



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: 01.05.2025

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 30.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 30-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 30.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 01-May-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)	69147	68721	51157	24948	2998	216971
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1529	1676	1285	540	54	5086
Hydro Gen (MU)	249	45	69	27	13	403
Wind Gen (MU)	21	175	66	-	-	261
Solar Gen (MU)*	207.89	152.95	136.36	2.72	1.13	501
Energy Shortage (MU)	1.31	0.00	0.00	0.20	0.00	1.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	70768	75922	60331	25241	3150	223869
Time Of Maximum Demand Met	22:22	15:59	15:31	20:45	18:34	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	0.025	0.00	0.00	0.65	0.65	76.79	22.57

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	11223	0	217.6	102.0	1.2	1266	0.00
	Haryana	9767	0	213.6	163.6	0.8	500	0.82
	Rajasthan	15730	0	329.5	127.7	-0.5	813	0.00
	Delhi	5905	0	121.4	106.2	-2.2	256	0.00
	UP	25282	0	492.9	171.4	0.4	725	0.00
	Uttarakhand	2398	0	50.1	29.3	-0.4	65	0.00
	HP	1743	0	36.9	9.6	-0.7	306	0.00
	J&K(UT) & Ladakh(UT)	2744	0	56.2	34.4	0.8	303	0.49
	Chandigarh	322	0	6.4	6.3	0.0	26	0.00
	Railways_NR ISTS	226	0	4.1	4.0	0.2	58	0.00
WR	Chhattisgarh	5400	0	112.9	59.5	-3.1	476	0.00
	Gujarat	25351	0	510.5	163.7	-6.3	626	0.00
	MP	13437	0	291.6	181.1	-4.3	421	0.00
	Maharashtra	29792	0	679.5	251.3	0.4	877	0.00
	Goa	796	0	17.8	17.3	0.2	52	0.00
	DNHDDPDCL	1327	0	31.1	31.4	-0.3	34	0.00
	AMNSIL	813	0	18.2	8.5	0.7	279	0.00
	BALCO	529	0	12.6	12.7	-0.1	12	0.00
	RIL JAMNAGAR	159	0	2.2	2.3	-0.1	0	0.00
	Andhra Pradesh	12005	0	234.8	76.8	-2.4	817	0.00
SR	Telangana	10966	0	226.6	104.7	-0.7	570	0.00
	Karnataka	14473	0	287.2	107.7	-1.9	1179	0.00
	Kerala	4963	0	97.5	75.8	-0.4	259	0.00
	Tamil Nadu	19952	0	428.1	280.3	-1.9	900	0.00
	Puducherry	530	0	11.3	11.5	-0.2	20	0.00
ER	Bihar	6305	0	126.7	113.6	2.4	259	0.20
	DVC	3141	0	69.8	-26.1	0.3	471	0.00
	Jharkhand	2098	0	43.9	36.2	-0.7	89	0.00
	Odisha	5470	0	105.9	22.8	-2.1	500	0.00
	West Bengal	8780	0	192.1	56.6	-2.5	264	0.00
	Sikkim	103	0	1.9	1.4	0.6	57	0.00
	Railways_ER ISTS	18	0	0.2	0.2	0.0	3	0.00
NER	Arunachal Pradesh	185	0	3.0	3.0	-0.1	100	0.00
	Assam	1882	0	32.8	25.9	0.3	1101	0.00
	Manipur	219	0	2.9	3.0	0.0	109	0.00
	Meghalaya	323	0	5.3	2.1	0.1	241	0.00
	Mizoram	126	0	2.4	1.9	0.0	63	0.00
	Nagaland	157	0	2.5	2.4	0.0	105	0.00
	Tripura	300	0	5.6	4.4	0.1	191	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	2.4	-13.1	-22.3	-28.0
Day Peak (MW)	255.0	-789.1	-988.0	-1370.9

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	208.4	-330.0	229.2	-116.1	8.5	0.0
Actual(MU)	201.8	-323.9	224.2	-113.6	9.6	-2.0
OD/UD(MU)	-6.7	6.1	-5.0	2.5	1.1	-2.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3689	6442	3012	2760	327	16229	44
State Sector	6094	5724	6456	1862	169	20304	56
Total	9783	12165	9468	4622	496	36533	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	827	1608	703	708	13	3860	70
Lignite	23	16	47	0	0	86	2
Hydro	249	45	69	27	13	403	7
Nuclear	33	65	71	0	0	169	3
Gas, Naptha & Diesel	47	77	14	0	23	161	3
RES (Wind, Solar, Biomass & Others)	239	329	230	5	1	804	15
Total	1419	2141	1134	741	49	5483	100

Share of RES in total generation (%)

Share of RES in total generation (%)	16.83	15.38	20.24	0.68	2.33	14.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	36.70	20.53	32.63	4.39	28.07	25.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.051
Based on State Max Demands	1.094

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	223869	15:51	76
Non-Solar hr	220213	22:53	400

