

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 02-Apr-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)	53132	64159	52157	26421	2960	198829
Peak Shortage (MW)	0	0	0	184	0	184
Energy Met (MU)	1120	1606	1393	592	58	4769
Hydro Gen (MU)	132	46	73	24	11	287
Wind Gen (MU)	7	92	43	-	-	141
Solar Gen (MU)*	223.16	134.20	137.04	3.68	1.04	499
Energy Shortage (MU)	0.13	0.00	0.00	0.45	0.27	0.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57399	72342	66169	27184	3176	216693
Time Of Maximum Demand Met	19:26	10:51	11:55	22:45	18:18	09:51

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	0.031	0.00	0.00	2.52	2.52	77.13	20.34

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	7420	0	153.9	60.2	-0.1	623	0.00
	Haryana	7063	0	139.4	86.4	-0.7	197	0.00
	Rajasthan	13236	0	257.3	58.9	-3.1	800	0.00
	Delhi	3828	0	78.9	71.7	-1.2	165	0.00
	UP	20744	0	362.0	76.0	-1.5	372	0.00
	Uttarakhand	1910	0	35.9	26.9	-0.4	81	0.00
	HP	1676	0	31.5	17.9	-0.4	753	0.00
	J&K(UT) & Ladakh(UT)	2663	0	53.1	48.5	-2.9	419	0.13
	Chandigarh	200	0	3.7	3.7	0.0	25	0.00
	Railways NR ISTS	213	0	4.3	3.9	0.4	46	0.00
WR	Chhattisgarh	6437	0	150.3	96.3	-0.1	303	0.00
	Gujarat	22641	0	455.5	185.8	-2.5	1060	0.00
	MP	14010	0	276.1	160.8	-2.6	529	0.00
	Maharashtra	29233	0	647.1	251.3	-2.5	773	0.00
	Goa	782	0	17.0	2.3	14.1	52	0.00
	DNHDDPDCL	1182	0	27.5	28.4	-0.9	41	0.00
	AMNSIL	844	0	18.6	9.3	0.3	232	0.00
	BALCO	532	0	12.7	12.7	0.0	33	0.00
	RIL JAMNAGAR	193	0	1.2	0.9	0.3	0	0.00
	Andhra Pradesh	12370	0	241.9	73.5	-0.8	551	0.00
SR	Telangana	14925	0	302.2	169.8	-2.5	654	0.00
	Karnataka	17248	0	334.9	136.4	-1.1	777	0.00
	Kerala	4863	0	98.6	82.8	0.0	249	0.00
	Tamil Nadu	19001	0	405.0	266.4	-1.3	581	0.00
	Puducherry	451	0	9.9	9.5	-0.2	25	0.00
	Bihar	5877	0	122.5	112.3	3.7	255	0.00
ER	DVC	3279	0	68.2	-42.9	-0.2	326	0.00
	Jharkhand	1964	0	39.9	29.8	0.3	366	0.45
	Odisha	5986	0	127.6	53.4	-1.5	442	0.00
	West Bengal	10585	0	232.5	88.5	-1.2	262	0.00
	Sikkim	95	0	1.6	1.4	0.2	50	0.00
	Railways ER ISTS	14	0	0.1	0.2	0.0	7	0.00
NER	Arunachal Pradesh	170	0	3.0	2.9	0.0	33	0.00
	Assam	1914	0	35.1	30.7	0.2	95	0.00
	Manipur	203	0	2.7	2.1	0.7	53	0.27
	Meghalaya	342	0	5.8	4.0	0.1	296	0.00
	Mizoram	133	0	2.1	1.8	-0.1	26	0.00
	Nagaland	158	0	2.6	2.6	0.0	18	0.00
	Tripura	319	0	6.3	4.7	0.4	42	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-2.7	-13.8	-22.7	-22.6
Day Peak (MW)	-128.0	-898.0	-963.0	-1374.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	-4.7	-234.4	280.3	-58.5	17.3	0.0
Actual(MU)	-12.5	-229.6	277.2	-62.2	17.5	-9.6
O/D/U/D(MU)	-7.8	4.8	-3.1	-3.7	0.2	-9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4502	9295	2958	3763	586	21104	47
State Sector	7409	9347	4786	1582	237	23360	53
Total	11911	18641	7744	5345	823	44464	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	770	1580	772	723	10	3855	75
Lignite	29	19	39	0	0	78	2
Hydro	132	46	73	24	11	287	6
Nuclear	31	64	71	0	0	166	3
Gas, Naptha & Diesel	10	38	9	0	21	79	2
RES (Wind, Solar, Biomass & Others)	246	228	212	5	1	692	13
Total	1217	1965	1178	752	44	5157	100

Share of RES in total generation (%)	20.20	11.60	18.03	0.64	2.38	13.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.65	17.17	30.28	3.90	28.72	22.22

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.083

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216693	9:51	32
Non-Solar hr	206621	19:26	184

