



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

दिनांक: 23.03.2025

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 22.03.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 22-मार्च-2025 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 22.03.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 23-Mar-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)	55154	69209	51082	22499	2786	200730
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1203	1606	1386	460	52	4707
Hydro Gen (MU)	117	51	89	24	10	291
Wind Gen (MU)	3	81	40	-	-	125
Solar Gen (MU)*	214.21	147.57	123.74	3.34	0.65	490
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.16	0.16
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58499	71865	66862	22738	2910	218033
Time Of Maximum Demand Met	10:14	10:49	11:45	18:47	18:06	10:14

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	0.20	1.00	4.73	5.93	76.33	17.74

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	9280	0	174.0	81.1	-1.0	575	0.00
	Haryana	7680	0	157.9	107.4	-1.2	242	0.00
	Rajasthan	14474	0	287.5	80.9	-4.2	330	0.00
	Delhi	3695	0	76.7	69.0	0.1	231	0.00
	UP	18307	0	364.3	88.4	-1.5	522	0.00
	Uttarakhand	2084	0	41.7	32.8	0.5	147	0.00
	HP	1951	0	35.9	25.6	-0.5	589	0.00
	J&K(UT) & Ladakh(UT)	2841	0	57.0	52.7	-2.5	261	0.00
	Chandigarh	198	0	3.6	3.5	0.1	16	0.00
	Railways NR ISTS	203	0	4.1	3.9	0.2	36	0.00
WR	Chhattisgarh	6018	0	128.2	68.8	-0.1	608	0.00
	Gujarat	23294	0	470.4	185.7	-1.1	818	0.00
	MP	13900	0	269.1	154.1	-3.2	273	0.00
	Maharashtra	28295	0	655.1	263.6	-1.7	667	0.00
	Goa	754	0	16.1	15.7	-0.1	43	0.00
	DNHDDPDCL	1335	0	30.9	30.9	0.0	42	0.00
	AMNSIL	777	0	17.7	10.5	0.2	192	0.00
	BALCO	531	0	12.7	12.7	0.0	154	0.00
	RIL JAMNAGAR	255	0	6.1	6.2	-0.1	0	0.00
	Andhra Pradesh	12811	0	247.5	71.0	0.1	490	0.00
SR	Telangana	15016	0	291.1	154.1	-0.9	1374	0.00
	Karnataka	17552	0	336.6	140.3	-1.2	714	0.00
	Kerala	4508	0	94.0	78.4	-0.9	331	0.00
	Tamil Nadu	19080	0	406.2	279.2	-1.8	769	0.00
	Puducherry	465	0	10.5	10.0	-0.1	35	0.00
ER	Bihar	5283	0	100.7	92.7	1.6	167	0.00
	DVC	3224	0	67.6	-44.5	-1.1	473	0.00
	Jharkhand	1817	0	32.2	21.7	-2.0	207	0.00
	Odisha	4654	0	97.2	15.6	-3.5	516	0.00
	West Bengal	7803	0	161.2	24.7	-2.7	144	0.00
	Sikkim	107	0	1.4	1.6	-0.2	48	0.00
NER	Railways ER ISTS	12	0	0.2	0.2	0.1	3	0.00
	Arunachal Pradesh	173	0	3.1	3.1	0.0	15	0.00
	Assam	1685	0	30.5	24.7	0.2	112	0.00
	Manipur	207	0	2.7	2.7	0.0	52	0.16
	Meghalaya	350	0	6.0	4.8	0.0	71	0.00
	Mizoram	141	0	2.3	1.8	0.0	24	0.00
	Nagaland	127	0	2.3	2.3	0.0	16	0.00
	Tripura	239	0	4.7	4.2	0.2	33	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.8	-11.6	-23.4	-21.8
Day Peak (MW)	-507.0	-747.0	-1001.0	-1356.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	128.3	-233.4	303.6	-211.5	13.0	0.0
Actual(MU)	115.7	-231.4	317.8	-218.5	12.4	-4.0
O/D/U/D(MU)	-12.6	2.0	14.2	-7.0	-0.6	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4613	8714	4848	3043	581	21800	50
State Sector	7239	7881	5936	672	155	21882	50
Total	11852	16595	10784	3715	736	43682	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	773	1587	709	751	10	3830	75
Lignite	28	14	52	0	0	93	2
Hydro	117	51	89	24	10	291	6
Nuclear	16	65	76	0	0	156	3
Gas, Naptha & Diesel	8	25	8	0	24	64	1
RES (Wind, Solar, Biomass & Others)	239	231	203	5	1	679	13
Total	1180	1973	1136	780	44	5113	100

