



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: 17.03.2025

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 16.03.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 16-मार्च-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 16.03.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 17-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)	51822	66941	48617	24097	2620	194097
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1106	1590	1328	536	47	4607
Hydro Gen (MU)	135	40	80	24	11	290
Wind Gen (MU)	23	87	36	-	-	146
Solar Gen (MU)*	189.69	138.49	141.24	3.28	0.80	474
Energy Shortage (MU)	0.00	0.14	0.00	0.00	0.14	0.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52646	70660	62873	25049	2677	209163
Time Of Maximum Demand Met	10:13	10:47	09:55	19:09	18:15	10:23

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	0.032	0.00	0.42	5.22	5.64	79.44	14.93

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	7281	0	140.0	44.9	-0.1	364	0.00
	Haryana	5769	0	122.4	83.3	0.5	461	0.00
	Rajasthan	14709	0	286.7	90.1	-5.9	393	0.00
	Delhi	3439	0	68.2	66.2	0.3	249	0.00
	UP	18749	0	356.2	81.8	-1.8	469	0.00
	Uttarakhand	1764	0	35.0	25.0	-0.5	102	0.00
	HP	1675	0	29.5	18.8	-1.1	296	0.00
	J&K(UT) & Ladakh(UT)	2962	0	61.4	54.9	-1.2	795	0.00
	Chandigarh	174	0	3.0	3.2	-0.2	11	0.00
	Railways NR ISTS	185	0	4.0	3.9	0.1	18	0.00
	Chhattisgarh	6076	0	140.4	88.3	-0.5	292	0.00
WR	Gujarat	21349	0	435.6	196.5	-0.4	911	0.00
	MP	14014	0	283.3	159.4	-3.9	572	0.14
	Maharashtra	28125	0	648.4	236.6	0.0	764	0.00
	Goa	747	0	16.3	15.4	0.5	72	0.00
	DNHDDPDCL	1267	0	28.9	28.8	0.1	43	0.00
	AMNSIL	774	0	18.0	10.7	0.2	190	0.00
	BALCO	535	0	12.8	12.7	0.1	165	0.00
	RIL JAMNAGAR	250	0	5.9	6.0	-0.1	0	0.00
	Andhra Pradesh	12375	0	240.0	69.6	-1.0	437	0.00
	Telangana	16119	0	320.7	177.9	0.0	1025	0.00
SR	Karnataka	16473	0	326.4	131.1	-1.7	634	0.00
	Kerala	4481	0	92.6	79.5	0.6	444	0.00
	Tamil Nadu	15307	0	338.8	227.1	0.9	1334	0.00
	Puducherry	418	0	9.5	8.9	0.0	31	0.00
	Bihar	4975	0	106.3	100.5	-0.2	115	0.00
ER	DVC	3221	0	69.0	-42.9	0.0	315	0.00
	Jharkhand	2085	0	42.8	30.5	0.3	232	0.00
	Odisha	5369	0	112.8	31.3	-1.9	496	0.00
	West Bengal	9086	0	203.7	65.8	-2.5	188	0.00
	Sikkim	78	0	1.2	1.4	-0.2	15	0.00
	Railways ER ISTS	13	0	0.2	0.2	0.0	5	0.00
NER	Arumachal Pradesh	174	0	3.0	3.4	-0.5	20	0.00
	Assam	1526	0	26.6	19.9	0.5	225	0.00
	Manipur	184	0	2.5	2.7	-0.2	33	0.14
	Meghalaya	317	0	5.7	5.1	-0.2	82	0.00
	Mizoram	90	0	2.0	1.9	-0.2	0	0.00
	Nagaland	157	0	2.2	2.2	-0.1	41	0.00
	Tripura	306	0	5.2	4.9	0.2	36	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.5	-10.3	-24.0	-31.3
Day Peak (MW)	-380.9	-750.0	-1028.0	-1383.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	49.9	-188.5	254.5	-123.7	7.9	0.0
Actual(MU)	38.7	-183.4	259.0	-128.2	6.2	-7.7
OD/UD(MU)	-11.2	5.2	4.5	-4.5	-1.7	-7.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4479	9297	2538	3157	551	20022	45
State Sector	6868	10612	5126	1601	187	24394	55
Total	11347	19909	7664	4758	738	44416	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	741	1574	721	733	10	3778	75
Lignite	21	14	49	0	0	83	2
Hydro	135	40	80	24	11	290	6
Nuclear	21	35	75	0	0	130	3
Gas, Naptha & Diesel	1	12	8	0	24	45	1
RES (Wind, Solar, Biomass & Others)	235	227	218	5	1	685	14
Total	1152	1901	1150	762	45	5012	100

Share of RES in total generation (%)	20.37	11.94	18.97	0.59	1.74	13.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.84	15.86	32.44	3.80	25.19	22.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.064