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: 02-Apr-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/R	-	0	47	0.0	2.4	-2.4	
3	765 kV	GAYA-VARANASI	2	1290	414	3.0	0.0	3.0	
4	765 kV	SASARAM-FATEHPUR	1	447	370	0.0	2.8	-2.8	
5	765 kV	GAYA-BALIA	1	287	431	0.0	2.7	-2.7	
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	2.7	-2.7	
7	400 kV	PUSAULI-LALLAHABAD	1	88	24	0.3	0.0	0.3	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	1016	237	5.4	0.0	5.4	
9	400 kV	PATNA-BALIA	2	464	620	0.0	7.4	-7.4	
10	400 kV	NAUBATPUR-BALIA	2	360	401	0.0	1.7	-1.7	
11	400 kV	BIHARSHARIEF-BALIA	2	728	0	6.4	0.0	6.4	
12	400 kV	MOTIHARI-GORAKHPUR	2	415	354	0.0	1.9	-1.9	
13	400 kV	BIHARSARIEF-SAHUPURI	2	0	0	1.2	0.0	1.2	
14	220 kV	SAHUPURI-KARAMNUSA	1	7	57	0.0	0.2	-0.2	
15	132 kV	NAGAR UNTARI-KIHAND	1	0	0	0.0	0.0	0.0	
16	132 kV	GARWAH-RIHAND	1	0	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	17.0	21.6	-4.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1610	269	21.4	0.0	21.4	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	743	477	2.6	0.0	2.6	
3	765 kV	JHARSUGUDA-DURG	2	0	948	0.0	18.5	-18.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	0	635	0.0	10.0	-10.0	
5	400 kV	RANCHI-SIPAT	2	142	224	0.0	1.5	-1.5	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.9	-1.9	
7	220 kV	BUDHIPADAR-KORBA	2	98	91	0.0	0.2	-0.2	
						ER-WR	24.0	32.1	-8.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZIWAKA B/B	2	0	309	0.0	5.9	-5.9	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1766	0.0	42.3	-42.3	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2948	0.0	57.8	-57.8	
4	400 kV	TALCHER-I/C	2	397	473	1.8	0.0	1.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0	
						ER-SR	0.0	105.9	-105.9
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	349	104	3.2	0.2	3.0	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	524	108	5.4	0.0	5.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	96	6	1.3	0.0	1.3	
						ER-NER	9.9	0.2	9.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHHARIALI-AGRA	2	1434	0	27.1	0.0	27.1	
						NER-NR	27.1	0.0	27.1
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2014	0.0	35.5	-35.5	
2	HVDC	VINDHYACHAL B/R	-	0	56	0.0	1.2	-1.2	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	31.9	-31.9	
4	765 kV	GWALIOR-AGRA	2	1101	1083	6.6	5.9	0.8	
5	765 kV	GWALIOR-PHAGI	2	1709	1117	9.2	0.0	9.2	
6	765 kV	JABALPUR-ORAI	2	845	526	4.5	0.0	4.5	
7	765 kV	GWALIOR-ORAI	1	687	0	10.1	0.0	10.1	
8	765 kV	SATNA-ORAI	1	0	864	0.0	13.6	-13.6	
9	765 kV	BANASKANTHA-CHITTORGARH	2	2435	0	31.8	0.0	31.8	
10	765 kV	VINDHYACHAL-VARANASI	2	0	2219	0.0	32.6	-32.6	
11	400 kV	ZERDA-KANKROLI	1	521	0	6.9	0.0	6.9	
12	400 kV	ZERDA - BHINMAL	1	353	0	4.7	0.0	4.7	
13	400 kV	VINDHYACHAL - RIHAND	1	978	0	19.8	0.0	19.8	
14	400 kV	RAPP-SHUJALPUR	2	1037	0	10.9	0.0	10.9	
15	400 kV	NEEMUCH-Chittoargarh	2	960	124	9.1	0.2	8.9	
16	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.4	-2.4	
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3	
18	220 kV	MEHGAON-AURAIYA	1	93	0	1.3	0.0	1.3	
19	220 kV	MALANPUR-AURAIYA	1	71	0	0.9	0.0	0.9	
20	132 kV	GWALIOR-SAWALMADHOPUR	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	115.8	134.5	-18.7
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/R	-	0	1012	0.0	22.0	-22.0	
2	HVDC	RAIGARH-PUGAULUR	2	0	5514	0.0	110.5	-110.5	
3	765 kV	SOJAPUR-RAICHUR	2	1164	1116	2.4	12.4	-10.0	
4	765 kV	WARDHA-NIZAMABAD	2	0	2780	0.0	46.8	-46.8	
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2915	0.0	49.3	-49.3	
6	400 kV	KOLHAPUR-KUDGI	2	1588	0	17.4	0.0	17.4	
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	2.3	0.0	2.3	
						WR-SR	22.1	240.9	-218.8
INTERNATIONAL EXCHANGES									
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)	371	111	219	5.25			
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-277	38	-125	-2.99			
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-253	-128	-194	-4.66			
	NER	132kV GELEPHU-SALAKATI	-26	0	-13	-0.32			
	NER	132kV MOTANGA-RANGIA	12	8	8	0.20			
NEPAL	NR	NEPAL IMPORT (FROM UP)	-69	0	-49	-1.17			
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-48	-1.16			
	ER	NEPAL IMPORT (FROM BIHAR)	-318	0	-138	-3.31			
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-580	1	-328	-7.86			
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-934	-878	-920	-22.08			
	ER (Isolated from Indian Grid)	400kV GODDA-TPS-RAHANPUR (B'DESH) D/C	-1374	-799	-942	-22.61			
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-29	0	-25	-0.60			

## CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 02-Apr-2025

## Export From India (in MU)

Export From India (in MFC)		T-GNA							TOTAL
Country	GNA (ISGS/PPA)	BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.39	4.05	0.00	0.00	0.00	0.00	0.00	4.44
Nepal	3.32	0.00	5.29	0.00	0.00	2.57	0.00	0.00	11.18
Bangladesh	22.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.83
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.15	0.39	9.34	0.00	0.00	2.57	0.00	0.00	38.45

## Import by India(in MU)

Import by India(in MU)									
Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05
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	1.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.05

## Net from India(in MU)

-ve : Export / +ve : Import

Net from India(In M€)						-ve : Export / +ve : Import			
Country	GNA (ISGS/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.05	-0.39	-4.05	0.00	0.00	0.00	0.00	0.00	-3.39
Nepal	-3.32	0.00	-5.29	0.00	0.00	-2.57	0.00	0.00	-11.18
Bangladesh	-22.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.83
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-25.10	-0.39	-9.34	0.00	0.00	-2.57	0.00	0.00	-37.40

Date of Reporting: 02-Apr-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+F+G+H)	(K)
0:00	50.10	191368	6473	7376	125	13475	3529	161132	2035	183867	194145	-1355
0:15	49.95	190921	6495	7166	124	10284	3372	163780	2022	183631	193243	-1257
0:30	50.00	190222	6468	7099	124	9890	3483	163752	2031	182999	192847	-1387
0:45	50.00	188971	6458	7102	116	9485	3482	163084	1979	181753	191706	-1476
1:00	49.95	188162	6444	7083	112	9270	3484	162336	1993	180967	190722	-1419
1:15	49.95	187224	6432	7133	112	9499	3422	161280	2057	179979	189935	-1446
1:30	50.00	186415	6441	7094	110	9467	3346	160570	1979	179211	189007	-1432
1:45	50.00	185541	6459	7224	108	8766	3284	160857	1961	178209	188659	-1443
2:00	49.95	183858	6459	7266	110	8117	3193	160230	1978	176482	187353	-1463
2:15	50.01	182701	6452	7140	112	8289	3198	158785	1990	175449	185966	-1299
2:30	50.00	181585	6446	7144	113	8511	3198	156918	2026	174328	184356	-1252
2:45	50.00	181869	6421	7168	112	8627	3199	157727	2030	174589	185284	-1230
3:00	50.01	181211	6459	7155	111	8216	3171	157428	1989	173945	184529	-1255
3:15	50.01	181081	6438	7139	110	8475	3244	156970	1983	173832	184359	-1277
3:30	50.06	180148	6454	7104	111	8259	3158	156214	1982	172933	183282	-1281
3:45	50.01	179917	6443	6983	109	8424	3215	156142	2022	172825	183338	-1313
4:00	50.06	179493	6455	6968	109	8392	3159	155931	2005	172416	183019	-1339
4:15	50.00	181270	6462	7069	109	8063	3144	157718	2017	174092	184582	-1171
4:30	50.05	182128	6460	7075	109	7934	3135	158544	2011	174944	185268	-1113
4:45	50.05	183128	6457	7029	111	8093	3123	159394	2007	175988	186214	-1131
5:00	50.11	183501	6476	6988	114	8342	3192	159800	2013	176399	186925	-1155
5:15	50.00	185748	6444	6950	111	8186	3216	161999	2034	178687	188940	-1109
5:30	50.00	188161	6452	6814	108	8558	3077	164300	2035	181239	191344	-1075
5:45	50.05	189287	6445	6764	114	10097	3200	164132	1994	182409	192746	-1105
6:00	50.05	190664	6477	6832	106	10403	3250	164951	1993	183726	194012	-1100
6:15	49.95	193812	6419	6818	138	12237	3123	166462	2048	186856	197245	-1421
6:30	49.95	197338	6467	6730	399	14482	3113	167641	2033	190209	200865	-1356
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7:15	50.10	199456	6533	6747	6361	13815	3227	164135	2148	186348	202966	-1410
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8:45	50.00	209116	6473	5432	36636	9589	3071	148778	2122	167048	211201	-1927
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9:30	50.05	214920	6474	2962	47501	9660	3081	146413	2167	164457	218258	-2045
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11:30	49.95	211350	6471	2352	61014	8756	3250	131019	2177	147984	215039	-2026
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