



**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: 30<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 29.01.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-जनवरी-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 29<sup>th</sup> January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 30-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)	58776	62304	47628	21136	2685	192529
Peak Shortage (MW)	80	0	0	1441	128	1649
Energy Met (MU)	1251	1500	1180	461	49	4441
Hydro Gen (MU)	88	61	45	24	9	227
Wind Gen (MU)	3	33	63	-	-	99
Solar Gen (MU)*	103.70	62.89	119.47	6.06	1.05	293
Energy Shortage (MU)	5.79	0.36	0.00	8.14	1.23	15.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66432	74799	59165	22013	2802	222283
Time Of Maximum Demand Met	11:31	10:49	09:42	18:16	17:38	10:56

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	0.031	0.00	0.00	2.00	2.00	76.28	21.72

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	8290	0	150.8	49.7	-1.2	146	0.00
	Haryana	8731	0	157.5	97.2	0.0	240	1.67
	Rajasthan	17851	0	330.9	135.4	-1.0	680	2.84
	Delhi	5122	0	85.4	70.3	-1.4	310	0.00
	UP	19671	0	371.9	108.0	0.3	477	0.00
	Uttarakhand	2486	0	45.8	30.9	0.4	211	0.64
	HP	2070	1	36.8	31.8	0.3	254	0.00
	J&K(UT) & Ladakh(UT)	2939	0	63.4	60.2	-0.4	282	0.64
	Chandigarh	298	0	4.8	4.6	0.2	58	0.00
Railways NR ISTS	179	0	3.5	3.5	0.1	29	0.00	
WR	Chhattisgarh	5138	0	105.4	42.7	-1.1	262	0.00
	Gujarat	21542	0	411.5	147.9	0.8	1790	0.00
	MP	16966	0	327.6	206.2	-2.7	876	0.36
	Maharashtra	28651	0	582.1	165.0	1.6	877	0.00
	Goa	663	0	13.1	12.5	0.2	88	0.00
	DNHDDPDCL	1273	0	29.1	29.0	0.1	37	0.00
	AMNSIL	846	0	18.8	9.4	-0.5	294	0.00
BALCO	523	0	12.5	12.5	0.0	7	0.00	
SR	Andhra Pradesh	12031	0	221.6	90.1	-1.8	456	0.00
	Telangana	13442	0	250.8	123.5	-1.0	679	0.00
	Karnataka	15243	0	282.8	112.5	-3.3	437	0.00
	Kerala	4196	0	82.8	67.2	0.9	243	0.00
	Tamil Nadu	16261	0	333.2	160.8	0.9	881	0.00
	Puducherry	406	0	8.7	8.5	-0.2	27	0.00
ER	Bihar	5000	411	97.1	85.3	-0.7	337	5.13
	DVC	3383	0	72.0	-46.3	-0.1	300	0.00
	Jharkhand	1590	182	30.1	24.9	-0.8	358	3.01
	Odisha	5272	0	109.3	17.7	-1.7	306	0.00
	West Bengal	7341	0	150.2	28.2	-1.2	405	0.00
	Sikkim	123	0	2.0	2.0	0.0	24	0.00
Railways ER ISTS	14	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	177	0	3.2	2.9	0.1	74	0.00
	Assam	1546	0	27.4	23.0	1.1	181	0.99
	Manipur	248	10	3.2	3.0	0.2	57	0.24
	Meghalaya	405	0	6.5	5.0	-0.1	95	0.00
	Mizoram	159	0	2.3	1.6	-0.1	29	0.00
	Nagaland	157	0	2.2	2.2	-0.1	32	0.00
Tripura	235	0	4.1	3.3	0.1	37	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.4	-10.8	-20.9	-28.1
Day Peak (MW)	-636.0	-593.6	-1049.0	-1325.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	274.0	-273.1	131.0	-140.5	8.7	0.0
Actual(MU)	272.8	-274.1	128.2	-143.8	9.8	-7.0
O/D/U/D(MU)	-1.2	-0.9	-2.7	-3.3	1.1	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7821	10027	4038	5792	533	28211	53
State Sector	7071	10349	4315	2847	380	24961	47
Total	14892	20376	8353	8639	912	53172	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	759	1633	742	662	11	3806	79
Lignite	33	15	67	0	0	115	2
Hydro	88	61	45	24	9	227	5
Nuclear	30	40	55	0	0	125	3
Gas, Naptha & Diesel	24	50	6	0	24	103	2
RES (Wind, Solar, Biomass & Others)	130	99	212	8	1	451	9
Total	1064	1898	1127	694	45	4828	100

Share of RES in total generation (%)	12.25	5.22	18.77	1.20	2.35	9.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.41	10.59	27.66	4.66	23.17	16.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
Based on State Max Demands	1.036

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	222283	10:56	1407
Non-Solar hr	198339	18:41	2007

