



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: GRID-INDIA/NLDC/SO/Daily PSP Report

दिनांक: 29.01.2025

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 28.01.2025.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 28-जनवरी-2025 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 38(1) of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 28.01.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 29-Jan-2025

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)	59538	67296	47306	22857	2775	199772
Peak Shortage (MW)	0	447	0	0	0	447
Energy Met (MU)	1291	1613	1233	477	51	4665
Hydro Gen (MU)	99	54	96	25	10	282
Wind Gen (MU)	7	24	49	-	-	79
Solar Gen (MU)*	181.75	112.18	139.80	3.39	0.77	438
Energy Shortage (MU)	0.00	1.64	0.00	0.00	0.00	1.64
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68592	79772	62267	23450	2896	234950
Time Of Maximum Demand Met	10:17	10:23	09:11	18:46	17:38	09:50

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	0.047	0.38	1.16	9.49	11.03	77.33	11.64

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	9808	0	173.5	64.5	0.2	366	0.00
	Haryana	8716	0	164.8	110.6	-0.8	522	0.00
	Rajasthan	18572	0	348.7	123.6	0.1	601	0.00
	Delhi	4620	0	79.6	74.1	-1.4	384	0.00
	UP	20028	0	366.9	115.8	-1.0	317	0.00
	Uttarakhand	2481	0	45.3	34.8	0.6	155	0.00
	HP	2126	0	38.3	32.5	-0.8	100	0.00
	J&K(UT) & Ladakh(UT)	3044	0	65.7	63.8	-1.9	758	0.00
	Chandigarh	260	0	4.1	4.3	-0.2	18	0.00
Railways_NR ISTS	197	0	4.2	3.9	0.3	31	0.00	
WR	Chhattisgarh	5819	0	121.8	68.7	0.5	453	0.00
	Gujarat	23929	0	439.3	214.2	-2.1	955	0.00
	MP	18130	0	345.7	216.5	0.3	1045	1.64
	Maharashtra	29726	0	627.7	226.2	0.8	542	0.00
	Goa	707	0	14.1	13.4	0.3	29	0.00
	DNHDDPDCL	1340	0	30.1	30.2	-0.1	44	0.00
	AMNSIL	796	0	16.8	7.5	0.3	274	0.00
	BALCO	532	0	12.7	12.7	0.0	27	0.00
	RIL JAMNAGAR	185	0	4.4	4.5	-0.1	0	0.00
SR	Andhra Pradesh	11877	0	218.2	46.9	-1.0	440	0.00
	Telangana	14827	0	278.5	136.7	-0.7	562	0.00
	Karnataka	16993	0	305.5	100.1	0.0	659	0.00
	Kerala	4359	0	85.1	68.4	0.5	327	0.00
	Tamil Nadu	16664	0	336.5	175.5	0.7	921	0.00
	Puducherry	414	0	9.3	8.5	-0.2	34	0.00
ER	Bihar	5393	0	113.2	88.7	12.0	683	0.00
	DVC	3305	0	69.2	-43.7	-2.4	292	0.00
	Jharkhand	2118	0	39.6	27.0	0.2	235	0.00
	Odisha	4783	0	94.7	37.1	-1.2	369	0.00
	West Bengal	7728	0	158.6	30.5	-1.0	246	0.00
	Sikkim	109	0	1.7	2.0	-0.3	19	0.00
	Railways_ER ISTS	30	0	0.3	0.2	0.1	5	0.00
NER	Arunachal Pradesh	185	0	3.4	3.3	0.0	33	0.00
	Assam	1551	0	28.0	22.5	0.2	41	0.00
	Manipur	243	0	3.6	3.8	-0.2	53	0.00
	Meghalaya	386	0	7.0	5.7	-0.1	62	0.00
	Mizoram	163	0	2.3	2.0	0.0	15	0.00
	Nagaland	166	0	2.5	2.4	0.0	23	0.00
	Tripura	245	0	4.2	2.9	0.1	55	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.6	-9.3	-22.5	-14.8
Day Peak (MW)	-514.0	-543.0	-1018.0	-765.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.8	-177.0	137.1	-188.2	8.3	0.0
Actual(MU)	208.0	-160.7	129.8	-194.8	8.0	-9.6
O/D/U/D(MU)	-11.8	16.3	-7.2	-6.5	-0.3	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3883	7779	4908	2696	968	20234	43
State Sector	6778	12199	4799	3394	170	27339	57
Total	10661	19977	9707	6090	1138	47573	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	796	1625	696	722	15	3854	76
Lignite	25	17	57	0	0	98	2
Hydro	99	54	96	25	10	282	6
Nuclear	32	55	71	0	0	158	3
Gas, Naptha & Diesel	7	12	10	0	22	52	1
RES (Wind, Solar, Biomass & Others)	215	138	239	7	1	600	12
Total	1173	1901	1169	753	48	5044	100

