



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: 13.01.2025

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, लापालंग, 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 12.01.2025.

महोदय/Dear Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 12-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 12.01.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 13-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)	56988	61290	41400	21780	2575	184033
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1141	1488	1123	459	48	4260
Hydro Gen (MU)	89	39	79	20	10	237
Wind Gen (MU)	18	105	65	-	-	188
Solar Gen (MU)*	103.34	87.08	107.95	2.80	1.07	302
Energy Shortage (MU)	0.00	0.93	0.00	0.00	0.00	0.93
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58925	75231	57868	23217	2653	214043
Time Of Maximum Demand Met	11:13	10:44	09:26	18:21	17:36	10:44

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	0.049	0.25	1.19	3.90	5.35	69.99	24.66

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	7134	0	138.8	54.0	-2.6	668	0.00
	Haryana	6626	0	130.6	76.5	-2.0	224	0.00
	Rajasthan	16356	0	299.3	96.0	-3.6	428	0.00
	Delhi	5111	0	83.3	81.8	-1.2	453	0.00
	UP	19324	0	339.8	126.7	-0.8	390	0.00
	Uttarakhand	2079	0	40.0	31.6	-0.1	320	0.00
	HP	1925	0	35.0	29.2	-1.2	85	0.00
	J&K(UT) & Ladakh(UT)	3045	0	66.1	65.9	-2.0	1099	0.00
	Chandigarh	238	0	4.3	4.4	-0.1	38	0.00
Railways_NR ISTS	196	0	4.2	3.6	0.6	68	0.00	
WR	Chhattisgarh	5273	0	110.1	59.9	1.7	336	0.00
	Gujarat	22287	0	411.0	185.7	-6.2	482	0.00
	MP	17441	46	319.8	204.0	-3.0	649	0.29
	Maharashtra	28084	0	572.8	202.2	-0.9	936	0.64
	Goa	635	0	13.4	12.6	0.3	41	0.00
	DNHDDPDCL	1267	0	29.6	29.6	0.0	37	0.00
	AMNSIL	721	0	16.4	7.8	0.2	258	0.00
	BALCO	533	0	12.7	12.5	0.2	37	0.00
	RIL JAMNAGAR	110	0	2.6	2.6	0.0	0	0.00
SR	Andhra Pradesh	11240	0	203.6	55.3	-1.0	653	0.00
	Telangana	14181	0	257.9	136.6	-2.3	561	0.00
	Karnataka	15171	0	269.7	89.9	-0.5	549	0.00
	Kerala	3976	0	78.6	60.9	1.2	276	0.00
	Tamil Nadu	14888	0	305.6	181.9	-3.7	833	0.00
	Puducherry	353	0	8.1	7.7	-0.1	29	0.00
ER	Bihar	5398	0	100.7	91.6	-2.7	421	0.00
	DVC	3351	0	71.1	-37.8	-0.9	260	0.00
	Jharkhand	2007	0	38.1	28.8	-0.9	186	0.00
	Odisha	5273	0	104.1	39.6	-1.4	599	0.00
	West Bengal	6771	0	143.1	17.7	-1.6	192	0.00
	Sikkim	99	0	1.6	1.6	0.0	25	0.00
Railways_ER ISTS	15	0	0.2	0.2	0.0	3	0.00	
NER	Arunachal Pradesh	147	0	2.8	3.0	-0.4	24	0.00
	Assam	1443	0	26.7	19.4	0.5	114	0.00
	Manipur	239	0	3.3	4.0	-0.6	34	0.00
	Meghalaya	395	0	6.7	5.7	-0.1	75	0.00
	Mizoram	128	0	2.0	1.7	-0.2	21	0.00
	Nagaland	160	0	2.5	2.4	0.0	46	0.00
Tripura	223	0	4.0	3.3	0.2	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.3	-7.6	-21.8	-15.8
Day Peak (MW)	-358.0	-496.4	-993.0	-767.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.3	-225.5	124.9	-126.5	3.8	0.0
Actual(MU)	221.2	-223.7	123.3	-129.9	2.6	-6.4
O/D/U/D(MU)	-2.1	1.9	-1.6	-3.4	-1.2	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4462	8136	4258	5033	698	22586	41
State Sector	8323	14095	6693	3849	221	33180	59
Total	12785	22230	10951	8882	918	55766	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	708	1522	640	646	14	3530	76
Lignite	27	17	57	0	0	101	2
Hydro	89	39	79	20	10	237	5
Nuclear	32	54	71	0	0	158	3
Gas, Naptha & Diesel	2	11	13	0	25	52	1
RES (Wind, Solar, Biomass & Others)	148	196	208	5	1	558	12
Total	1005	1840	1069	670	51	4634	100

Share of RES in total generation (%)	14.69	10.66	19.45	0.78	2.15	12.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.71	15.76	33.51	3.70	22.04	20.55