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	209163	10:23	7
Non-Solar hr	195628	19:09	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: 17-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	PUSALI B/B	-	0	47	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	887	719	0.0	4.2	-4.2
4	765 kV	SASARAM-FATEHPUR	1	256	414	0.0	4.9	-4.9
5	765 kV	GAYA-BALIA	1	116	416	0.0	3.6	-3.6
6	400 kV	PUSALI-VARANASI	1	0	129	0.0	2.0	-2.0
7	400 kV	PUSALI-ALLAHABAD	1	36	58	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	606	341	1.3	0.0	1.3
9	400 kV	PATNA-BALIA	2	266	668	0.0	8.5	-8.5
10	400 kV	NAUBATPUR-BALIA	2	122	209	0.0	2.7	-2.7
11	400 kV	BIHARSHARIEF-BALIA	2	530	42	4.1	0.0	4.1
12	400 kV	MOTIHARI-GORAKHPUR	2	161	384	0.0	4.3	-4.3
13	400 kV	BIHARSARIEF-SAHUPURI	2	0	0	0.0	2.2	-2.2
14	220 kV	SAHUPURI-KARMANASA	1	4	52	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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
					ER-NR	6.1	35.1	-29.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	965	243	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1109	985	0.0	2.2	-2.2
3	765 kV	JHARSUGUDA-DURG	2	0	887	0.0	15.0	-15.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	860	0.0	15.4	-15.4
5	400 kV	RANCHI-SIPAT	2	209	383	0.0	3.2	-3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	41	202	0.0	2.5	-2.5
					ER-WR	6.7	40.6	-33.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	764	0.0	16.7	-16.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1771	0.0	44.7	-44.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2863	0.0	59.8	-59.8
4	400 kV	TALCHER-I/C	2	376	920	0.0	1.1	-1.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	121.1	-121.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	267	64	3.1	0.1	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	411	67	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	110	0	1.8	0.0	1.8
					ER-NER	10.1	0.1	10.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	654	0	15.6	0.0	15.6
					NER-NR	15.6	0.0	15.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1508	0.0	32.9	-32.9
2	HVDC	VINDHYACHAL B/B	-	49	0	1.3	0.0	1.3
3	HVDC	MUNDRAMOHINDERGARH	2	0	1455	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	779	1075	3.0	3.9	-1.0
5	765 kV	GWALIOR-PHAGI	2	1036	1223	4.4	12.8	-8.5
6	765 kV	JABALPUR-ORAI	2	334	505	0.2	0.7	-0.6
7	765 kV	GWALIOR-ORAI	1	705	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	896	0.0	14.7	-14.7
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1662	0	30.9	0.0	30.9
10	765 kV	VINDHYACHAL-VARANASI	2	152	1994	0.0	22.7	-22.7
11	400 kV	ZERDA-KANKROLI	1	366	0	7.0	0.0	7.0
12	400 kV	ZERDA-BHIMAL	1	253	0	4.8	0.0	4.8
13	400 kV	VINDHYACHAL-RIHAND	1	954	0	16.1	0.0	16.1
14	400 kV	RAPP-SHUALPUR	2	635	83	7.0	0.1	6.9
15	400 kV	NEEMUCH-Chittorgarh	2	612	119	6.4	0.2	6.2
16	220 kV	BHANPURA-RANPUR	1	0	149	0.0	2.3	-2.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
18	220 kV	MEHGAON-AURAIYA	1	132	0	1.9	0.0	1.9
19	220 kV	MALANPUR-AURAIYA	1	97	0	1.3	0.0	1.3
20	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
21	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	96.6	128.3	-31.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	979	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	5008	0.0	81.9	-81.9
3	765 kV	SOLAPUR-RAICHUR	2	529	1290	1.4	10.0	-8.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2701	0.0	46.1	-46.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2746	0.0	47.9	-47.9
6	400 kV	KOLHAPUR-KUDGI	2	1374	0	22.0	0.0	22.0
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	73	1.8	0.0	1.8
					WR-SR	25.2	209.9	-184.6

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)	322	146	252	6.05	
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-288	53	-129	-3.09	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-393	-252	-324	-7.79	
	NER	132kV GELEPHU-SALAKATI	7	0	2	0.04	
	NER	132kV MOTANGA-RANGIA	17	1	11	0.26	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-67	0	-35	-0.83	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-43	-1.03	
	ER	NEPAL IMPORT (FROM BIHAR)	-205	-3	-93	-2.23	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-545	-1	-260	-6.23	
	ER	BHERAMARA B/B HVDC (B'DESH)	-946	-889	-930	-22.32	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1384	-1107	-1304	-31.29	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-82	0	-69	-1.66	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 17-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	6.65	0.00	0.00	0.00	0.00	0.00	7.04
Nepal	2.34	0.00	1.50	0.00	0.00	4.50	0.00	0.00	8.34
Bangladesh	23.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.11
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.45	0.39	8.15	0.00	0.00	4.50	0.00	0.00	38.49

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90
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	1.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.90

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	1.90	-0.39	-6.65	0.00	0.00	0.00	0.00	0.00	-5.14
Nepal	-2.34	0.00	-1.50	0.00	0.00	-4.50	0.00	0.00	-8.34
Bangladesh	-23.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.11
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-23.55	-0.39	-8.15	0.00	0.00	-4.50	0.00	0.00	-36.59

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)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-C+D)	(J=B+C+D+E+F+G+H)	(K)
0:00	50.04	184457	4752	8042	174	11113	2147	160827	2272	176241	189327	-1574
0:15	49.89	184995	4804	7894	180	10367	2182	161783	2224	176921	189434	-1386
0:30	49.99	184465	4795	7915	177	10345	2178	161362	2201	176373	188973	-1360
0:45	49.99	183920	4804	7578	178	10200	2186	161155	2177	176164	188278	-1281
1:00	49.99	182805	4810	7415	179	10001	2202	160475	2228	175211	187310	-1315
1:15	49.99	181967	4829	7167	179	9554	2128	160380	2214	174621	186451	-1273
1:30	49.99	181369	4806	7062	181	9623	2136	159616	2213	174126	185637	-1220
1:45	49.94	180209	4812	7019	91	8968	2104	159347	2198	173099	184539	-1236
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