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: 30-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	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	743	0.0	12.2	-12.2
4	765 kV	SASARAM-FATEHPUR	1	0	471	0.0	8.8	-8.8
5	765 kV	GAYA-BALIA	1	0	823	0.0	13.4	-13.4
6	400 kV	PUSAULI-VARANASI	1	0	53	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	5	733	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	733	0.0	8.7	-8.7
9	400 kV	PATNA-BALIA	2	0	498	0.0	10.0	-10.0
10	400 kV	NAUBATPUR-BALIA	2	0	543	0.0	10.5	-10.5
11	400 kV	BIHARSHARIFF-BALIA	2	0	362	0.0	5.0	-5.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	517	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	339	0.0	5.3	-5.3
14	220 kV	SAHUPURI-KARAMNANA	1	16	123	0.0	1.3	-1.3
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-CHANDAULI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.6</b>	<b>85.9</b>	<b>-85.4</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1362	0.0	20.5	-20.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	904	487	0.8	0.0	0.8
3	765 kV	JHARSUGUDA-DURG	2	0	709	0.0	14.1	-14.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	637	0.0	10.5	-10.5
5	400 kV	RANCHI-SIPAT	2	108	238	0.0	2.4	-2.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	2	191	0.0	1.8	-1.8
<b>ER-WR</b>						<b>0.8</b>	<b>51.8</b>	<b>-51.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	504	0.0	11.4	-11.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	3	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2620	0.0	48.3	-48.3
4	400 kV	TALCHER-I/C	2	1912	0	43.5	0.0	43.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>59.7</b>	<b>-59.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	164	83	1.2	0.2	1.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	545	42	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	85	14	1.0	0.0	1.0
<b>ER-NER</b>						<b>7.5</b>	<b>0.2</b>	<b>7.3</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	707	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	2503	0.0	70.5	-70.5
2	HVDC	VINDHYACHAL B/B	-	432	0	8.4	0.0	8.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1263	0.0	22.4	-22.4
4	765 kV	GWALIOR-AGRA	2	0	2504	0.0	33.4	-33.4
5	765 kV	GWALIOR-PHAGI	2	0	2021	0.0	34.2	-34.2
6	765 kV	JABALPUR-ORAI	2	0	1202	0.0	31.1	-31.1
7	765 kV	GWALIOR-ORAI	1	1116	0	18.2	0.0	18.2
8	765 kV	SATNA-ORAI	1	0	1071	0.0	20.7	-20.7
9	765 kV	BANASKANTHA-CHITORGARH	2	983	474	10.4	0.6	9.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	3001	0.0	41.8	-41.8
11	400 kV	ZERDA-KANKROLI	1	158	124	1.0	0.5	0.5
12	400 kV	ZERDA -BHINMAL	1	473	307	2.1	1.6	0.6
13	400 kV	VINDHYACHAL -RIHAND	1	487	0	10.8	0.0	10.8
14	400 kV	RAPP-SHUALPUR	2	239	551	0.4	4.4	-4.0
15	220 kV	BHANPURA-RANPUR	1	109	138	0.6	0.7	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	119	4	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	81	28	0.7	0.0	0.6
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>53.9</b>	<b>263.4</b>	<b>-209.5</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	3008	0.0	54.0	-54.0
3	765 kV	SOLAPUR-RAICHUR	2	1333	1455	6.0	8.9	-2.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2275	0.0	28.5	-28.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2295	0.0	30.0	-30.0
6	400 kV	KOLHAPUR-KUDGI	2	1689	0	21.8	0.0	21.8
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	119	2.1	0.0	2.1
<b>WR-SR</b>						<b>29.9</b>	<b>145.3</b>	<b>-115.4</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)	-233	19	-141	-3.38
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-238	179	-26	-0.61
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-227	-35	-134	-3.21
	NER	132kV GELEPHU-SALAKATI	-28	0	-20	-0.49
	NER	132kV MOTANGA-RANGIA	22	0	6	0.15
NEPAL	NR	NEPAL IMPORT (FROM UP)	-75	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-62	-1.48
	ER	NEPAL IMPORT (FROM BIHAR)	-164	-35	-64	-1.53
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-430	-85	-324	-7.78
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-450	-769	-18.46
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1325	-846	-1170	-28.08
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-122	0	-103	-2.46

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 30-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	9.70	0.00	0.00	0.00	0.00	0.00	9.70
Nepal	0.23	0.00	8.11	0.00	0.00	0.44	0.00	0.00	8.78
Bangladesh	18.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.65	0.00	17.81	0.00	0.00	0.44	0.00	0.00	36.90

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44

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	0.44	0.00	-9.70	0.00	0.00	0.00	0.00	0.00	-9.26
Nepal	-0.23	0.00	-8.11	0.00	0.00	-0.44	0.00	0.00	-8.78
Bangladesh	-18.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.42
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.21	0.00	-17.81	0.00	0.00	-0.44	0.00	0.00	-36.46