



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: 17.04.2025

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 16.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 16-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 16.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 17-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)	65684	70778	50996	26348	2706	216512
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1375	1718	1257	569	54	4972
Hydro Gen (MU)	206	66	76	26	10	383
Wind Gen (MU)	16	134	54	-	-	204
Solar Gen (MU)*	200.60	144.34	142.93	4.43	0.84	493
Energy Shortage (MU)	0.14	1.18	0.00	0.20	0.00	1.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66805	77826	58556	26895	2886	219879
Time Of Maximum Demand Met	19:33	15:32	15:23	19:40	18:33	19:29

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	0.035	0.00	1.01	3.07	4.07	76.13	19.80

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	9442	0	181.2	84.6	-3.6	311	0.00
	Haryana	9538	0	184.1	132.8	-0.9	396	0.00
	Rajasthan	14485	0	309.1	98.3	-1.2	817	0.00
	Delhi	5358	0	110.7	100.4	-2.3	135	0.00
	UP	23958	0	453.0	154.1	-0.3	489	0.00
	Uttarakhand	2296	0	44.4	33.1	-0.3	211	0.14
	HP	1664	0	32.4	11.8	-0.9	421	0.00
	J&K(UT) & Ladakh(UT)	2592	0	50.9	36.7	-6.9	751	0.00
	Chandigarh	265	0	5.3	5.3	0.0	13	0.00
WR	Railways_NR ISTS	194	0	4.1	3.9	0.2	37	0.00
	Chhattisgarh	6522	0	143.9	87.5	-0.7	390	0.00
	Gujarat	24972	0	498.2	200.8	-3.4	551	0.00
	MP	14094	0	309.1	180.7	1.2	838	1.18
	Maharashtra	30115	0	684.5	227.2	2.3	709	0.00
	Goa	799	0	17.5	16.8	0.1	43	0.00
	DNHDDPDCL	1323	0	30.6	30.8	-0.2	43	0.00
	AMNSIL	784	0	17.5	8.0	0.1	269	0.00
	BALCO	532	0	12.7	12.7	0.0	12	0.00
SR	RIL JAMNAGAR	160	0	3.5	3.5	0.0	0	0.00
	Andhra Pradesh	10939	0	220.6	69.0	-0.3	1080	0.00
	Telangana	11838	0	239.6	101.6	1.5	870	0.00
	Karnataka	15592	0	302.5	109.3	-1.1	870	0.00
	Kerala	5043	0	98.4	77.2	1.7	357	0.00
	Tamil Nadu	17685	0	385.6	242.3	-5.2	425	0.00
	Puducherry	522	0	10.8	10.8	-0.1	51	0.00
ER	Bihar	6450	0	124.3	113.0	0.0	553	0.00
	DVC	3219	0	69.4	-41.4	-1.8	334	0.00
	Jharkhand	2042	0	40.3	28.7	1.0	287	0.20
	Odisha	5636	0	118.2	25.4	-1.3	366	0.00
	West Bengal	10200	0	215.2	70.1	-1.7	229	0.00
	Sikkim	96	0	1.4	1.5	-0.1	48	0.00
	Railways_ER ISTS	1	0	0.2	0.3	-0.1	0	0.00
NER	Arunachal Pradesh	165	0	2.7	2.8	-0.1	23	0.00
	Assam	1750	0	33.2	26.4	0.7	89	0.00
	Manipur	197	0	2.9	2.8	0.2	23	0.00
	Meghalaya	342	0	5.7	3.6	-0.3	64	0.00
	Mizoram	129	0	1.9	1.8	-0.2	16	0.00
	Nagaland	159	0	2.5	2.5	0.0	10	0.00
	Tripura	246	0	4.8	4.0	-0.2	29	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.7	-6.6	-22.5	-29.4
Day Peak (MW)	-521.0	-347.5	-956.0	-1377.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	159.4	-250.6	207.8	-128.7	12.0	0.0
Actual(MU)	148.2	-229.8	193.8	-133.6	11.8	-9.6
O/D/U/D(MU)	-11.3	20.8	-14.0	-4.9	-0.2	-9.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4618	7401	4878	2638	511	20045	49
State Sector	7419	8006	4746	712	139	21021	51
Total	12037	15406	9624	3350	650	41066	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	821	1594	701	766	12	3893	73
Lignite	21	16	47	0	0	84	2
Hydro	206	66	76	26	10	383	7
Nuclear	26	65	61	0	0	152	3
Gas, Naptha & Diesel	17	31	10	0	24	82	2
RES (Wind, Solar, Biomass & Others)	229	282	233	5	1	751	14
Total	1319	2054	1129	797	46	5346	100

Share of RES in total generation (%)	17.34	13.74	20.68	0.67	1.86	14.04
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.91	20.10	32.86	3.89	22.69	24.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.059
Based on State Max Demands	1.097

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217098	16:34	0
Non-Solar hr	219879	19:29	315