Share of RES in total generation (%)	20.27	11.70	17.91	0.68	1.48	13.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.52	17.57	32.38	3.75	23.99	22.02

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
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	218033	10:14	13
Non-Solar hr	202559	19:21	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: 23-Mar-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	47	0.0	2.5	-2.5	
3	765 kV	GAYA-VARANASI	2	345	1166	0.0	13.5	-13.5	
4	765 kV	SASARAM-FATEHPUR	1	140	681	0.0	10.0	-10.0	
5	765 kV	GAYA-BALIA	1	52	737	0.0	9.0	-9.0	
6	400 kV	PUSAULI-VARANASI	1	0	133	0.0	1.4	-1.4	
7	400 kV	PUSAULI-ALLAHABAD	1	39	76	0.0	0.9	-0.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	553	533	0.0	3.8	-3.8	
9	400 kV	PATNA-BALIA	2	5	954	0.0	15.8	-15.8	
10	400 kV	NAUBATPUR-BALIA	2	28	316	0.0	4.9	-4.9	
11	400 kV	BIHARSARIEF-BALIA	2	425	242	0.0	0.2	-0.2	
12	400 kV	MOTIHARI-GORAKHPUR	2	228	483	0.0	6.0	-6.0	
13	400 kV	BIHARSARIEF-SAHUPURI	2	393	499	0.0	5.3	-5.3	
14	220 kV	SAHUPURI-KARMANASA	1	0	71	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	0.4	0.0	0.4	
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
18	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.4	74.6	-74.2
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1515	695	3.4	0.0	3.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	254	1498	0.0	16.3	-16.3	
3	765 kV	JHARSUGUDA-DURG	2	0	1313	0.0	24.1	-24.1	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	755	0.0	12.9	-12.9	
5	400 kV	RANCHI-SIPAT	2	0	519	0.0	6.5	-6.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	158	0.0	2.4	-2.4	
7	220 kV	BUDHIPADAR-KORBA	2	49	164	0.0	1.0	-1.0	
						ER-WR	3.4	63.2	-59.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	732	0.0	16.2	-16.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1766	0.0	48.1	-48.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3668	0.0	65.0	-65.0	
4	400 kV	TALCHER-UC	2	0	1213	0.0	16.1	-16.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	129.3	-129.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	381	46	3.4	0.1	3.2	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	635	85	5.4	0.0	5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	125	0	1.9	0.0	1.9	
						ER-NER	10.7	0.1	10.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALLAGRA	2	950	0	23.2	0.0	23.2	
						NER-NR	23.2	0.0	23.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1527	0.0	28.4	-28.4	
2	HVDC	VINDHYACHAL B/B	-	49	0	1.3	0.0	1.3	
3	HVDC	MUNDRAL-MOHINDERGARH	2	0	1919	0.0	43.5	-43.5	
4	765 kV	GWALIOR-AGRA	2	492	1482	1.2	11.5	-10.3	
5	765 kV	GWALIOR-PHAGI	2	1002	1500	3.1	16.0	-12.8	
6	765 kV	JABALPUR-ORAI	2	458	717	0.0	7.5	-7.5	
7	765 kV	GWALIOR-ORAI	1	711	0	12.1	0.0	12.1	
8	765 kV	SATNA-ORAI	1	0	1011	0.0	18.0	-18.0	
9	765 kV	BANASKANTHA-CHITORGARH	2	2142	0	24.9	0.0	24.9	
10	765 kV	VINDHYACHAL-VARANASI	2	0	1912	0.0	23.3	-23.3	
11	400 kV	ZERDA-KANKROLI	1	442	0	5.6	0.0	5.6	
12	400 kV	ZERDA-BHINMAL	1	305	0	3.9	0.0	3.9	
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.4	0.0	21.4	
14	400 kV	RAPP-SIHUALPUR	2	693	195	6.4	0.5	6.0	
15	400 kV	NEEMUCH-Chittorgarh	2	613	195	6.1	0.4	5.7	
16	220 kV	BHANPURA-RANPUR	1	0	146	0.0	2.4	-2.4	
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5	
18	220 kV	MEHGAON-AURAIYA	1	112	13	1.1	0.0	1.1	
19	220 kV	MALANPUR-AURAIYA	1	85	24	0.7	0.0	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	87.8	153.1	-65.3
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	24.0	-24.0	
2	HVDC	RAIGARH-PUGALUR	2	0	6016	0.0	108.4	-108.4	
3	765 kV	SOLAPUR-RAICHUR	2	1263	1878	2.1	14.6	-12.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	3517	0.0	49.9	-49.9	
5	765 kV	WARORA-WARANAGAL(NEW)	2	0	3505	0.0	50.4	-50.4	
6	400 kV	KOLHAPUR-RUDGI	2	1271	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	112	0.0	2.2	2.2	
						WR-SR	22.1	247.3	-225.2

