



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: 05.03.2025

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 04.03.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 4-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 04.03.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 05-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)	54614	70934	52980	25345	2714	206587
Peak Shortage (MW)	265	0	0	0	12	277
Energy Met (MU)	1177	1653	1417	527	50	4824
Hydro Gen (MU)	124	59	95	25	10	312
Wind Gen (MU)	42	182	35	-	-	258
Solar Gen (MU)*	213.67	139.62	132.72	4.12	1.26	491
Energy Shortage (MU)	0.39	0.60	0.00	0.07	0.22	1.28
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61078	76070	68797	26256	2867	229569
Time Of Maximum Demand Met	09:34	10:56	09:55	19:01	18:02	09:53

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	0.039	0.00	0.43	2.88	3.31	68.00	28.69

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	7360	0	141.0	66.0	-1.2	560	0.00
	Harvana	7079	0	144.2	92.0	-2.5	260	0.00
	Rajasthan	17124	0	323.8	90.2	-7.1	230	0.00
	Delhi	3888	0	73.2	64.4	0.3	298	0.00
	UP	17917	0	349.2	95.4	-1.0	392	0.00
	Uttarakhand	2074	0	41.6	29.8	0.3	108	0.00
	HP	1900	0	35.3	25.8	0.0	487	0.00
	J&K(UT) & Ladakh(UT)	3030	35	61.2	55.7	0.1	1013	0.39
	Chandigarh	221	0	3.6	3.6	0.0	45	0.00
	Railways_NR ISTS	209	0	4.2	3.8	0.4	42	0.00
WR	Chhattisgarh	6193	0	139.1	76.3	-2.9	234	0.00
	Gujarat	21550	0	440.1	165.3	-3.9	366	0.00
	MP	15868	0	323.1	202.5	-3.5	399	0.60
	Maharashtra	29906	0	666.9	239.1	1.4	704	0.00
	Goa	774	0	16.5	15.8	0.3	160	0.00
	DNHDDPDCL	1335	0	31.1	30.8	0.3	37	0.00
	AMNSIL	854	0	17.4	7.9	-0.5	260	0.00
	BALCO	534	0	12.7	12.7	0.0	29	0.00
	RIL JAMNAGAR	235	0	5.6	5.6	0.0	0	0.00
	Andhra Pradesh	12861	0	249.2	85.5	1.3	707	0.00
SR	Telangana	16687	0	326.3	203.6	0.0	829	0.00
	Karnataka	18365	0	346.3	146.6	3.4	1509	0.00
	Kerala	5121	0	100.6	79.3	1.4	513	0.00
	Tamil Nadu	18006	0	384.9	242.2	-2.8	913	0.00
ER	Puducherry	468	0	10.0	10.2	-0.2	23	0.00
	Bihar	5225	0	99.8	90.5	2.3	278	0.07
	DVC	3411	0	69.7	-42.5	-1.4	246	0.00
	Jharkhand	2069	0	40.7	31.7	-0.3	130	0.00
	Odisha	6122	0	126.1	43.9	-0.1	409	0.00
	West Bengal	8831	0	188.8	48.3	-1.6	388	0.00
	Sikkim	124	0	1.7	1.8	-0.1	22	0.00
	Railways_ER ISTS	13	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	185	0	3.3	3.0	0.1	30	0.00
	Assam	1670	0	29.9	23.3	0.4	127	0.00
	Manipur	179	35	2.8	2.6	0.2	57	0.22
	Meghalava	332	0	5.3	4.2	-0.2	79	0.00
	Mizoram	155	0	2.3	1.8	0.2	25	0.00
	Nagaland	151	0	2.3	2.3	0.0	18	0.00
	Tripura	252	0	4.4	3.9	0.1	46	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.6	-12.5	-23.6	-20.8
Day Peak (MW)	-431.0	-711.8	-1005.0	-1121.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.7	-256.0	318.5	-156.1	9.0	0.0
Actual(MU)	61.7	-269.5	340.9	-152.4	9.7	-9.5
O/D/U/D(MU)	-23.0	-13.5	22.4	3.7	0.8	-9.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5089	8791	3378	3005	1182	21445	44
State Sector	8818	9803	6306	2399	187	27513	56
Total	13907	18594	9684	5404	1369	48958	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	741	1566	723	743	10	3783	73
Lignite	24	12	55	0	0	90	2
Hydro	124	59	95	25	10	312	6
Nuclear	21	62	76	0	0	159	3
Gas, Naptha & Diesel	8	8	5	0	24	45	1
RES (Wind, Solar, Biomass & Others)	278	324	203	7	1	813	16
Total	1196	2031	1157	774	45	5204	100

Share of RES in total generation (%)	23.25	15.96	17.56	0.90	2.82	15.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.38	21.92	32.34	4.06	24.91	24.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.037

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	229569	9:53	25
Non-Solar hr	209891	18:54	125

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.

