



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: 22.04.2025

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 21.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 21-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 21.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 22-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)	63223	68926	53068	28220	3067	216504
Peak Shortage (MW)	295	2247	130	97	0	2769
Energy Met (MU)	1431	1704	1258	621	56	5070
Hydro Gen (MU)	201	54	85	33	12	386
Wind Gen (MU)	16	74	44	-	-	134
Solar Gen (MU)*	222.34	151.45	131.61	4.10	0.98	510
Energy Shortage (MU)	3.34	14.87	1.21	2.14	0.00	21.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	64886	78503	60790	28898	3139	227118
Time Of Maximum Demand Met	22:07	15:50	15:27	23:29	18:40	15:45

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	0.196	7.02	6.21	11.23	24.46	66.13	9.41

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	8807	0	174.3	74.6	-1.1	440	0.00
	Haryana	9235	90	189.7	131.8	-0.1	802	1.91
	Rajasthan	14742	0	308.9	92.2	-3.7	431	0.00
	Delhi	5688	0	118.5	106.1	-2.8	274	0.00
	UP	23741	0	496.5	168.0	-3.9	313	0.00
	Uttarakhand	2184	205	46.6	31.3	0.3	156	1.43
	HP	1650	0	32.4	12.5	-0.4	453	0.00
	J&K(UT) & Chandigarh	2583	0	53.4	33.7	-1.1	215	0.00
	Railways NR ISTS	308	0	6.0	5.9	0.1	30	0.00
		205	0	4.1	3.7	0.4	81	0.00
WR	Chhattisgarh	6662	0	146.3	88.3	3.8	798	7.64
	Gujarat	25319	0	500.0	199.1	-1.0	1046	0.49
	MP	14070	0	305.8	172.7	-1.0	1113	3.69
	Maharashtra	29830	1197	671.1	249.9	0.7	765	3.03
	Goa	797	0	17.3	16.6	0.2	130	0.02
	DNHDDPDCL	1267	0	29.2	29.3	-0.1	109	0.00
	AMNSIL	917	0	19.5	8.9	0.2	382	0.00
	BALCO	534	0	12.7	12.7	0.0	13	0.00
	RIL JAMNAGAR	159	0	2.3	2.4	-0.1	0	0.00
		12142	0	236.4	68.8	0.5	584	0.00
SR	Telangana	11572	0	231.2	92.3	-0.7	587	0.00
	Karnataka	13809	0	269.9	88.9	-3.5	749	0.00
	Kerala	4992	150	100.6	74.3	0.9	487	1.03
	Tamil Nadu	19274	0	408.6	247.1	2.0	724	0.00
	Puducherry	508	30	11.0	10.7	0.2	65	0.18
	Bihar	7215	353	140.0	138.3	-4.6	407	1.98
	DVC	3263	0	71.3	-43.2	0.0	665	0.00
	Jharkhand	2174	0	45.7	37.3	0.1	103	0.00
	Odisha	6299	0	130.5	36.6	0.7	454	0.00
	West Bengal	11028	0	232.1	104.3	2.5	1448	0.16
ER	Sikkim	83	0	1.4	1.3	0.1	44	0.00
	Railways ER ISTS	18	0	0.2	0.2	0.0	0	0.00
	Arunachal Pradesh	168	0	3.1	3.0	0.0	29	0.00
	Assam	1956	0	35.7	28.9	0.0	225	0.00
	Manipur	212	0	2.9	2.8	0.2	46	0.00
	Meghalaya	324	0	5.5	3.6	-0.3	73	0.00
	Mizoram	143	0	2.0	1.8	-0.1	18	0.00
	Nagaland	154	0	2.8	2.7	0.1	20	0.00
	Tripura	266	0	4.0	3.9	0.0	92	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	0.4	-13.5	-23.6	-30.7
Day Peak (MW)	-183.0	-830.0	-1023.0	-1384.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	134.6	-240.7	156.6	-60.8	10.2	0.0
Actual(MU)	113.2	-218.0	139.7	-52.4	9.1	-8.4
OD/UD(MU)	-21.4	22.7	-16.9	8.4	-1.2	-8.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3667	8404	4218	3823	361	20473	47
State Sector	5384	9964	4256	3072	119	22795	53
Total	9051	18368	8474	6895	480	43268	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	885	1638	759	731	15	4029	74
Lignite	21	15	46	0	0	82	2
Hydro	201	54	85	33	12	386	7
Nuclear	33	65	71	0	0	170	3
Gas, Naptha & Diesel	26	56	8	0	24	114	2
RES (Wind, Solar, Biomass & Others)	250	229	205	6	1	691	13
Total	1417	2057	1174	770	53	5471	100

Share of RES in total generation (%)	17.65	11.14	17.48	0.76	1.88	12.63
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.18	16.93	30.81	5.07	24.50	22.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.075

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	227118	15:45	0
Non-Solar hr	217585	22:20	4141

