



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: 07.04.2025

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 06.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 6-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 06.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 07-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)	55963	65751	46080	25310	2739	195843
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1170	1613	1199	590	52	4623
Hydro Gen (MU)	139	29	58	22	10	257
Wind Gen (MU)	24	150	36	-	-	209
Solar Gen (MU)*	209.17	155.81	138.14	3.64	0.92	508
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.20	0.20
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57532	69866	53950	27675	2895	199416
Time Of Maximum Demand Met	19:28	16:28	12:25	00:01	18:45	09:38

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	0.127	0.00	0.00	2.71	2.71	66.45	30.84

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	7236	0	151.1	59.6	-0.4	586	0.00
	Haryana	7542	0	137.8	89.4	-1.0	734	0.00
	Rajasthan	13389	0	266.6	63.9	-5.0	543	0.00
	Delhi	3879	0	83.7	76.9	-1.7	88	0.00
	UP	21551	0	397.7	131.8	-3.8	258	0.00
	Uttarakhand	2013	0	39.0	28.2	-0.5	108	0.00
	HP	1663	0	31.0	17.4	-0.8	802	0.00
	J&K(UT) & Ladakh(UT)	2772	0	54.7	45.8	-1.4	83	0.00
	Chandigarh	202	0	3.8	3.9	0.0	15	0.00
WR	Railways_NR ISTS	200	0	4.2	3.8	0.3	33	0.00
	Chhattisgarh	6435	0	147.9	85.1	0.1	298	0.00
	Gujarat	22483	0	464.6	179.3	1.4	1498	0.00
	MP	14149	0	284.3	161.3	-2.6	534	0.00
	Maharashtra	27324	0	634.7	232.8	1.4	828	0.00
	Goa	743	0	15.5	15.1	-0.2	50	0.00
	DNHDDPDCL	1266	0	28.9	28.9	0.0	55	0.00
	AMNSIL	862	0	19.3	9.2	0.2	254	0.00
	BALCO	531	0	12.7	12.7	0.0	0	0.00
SR	RIL JAMNAGAR	197	0	4.7	4.7	0.0	0	0.00
	Andhra Pradesh	10894	0	226.6	77.9	-0.7	574	0.00
	Telangana	13246	0	269.0	131.6	-0.7	884	0.00
	Karnataka	13264	0	268.3	112.6	-0.2	1004	0.00
	Kerala	4430	0	83.0	73.9	-1.8	356	0.00
	Tamil Nadu	15230	0	342.4	218.5	-3.8	800	0.00
	Puducherry	432	0	9.9	9.4	-0.1	43	0.00
ER	Bihar	6232	0	125.5	117.8	-2.7	294	0.00
	DVC	3238	0	67.9	-36.4	0.7	381	0.00
	Jharkhand	2044	0	41.0	31.8	-1.3	131	0.00
	Odisha	5907	0	124.3	41.7	-1.1	584	0.00
	West Bengal	10844	0	229.6	103.8	-2.4	272	0.00
	Sikkim	76	0	1.3	1.0	0.2	39	0.00
	Railways_ER ISTS	13	0	0.1	0.2	0.0	3	0.00
NER	Arunachal Pradesh	174	0	2.5	2.9	-0.5	26	0.00
	Assam	1702	0	31.3	24.8	0.2	98	0.00
	Manipur	184	0	2.4	2.5	0.0	35	0.20
	Meghalaya	317	0	5.8	4.6	-0.2	79	0.00
	Mizoram	114	0	1.9	1.8	-0.3	30	0.00
	Nagaland	135	0	2.2	2.3	-0.1	16	0.00
	Tripura	324	0	5.8	4.6	0.3	63	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.3	-13.5	-23.2	-30.8
Day Peak (MW)	-601.0	-841.2	-994.0	-1377.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	63.8	-259.3	206.2	-23.5	12.8	0.0
Actual(MU)	48.5	-236.5	193.5	-24.3	12.9	-5.9
O/D/U/D(MU)	-15.3	22.8	-12.7	-0.8	0.1	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3688	10191	2898	3278	586	20640	45
State Sector	8244	7758	7016	2392	237	25647	55
Total	11932	17949	9914	5670	823	46287	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	754	1524	661	685	9	3633	73
Lignite	22	11	51	0	0	85	2
Hydro	139	29	58	22	10	257	5
Nuclear	31	64	71	0	0	167	3
Gas, Naptha & Diesel	11	23	9	0	24	68	1
RES (Wind, Solar, Biomass & Others)	249	308	214	5	1	778	16
Total	1207	1959	1065	712	44	4987	100

Share of RES in total generation (%)	20.67	15.72	20.09	0.75	2.12	15.59
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.77	20.46	32.20	3.82	24.48	24.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.062
Based on State Max Demands	1.119