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.048

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214043	10:44	46
Non-Solar hr	192090	18:40	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: 13-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	-	2	49	0.0	0.5	-0.5
3	765 kV	GAYA-VARANASI	2	0	803	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	0	530	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	843	0.0	12.3	-12.3
6	400 kV	PUSAULI-VARANASI	1	0	152	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	80	56	0.6	0.0	0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	6	665	0.0	6.3	-6.3
9	400 kV	PATNA-BALIA	2	0	868	0.0	12.7	-12.7
10	400 kV	NAUBATPUR-BALIA	2	0	593	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	0	280	0.0	4.9	-4.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	499	0.0	6.2	-6.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	2	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNUSA	1	0	105	0.0	3.2	-3.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.2	70.3	-69.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	579	550	1.6	0.0	1.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	911	562	1.6	0.0	1.6
3	765 kV	JHARSUGUDA-DURG	2	0	875	0.0	14.6	-14.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	612	0.0	9.6	-9.6
5	400 kV	RANCHI-SIPAT	2	261	219	0.0	0.6	-0.6
6	220 kV	BUDHIPADAR-RAIGARH	1	17	86	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	155	34	1.3	0.0	1.3
ER-WR						4.4	25.8	-21.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	213	0.0	5.1	-5.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1644	0.0	66.1	-66.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2697	0.0	45.5	-45.5
4	400 kV	TALCHER-I/C	2	165	503	0.0	35.7	-35.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	116.7	-116.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	309	19	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	524	0	7.5	0.0	7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	107	0	1.6	0.0	1.6
ER-NER						13.1	0.0	13.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	661	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	2525	0.0	63.2	-63.2
2	HVDC	VINDHYACHAL B/B	-	232	0	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	976	0.0	15.6	-15.6
4	765 kV	GWALIOR-AGRA	2	13	2590	0.0	25.8	-25.8
5	765 kV	GWALIOR-PHAGI	2	266	1608	0.3	18.1	-17.8
6	765 kV	JABALPUR-ORAI	2	0	1225	0.0	23.1	-23.1
7	765 kV	GWALIOR-ORAI	1	753	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	1140	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITTOGARH	2	660	1324	5.5	5.4	0.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	3017	0.0	39.8	-39.8
11	400 kV	ZERDA-KANKROLI	1	189	200	1.8	0.7	1.0
12	400 kV	ZERDA -BHINMAL	1	131	139	1.2	0.5	0.7
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	12.5	0.0	12.5
14	400 kV	RAPP-SHUJALPUR	2	580	363	4.5	1.2	3.4
15	400 kV	NEEMUCH-Chittorgarh	2	658	362	5.1	0.9	4.2
16	220 kV	BHANPURA-RANPUR	1	0	165	0.0	2.8	-2.8
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
18	220 kV	MEHGAON-AURAIYA	1	101	8	1.0	0.0	1.0
19	220 kV	MALANPUR-AURAIYA	1	71	26	0.7	0.1	0.6
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						45.0	218.1	-173.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	510	0.0	11.9	-11.9
2	HVDC	RAIGARH-PUGALUR	2	0	2002	0.0	32.0	-32.0
3	765 kV	SOLAPUR-RAICHUR	2	1269	815	7.2	5.1	2.0
4	765 kV	WARDHA-NIZAMABAD	2	219	2176	0.1	28.2	-28.0
5	765 kV	WARORA-WARANGAL(NEW)	2	70	2197	0.0	29.3	-29.3
6	400 kV	KOLHAPUR-KUDGI	2	1732	0	25.4	0.0	25.4
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	2.1	0.0	2.1
WR-SR						34.8	106.5	-71.7

INTERNATIONAL EXCHANGES					Import(+ve)/Export(-ve) Energy Exchange (MU)		
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	163	-5	70	1.69	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-205	82	-58	-1.39	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-237	-105	-176	-4.23	
	NER	132kV GELEPHU-SALAKATI	-26	0	-18	-0.44	
	NER	132kV MOTANGA-RANGIA	7	-4	2	0.04	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-64	0	-45	-1.07	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-64	0	-40	-0.96	
	ER	NEPAL IMPORT (FROM BIHAR)	-176	-44	-84	-2.02	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-320	-10	-146	-3.50	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-630	-853	-20.48	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-767	-403	-657	-15.77	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-70	0	-53	-1.28	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 13-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	0.30	5.63	0.00	0.00	0.00	0.00	0.00	5.93
Nepal	2.01	0.00	2.34	0.00	0.00	1.51	0.00	0.00	5.86
Bangladesh	21.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.39
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	23.40	0.30	7.97	0.00	0.00	1.51	0.00	0.00	33.18

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15
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	1.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.15

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	1.15	-0.30	-5.63	0.00	0.00	0.00	0.00	0.00	-4.78
Nepal	-2.01	0.00	-2.34	0.00	0.00	-1.51	0.00	0.00	-5.86
Bangladesh	-21.39	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.39
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-22.25	-0.30	-7.97	0.00	0.00	-1.51	0.00	0.00	-32.03