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: 22-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	2.3	-2.3
3	765 kV	GAYA-VARANASI	2	1118	653	2.4	0.0	2.4
4	765 kV	SASARAM-FATEHPUR	1	442	385	0.0	0.9	-0.9
5	765 kV	GAYA-BALIA	1	0	660	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	164	0.0	2.0	-2.0
7	400 kV	PUSAULI-ALLAHABAD	1	74	68	0.0	0.2	-0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	744	369	3.7	0.0	3.7
9	400 kV	PATNA-BALIA	2	454	668	0.0	3.7	-3.7
10	400 kV	NAUBATPUR-BALIA	2	271	399	0.0	0.3	-0.3
11	400 kV	BIHARSHARIEF-BALIA	2	677	71	6.3	0.0	6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	258	380	0.0	1.6	-1.6
13	400 kV	BIHARSARIEF-SAHUPURI	2	0	0	0.8	0.0	0.8
14	220 kV	SAHUPURI-KARMANASA	1	8	42	0.7	0.0	0.7
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						14.8	18.7	-3.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1047	647	0.0	3.1	-3.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1599	58	21.6	0.0	21.6
3	765 kV	JHARSUGUDA-DURG	2	0	1040	0.0	18.0	-18.0
4	400 kV	JHARSARIEF-SAHUPURI	4	0	741	0.0	12.3	-12.3
5	400 kV	RANCHI-SIPAT	2	310	165	1.5	0.0	1.5
6	220 kV	BUDHIPADAR-RAIGARH	1	24	104	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	80	115	0.0	0.6	-0.6
ER-WR						23.1	35.1	-12.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	108	118	0.0	0.4	-0.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1757	0.0	40.6	-40.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2977	0.0	50.1	-50.1
4	400 kV	TALCHER-I/C	2	399	228	3.8	0.0	3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	91.1	-91.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	275	146	3.1	0.3	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	429	201	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	85	30	0.9	0.0	0.9
ER-NER						8.2	0.3	7.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	1145	0	17.1	0.0	17.1
NER-NR						17.1	0.0	17.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1999	0.0	28.6	-28.6
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	27.8	-27.8
4	765 kV	GWALIOR-AGRA	2	0	2337	0.0	26.6	-26.6
5	765 kV	GWALIOR-PHAGI	2	1006	1534	4.8	16.6	-11.8
6	765 kV	JABALPUR-ORAI	2	202	1183	0.0	25.2	-25.2
7	765 kV	GWALIOR-ORAI	1	762	0	12.4	0.0	12.4
8	765 kV	SATNA-ORAI	1	0	1073	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITTORGARH	2	1443	180	16.4	0.2	16.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2923	0.0	56.5	-56.5
11	400 kV	ZERDA-KANKROLI	1	369	49	0.1	4.0	-3.9
12	400 kV	ZERDA-BHINMAL	1	255	34	2.8	0.0	2.7
13	400 kV	VINDHYACHAL-RIHAND	1	969	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUALPUR	2	554	356	4.0	2.6	1.3
15	400 kV	NEEMUCH-Chittorgarh	2	771	383	5.8	2.2	3.6
16	220 kV	BHANPURA-RANPUR	1	0	140	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	82	0	1.0	0.0	1.0
19	220 kV	MALANPUR-AURAIYA	1	58	16	0.5	0.1	0.4
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						76.1	210.3	-134.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGAUR	2	0	3504	0.0	55.0	-55.0
3	765 kV	SOLAPUR-RAICHUR	2	1798	758	10.2	2.5	7.8
4	765 kV	WARDHA-NIZAMABAD	2	241	2122	0.2	22.6	-22.4
5	765 kV	WARORA-WARANGAL(NEW)	2	118	2581	0.0	29.8	-29.8
6	400 kV	KOLHAPUR-KUDGI	2	1795	0	25.1	0.0	25.1
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	122	2.4	0.0	2.4
WR-SR						37.9	133.8	-95.9

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)	379	142	266	6.39
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-238	79	-73	-1.76
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-230	-132	-170	-4.09
	NER	132kV GELEPHU-SALAKATI	-21	-7	-13	-0.31
	NER	132kV MOTANGA-RANGIA	18	-7	9	0.21
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-57	-1.38
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-52	-1.25
	ER	NEPAL IMPORT (FROM BIHAR)	-200	0	-88	-2.12
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-630	3	-365	-8.77
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-863	-917	-22.00
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1384	-912	-1278	-30.66
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-86	0	-66	-1.58

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 22-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	2.00	0.00	0.00	0.00	0.00	0.00	2.40
Nepal	2.32	0.00	4.14	0.00	0.00	3.91	0.00	0.00	10.37
Bangladesh	22.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.81
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.13	0.40	6.14	0.00	0.00	3.91	0.00	0.00	35.58

Import by India(in MU)

Import by India (in M€)									
Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29
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	2.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29

Net from India(in MU)

-ve : Export / +ve : Import

Net from India(In INR)			T-GNA						-ve : Export / +ve : Import
Country	GNA (ISGS/PPA)	BILATERAL TOTAL	COLLECTIVE						TOTAL
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	2.29	-0.40	-2.00	0.00	0.00	0.00	0.00	0.00	-0.11
Nepal	-2.32	0.00	-4.14	0.00	0.00	-3.91	0.00	0.00	-10.37
Bangladesh	-22.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.81
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-22.84	-0.40	-6.14	0.00	0.00	-3.91	0.00	0.00	-33.29

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)
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))	(J=B+C+D+E+F+G+H)	(K)
0:00	50.00	210833	605	11042	61	19209	3206	171916	18709	199730	213609	-1350
0:15	49.90	209597	6291	10801	62	18092	3240	172567	1920	198734	212973	-1358
0:30	50.00	208717	6313	10590	42	17682	3228	172452	1893	198085	212200	-1374
0:45	50.00	207877	6315	10428	32	17444	3207	172014	1893	197417	211333	-1372
1:00	50.05	206123	6321	10260	26	17328	3197	170864	1888	195837	209884	-1365
1:15	50.05	205218	6321	10243	27	16741	3194	170407	1938	194948	208871	-1349
1:30	50.00	203816	6328	10276	34	15786	3201	169785	1919	193506	207329	-1401
1:45	50.00	201809	6322	10216	29	13990	3204	169660	1899	191564	205320	-1382
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