



**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: 03<sup>rd</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 02.01.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-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 02<sup>nd</sup> January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 03-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)	57519	58935	45256	19532	2564	183806
Peak Shortage (MW)	146	0	0	779	27	952
Energy Met (MU)	1186	1399	1121	409	46	4162
Hydro Gen (MU)	101	39	58	9	10	216
Wind Gen (MU)	16	42	59	-	-	116
Solar Gen (MU)*	89.64	47.66	100.15	2.46	1.07	241
Energy Shortage (MU)	0.68	0.00	0.00	3.24	0.43	4.35
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60422	72624	57505	20947	2647	209524
Time Of Maximum Demand Met	11:29	10:27	10:57	17:48	17:25	10:58

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	0.045	0.00	1.55	7.39	8.95	78.51	12.54

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	7659	0	148.5	62.7	0.5	163	0.00
	Haryana	8346	0	150.7	91.5	-0.5	173	0.00
	Rajasthan	16318	0	309.1	126.3	-5.0	218	0.00
	Delhi	4881	0	80.1	72.3	-1.3	229	0.00
	UP	19742	0	347.8	113.6	-1.7	900	0.00
	Uttarakhand	2232	0	42.1	31.9	0.4	225	0.41
	HP	1977	0	35.6	29.8	-0.5	130	0.00
	J&K(UT) & Ladakh(UT)	2917	0	64.4	59.7	-0.5	171	0.27
	Chandigarh	274	0	4.7	4.3	0.4	77	0.00
Railways NR ISTS	173	0	3.4	3.5	-0.1	32	0.00	
WR	Chhattisgarh	4734	0	96.3	37.6	-0.7	215	0.00
	Gujarat	19210	0	366.0	151.5	-1.4	522	0.00
	MP	17173	0	316.4	204.8	-3.7	579	0.00
	Maharashtra	26871	0	548.7	186.8	-6.0	1036	0.00
	Goa	688	0	13.5	13.4	-0.4	179	0.00
	DNHDDPDCL	1217	0	27.0	27.3	-0.3	45	0.00
	AMNSIL	839	0	19.1	10.0	-0.4	210	0.00
	BALCO	519	0	12.4	12.5	-0.1	516	0.00
SR	Andhra Pradesh	11078	0	199.6	73.6	-0.9	423	0.00
	Telangana	12698	0	231.2	103.3	0.4	552	0.00
	Karnataka	15005	0	271.1	113.5	1.0	1105	0.00
	Kerala	4263	0	85.2	70.7	0.7	364	0.00
	Tamil Nadu	15925	0	325.5	198.0	2.4	972	0.00
	Puducherry	397	0	8.7	8.1	-0.1	53	0.00
ER	Bihar	4801	0	86.9	78.8	-2.9	177	0.78
	DVC	3333	0	69.2	-47.4	0.0	506	0.00
	Jharkhand	1604	0	30.4	23.5	-2.4	229	2.46
	Odisha	4469	0	88.6	29.6	-1.4	233	0.00
	West Bengal	6664	0	132.0	20.5	-2.7	243	0.00
	Sikkim	115	0	1.8	2.0	-0.2	7	0.00
	Railways ER ISTS	16	0	0.1	0.1	0.0	12	0.00
NER	Arunachal Pradesh	148	0	2.9	2.9	-0.1	44	0.00
	Assam	1524	0	25.8	20.3	0.4	172	0.00
	Manipur	224	0	3.1	3.0	0.1	42	0.24
	Meghalaya	326	0	6.2	5.2	-0.3	57	0.19
	Mizoram	118	0	1.9	1.7	-0.3	12	0.00
	Nagaland	144	0	2.3	2.3	0.0	28	0.00
	Tripura	230	0	3.9	2.8	-0.2	35	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.0	-5.7	-19.6	-15.6
Day Peak (MW)	-656.9	-372.0	-907.0	-763.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.2	-272.6	162.3	-154.7	0.8	0.0
Actual(MU)	256.0	-278.5	177.6	-163.8	-0.1	-8.8
O/D/U/D(MU)	-8.2	-5.9	15.3	-9.1	-1.0	-8.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6454	8384	5088	4331	205	24461	45
State Sector	8456	11132	6695	3354	281	29917	55
Total	14910	19515	11783	7685	486	54378	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	721	1608	638	637	16	3620	79
Lignite	26	18	55	0	0	99	2
Hydro	101	39	58	9	10	216	5
Nuclear	26	53	76	0	0	155	3
Gas, Naptha & Diesel	15	21	7	0	26	68	1
RES (Wind, Solar, Biomass & Others)	129	93	187	4	1	414	9
Total	1017	1834	1020	650	52	4573	100

Share of RES in total generation (%)	12.64	5.09	18.35	0.57	2.05	9.05
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.11	10.12	31.45	2.00	20.47	17.18

