



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: 20.04.2025

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, लापलंग, 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 19.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 19-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 19.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 20-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)	66619	70366	52644	26838	3041	219508
Peak Shortage (MW)	140	0	0	0	0	140
Energy Met (MU)	1328	1705	1256	548	59	4896
Hydro Gen (MU)	228	38	73	30	12	380
Wind Gen (MU)	47	210	69	-	-	327
Solar Gen (MU)*	207.32	143.75	142.89	3.43	1.14	499
Energy Shortage (MU)	0.54	1.14	0.00	0.08	0.00	1.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66954	75497	60182	27140	3207	220282
Time Of Maximum Demand Met	20:54	16:18	15:33	20:59	18:35	19:46

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	0.097	0.52	2.58	11.31	14.41	60.03	25.56

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	8652	0	169.5	78.5	-2.6	641	0.00
	Haryana	9557	0	183.3	130.9	-1.4	753	0.00
	Rajasthan	14061	0	313.0	93.3	-3.6	379	0.00
	Delhi	5355	0	111.3	102.0	-2.8	208	0.00
	UP	23999	0	421.0	141.2	-4.1	378	0.00
	Uttarakhand	2289	0	41.7	26.8	0.3	278	0.54
	HP	1578	0	32.9	10.2	-0.6	191	0.00
	J&K(UT) & Ladakh(UT)	2557	0	45.9	31.0	-2.0	285	0.00
	Chandigarh	263	0	5.3	5.0	0.4	61	0.00
WR	Railways_NR ISTS	209	0	4.4	3.9	0.5	53	0.00
	Chhattisgarh	6262	172	143.5	83.7	1.7	626	0.19
	Gujarat	23977	0	498.9	176.3	-2.0	996	0.00
	MP	14007	0	310.3	174.3	-3.2	507	0.00
	Maharashtra	29483	948	670.8	244.2	3.1	1048	0.95
	Goa	782	0	17.3	16.9	-0.1	42	0.00
	DNHDDPDCL	1354	0	31.0	30.9	0.1	75	0.00
	AMNSIL	787	0	17.7	8.7	0.2	300	0.00
	BALCO	534	0	12.7	12.7	0.0	32	0.00
SR	RIL JAMNAGAR	173	0	3.0	3.0	0.0	0	0.00
	Andhra Pradesh	11929	0	236.4	72.7	4.0	846	0.00
	Telangana	11354	0	228.0	115.1	-2.2	593	0.00
	Karnataka	14469	0	282.8	99.0	-1.0	929	0.00
	Kerala	4972	0	96.3	76.5	0.2	495	0.00
	Tamil Nadu	18449	0	401.4	236.2	0.2	726	0.00
	Puducherry	532	0	11.2	11.2	-0.1	54	0.00
ER	Bihar	6485	0	120.4	110.2	-0.9	223	0.08
	DVC	3286	0	72.4	-35.8	0.1	348	0.00
	Jharkhand	2066	0	42.2	30.8	0.5	165	0.00
	Odisha	5909	0	115.4	29.3	-1.1	572	0.00
	West Bengal	9758	0	196.3	74.5	-1.8	266	0.00
	Sikkim	83	0	1.3	1.4	-0.1	31	0.00
	Railways_ER ISTS	21	0	0.1	0.1	0.0	9	0.00
NER	Arunachal Pradesh	178	0	3.0	2.9	-0.1	25	0.00
	Assam	1963	0	37.8	29.7	0.7	154	0.00
	Manipur	205	0	2.9	2.9	0.0	29	0.00
	Meghalaya	326	0	5.8	3.9	-0.1	91	0.00
	Mizoram	127	0	1.8	1.8	-0.3	9	0.00
	Nagaland	165	0	2.7	2.7	0.0	24	0.00
	Tripura	277	0	4.7	4.5	0.3	59	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.4	-3.6	-24.0	-23.8
Day Peak (MW)	-60.0	-137.6	-1028.0	-1384.1

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	98.2	-251.2	230.4	-92.0	14.7	0.0
Actual(MU)	70.9	-213.7	209.8	-90.6	14.2	-9.3
O/D/U/D(MU)	-27.2	37.6	-20.6	1.5	-0.5	-9.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3944	9781	5068	2638	511	21942	50
State Sector	7194	7767	4856	1569	139	21525	50
Total	11138	17547	9924	4207	650	43466	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	783	1524	670	698	13	3689	70
Lignite	19	16	45	0	0	81	2
Hydro	228	38	73	30	12	380	7
Nuclear	33	65	71	0	0	169	3
Gas, Naptha & Diesel	12	30	9	0	24	75	1
RES (Wind, Solar, Biomass & Others)	266	358	240	5	1	871	17
Total	1342	2031	1108	733	50	5265	100

Share of RES in total generation (%)	19.84	17.62	21.69	0.70	2.32	16.54
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	39.29	22.70	34.67	4.76	25.99	26.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.057
Based on State Max Demands	1.082

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	214209	15:47	0
Non-Solar hr	220282	19:46	0

