



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> January 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 24.01.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-जनवरी-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> January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 25-Jan-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)	58401	62316	48027	20197	2661	191602
Peak Shortage (MW)	2978	443	0	1199	114	4734
Energy Met (MU)	1293	1475	1190	445	48	4451
Hydro Gen (MU)	94	56	63	24	9	246
Wind Gen (MU)	6	40	28	-	-	74
Solar Gen (MU)*	100.45	66.98	116.10	1.62	0.93	286
Energy Shortage (MU)	31.70	2.88	0.00	6.06	2.35	42.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65446	73236	58998	21866	2718	217134
Time Of Maximum Demand Met	12:58	10:20	11:53	18:30	17:42	11:54

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	0.036	0.00	0.37	7.46	7.83	79.61	12.56

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	9162	0	161.1	53.8	1.1	279	0.00
	Haryana	9156	238	162.7	100.6	2.6	283	13.37
	Rajasthan	17027	0	325.1	120.9	0.4	255	14.42
	Delhi	5640	0	92.0	81.8	0.6	365	0.00
	UP	20765	0	391.3	117.9	-1.9	510	0.00
	Uttarakhand	2527	70	47.7	33.1	0.3	238	1.64
	HP	2181	4	39.3	31.4	3.1	472	0.08
	J&K(UT) & Ladakh(UT)	3075	0	64.7	57.8	2.8	551	2.19
	Chandigarh	348	0	5.9	5.0	0.9	123	0.00
Railways NR ISTS	197	0	3.4	3.0	0.4	63	0.00	
WR	Chhattisgarh	4793	0	97.0	45.8	-0.9	221	0.00
	Gujarat	20632	0	409.2	144.2	-0.3	522	0.00
	MP	17346	0	328.0	202.4	1.6	1079	2.88
	Maharashtra	27587	0	569.0	160.3	-2.2	647	0.00
	Goa	657	0	11.5	12.3	-1.3	79	0.00
	DNHDDPDCL	1250	0	28.9	28.9	0.0	35	0.00
	AMNSIL	854	0	19.3	9.6	0.0	251	0.00
BALCO	523	0	12.5	12.4	0.1	14	0.00	
SR	Andhra Pradesh	11933	0	211.9	91.4	0.3	686	0.00
	Telangana	13418	0	255.2	137.2	0.8	921	0.00
	Karnataka	15446	0	290.1	125.5	0.7	833	0.00
	Kerala	4247	0	86.3	66.2	1.1	288	0.00
	Tamil Nadu	16229	0	337.8	180.4	-0.3	486	0.00
	Puducherry	439	0	8.9	9.0	-0.1	46	0.00
ER	Bihar	5284	514	102.7	92.3	-1.2	351	2.20
	DVC	3460	0	70.2	-40.7	-2.0	242	0.00
	Jharkhand	1636	0	30.4	22.5	-0.4	370	3.87
	Odisha	4427	0	91.3	10.8	-1.6	225	0.00
	West Bengal	7023	0	148.2	20.0	-2.7	269	0.00
	Sikkim	124	0	2.0	2.1	-0.1	15	0.00
Railways ER ISTS	6	0	0.1	0.1	-0.1	6	0.00	
NER	Arunachal Pradesh	175	0	2.4	2.7	-0.4	75	0.00
	Assam	1478	167	27.2	20.8	1.3	125	1.60
	Manipur	236	9	3.0	2.8	0.2	38	0.75
	Meghalaya	357	0	6.5	4.7	-0.1	60	0.00
	Mizoram	152	0	2.3	1.6	-0.1	39	0.00
	Nagaland	153	0	2.3	2.2	0.1	23	0.00
Tripura	234	0	4.0	3.4	-0.1	18	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.7	-9.6	-20.6	-29.4
Day Peak (MW)	-598.0	-359.0	-1050.0	-1483.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	293.4	-301.7	163.7	-161.6	6.2	0.0
Actual(MU)	293.5	-319.2	175.6	-166.1	6.6	-9.5
O/D/U/D(MU)	0.2	-17.6	11.9	-4.5	0.4	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8820	9150	4218	4612	651	27451	52
State Sector	6616	9352	6126	2869	281	25243	48
Total	15436	18502	10344	7481	932	52694	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	788	1637	737	678	12	3852	79
Lignite	31	20	58	0	0	109	2
Hydro	94	56	63	24	9	246	5
Nuclear	26	40	65	0	0	132	3
Gas, Naptha & Diesel	18	53	6	0	25	103	2
RES (Wind, Solar, Biomass & Others)	129	112	175	3	1	420	9
Total	1087	1919	1105	706	47	4863	100

Share of RES in total generation (%)	11.86	5.84	15.86	0.48	1.99	8.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	22.95	10.84	27.46	3.91	21.74	16.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.060

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217134	11:54	2592
Non-Solar hr	196963	18:28	4529

