



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: 14.04.2025

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, शाहीद 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 13.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 13-अप्रैल-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 13.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 14-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 20:00 hrs: from RLDCs)	55994	65734	47657	24616	2803	196804
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1151	1611	1200	513	52	4527
Hydro Gen (MU)	146	24	63	32	9	274
Wind Gen (MU)	14	150	45	-	-	210
Solar Gen (MU)*	206.11	139.49	144.78	3.42	0.91	495
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.06	0.06
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56652	69510	55641	24586	2982	198028
Time Of Maximum Demand Met	19:54	15:46	15:29	22:28	18:32	22:56

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	0.102	0.00	0.02	1.61	1.63	64.39	33.98

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	8303	0	150.4	57.5	-1.7	239	0.00
	Haryana	7714	0	142.8	91.4	-0.1	409	0.00
	Rajasthan	12794	0	271.1	89.3	1.1	598	0.00
	Delhi	4130	0	88.9	82.6	-2.7	127	0.00
	UP	19790	0	363.5	137.2	-4.2	598	0.00
	Uttarakhand	1969	0	40.4	22.0	0.6	200	0.00
	HP	1634	0	30.6	15.5	-0.2	642	0.00
	J&K(UT) & Ladakh(UT)	2729	0	55.1	47.4	-2.0	147	0.00
	Chandigarh	208	0	3.8	3.9	-0.1	17	0.00
	Railways NR ISTS	205	0	4.2	3.9	0.4	37	0.00
WR	Chhattisgarh	6460	0	142.6	82.5	0.9	435	0.00
	Gujarat	22845	0	469.7	174.3	-1.3	706	0.00
	MP	12835	0	275.5	157.3	-3.8	474	0.00
	Maharashtra	28185	0	641.4	230.3	1.4	1549	0.00
	Goa	736	0	15.7	15.0	0.1	61	0.00
	DNHDDPDCL	1258	0	29.2	29.0	0.2	69	0.00
	AMNSIL	862	0	19.1	8.9	0.8	258	0.00
	BALCO	532	0	12.7	12.7	0.0	11	0.00
	RIL JAMNAGAR	198	0	4.7	4.8	-0.1	0	0.00
	Andhra Pradesh	11486	0	223.0	67.5	-0.3	688	0.00
SR	Telangana	11701	0	246.2	117.6	2.2	1441	0.00
	Karnataka	13401	0	271.5	112.2	0.8	797	0.00
	Kerala	4697	0	87.9	74.1	0.2	342	0.00
	Tamil Nadu	16487	0	360.6	236.4	-3.7	1219	0.00
	Puducherry	463	0	10.3	10.0	-0.3	37	0.00
	Bihar	5619	0	99.5	87.1	2.7	506	0.00
ER	DVC	3224	0	69.6	-33.3	0.3	373	0.00
	Jharkhand	1996	0	38.4	28.3	-0.6	296	0.00
	Odisha	5383	0	111.5	26.6	-0.6	386	0.00
	West Bengal	9617	0	193.2	61.4	-1.4	284	0.00
	Sikkim	69	0	1.0	1.1	-0.2	21	0.00
	Railways ER ISTS	16	0	0.2	0.1	0.1	0	0.00
NER	Arunachal Pradesh	169	0	3.0	2.8	0.1	51	0.00
	Assam	1756	0	30.4	23.9	0.3	142	0.00
	Manipur	208	0	2.9	2.7	0.2	46	0.06
	Meghalaya	306	0	5.4	4.6	-0.5	61	0.00
	Mizoram	110	0	2.0	1.7	-0.1	27	0.00
	Nagaland	156	0	2.5	2.5	0.0	25	0.00
	Tripura	313	0	5.8	4.7	0.4	70	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.7	-12.6	-23.0	-16.8
Day Peak (MW)	390.0	-761.5	-975.0	-770.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	109.9	-221.7	224.9	-127.2	14.0	0.0
Actual(MU)	99.6	-184.4	203.1	-140.5	13.9	-8.3
O/D/U/D(MU)	-10.3	37.4	-21.8	-13.4	-0.1	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4018	9358	3418	2478	611	19882	41
State Sector	11869	7717	7026	1409	139	28160	59
Total	15887	17075	10444	3887	750	48042	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	687	1481	654	712	8	3544	72
Lignite	25	14	43	0	0	82	2
Hydro	146	24	63	32	9	274	6
Nuclear	31	65	71	0	0	167	3
Gas, Naptha & Diesel	9	37	10	0	24	80	2
RES (Wind, Solar, Biomass & Others)	233	292	218	5	1	749	15
Total	1131	1912	1060	749	43	4895	100

Share of RES in total generation (%)	20.56	15.27	20.59	0.69	2.18	15.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.24	19.89	33.24	4.93	24.12	24.31

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.113

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.

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	190361	15:20	15
Non-Solar hr	198028	22:56	0