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 05-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	731	797	0.0	7.0	-7.0
4	765 kV	SASARAM-FATEHPUR	1	224	497	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	168	434	0.0	4.2	-4.2
6	400 kV	PUSAULI-VARANASI	1	0	160	0.0	2.3	-2.3
7	400 kV	PUSAULI-JALAHABAD	1	66	51	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	633	251	1.2	0.0	1.2
9	400 kV	PATNA-BALIA	2	167	728	0.0	12.3	-12.3
10	400 kV	NAUBATPUR-BALIA	2	80	242	0.0	3.6	-3.6
11	400 kV	BIHARSHARIEF-BALIA	2	486	55	2.5	0.0	2.5
12	400 kV	MOTIHARI-GORAKHPUR	2	182	325	0.0	4.4	-4.4
13	400 kV	BIHARSARIEF-SAHUPURI	2	0	0	0.0	2.2	-2.2
14	220 kV	SAHUPURI-KARAMNUSA	1	1	50	0.0	0.1	-0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
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						4.4	45.6	-41.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1110	225	12.5	0.0	12.5
2	765 kV	NEW RANCH-DHARAMJAIGARH	2	381	1176	0.0	13.6	-13.6
3	765 kV	JHARSUGUDA-DURG	2	0	771	0.0	14.3	-14.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	587	0.0	9.5	-9.5
5	400 kV	RANCH-SIPAT	2	99	375	0.0	4.9	-4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	194	48	1.3	0.0	1.3
ER-WR						13.8	43.6	-29.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	694	0.0	16.4	-16.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1812	0.0	45.2	-45.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3168	0.0	60.1	-60.1
4	400 kV	TALCHER-I/C	2	0	142	0.0	14.1	-14.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	121.7	-121.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	176	33	1.8	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	327	21	3.7	0.0	3.7
3	220 kV	ALIPURDUAR-SALAKATI	2	76	1	1.1	0.0	1.1
ER-NER						6.6	0.0	6.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	658	0	16.3	0.0	16.3
NER-NR						16.3	0.0	16.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1984	0.0	32.7	-32.7
2	HVDC	VINDHYACHAL B/B	-	0	55	0.0	3.1	-3.1
3	HVDC	MUNDRAMOHINDERGARH	2	0	1454	0.0	26.1	-26.1
4	765 kV	GWALIOR-AGRA	2	1024	1488	7.1	5.4	1.7
5	765 kV	GWALIOR-PHAGI	2	1602	1144	8.6	9.1	-0.5
6	765 kV	JABALPUR-ORAI	2	671	663	2.2	0.0	2.2
7	765 kV	GWALIOR-ORAI	1	603	0	9.4	0.0	9.4
8	765 kV	SATNA-ORAI	1	0	961	0.0	13.6	-13.6
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1035	927	0.5	0.0	0.5
10	765 kV	VINDHYACHAL-VARANASI	2	481	1743	0.0	12.5	-12.5
11	400 kV	ZERDA-KANKROLI	1	275	125	2.1	0.4	1.6
12	400 kV	ZERDA-BHNMAL	1	191	86	1.4	0.3	1.1
13	400 kV	VINDHYACHAL-BIHAND	1	485	0	10.4	0.0	10.4
14	400 kV	RAPP-SHUALPUR	2	936	174	9.2	0.3	8.9
15	400 kV	NEEMUCH-Chittorgarh	2	1017	151	10.8	0.1	10.6
16	220 kV	BHANPURA-RANPUR	1	0	170	0.0	2.8	-2.8
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.3	-2.3
18	220 kV	MEHGAON-AURAIYA	1	130	0	2.3	0.0	2.3
19	220 kV	MALANPUR-AURAIYA	1	95	0	1.6	0.0	1.6
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						65.5	108.7	-43.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	966	0.0	22.8	-22.8
2	HVDC	RAGARH-PUGALUR	2	0	6019	0.0	109.9	-109.9
3	765 kV	SOLAPUR-RAICHUR	2	770	1988	1.4	25.7	-24.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3530	0.0	56.9	-56.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3411	0.0	55.5	-55.5
6	400 kV	KOLHAPUR-KUDGI	2	1186	114	11.6	0.1	11.5
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	1	121	2.1	2.1	0.0
WR-SR						15.1	270.9	-255.8

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)	197	13	101	2.43	
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-275	64	-110	-2.63	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-249	-104	-183	-4.40	
	NER	132kV GELEPHU-SALAKATI	-19	-8	-15	-0.37	
	NER	132kV MOTANGA-RANGIA	23	5	14	0.34	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-65	0	-45	-1.08	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-40	-0.95	
	ER	NEPAL IMPORT (FROM BIHAR)	-218	-36	-162	-3.88	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-494	-30	-276	-6.62	
	ER	BHERAMARA B/B HVDC (B'DESH)	-942	-844	-931	-22.35	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1121	-804	-867	-20.80	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-63	0	-54	-1.30	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 05-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	6.36	0.00	0.00	0.00	0.00	0.00	6.75
Nepal	3.96	0.00	5.32	0.00	0.00	1.65	0.00	0.00	10.93
Bangladesh	23.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	27.31	0.39	11.68	0.00	0.00	1.65	0.00	0.00	41.03

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68
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	1.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.68

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	1.68	-0.39	-6.36	0.00	0.00	0.00	0.00	0.00	-5.07
Nepal	-3.96	0.00	-5.32	0.00	0.00	-1.65	0.00	0.00	-10.93
Bangladesh	-23.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.35
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-25.63	-0.39	-11.68	0.00	0.00	-1.65	0.00	0.00	-39.35

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+F+G+H)	(K)
0:00	50.04	172986	6214	8552	152	9060	1789	155023	2730	173482	18320	-1826
0:15	49.99	180388	6199	8935	157	8964	1798	155969	2701	171296	18473	-1776
0:30	49.99	179449	6234	9007	162	9106	1786	154883	2697	170280	18365	-1817
0:45	49.99	179007	6191	9104	159	8554	1787	155019	2685	169744	18349	-1796
1:00	50.04	178580	6188	9221	156	8606	1815	154265	2675	169203	18296	-1776
1:15	49.99	177417	6192	9432	150	7990	1907	153747	2655	167955	18193	-1768
1:30	49.99	176733	6176	9651	138	7307	1774	153204	2712	166926	18182	-1792
1:45	49.99	176517	6188	9783	154	7021	1768	153196	2665	166580	18075	-1780
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