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: 01-May-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	2.1	-2.1
3	765 kV	GAYA-VARANASI	2	954	802	0.0	2.6	-2.6
4	765 kV	SASARAM-FATEHPUR	1	344	424	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	63	668	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	27	140	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	50	75	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	641	433	0.0	1.0	-1.0
9	400 kV	PATNA-BALIA	2	331	712	0.0	7.8	-7.8
10	400 kV	NAUBATPUR-BALIA	2	248	221	0.0	1.9	-1.9
11	400 kV	BIHARSHARIEF-BALIA	2	527	127	3.1	0.0	3.1
12	400 kV	MOTIHARI-GORAKHPUR	2	148	399	0.0	3.8	-3.8
13	400 kV	BIHARSARIEF-SAHUPURI	2	180	148	0.0	1.1	-1.1
14	220 kV	SAHUPURI-KARMANASA	1	12	54	0.5	0.0	0.5
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	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						3.6	33.4	-29.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	395	1128	0.0	11.3	-11.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1019	606	3.5	0.0	3.5
3	765 kV	JHARSUGUDA-DURG	2	0	1122	0.0	20.8	-20.8
4	400 kV	JHARSUGUDA-RAIGARH	4	49	487	0.0	6.8	-6.8
5	400 kV	RANCHI-SIPAT	2	269	184	0.1	0.0	0.1
6	220 kV	BUDHIPADAR-RAIGARH	1	21	123	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	117	83	0.0	0.0	0.0
ER-WR						3.6	40.5	-37.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	201	0	4.8	0.0	4.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1764	0.0	45.1	-45.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3000	0.0	51.4	-51.4
4	400 kV	TALCHER-I/C	2	418	969	0.0	4.4	-4.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.8	96.5	-91.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	322	214	1.8	1.0	0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	460	337	0.7	0.0	0.7
3	220 kV	ALIPURDUAR-SALAKATI	2	97	45	0.5	0.0	0.5
ER-NER						2.9	1.0	1.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	476	0	11.7	0.0	11.7
NER-NR						11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3011	0.0	72.1	-72.1
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1454	0.0	34.7	-34.7
4	765 kV	GWALIOR-AGRA	2	0	1824	0.0	20.8	-20.8
5	765 kV	GWALIOR-PHAGI	2	1172	1429	6.1	16.0	-9.9
6	765 kV	JABALPUR-ORAI	2	248	888	0.0	15.6	-15.6
7	765 kV	GWALIOR-ORAI	1	697	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	1038	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITTORGARH	2	76	1090	0.0	12.6	-12.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	2670	0.0	46.6	-46.6
11	400 kV	ZERDA-KANKROLI	1	120	153	0.5	0.8	-0.3
12	400 kV	ZERDA-BHINMAL	1	83	106	0.4	0.6	-0.2
13	400 kV	VINDHYACHAL-RIHAND	1	963	0	20.7	0.0	20.7
14	400 kV	RAPP-SHUJALPUR	2	618	247	5.0	1.2	3.8
15	400 kV	NEEMUCH-Chittorgarh	2	652	250	4.9	1.1	3.8
16	220 kV	BHANPURA-RANPUR	1	0	79	0.0	1.4	-1.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	78	0	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	59	0	1.0	0.0	1.0
20	132 kV	GWALIOR-SAWAL 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						52.7	243.7	-191.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1009	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6025	0.0	109.6	-109.6
3	765 kV	SOLAPUR-RAICHUR	2	969	1126	4.8	4.6	0.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2255	0.0	27.7	-27.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2642	0.0	34.6	-34.6
6	400 kV	KOLHAPUR-KUDGI	2	1536	0	24.0	0.0	24.0
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	XELDEM-AMBEWADI	1	0	135	2.6	0.0	2.6
WR-SR						31.4	200.4	-169.1
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)	419	183	272	6.53		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-80	19	-23	-0.55		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-179	-112	-141	-3.39		
	NER	132kV GELEPHU-SALAKATI	-19	8	-5	-0.13		
	NER	132kV MOTANGA-RANGIA	22	-14	-1	-0.03		
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-40	-0.96		
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-55	-1.33		
	ER	NEPAL IMPORT (FROM BIHAR)	-253	0	-146	-3.51		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-536	-15	-306	-7.34		
	ER	BHERAMARA B/B HVDC (B'DESH)	-948	-739	-896	-21.50		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1371	-859	-1165	-27.97		
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-40	0	-33	-0.80		

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 01-May-2025

Export From India (in MU)

Export From India (in MTC)		T-GNA							TOTAL
Country	GNA (ISGS/PPA)	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	3.34	0.00	5.06	0.00	0.00	2.38	0.00	0.00	10.78
Bangladesh	22.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.27
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.61	0.40	5.06	0.00	0.00	2.38	0.00	0.00	33.45

Import by India(in MU)

Import by India (M€)									
Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78
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	2.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.78

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	2.78	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	2.38
Nepal	-3.34	0.00	-5.06	0.00	0.00	-2.38	0.00	0.00	-10.78
Bangladesh	-22.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.27
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-22.83	-0.40	-5.06	0.00	0.00	-2.38	0.00	0.00	-30.67

Date of Reporting: 01-May-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	50.09	213324	6380	9680	59	20242	6932	170290	1859	203585	215442	-1126
0:15	50.04	212279	6364	10209	58	19419	6856	169777	1824	202012	214507	-1128
0:30	50.04	211202	6345	10353	54	18419	6821	169557	1841	200795	213390	-1121
0:45	50.04	210016	6375	10253	54	18014	6835	168596	1855	199709	211982	-1027
1:00	50.04	207656	6369	10472	54	17077	6811	167091	1910	197130	209784	-1100
1:15	49.99	206090	6353	10489	55	16461	6700	166304	1816	195546	208178	-1150
1:30	49.99	205096	6332	10451	54	15343	6674	166944	1858	194591	207656	-1140
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