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: 20-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	1057	707	0.0	0.5	-0.5
4	765 kV	SASARAM-FATEHPUR	1	448	428	0.0	1.1	-1.1
5	765 kV	GAYA-BALIA	1	271	640	0.0	5.2	-5.2
6	400 kV	PUSAULI-VARANASI	1	0	157	0.0	1.9	-1.9
7	400 kV	PUSAULI -ALLAHABAD	1	65	76	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	886	458	1.6	0.0	1.6
9	400 kV	PATNA-BALIA	2	525	702	0.0	4.9	-4.9
10	400 kV	NAUBATPUR-BALIA	2	224	212	0.0	0.9	-0.9
11	400 kV	BIHARSHARIFF-BALIA	2	739	127	5.1	0.0	5.1
12	400 kV	MOTIHARI-GORAKHPUR	2	634	400	1.5	0.0	1.5
13	400 kV	BIHARSARIFF-SAHUPURI	2	0	0	0.0	0.9	-0.9
14	220 kV	SAHUPURI-KARAMNASA	1	11	49	0.2	0.0	0.2
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						9.2	18.3	-9.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1621	1179	0.0	0.4	-0.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	992	1178	1.2	0.0	1.2
3	765 kV	JHARSUGUDA-DURG	2	0	1317	0.0	20.2	-20.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	724	0.0	10.5	-10.5
5	400 kV	RANCHI-SIPAT	2	174	476	0.0	3.1	-3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	23	142	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	138	94	0.0	0.2	-0.2
ER-WR						1.2	36.4	-35.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	112	114	0.1	0.0	0.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1770	0.0	45.4	-45.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3003	0.0	50.6	-50.6
4	400 kV	TALCHER-I/C	2	268	989	0.0	6.6	-6.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.1	96.0	-96.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	306	124	3.2	0.4	2.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	510	119	4.7	0.0	4.7
3	220 kV	ALIPURDUAR-SALAKATI	2	88	16	1.0	0.0	1.0
ER-NER						8.8	0.4	8.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	958	0	22.6	0.0	22.6
NER-NR						22.6	0.0	22.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1946	0.0	50.0	-50.0
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	23.4	-23.4
4	765 kV	GWALIOR-AGRA	2	734	1811	4.4	11.6	-7.2
5	765 kV	GWALIOR-PHAGI	2	1894	1165	12.5	9.8	2.7
6	765 kV	JABALPUR-ORAI	2	640	1042	0.0	5.8	-5.8
7	765 kV	GWALIOR-ORAI	1	838	34	12.2	0.0	12.2
8	765 kV	SATNA-ORAI	1	0	1224	0.0	17.0	-17.0
9	765 kV	BANASKANTHA-CHITORGARH	2	530	767	2.9	3.2	-0.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2752	0.0	39.0	-39.0
11	400 kV	ZERDA-KANKROLI	1	264	122	2.7	0.3	2.4
12	400 kV	ZERDA -BHINMAL	1	182	85	1.9	0.2	1.7
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	19.8	0.0	19.8
14	400 kV	RAPP-SHUJALPUR	2	750	331	6.2	1.4	4.8
15	400 kV	NEEMUCH-Chittorgarh	2	851	350	8.5	1.1	7.5
16	220 kV	BHANPURA-RANPUR	1	0	148	0.0	2.7	-2.7
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.5	-2.5
18	220 kV	MEHGAON-AURAIYA	1	108	0	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	84	8	1.0	0.0	1.0
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						75.9	167.8	-91.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6036	0.0	105.9	-105.9
3	765 kV	SOLAPUR-RAICHUR	2	1371	1144	10.6	4.0	6.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2316	0.0	29.1	-29.1
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2591	0.0	33.9	-33.9
6	400 kV	KOLHAPUR-KUDGI	2	1787	0	27.6	0.0	27.6
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	119	2.4	0.0	2.4
WR-SR						40.5	197.0	-156.4

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 MANGDECHU HEP 4*180MW)	439	44	213	5.11
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-186	38	-66	-1.59
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-226	-136	-163	-3.92
	NER	132kV GELEPHU-SALAKATI	0	-23	-13	-0.32
	NER	132kV MOTANGA-RANGIA	22	0	14	0.34
NEPAL	NR	NEPAL IMPORT (FROM UP)	-58	0	-38	-0.91
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-58	0	-32	-0.76
	ER	NEPAL IMPORT (FROM BIHAR)	188	0	110	2.63
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-358	0	-192	-4.60
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-885	-926	-22.23
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1384	-811	-990	-23.77
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-92	0	-73	-1.76

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	4.85	0.00	0.00	0.00	0.00	0.00	5.25
Nepal	2.71	0.00	2.95	0.00	0.00	1.68	0.00	0.00	7.34
Bangladesh	23.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.76	0.40	7.80	0.00	0.00	1.68	0.00	0.00	35.64

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40
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	4.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.40

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	4.40	-0.40	-4.85	0.00	0.00	0.00	0.00	0.00	-0.85
Nepal	-2.71	0.00	-2.95	0.00	0.00	-1.68	0.00	0.00	-7.34
Bangladesh	-23.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.05
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.36	-0.40	-7.80	0.00	0.00	-1.68	0.00	0.00	-31.24

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	49.95	202951	6301	16093	61	17867	3592	160279	1898	186797	206091	-1373
0:15	49.95	201815	6303	16111	61	17158	3482	159931	1912	185643	204958	-1252
0:30	49.95	200969	6305	16014	52	17156	3515	159092	1929	184903	204063	-1194
0:45	49.90	199941	6325	16065	28	15773	3499	159438	1921	183848	203049	-1194
1:00	49.96	197801	6315	15945	28	15589	3402	157644	1943	181828	200866	-1129
1:15	50.01	196223	6306	15884	28	14990	3332	157014	1927	180311	199481	-1191
1:30	50.01	194815	6330	15779	29	14728	3197	155930	1966	179007	197959	-1159
1:45	49.96	193998	6318	15521	29	14520	3181	155747	1970	178448	197286	-1187
2:00	50.01	192118	6324	15371	35	14218	2979	154662	1929	176712	195518	-1149
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