



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: 23.04.2025

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, 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, 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 22.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 22-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 22.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

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



Report for previous day

Date of Reporting: 23-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)	66003	69620	53570	28995	2898	221086
Peak Shortage (MW)	156	1353	50	209	0	1768
Energy Met (MU)	1434	1725	1309	651	54	5174
Hydro Gen (MU)	196	65	90	32	12	397
Wind Gen (MU)	15	85	32	-	-	132
Solar Gen (MU)*	227.50	153.53	136.42	4.11	0.42	522
Energy Shortage (MU)	5.09	15.84	0.42	2.51	0.00	23.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67618	79256	62182	30468	2975	227765
Time Of Maximum Demand Met	22:11	15:49	15:31	23:29	18:42	15:36

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	0.064	0.37	2.33	6.94	9.64	71.48	18.88

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	9273	0	178.1	66.6	0.2	509	0.00
	Haryana	9296	0	191.6	133.1	-0.3	371	2.81
	Rajasthan	14229	0	305.2	85.7	-2.3	267	0.00
	Delhi	5478	0	113.9	93.2	-2.7	420	0.00
	UP	24931	0	498.1	150.6	-0.5	469	0.00
	Uttarakhand	2325	80	47.8	29.2	0.4	288	2.13
	HP	1691	0	33.9	14.3	0.1	501	0.00
	J&K(UT) & Ladakh(UT)	2629	0	55.3	36.5	-2.1	118	0.15
	Chandigarh	302	0	5.9	5.9	0.0	22	0.00
	Railways NR ISTS	199	0	4.4	3.3	1.1	96	0.00
WR	Chhattisgarh	6495	0	142.8	90.6	1.9	763	9.86
	Gujarat	25439	0	505.3	190.9	-9.0	467	0.00
	MP	14239	0	311.7	180.7	0.4	610	2.55
	Maharashtra	30659	0	684.1	254.2	4.1	887	3.36
	Goa	784	25	17.1	16.5	0.1	110	0.08
	DNHDDPDCL	1358	0	31.1	30.7	0.4	56	0.00
	AMNSIL	827	0	18.2	6.8	0.5	297	0.00
	BALCO	534	0	12.7	12.7	0.1	23	0.00
	RIL JAMNAGAR	160	0	1.9	1.8	0.1	0	0.00
	Andhra Pradesh	12514	0	246.4	74.5	0.1	476	0.00
SR	Telangana	11789	0	238.9	94.1	0.7	483	0.00
	Karnataka	14104	0	287.3	101.4	-3.4	1167	0.00
	Kerala	5040	0	102.9	72.1	0.8	525	0.12
	Tamil Nadu	19661	0	423.1	267.1	1.8	866	0.00
	Puducherry	484	50	10.8	10.5	0.2	59	0.30
ER	Bihar	7285	0	149.3	138.4	0.5	782	2.39
	DVC	3326	0	72.6	-43.4	1.0	625	0.00
	Jharkhand	2224	0	47.9	38.3	0.8	170	0.11
	Odisha	6667	0	134.1	40.8	0.4	684	0.00
	West Bengal	11650	0	245.7	118.7	1.3	637	0.00
	Sikkim	89	0	1.4	1.2	0.2	53	0.00
	Railways ER ISTS	14	0	0.2	0.1	0.1	3	0.00
NER	Arunachal Pradesh	171	0	2.9	2.8	0.0	22	0.00
	Assam	1769	0	33.0	26.8	0.1	103	0.00
	Manipur	219	0	2.8	2.8	0.0	77	0.00
	Meghalaya	310	0	5.3	3.3	-0.3	63	0.00
	Mizoram	126	0	2.4	1.8	0.0	18	0.00
	Nagaland	169	0	2.6	2.6	0.0	18	0.00
	Tripura	305	0	5.3	4.9	0.3	58	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.3	-12.4	-22.8	-31.8
Day Peak (MW)	-11.0	-865.3	-1021.0	-1376.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.0	-250.1	182.9	-24.4	7.6	0.0
Actual(MU)	61.9	-234.7	169.6	-6.8	7.9	-2.3
OD/UD(MU)	-22.1	15.4	-13.3	17.6	0.2	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2686	8029	4002	4018	361	19096	48
State Sector	4719	9846	4046	2302	119	21032	52
Total	7405	17875	8048	6320	480	40127	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	907	1655	790	715	15	4083	73
Lignite	24	14	43	0	0	80	1
Hydro	196	65	90	32	12	397	7
Nuclear	34	65	71	0	0	170	3
Gas, Naptha & Diesel	53	95	12	0	24	184	3
RES (Wind, Solar, Biomass & Others)	252	240	199	6	0	698	12
Total	1466	2134	1206	754	53	5612	100

Share of RES in total generation (%)	17.21	11.25	16.50	0.80	0.80	12.42
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.90	17.35	29.89	5.11	24.41	22.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.064
Based on State Max Demands	1.092

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	227765	15:36	0
Non-Solar hr	223268	22:23	3013