Share of RES in total generation (%)	18.33	7.28	20.42	0.88	1.64	11.89
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.44	13.01	34.69	4.15	21.92	20.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
Based on State Max Demands	1.032

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	234950	9:50	115
Non-Solar hr	207230	18:40	59

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: 29-Jan-2025

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
Import/Export of ER (With NR)									
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	1237	0.0	21.6	-21.6	
4	765 kV	SASARAM-FATEHPUR	1	0	605	0.0	11.4	-11.4	
5	765 kV	GAYA-BALIA	1	0	747	0.0	11.5	-11.5	
6	400 kV	PUSAULI-VARANASI	1	0	84	0.0	1.2	-1.2	
7	400 kV	PUSAULI -ALLAHABAD	1	35	24	0.1	0.0	0.1	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	57	641	0.0	6.7	-6.7	
9	400 kV	PATNA-BALIA	2	0	870	0.0	16.0	-16.0	
10	400 kV	NAUBATPUR-BALIA	2	0	277	0.0	4.8	-4.8	
11	400 kV	BIHARSHARIFF-BALIA	2	109	315	0.0	3.1	-3.1	
12	400 kV	MOTIHARI-GORAKHPUR	2	0	523	0.0	8.7	-8.7	
13	400 kV	BIHARSHARIFF-VARANASI	2	19	417	0.0	0.0	0.0	
14	400 kV	BIHARSHARIFF-SAHUPURI	2	0	0	0.0	6.5	-6.5	
15	220 kV	SAHUPURI-KARAMNUSA	1	1	62	0.0	1.0	-1.0	
16	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0	
17	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6	
18	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
19	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.6	93.7	-93.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	397	663	0.0	3.5	-3.5	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	125	1075	0.0	12.7	-12.7	
3	765 kV	JHARSUGUDA-DURG	2	0	1126	0.0	22.2	-22.2	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	736	0.0	11.9	-11.9	
5	400 kV	RANCHI-SIPAT	2	0	409	0.0	5.4	-5.4	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	108	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	85	88	0.2	0.0	0.2	
						ER-WR	0.2	57.2	-57.0
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	362	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1246	0.0	30.2	-30.2	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2660	0.0	47.3	-47.3	
4	400 kV	TALCHER-I/C	2	169	4	2.0	0.0	2.0	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	86.1	-86.1
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	245	103	2.3	0.2	2.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	412	93	4.5	0.0	4.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	78	12	1.0	0.0	1.0	
						ER-NER	7.9	0.2	7.7
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	662	0	16.2	0.0	16.2	
						NER-NR	16.2	0.0	16.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	4036	0.0	95.5	-95.5	
2	HVDC	VINDHYACHAL B/B	-	0	143	0.0	2.4	-2.4	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	30.9	-30.9	
4	765 kV	GWALIOR-AGRA	2	526	1781	0.6	14.6	-13.9	
5	765 kV	GWALIOR-PHAGI	2	93	1711	0.0	21.8	-21.8	
6	765 kV	JABALPUR-ORAI	2	99	962	0.0	18.3	-18.3	
7	765 kV	GWALIOR-ORAI	1	877	0	16.0	0.0	16.0	
8	765 kV	SATNA-ORAI	1	0	945	0.0	17.0	-17.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	2218	0	24.6	0.0	24.6	
10	765 kV	VINDHYACHAL-VARANASI	2	223	1598	0.0	14.2	-14.2	
11	400 kV	ZERDA-KANKROLI	1	371	1	3.3	0.0	3.3	
12	400 kV	ZERDA -BHINMAL	1	257	0	3.5	0.0	3.5	
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	22.4	0.0	22.4	
14	400 kV	RAPP-SHUJALPUR	2	515	261	4.7	0.8	4.0	
15	400 kV	NEEMUCH-Chittorgarh	2	683	334	5.4	0.8	4.7	
16	220 kV	BHANPURA-RANPUR	1	0	204	0.0	3.4	-3.4	
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2	
18	220 kV	MEHGAON-AURAIYA	1	137	0	1.9	0.0	1.9	
19	220 kV	MALANPUR-AURAIYA	1	100	0	1.2	0.0	1.2	
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
21	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	83.6	221.8	-138.2
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	308	0.0	7.2	-7.2	
2	HVDC	RAIGARH-PUGALUR	2	0	2503	0.0	38.5	-38.5	
3	765 kV	SOLAPUR-RAICHUR	2	1218	948	7.7	4.8	2.9	
4	765 kV	WARDHA-NIZAMABAD	2	178	2133	0.1	28.7	-28.6	
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2260	0.0	32.6	-32.6	
6	400 kV	KOLHAPUR-KUDGI	2	1548	0	23.5	0.0	23.5	
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
8	220 kV	PONDA-AMBEWADI	1	0	87	0.0	1.0	-1.0	
9	220 kV	XELDEM-AMBEWADI	1	0	120	2.3	0.0	2.3	
						WR-SR	33.6	112.8	-79.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	193	-13	67	1.60
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-297	61	-122	-2.92
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-271	-129	-204	-4.90
	NER	132kV GELEPHU-SALAKATI	-20	2	-13	-0.31
	NER	132kV MOTANGA-RANGIA	-25	12	-2	-0.05
NEPAL	NR	NEPAL IMPORT (FROM UP)	-58	0	-42	-1.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-37	-0.88
	ER	NEPAL IMPORT (FROM BIHAR)	-207	15	-115	-2.76
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-338	0	-192	-4.61
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-753	-884	-21.22
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-766	-406	-617	-14.81
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-74	0	-55	-1.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-Jan-2025