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.044

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209524	10:58	591
Non-Solar hr	193012	17:48	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 -> 06:00 to 18:00hrs 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: 03-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1560	0.0	21.3	-21.3
4	765 kV	SASARAM-FATEHPUR	1	0	591	0.0	9.7	-9.7
5	765 kV	GAYA-BALIA	1	0	766	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	54	24	0.3	0.0	0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	103	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	740	0.0	10.9	-10.9
9	400 kV	PATNA-BALIA	2	0	679	0.0	11.4	-11.4
10	400 kV	NAUBATPUR-BALIA	2	0	722	0.0	12.0	-12.0
11	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	3.8	-3.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	524	0.0	9.6	-9.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	559	0.0	8.8	-8.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	124	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.7</b>	<b>99.8</b>	<b>-99.1</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	991	422	3.3	0.0	3.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	647	791	0.0	2.7	-2.7
3	765 kV	JHARSUGUDA-DURG	2	0	1137	0.0	21.9	-21.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	661	0.0	10.6	-10.6
5	400 kV	RANCHI-SIPAT	2	161	278	0.0	1.7	-1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	16	104	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	112	87	0.2	0.0	0.2
<b>ER-WR</b>						<b>3.5</b>	<b>38.0</b>	<b>-34.5</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	19	0.0	0.0	0.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	32.8	-32.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2949	0.0	53.3	-53.3
4	400 kV	TALCHER-I/C	2	627	291	10.4	0.0	10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>86.1</b>	<b>-86.1</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	202	94	1.8	0.1	1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	665	49	7.6	0.0	7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	115	6	1.5	0.0	1.5
<b>ER-NER</b>						<b>10.9</b>	<b>0.1</b>	<b>10.8</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	648	0	11.4	0.0	11.4
<b>NER-NR</b>						<b>11.4</b>	<b>0.0</b>	<b>11.4</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	1	0	0.0	0.0	0.0
2	HVDC	VINDHYACHAL B/B	-	179	0	0.0	0.0	0.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	28.1	-28.1
4	765 kV	GWALIOR-AGRA	2	0	2787	0.0	41.0	-41.0
5	765 kV	GWALIOR-PHAGI	2	0	2384	0.0	40.6	-40.6
6	765 kV	JABALPUR-ORAI	2	0	1359	0.0	39.0	-39.0
7	765 kV	GWALIOR-ORAI	1	1173	0	18.6	0.0	18.6
8	765 kV	SATNA-ORAI	1	0	1279	0.0	24.5	-24.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1270	643	8.9	0.0	8.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	3147	0.0	47.5	-47.5
11	400 kV	ZERDA-KANKROLI	1	146	131	1.2	0.2	1.0
12	400 kV	ZERDA -BHINMAL	1	477	330	2.4	1.0	1.4
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.4	0.0	22.4
14	400 kV	RAPP-SHUALPUR	2	146	717	0.3	5.1	-4.8
15	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
17	220 kV	MEHGAON-AURAIYA	1	96	20	0.9	0.0	0.9
18	220 kV	MALANPUR-AURAIYA	1	74	40	0.4	0.1	0.3
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>55.2</b>	<b>230.6</b>	<b>-175.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	21.3	-21.3
2	HVDC	RAIGARH-PUGALUR	2	0	4009	0.0	60.3	-60.3
3	765 kV	SOLAPUR-RAICHUR	2	683	1764	0.0	6.9	-6.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2546	0.0	34.1	-34.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2756	0.0	35.1	-35.1
6	400 kV	KOLHAPUR-KUDGI	2	1201	0	17.8	0.0	17.8
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	115	2.2	0.0	2.2
<b>WR-SR</b>						<b>20.0</b>	<b>157.6</b>	<b>-137.6</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)	-236	25	-142	-3.40
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-246	227	-75	-1.81
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-240	-75	-177	-4.24
	NER	132kV GELEPHU-SALAKATI	-38	16	-27	-0.64
	NER	132kV MOTANGA-RANGIA	21	-3	3	0.06
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-50	-1.19
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-372	0	-188	-4.51
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-799	-599	-723	-17.36
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-763	-460	-651	-15.63
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-108	0	-93	-2.24

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-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	10.77	0.00	0.00	0.00	0.00	0.00	10.77
Nepal	0.18	0.00	3.79	0.00	0.00	0.99	0.00	0.00	4.96
Bangladesh	17.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.29
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.47	0.00	14.56	0.00	0.00	0.99	0.00	0.00	33.02

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54
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	0.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.54

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	0.54	0.00	-10.77	0.00	0.00	0.00	0.00	0.00	-10.23
Nepal	-0.18	0.00	-3.79	0.00	0.00	-0.99	0.00	0.00	-4.96
Bangladesh	-17.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.29
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-16.93	0.00	-14.56	0.00	0.00	-0.99	0.00	0.00	-32.48