



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: 25.04.2025

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 24.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 24-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 24.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 25-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)	67009	71713	54820	29200	3164	225906
Peak Shortage (MW)	298	1006	50	179	0	1533
Energy Met (MU)	1444	1740	1342	655	56	5237
Hydro Gen (MU)	202	46	83	36	19	386
Wind Gen (MU)	26	114	62	-	-	201
Solar Gen (MU)*	222.47	160.20	142.42	3.91	1.10	530
Energy Shortage (MU)	2.31	9.84	0.30	1.54	0.00	13.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68394	79996	64086	31362	3171	233319
Time Of Maximum Demand Met	21:39	15:38	15:16	23:08	18:57	15:31

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	0.042	0.00	0.84	6.57	7.42	73.81	18.77

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	10377	0	192.8	82.3	-2.9	412	0.00
	Haryana	9504	163	197.0	134.9	-0.1	259	0.86
	Rajasthan	14606	0	308.3	90.1	-3.8	745	0.00
	Delhi	5676	0	114.8	93.7	-3.4	119	0.00
	UP	24587	46	483.5	151.5	-1.9	373	0.34
	Uttarakhand	2306	0	47.7	25.9	0.2	195	1.11
	HP	1692	0	34.9	13.7	-0.9	404	0.00
	J&K(UT) & Ladakh(UT)	2640	0	54.8	40.9	-1.0	270	0.00
	Chandigarh	288	0	5.8	5.8	-0.1	37	0.00
WR	Railways_NR ISTS	194	0	4.1	3.7	0.5	62	0.00
	Chhattisgarh	6685	0	150.0	92.7	1.6	555	4.26
	Gujarat	25930	0	511.9	172.4	-2.1	874	0.00
	MP	14183	0	307.0	186.7	-2.2	613	1.64
	Maharashtra	30400	888	689.0	250.0	1.2	1018	3.94
	Goa	821	0	18.0	17.1	0.3	144	0.00
	DNHDDPDCL	1358	0	31.6	31.7	-0.1	88	0.00
	AMNSIL	816	0	18.0	7.9	-0.3	276	0.00
	BALCO	532	0	12.7	12.7	0.0	100	0.00
SR	RIL JAMNAGAR	160	0	1.8	1.8	0.0	0	0.00
	Andhra Pradesh	12873	0	250.2	79.4	-0.7	821	0.00
	Telangana	12056	0	244.3	97.3	0.6	753	0.00
	Karnataka	15206	0	302.6	100.0	0.8	1082	0.00
	Kerala	5139	0	100.8	76.8	-0.3	421	0.00
	Tamil Nadu	20148	0	433.5	260.2	0.2	854	0.00
	Puducherry	502	0	10.8	10.8	-0.1	41	0.30
ER	Bihar	7054	0	140.8	133.5	-3.4	365	0.77
	DVC	3317	0	72.2	-35.8	0.0	400	0.00
	Jharkhand	2090	0	46.8	38.5	0.5	253	0.77
	Odisha	6642	0	137.7	51.5	-1.3	441	0.00
	West Bengal	12386	0	256.6	117.3	-1.3	391	0.00
	Sikkim	93	0	1.3	1.0	0.4	50	0.00
	Railways_ER ISTS	17	0	0.2	0.2	0.0	8	0.00
NER	Arunachal Pradesh	146	0	2.7	2.9	-0.3	41	0.00
	Assam	1962	0	35.3	28.8	-0.1	148	0.00
	Manipur	230	0	2.4	2.8	-0.4	40	0.00
	Meghalaya	314	0	5.0	1.4	0.0	71	0.00
	Mizoram	131	0	2.1	2.0	-0.3	11	0.00
	Nagaland	174	0	2.3	2.5	-0.2	26	0.00
	Tripura	318	0	6.0	4.7	0.5	70	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.6	-12.1	-22.8	-32.6
Day Peak (MW)	190.0	-932.5	-987.0	-1375.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	111.5	-280.2	198.5	-32.1	2.3	0.0
Actual(MU)	83.7	-267.1	196.5	-21.4	1.7	-6.6
O/D/U/D(MU)	-27.8	13.1	-2.0	10.8	-0.7	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2143	6271	3852	2276	761	15303	44
State Sector	5189	7941	4256	1934	169	19489	56
Total	7332	14212	8108	4210	930	34792	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	883	1668	762	736	14	4064	72
Lignite	24	14	37	0	0	75	1
Hydro	202	46	83	36	19	386	7
Nuclear	34	50	71	0	0	154	3
Gas, Naptha & Diesel	59	93	17	0	24	192	3
RES (Wind, Solar, Biomass & Others)	255	276	245	5	1	781	14
Total	1456	2147	1214	777	59	5653	100

Share of RES in total generation (%)	17.51	12.84	20.17	0.62	1.87	13.82
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.66	17.31	32.86	5.22	34.67	23.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.058
Based on State Max Demands	1.086

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	233319	15:31	0
Non-Solar hr	227645	22:30	2616