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-Jan-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	0	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	0	0.0	15.6	-15.6
4	765 kV	SASARAM-FATEHPUR	1	0	0	0.0	9.5	-9.5
5	765 kV	GAYA-BALIA	1	0	0	0.0	15.1	-15.1
6	400 kV	PUSAULI-VARANASI	1	0	0	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	0	0	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	0	0.0	10.6	-10.6
9	400 kV	PATNA-BALIA	2	0	0	0.0	12.3	-12.3
10	400 kV	NAUBATPUR-BALIA	2	0	0	0.0	12.7	-12.7
11	400 kV	BIHARSHARIFF-BALIA	2	0	0	0.0	6.8	-6.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	0	0.0	10.4	-10.4
13	400 kV	BIHARSHARIFF-VARANASI	2	0	0	0.0	7.6	-7.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	0	0.0	1.9	-1.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.5	0.0	0.5
16	132 kV	GARWAH-RIHAND	1	0	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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>1.0</b>	<b>104.8</b>	<b>-103.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	0	0.0	15.3	-15.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	0	0.0	0.9	-0.9
3	765 kV	JHARSUGUDA-DURG	2	0	0	0.0	15.1	-15.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	0	0.0	11.8	-11.8
5	400 kV	RANCHI-SIPAT	2	0	0	0.0	2.5	-2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	0	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	0	0	0.0	2.2	-2.2
<b>ER-WR</b>						<b>0.0</b>	<b>49.4</b>	<b>-49.4</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	0	0.0	13.2	-13.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	0	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	0	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	0	0	43.2	0.0	43.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>66.5</b>	<b>-66.5</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	0	1.2	0.0	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	0	6.6	0.0	6.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	0	0.9	0.0	0.9
<b>ER-NER</b>						<b>8.7</b>	<b>0.0</b>	<b>8.7</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	661	0	15.7	0.0	15.7
<b>NER-NR</b>						<b>15.7</b>	<b>0.0</b>	<b>15.7</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2998	0.0	48.4	-48.4
2	HVDC	VINDHYACHAL B/B	-	99	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	29.5	-29.5
4	765 kV	GWALIOR-AGRA	2	0	2620	0.0	38.2	-38.2
5	765 kV	GWALIOR-PHAGI	2	0	2118	0.0	35.9	-35.9
6	765 kV	JABALPUR-ORAI	2	0	1255	0.0	34.7	-34.7
7	765 kV	GWALIOR-ORAI	1	1132	0	18.6	0.0	18.6
8	765 kV	SATNA-ORAI	1	0	1130	0.0	21.6	-21.6
9	765 kV	BANASKANTHA-CHITORGARH	2	738	682	8.4	1.5	6.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2936	0.0	40.1	-40.1
11	400 kV	ZERDA-KANKROLI	1	180	152	1.1	0.5	0.6
12	400 kV	ZERDA -BHINMAL	1	440	369	2.3	1.9	0.5
13	400 kV	VINDHYACHAL -RIHAND	1	640	32	10.1	0.0	10.1
14	400 kV	RAPP-SHUJALPUR	2	68	576	0.1	4.4	-4.3
15	220 kV	BHANPURA-RANPUR	1	166	89	1.2	0.2	1.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	91	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	58	26	0.5	0.1	0.4
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>45.6</b>	<b>258.2</b>	<b>-212.6</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	19.6	-19.6
2	HVDC	RAIGARH-PUGALUR	2	0	3505	0.0	52.2	-52.2
3	765 kV	SOLAPUR-RAICHUR	2	441	2190	0.6	20.3	-19.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2811	0.0	40.4	-40.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2803	0.0	41.1	-41.1
6	400 kV	KOLHAPUR-KUDGI	2	1263	67	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	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	116	2.1	0.0	2.1
<b>WR-SR</b>						<b>18.5</b>	<b>173.7</b>	<b>-155.1</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)	-307	-12	-106	-2.55
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-233	208	-1	-0.01
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-239	52	-69	-1.65
	NER	132kV GELEPHU-SALAKATI	-42	-15	-31	-0.73
	NER	132kV MOTANGA-RANGIA	32	1	12	0.28
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.93
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-73	0	-59	-1.41
	ER	NEPAL IMPORT (FROM BIHAR)	113	0	-31	-0.74
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-472	-50	-348	-8.35
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-446	-758	-18.18
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1483	-819	-1226	-29.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-126	0	-100	-2.40

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 25-Jan-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	8.25	0.00	0.00	0.13	0.00	0.00	8.38
Nepal	0.24	0.00	7.53	0.00	0.00	0.14	0.00	0.00	7.91
Bangladesh	18.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.06
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.30	0.00	15.78	0.00	0.00	0.27	0.00	0.00	34.35

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61
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	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.61

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	0.61	0.00	-8.25	0.00	0.00	-0.13	0.00	0.00	-7.77
Nepal	-0.24	0.00	-7.53	0.00	0.00	-0.14	0.00	0.00	-7.91
Bangladesh	-18.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.06
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.69	0.00	-15.78	0.00	0.00	-0.27	0.00	0.00	-33.74