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: 17-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	868	1011	0.0	5.7	-5.7
4	765 kV	SASARAM-FATEHPUR	1	312	625	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	19	722	0.0	10.1	-10.1
6	400 kV	PUSAULI-VARANASI	1	0	116	0.0	1.2	-1.2
7	400 kV	PUSAULI -ALLAHABAD	1	23	97	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	755	511	0.0	0.7	-0.7
9	400 kV	PATNA-BALIA	2	259	910	0.0	11.6	-11.6
10	400 kV	NAUBATPUR-BALIA	2	123	390	0.0	3.3	-3.3
11	400 kV	BIHARSHARIFF-BALIA	2	600	229	2.7	0.0	2.7
12	400 kV	MOTIHARI-GORAKHPUR	2	390	461	0.0	2.5	-2.5
13	400 kV	BIHARSARIFF-SAHUPURI	2	0	0	0.0	2.7	-2.7
14	220 kV	SAHUPURI-KARAMNASA	1	7	62	0.0	0.4	-0.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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						3.4	47.3	-44.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	619	1239	0.0	14.7	-14.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1081	753	3.8	0.0	3.8
3	765 kV	JHARSUGUDA-DURG	2	0	831	0.0	15.3	-15.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	867	0.0	13.6	-13.6
5	400 kV	RANCHI-SIPAT	2	168	336	0.0	2.7	-2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	168	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	61	162	0.0	1.5	-1.5
ER-WR						3.8	50.2	-46.4
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	1764	0.0	37.3	-37.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	3096	0.0	52.5	-52.5
4	400 kV	TALCHER-I/C	2	407	486	4.7	0.0	4.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	92.5	-92.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	376	207	2.5	1.3	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	623	207	2.5	0.0	2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	119	28	0.9	0.0	0.9
ER-NER						5.8	1.3	4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	711	0	17.3	0.0	17.3
NER-NR						17.3	0.0	17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2018	0.0	51.9	-51.9
2	HVDC	VINDHYACHAL B/B	-	245	0	2.9	0.0	2.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1174	0.0	29.1	-29.1
4	765 kV	GWALIOR-AGRA	2	509	1742	1.6	14.2	-12.6
5	765 kV	GWALIOR-PHAGI	2	1318	1449	6.3	14.0	-7.7
6	765 kV	JABALPUR-ORAI	2	478	983	0.0	17.4	-17.4
7	765 kV	GWALIOR-ORAI	1	988	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1237	0.0	20.6	-20.6
9	765 kV	BANASKANTHA-CHITORGARH	2	967	861	8.1	2.6	5.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2998	0.0	46.4	-46.4
11	400 kV	ZERDA-KANKROLI	1	268	122	2.5	0.2	2.3
12	400 kV	ZERDA -BHINMAL	1	185	85	1.8	0.1	1.6
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	780	264	5.6	1.0	4.6
15	400 kV	NEEMUCH-Chittorgarh	2	780	210	6.0	0.6	5.4
16	220 kV	BHANPURA-RANPUR	1	0	144	0.0	2.9	-2.9
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	83	0	1.3	0.0	1.3
19	220 kV	MALANPUR-AURAIYA	1	64	0	0.9	0.0	0.9
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						73.4	202.9	-129.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	21.3	-21.3
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	88.3	-88.3
3	765 kV	SOLAPUR-RAICHUR	2	948	1109	5.1	3.2	1.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2641	0.0	32.2	-32.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2649	0.0	33.2	-33.2
6	400 kV	KOLHAPUR-KUDGI	2	1432	0	24.2	0.0	24.2
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	120	2.3	0.0	2.3
WR-SR						31.6	178.0	-146.5

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)	261	-83	120	2.87	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-310	38	-141	-3.39	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-253	-122	-196	-4.71	
	NER	132kV GELEPHU-SALAKATI	-25	0	-17	-0.40	
	NER	132kV MOTANGA-RANGIA	-11	7	-1	-0.03	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-52	-1.25	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-50	-1.19	
	ER	NEPAL IMPORT (FROM BIHAR)	201	0	106	2.54	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-548	-17	-278	-6.66	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-918	-814	-906	-21.75	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1377	-809	-1223	-29.35	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-38	0	-29	-0.70	

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	3.24	0.00	0.00	3.18	0.00	0.00	6.81
Nepal	2.37	0.00	4.05	0.00	0.00	2.75	0.00	0.00	9.17
Bangladesh	22.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.01	0.39	7.29	0.00	0.00	5.93	0.00	0.00	38.62

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69
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	0.69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.69

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	0.69	-0.39	-3.24	0.00	0.00	-3.18	0.00	0.00	-6.12
Nepal	-2.37	0.00	-4.05	0.00	0.00	-2.75	0.00	0.00	-9.17
Bangladesh	-22.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.64
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-24.32	-0.39	-7.29	0.00	0.00	-5.93	0.00	0.00	-37.93

Date of Reporting: 17-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	50.03	208189	5817	10179	392	18976	3898	169721	1895	197618	210878	-1465
0:15	49.98	207579	5802	10206	382	17835	3748	170672	1911	196991	210556	-1610
0:30	50.03	206486	5819	10093	341	17925	3720	169278	1946	196052	209122	-1634
0:45	49.98	204671	5817	9841	349	17095	3614	168545	1910	194481	207171	-1649
1:00	50.03	202165	5802	9798	319	16993	3588	166788	1913	192048	205201	-1671
1:15	49.98	200870	5838	9644	338	16190	3210	166180	1891	190888	203291	-1665
1:30	50.03	199329	5874	9486	348	15507	3102	165563	1895	189495	201775	-1635
1:45	50.03	198176	5831	9245	339	15555	2966	165139	1949	188592	201024	-1639
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