INTERNATIONAL EXCHANGES			Import(+ve)/Export(-ve) Energy Exchange (MU)			
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)	375	138	262	6.30
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-316	57	-168	-4.03
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-384	-35	-300	-7.20
	NER	132kV GELEPHU-SALAKATI	8	0	2	0.05
	NER	132kV MOTANGA-RANGIA	10	-2	5	0.12
NEPAL	NR	NEPAL IMPORT (FROM UP)	-65	0	-47	-1.12
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-32	-0.77
	ER	NEPAL IMPORT (FROM BIHAR)	-263	-116	-194	-4.66
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-484	9	-211	-5.07
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-875	-919	-22.05
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1356	-810	-909	-21.81
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-70	0	-58	-1.40

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 23-Mar-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	0.39	5.71	0.00	0.00	0.00	0.02	0.00	0.00	6.12
Nepal	4.78	0.00	3.30	0.00	0.00	0.00	2.10	0.00	0.00	10.18
Bangladesh	22.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.87
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	27.65	0.39	9.01	0.00	0.00	0.00	2.12	0.00	0.00	39.17

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96
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	0.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.96

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	0.96	-0.39	-5.71	0.00	0.00	0.00	-0.02	0.00	0.00	-5.16
Nepal	-4.78	0.00	-3.30	0.00	0.00	0.00	-2.10	0.00	0.00	-10.18
Bangladesh	-22.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.87
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-26.69	-0.39	-9.01	0.00	0.00	0.00	-2.12	0.00	0.00	-38.21

Date of Reporting: 23-Mar-2025

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)												
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) (+ve) Import, (-ve) Export
	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)=(A-C+D)	(J)=(B+C+D+E+H)	(K)	
0:00	50.04	185100	6064	8015	135	8911	2652	160900	2150	176950	188827	-1097
0:15	49.94	185297	6099	8037	136	8323	2719	161917	2091	177124	189322	-1315
0:30	49.99	184614	6083	8075	138	8527	2777	161308	2075	176401	188761	-1370
0:45	49.94	183255	6054	8038	141	8188	2526	160294	2067	175076	187308	-1309
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