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: 25-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	2.4	-2.4
3	765 kV	GAYA-VARANASI	2	1246	638	4.3	0.0	4.3
4	765 kV	SASARAM-FATEHPUR	1	481	277	1.4	0.0	1.4
5	765 kV	GAYA-BALIA	1	302	483	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	1	0	193	0.0	2.6	-2.6
7	400 kV	PUSAULI -ALLAHABAD	1	102	55	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	937	357	4.6	0.0	4.6
9	400 kV	PATNA-BALIA	2	570	691	0.0	4.8	-4.8
10	400 kV	NAUBATPUR-BALIA	2	434	271	0.5	0.0	0.5
11	400 kV	BIHARSHARIFF-BALIA	2	735	33	7.4	0.0	7.4
12	400 kV	MOTIHARI-GORAKHPUR	2	417	373	0.0	1.4	-1.4
13	400 kV	BIHARSARIFF-SAHUPURI	2	278	112	0.6	0.0	0.6
14	220 kV	SAHUPURI-KARAMNASA	1	22	37	1.3	0.0	1.3
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	0	0	0.0	0.0	0.0
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						20.3	16.1	4.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1388	466	8.7	0.0	8.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1355	272	19.0	0.0	19.0
3	765 kV	JHARSUGUDA-DURG	2	0	1011	0.0	16.5	-16.5
4	400 kV	JHARSUGUDA-RAIGARH	4	0	731	0.0	10.4	-10.4
5	400 kV	RANCHI-SIPAT	2	295	173	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	23	110	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	121	142	0.0	0.4	-0.4
ER-WR						29.3	28.6	0.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	214	0	4.8	0.0	4.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1764	0.0	44.1	-44.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3225	0.0	52.5	-52.5
4	400 kV	TALCHER-I/C	2	397	600	0.0	1.7	-1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.8	96.6	-91.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	532	0	7.3	0.0	7.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	798	0	11.2	0.0	11.2
3	220 kV	ALIPURDUAR-SALAKATI	2	161	0	2.3	0.0	2.3
ER-NER						20.7	0.0	20.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	949	0	22.3	0.0	22.3
NER-NR						22.3	0.0	22.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	47.2	-47.2
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	33.6	-33.6
4	765 kV	GWALIOR-AGRA	2	1308	1658	4.3	17.5	-13.2
5	765 kV	GWALIOR-PHAGI	2	1309	1145	4.4	11.9	-7.5
6	765 kV	JABALPUR-ORAI	2	601	761	0.0	10.9	-10.9
7	765 kV	GWALIOR-ORAI	1	655	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	962	0.0	16.6	-16.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1714	932	10.9	5.0	6.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2720	0.0	47.1	-47.1
11	400 kV	ZERDA-KANKROLI	1	444	137	3.4	0.4	3.0
12	400 kV	ZERDA -BHINMAL	1	307	95	2.4	0.3	2.1
13	400 kV	VINDHYACHAL -RIHAND	1	973	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUJALPUR	2	800	135	6.2	0.4	5.8
15	400 kV	NEEMUCH-Chittorgarh	2	1026	228	9.1	0.6	8.4
16	220 kV	BHANPURA-RANPUR	1	0	140	0.0	2.2	-2.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
18	220 kV	MEHGAON-AURAIYA	1	111	0	1.8	0.0	1.8
19	220 kV	MALANPUR-AURAIYA	1	92	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	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						78.7	195.3	-116.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	13.2	-13.2
2	HVDC	RAIGARH-PUGALUR	2	0	5010	0.0	88.8	-88.8
3	765 kV	SOLAPUR-RAICHUR	2	659	1526	3.0	5.4	-2.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2679	0.0	29.1	-29.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3144	0.0	37.5	-37.5
6	400 kV	KOLHAPUR-KUDGI	2	1235	0	19.2	0.0	19.2
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	125	2.5	0.0	2.5
WR-SR						24.7	173.9	-149.3

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)	398	167	305	7.33	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-129	76	-44	-1.07	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-204	-113	-153	-3.66	
	NER	132kV GELEPHU-SALAKATI	-25	-2	-13	-0.30	
	NER	132kV MOTANGA-RANGIA	28	6	11	0.27	
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.10	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.19	
	ER	NEPAL IMPORT (FROM BIHAR)	-244	0	-96	-2.30	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-614	-12	-313	-7.52	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-817	-910	-21.84	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1376	-1248	-1357	-32.57	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-46	0	-39	-0.94	

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	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.40
Nepal	2.55	0.00	3.76	0.00	0.00	3.41	0.00	0.00	9.72
Bangladesh	22.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.63
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.18	0.40	3.76	0.00	0.00	3.41	0.00	0.00	32.75

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79
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	2.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.79

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	2.79	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	2.39
Nepal	-2.55	0.00	-3.76	0.00	0.00	-3.41	0.00	0.00	-9.72
Bangladesh	-22.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.63
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-22.39	-0.40	-3.76	0.00	0.00	-3.41	0.00	0.00	-29.96

Date of Reporting: 25-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 GENERATIO N (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	50.09	220038	5756	10873	229	20308	9795	173534	1979	208936	222474	-966
0:15	50.04	219957	5759	11214	224	20081	9155	174002	1968	208519	222403	-918
0:30	50.09	217930	5806	11445	227	19319	8690	173087	1960	206258	220534	-946
0:45	50.09	216950	5774	11592	209	19030	8383	172719	1982	205149	219689	-978
1:00	50.09	215723	5754	11501	201	18351	7988	172480	1950	204021	218225	-1009
1:15	50.04	214660	5765	11443	198	17387	8023	172380	1978	203019	217174	-933
1:30	50.04	212697	5748	11621	203	16257	7757	171873	1983	200873	215442	-986
1:45	50.04	211965	5713	11569	198	15837	7632	171628	1987	200198	214564	-988
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5:30	50.04	206277	5776	9941	99	15667	6305	169263	1985	196237	209036	-992
5:45	49.99	206382	5795	9933	109	15739	6337	169382	2033	196340	209328	-1017
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6:30	50.04	209204	5826	9555	1948	16576	6393	170461	1973	197701	212732	-1445
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