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: 23-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	1394	254	8.9	0.0	8.9
4	765 kV	SASARAM-FATEHPUR	1	599	204	1.5	0.0	1.5
5	765 kV	GAYA-BALIA	1	100	462	0.0	4.9	-4.9
6	400 kV	PUSAULI-VARANASI	1	0	212	0.0	3.0	-3.0
7	400 kV	PUSAULI-ALLAHABAD	1	124	19	0.6	0.0	0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	927	121	6.7	0.0	6.7
9	400 kV	PATNA-BALIA	2	687	301	1.0	0.0	1.0
10	400 kV	NAUBATPUR-BALIA	2	289	137	1.4	0.0	1.4
11	400 kV	BIHARSHARIEF-BALIA	2	756	0	8.5	0.0	8.5
12	400 kV	MOTIHARI-GORAKHPUR	2	415	180	1.0	0.0	1.0
13	400 kV	BIHARSARIEF-SAHUPURI	2	0	0	2.9	0.0	2.9
14	220 kV	SAHUPURI-KARMANASA	1	13	45	0.9	0.0	0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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						34.1	10.4	23.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1178	514	4.1	0.0	4.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1720	0	24.6	0.0	24.6
3	765 kV	JHARSUGUDA-DURG	2	0	976	0.0	15.6	-15.6
4	400 kV	JHARSARIEF-SAHUPURI	4	0	691	0.0	10.1	-10.1
5	400 kV	RANCHI-SIPAT	2	347	93	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	96	122	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	119	131	0.0	0.8	-0.8
ER-WR						31.9	27.4	4.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	201	0	3.3	0.0	3.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1763	0.0	45.8	-45.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2787	0.0	50.0	-50.0
4	400 kV	TALCHER-I/C	2	389	725	0.0	1.9	-1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						3.3	95.7	-92.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	482	79	3.9	0.0	3.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	677	131	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	140	25	1.3	0.0	1.3
ER-NER						10.7	0.0	10.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	951	0	19.0	0.0	19.0
NER-NR						19.0	0.0	19.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	48.0	-48.0
2	HVDC	VINDHYACHAL B/B	-	98	0	2.3	0.0	2.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1458	0.0	36.4	-36.4
4	765 kV	GWALIOR-AGRA	2	557	1713	2.0	17.7	-15.7
5	765 kV	GWALIOR-PHAGI	2	1486	1053	9.4	12.1	-2.7
6	765 kV	JABALPUR-ORAI	2	503	825	3.0	8.6	-5.6
7	765 kV	GWALIOR-ORAI	1	654	0	10.0	0.0	10.0
8	765 kV	SATNA-ORAI	1	0	933	0.0	14.7	-14.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1978	454	15.9	1.1	14.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2769	0.0	49.7	-49.7
11	400 kV	ZERDA-KANKROLI	1	480	85	4.2	0.2	4.0
12	400 kV	ZERDA-BHINMAL	1	326	39	2.9	0.1	2.8
13	400 kV	VINDHYACHAL-RIHAND	1	975	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	677	164	5.7	1.0	4.7
15	400 kV	NEEMUCH-Chittorgarh	2	914	185	8.1	0.9	7.2
16	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.8	-2.8
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.2	-2.2
18	220 kV	MEHGAON-AURAIYA	1	111	0	1.8	0.0	1.8
19	220 kV	MALANPUR-AURAIYA	1	88	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						88.8	195.5	-106.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	20.3	-20.3
2	HVDC	RAIGARH-PUGAUR	2	0	3505	0.0	63.4	-63.4
3	765 kV	SOLAPUR-RAICHUR	2	803	1004	4.9	7.6	-2.7
4	765 kV	WARDHA-NIZAMABAD	2	0	1921	0.0	26.2	-26.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2477	0.0	35.0	-35.0
6	400 kV	KOLHAPUR-KUDGI	2	1221	0	19.8	0.0	19.8
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	126	2.5	0.0	2.5
WR-SR						27.2	152.4	-125.2

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)	515	155	256	6.14	
	ER	400kV TALA-BINAGURI 1,2,4 & 400kV MALBASE - BINAGURI I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-287	83	-63	-1.52	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-306	-128	-170	-4.09	
	NER	132kV GELEPHU-SALAKATI	-77	0	-14	-0.34	
	NER	132kV MOTANGA-RANGIA	18	-15	3	0.06	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-52	-1.25	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-53	-1.28	
	ER	NEPAL IMPORT (FROM BIHAR)	-252	0	-100	-2.39	
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-613	38	-313	-7.50	
	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-744	-889	-21.35	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1376	-1200	-1323	-31.75	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-84	0	-62	-1.48	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 23-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	0.40	3.02	0.00	0.00	0.00	0.00	0.00	3.42
Nepal	2.27	0.00	4.20	0.00	0.00	2.67	0.00	0.00	9.14
Bangladesh	22.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.24
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	24.51	0.40	7.22	0.00	0.00	2.67	0.00	0.00	34.80

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	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.34
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	4.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.34

Net from India(in MU)

-ve : Export / +ve : Import

Net from India(In INR)						-ve : Export / +ve : Import			TOTAL
Country	GNA (ISGS/PPA)	BILATERAL TOTAL	T-GNA						
			COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.34	-0.40	-3.02	0.00	0.00	0.00	0.00	0.00	0.92
Nepal	-2.27	0.00	-4.20	0.00	0.00	-2.67	0.00	0.00	-9.14
Bangladesh	-22.24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.24
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.17	-0.40	-7.22	0.00	0.00	-2.67	0.00	0.00	-30.46

Date of Reporting: 23-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 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	49.96	213763	6354	7067	71	20654	8658	171568	1998	206625	216370	-1123
0:15	49.76	212739	6368	7267	67	19467	8713	171934	1937	205405	215753	-1110
0:30	49.96	212944	6369	7281	68	19163	8792	172020	1952	205595	215645	-1107
0:45	49.91	212431	6367	7137	71	19046	8729	172085	1939	205223	215374	-1098
1:00	49.96	211281	6373	6971	76	18333	8660	172103	1969	204234	214485	-1140
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