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	199416	9:38	35
Non-Solar hr	199375	22:36	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: **07-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	1312	554	3.5	0.0	3.5
4	765 kV	SASARAM-FATEHPUR	1	522	414	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	205	552	0.0	5.3	-5.3
6	400 kV	PUSAULI-VARANASI	1	0	175	0.0	2.5	-2.5
7	400 kV	PUSAULI -ALLAHABAD	1	83	34	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	1047	261	5.1	0.0	5.1
9	400 kV	PATNA-BALIA	2	620	600	0.0	3.8	-3.8
10	400 kV	NAUBATPUR-BALIA	2	394	300	0.0	0.6	-0.6
11	400 kV	BIHARSHARIFF-BALIA	2	764	47	6.1	0.0	6.1
12	400 kV	MOTIHARI-GORAKHPUR	2	467	322	0.0	0.8	-0.8
13	400 kV	BIHARSARIFF-SAHUPURI	2	0	0	1.4	0.0	1.4
14	220 kV	SAHUPURI-KARAMNASA	1	14	54	0.1	0.0	0.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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						17.0	16.7	0.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	2268	0	20.6	0.0	20.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1796	93	20.3	0.0	20.3
3	765 kV	JHARSUGUDA-DURG	2	5	988	0.0	15.0	-15.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	734	0.0	10.9	-10.9
5	400 kV	RANCHI-SIPAT	2	389	131	2.7	0.0	2.7
6	220 kV	BUDHIPADAR-RAIGARH	1	18	110	0.0	1.3	-1.3
7	220 kV	BUDHIPADAR-KORBA	2	136	48	0.7	0.0	0.7
ER-WR						44.3	27.2	17.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	526	0.0	4.1	-4.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1763	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3023	0.0	46.9	-46.9
4	400 kV	TALCHER-I/C	2	0	948	0.0	8.0	-8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	99.1	-99.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	412	187	4.7	0.3	4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	654	160	8.1	0.0	8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	133	8	1.8	0.0	1.8
ER-NER						14.6	0.3	14.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	1447	0	27.7	0.0	27.7
NER-NR						27.7	0.0	27.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1002	0.0	24.0	-24.0
2	HVDC	VINDHYACHAL B/B	-	0	257	0.0	5.2	-5.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	984	0.0	23.3	-23.3
4	765 kV	GWALIOR-AGRA	2	671	1631	2.0	18.5	-16.5
5	765 kV	GWALIOR-PHAGI	2	1870	1082	11.4	10.1	1.3
6	765 kV	JABALPUR-ORAI	2	513	649	0.0	8.7	-8.7
7	765 kV	GWALIOR-ORAI	1	808	175	9.7	0.3	9.4
8	765 kV	SATNA-ORAI	1	0	899	0.0	13.3	-13.3
9	765 kV	BANASKANTHA-CHITORGARH	2	950	536	6.3	1.5	4.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2376	0.0	41.9	-41.9
11	400 kV	ZERDA-KANKROLI	1	313	34	2.9	0.0	2.9
12	400 kV	ZERDA -BHINMAL	1	216	23	2.0	0.0	2.0
13	400 kV	VINDHYACHAL -RIHAND	1	963	0	19.5	0.0	19.5
14	400 kV	RAPP-SHUJALPUR	2	884	88	7.9	0.1	7.7
15	400 kV	NEEMUCH-Chittorgarh	2	806	111	7.4	0.2	7.2
16	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.5	-2.5
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	65	0	0.8	0.0	0.8
19	220 kV	MALANPUR-AURAIYA	1	51	5	0.5	0.0	0.5
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						70.4	151.4	-81.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	4004	0.0	64.6	-64.6
3	765 kV	SOLAPUR-RAICHUR	2	959	1510	4.6	4.9	-0.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2980	0.0	35.7	-35.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3019	0.0	38.1	-38.1
6	400 kV	KOLHAPUR-KUDGI	2	1332	0	22.3	0.0	22.3
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	116	2.3	0.0	2.3
WR-SR						29.2	167.3	-138.1

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)	331	-129	106	2.54	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-315	-3	-139	-3.34	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-269	-121	-204	-4.91	
	NER	132kV GELEPHU-SALAKATI	-33	-4	-23	-0.55	
	NER	132kV MOTANGA-RANGIA	-17	3	0	-0.01	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-47	-1.14	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-48	-1.16	
	ER	NEPAL IMPORT (FROM BIHAR)	-255	0	-132	-3.17	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-586	-21	-336	-8.07	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-950	-889	-932	-22.37	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1377	-1098	-1283	-30.79	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-44	0	-36	-0.86	

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	0.38	5.45	0.00	0.00	1.34	0.00	0.00	7.17
Nepal	3.32	0.00	3.50	0.00	0.00	4.07	0.00	0.00	10.89
Bangladesh	23.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.09
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.41	0.38	8.95	0.00	0.00	5.41	0.00	0.00	41.15

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67
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	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.67

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	0.67	-0.38	-5.45	0.00	0.00	-1.34	0.00	0.00	-6.50
Nepal	-3.32	0.00	-3.50	0.00	0.00	-4.07	0.00	0.00	-10.89
Bangladesh	-23.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.09
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-25.74	-0.38	-8.95	0.00	0.00	-5.41	0.00	0.00	-40.48

Date of Reporting: 07-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	50.04	197250	6466	10092	385	13473	3029	165142	1951	186773	200538	-1504
0:15	50.03	196796	6456	10308	385	13222	2950	164817	1977	186103	200115	-1513
0:30	50.03	196053	6459	10696	404	12858	2897	164024	1950	184953	199288	-1478
0:45	50.03	195009	6501	11378	420	11821	2829	163336	1949	183211	198234	-1536
1:00	50.03	193517	6484	11761	428	11041	2588	162280	1916	181328	196498	-1532
1:15	49.99	191999	6484	11994	437	10320	2490	161064	1899	179568	194688	-1500
1:30	49.94	190898	6478	11958	436	10097	2487	160633	1932	178504	194021	-1479
1:45	49.94	189488	6491	11657	438	9289	2503	160382	1940	177393	192700	-1488
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