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve)/Export =(-ve) for NET (MU)
Date of Reporting: 14-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/B	-	0	47	0.0	2.5	-2.5
3	765 kV	GAYA-VARANASI	2	636	1225	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	236	682	0.0	6.7	-6.7
5	765 kV	GAYABALIA	1	139	685	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	129	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	36	89	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	544	623	0.0	2.4	-2.4
9	400 kV	PATNA-BALIA	2	195	959	0.0	11.4	-11.4
10	400 kV	NAUBATPUR-BALIA	2	99	567	0.0	3.6	-3.6
11	400 kV	BIHARSARIFF-BALIA	2	457	268	1.7	0.0	1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	157	495	0.0	5.5	-5.5
13	400 kV	BIHARSARIFF-SAHUPURI	2	0	0	0.0	2.5	-2.5
14	220 kV	SAHUPURI-KARAMNASA	1	7	63	0.0	0.5	-0.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARMATI-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						2.3	54.7	-52.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1019	956	0.0	4.3	-4.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	490	1921	0.0	1.5	-1.5
3	765 kV	JHARSUGUDA-DURG	2	0	800	0.0	11.6	-11.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	870	0.0	14.0	-14.0
5	400 kV	RANCHISIPAT	2	34	400	0.0	3.4	-3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	7	158	0.0	2.4	-2.4
7	220 kV	BUDHIPADAR-KORBA	2	102	130	0.0	0.8	-0.8
ER-WR						0.0	38.0	-38.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	114	0.0	2.7	-2.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1775	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2875	0.0	49.4	-49.4
4	400 kV	TALCHER-D/C	2	0	981	0.0	9.2	-9.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	100.2	-100.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	331	0	3.2	0.0	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	532	54	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	106	0	1.2	0.0	1.2
ER-NER						8.7	0.0	8.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	950	0	23.0	0.0	23.0
NER-NR						23.0	0.0	23.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	995	0.0	23.8	-23.8
2	HVDC	VINDHYACHAL B/B	-	48	0	1.3	0.0	-1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	36.4	-36.4
4	765 kV	GWALIOR-AGRA	2	859	1608	4.2	15.4	-11.1
5	765 kV	GWALIOR-PHAGI	2	1625	1331	9.8	14.4	-4.6
6	765 kV	JABALPUR-ORAI	2	697	871	0.0	10.0	-10.0
7	765 kV	GWALIOR-ORAI	1	884	0	0.0	13.0	-13.0
8	765 kV	SATNA-ORAI	1	55	1163	0.0	17.6	-17.6
9	765 kV	BANASKANTHA-CHITTORGARH	2	1204	236	9.4	0.2	9.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2125	0.0	27.5	-27.5
11	400 kV	ZERDA-KANKROLI	1	277	59	3.0	0.0	3.0
12	400 kV	ZERDA-BHUNAI	1	191	51	2.1	0.0	2.1
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	19.3	0.0	19.3
14	400 kV	RAPP-SHUJALPUR	2	866	343	6.5	1.7	4.9
15	400 kV	NEEMUCH-Chittoargarh	2	851	376	6.1	2.0	4.1
16	220 kV	BHANUPURA-RANPUR	1	0	140	0.0	2.5	-2.6
17	220 kV	BHANUPURA-MORAK	1	0	30	0.0	2.2	-2.2
18	220 kV	MEHGAON-ATRAIYA	1	70	20	0.9	0.0	0.8
19	220 kV	MALANPUR-ATRAIYA	1	57	18	0.6	0.0	0.6
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						76.0	153.7	-77.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGAUR	2	0	4508	0.0	93.1	-93.1
3	765 kV	SOLAPUR-RAICHUR	2	1148	1216	8.1	3.7	4.5
4	765 kV	WARDHANANIZAMABAD	2	0	2529	0.0	28.7	-28.7
5	765 kV	WARDHANANIZAMABAD (NEW)	2	0	2564	0.0	30.4	-30.4
6	400 kV	KOLHAPUR-KUDGI	2	1563	0	25.0	0.0	25.0
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	NELDEM-AMBEWADI	1	0	112	0.0	2.2	-2.2
WR-SR						35.3	179.8	-144.5

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)	496	63	307	7.37	
	ER	400kV TAL-A-BINAGURI 1,2,3 (& 400kV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TAL-A HEP 6*170MW)	-250	36	-70	-1.68	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-287	-153	-206	-4.94	
	NER	132kV GELEPHU-SALAKATI	-23	7	-10	-0.25	
	NER	132kV MOTANGA-RANGIA	20	-2	9	0.20	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-45	-1.08	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-45	-1.07	
	ER	NEPAL IMPORT (FROM BIHAR)	-277	-47	-144	-3.45	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-485	12	-292	-7.01	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-878	-920	-22.09	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-770	-510	-698	-16.76	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-46	0	-38	-0.92	

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	4.46	0.00	0.00	0.00	0.00	0.00	4.85
Nepal	3.79	0.00	0.00	0.00	0.00	7.13	0.00	0.00	10.92
Bangladesh	22.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.89
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.68	0.39	4.46	0.00	0.00	7.13	0.00	0.00	38.66

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	5.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.16
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	5.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.16

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	5.16	-0.39	-4.46	0.00	0.00	0.00	0.00	0.00	0.31
Nepal	-3.79	0.00	0.00	0.00	0.00	-7.13	0.00	0.00	-10.92
Bangladesh	-22.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.89
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.52	-0.39	-4.46	0.00	0.00	-7.13	0.00	0.00	-33.50

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)												Date of Reporting: 14-Apr-2025
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) (+ve) Import, (-ve)
0:00	50.08	197904	6529	11411	381	15306	2155	161192	2170	186112	200144	-1494
0:15	50.03	197371	6521	11436	371	14714	3041	161484	2120	185564	199687	-1535
0:30	50.03	196027	6516	11431	383	14506	2965	160789	2065	184213	198655	-1548
0:45	49.97	194624	6509	11382	389	13829	2910	159939	2072	182853	197030	-1548
1:00	50.03	192784	6532	11509	402	12981	2911	159085	2063	180873	195483	-1512
1:15	50.03	190726	6520	11426	398	11515	2888	158650	2035	178902	193432	-1488
1:30	50.03	189536	6492	11406	419	11396	2847	157435	2076	177711	192071	-1468
1:45	50.03	188192	6513	11367	414	10874	2851	156804	2078	176411	190901	-1453
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