21.4	-25.3
Day Peak (MW)	-618.0	-223.9	-1047.0	-1370.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	181.5	-272.5	300.3	-219.0	9.7	0.0
Actual(MU)	170.7	-278.4	331.4	-240.2	11.3	-5.3
O/D/U/D(MU)	-10.9	-5.9	31.1	-21.2	1.6	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8052	9634	5238	3152	738	26813	52
State Sector	7651	9657	5621	1897	219	25044	48
Total	15702	19290	10859	5049	957	51857	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1616	728	759	10	3833	79
Lignite	32	17	46	0	0	95	2
Hydro	111	31	62	19	8	232	5
Nuclear	31	46	52	0	0	129	3
Gas, Naptha & Diesel	9	22	6	0	25	62	1
RES (Wind, Solar, Biomass & Others)	190	148	188	6	1	533	11
Total	1095	1880	1082	784	44	4884	100

Share of RES in total generation (%)	17.35	7.85	17.40	0.73	2.78	10.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.38	11.96	27.95	3.18	20.63	18.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.033

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219478	10:51	1372
Non-Solar hr	199021	18:56	407

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-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	1399	0.0	28.2	-28.2
4	765 kV	SASARAM-FATEHPUR	1	0	724	0.0	14.3	-14.3
5	765 kV	GAYA-BALIA	1	0	720	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	46	28	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	93	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	747	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	2	0	693	0.0	19.3	-19.3
10	400 kV	NAUBATPUR-BALIA	2	0	752	0.0	6.7	-6.7
11	400 kV	BIHARSHARIF-BALIA	2	25	313	0.0	2.1	-2.1
12	400 kV	MOTIHARI-GORAKHPUR	2	0	602	0.0	10.7	-10.7
13	400 kV	BIHARSHARIF-VARANASI	2	0	546	0.0	7.9	-7.9
14	220 kV	SAHUPURI-KARAMNANA	1	0	112	0.0	1.6	-1.6
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-CHANDAUJI	1	0	0	0.0	0.0	0.0
					<b>ER-NR</b>	<b>0.5</b>	<b>112.4</b>	<b>-111.9</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1152	115	10.0	0.0	10.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1616	0.0	26.9	-26.9
3	765 kV	JHARSUGUDA-DURG	2	0	769	0.0	14.8	-14.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	745	0.0	14.0	-14.0
5	400 kV	RANCHI-SIPAT	2	0	561	0.0	9.6	-9.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	48	119	0.0	1.0	-1.0
					<b>ER-WR</b>	<b>10.0</b>	<b>69.3</b>	<b>-59.3</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	657	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2001	0.0	36.5	-36.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3487	0.0	70.3	-70.3
4	400 kV	TALCHER-I/C	2	1088	226	8.3	0.0	8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					<b>ER-SR</b>	<b>0.0</b>	<b>121.7</b>	<b>-121.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.3	0.0	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	573	41	5.1	0.0	5.1
3	220 kV	ALIPURDUAR-SALAKATI	2	95	5	1.0	0.0	1.0
					<b>ER-NER</b>	<b>6.5</b>	<b>0.0</b>	<b>6.5</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	18.6	0.0	18.6
					<b>NER-NR</b>	<b>18.6</b>	<b>0.0</b>	<b>18.6</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1490	0.0	36.1	-36.1
2	HVDC	VINDHYACHAL B/B	-	146	0	4.8	0.0	4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1169	0.0	18.5	-18.5
4	765 kV	GWALIOR-AGRA	2	0	1905	0.0	18.7	-18.7
5	765 kV	GWALIOR-PHAGI	2	175	1915	0.1	22.4	-22.2
6	765 kV	JABALPUR-ORAI	2	14	928	0.0	15.1	-15.1
7	765 kV	GWALIOR-ORAI	1	822	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1090	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1002	240	13.1	0.3	12.7
10	765 kV	VINDHYACHAL-VARANASI	2	398	1441	0.0	6.9	-6.9
11	400 kV	ZERDA-KANKROLI	1	175	81	2.1	0.2	2.0
12	400 kV	ZERDA -BHINMAL	1	644	174	6.1	0.5	5.6
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUALPUR	2	692	215	6.9	0.4	6.6
15	220 kV	BHANPURA-RANPUR	1	70	79	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	128	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	95	5	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>62.7</b>	<b>139.9</b>	<b>-77.2</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	19.4	-19.4
2	HVDC	RAIGARH-PUGALUR	2	0	6531	0.0	108.5	-108.5
3	765 kV	SOLAPUR-RAICHUR	2	0	2621	0.0	31.6	-31.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3250	0.0	55.4	-55.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3392	0.0	60.5	-60.5
6	400 kV	KOLHAPUR-KUDGI	2	1300	0	15.8	0.0	15.8
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	1.7	-1.7
9	220 kV	XELDEM-AMBEWADI	1	0	109	2.1	0.0	2.1
					<b>WR-SR</b>	<b>17.8</b>	<b>277.0</b>	<b>-259.2</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)	-204	72	-103	-2.48
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-249	149	-61	-1.46
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-244	-121	-202	-4.86
	NER	132kV GELEPHU-SALAKATI	-26	0	-20	-0.47
	NER	132kV MOTANGA-RANGIA	35	0	12	0.29
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.58
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-61	-1.47
	ER	NEPAL IMPORT (FROM BIHAR)	144	0	-43	-1.03
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-368	-48	-353	-8.48
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-630	-788	-18.92
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1370	-806	-1055	-25.32
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-104	-2.49

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-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	11.47	0.00	0.00	0.13	0.00	0.00	11.60
Nepal	0.19	0.00	8.87	0.00	0.00	0.00	0.00	0.00	9.06
Bangladesh	18.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.14	0.00	20.34	0.00	0.00	0.13	0.00	0.00	39.61

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	-11.47	0.00	0.00	-0.13	0.00	0.00	-11.20
Nepal	-0.19	0.00	-8.87	0.00	0.00	0.00	0.00	0.00	-9.06
Bangladesh	-18.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.95
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.74	0.00	-20.34	0.00	0.00	-0.13	0.00	0.00	-39.21