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	0.32	6.97	0.00	0.00	0.00	0.34	0.00	0.00	7.63
Nepal	3.55	0.00	4.13	0.00	0.00	0.00	1.09	0.00	0.00	8.77
Bangladesh	22.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.52
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.07	0.32	11.10	0.00	0.00	0.00	1.43	0.00	0.00	38.92

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79
Nepal	0.00	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	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.79

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	0.79	-0.32	-6.97	0.00	0.00	0.00	-0.34	0.00	0.00	-6.84
Nepal	-3.55	0.00	-4.13	0.00	0.00	0.00	-1.09	0.00	0.00	-8.77
Bangladesh	-22.52	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.52
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-25.28	-0.32	-11.10	0.00	0.00	0.00	-1.43	0.00	0.00	-38.13

Table with 13 columns: TIME, FREQUENCY (Hz), DEMAND MET (MW), NUCLEAR (MW), WIND (MW), SOLAR (MW), HYDRO** (MW), GAS (MW), THERMAL (MW), OTHERS* (MW), NET DEMAND MET (MW), TOTAL GENERATION (MW), NET TRANSNATIONAL EXCHANGE (MW). Rows represent 15-minute intervals from 0:00 to 23:45.

*Others include (i) Biomass from Punjab (ii) Some of the state sector IPP & non-conventional generation in SR (small capacity) (iii) Solar generation in Odisha(manually punched). ** Hydro generation is excluding Bhutan hydro. ***Bhutan hydro is accounted for in net transnational exchange.

Disclaimer: 1. The information provided is for general informational purposes only. 2. The data is provided "as is" without any guarantees or warranties. 3. All Data is operational SCADA data telemetered and reporting at NLDC through RLDC/SLDC. 4. Data is subject to errors due to telemetry loss/freeze/garbage value etc. 5. Demand met and RE generation data is incident on transmission system. Resources in distribution system plus behind the meter (BTM) generation excluded. 6. Users are advised to ensure its accuracy, completeness and relevance for their purposes, and, in this respect, GRID-INDIA shall not be responsible for any errors or omissions.