



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: 12.04.2025

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 11.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 11-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 11.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 12-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)	45961	69400	50356	25453	2906	194076
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1174	1689	1276	496	53	4688
Hydro Gen (MU)	173	42	68	29	10	322
Wind Gen (MU)	34	197	108	-	-	339
Solar Gen (MU)*	196.62	140.59	138.35	2.99	0.61	479
Energy Shortage (MU)	0.00	0.00	0.00	0.00	0.11	0.11
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54658	73520	61130	24357	3120	207279
Time Of Maximum Demand Met	00:00	16:00	15:29	19:04	18:32	15:28

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	0.076	0.00	0.32	3.84	4.17	69.08	26.76

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	7896	0	160.8	77.5	-2.9	496	0.00
	Haryana	8057	0	141.5	110.0	-10.6	656	0.00
	Rajasthan	13755	0	278.7	67.9	-7.2	729	0.00
	Delhi	5045	0	100.2	92.3	-3.6	222	0.00
	UP	17656	0	356.8	109.7	-2.5	743	0.00
	Uttarakhand	2219	0	38.2	26.3	-0.3	195	0.00
	HP	1663	0	32.9	16.3	-0.2	496	0.00
	J&K(UT) & Ladakh(UT)	2740	0	56.5	43.8	-1.1	493	0.00
	Chandigarh	243	0	5.0	5.2	-0.2	15	0.00
WR	Railways_NR ISTS	200	0	4.0	3.8	0.2	32	0.00
	Chhattisgarh	6454	0	146.9	91.3	1.2	400	0.00
	Gujarat	24395	0	496.1	184.3	-4.7	412	0.00
	MP	14168	0	291.5	165.5	-3.9	411	0.00
	Maharashtra	29004	0	670.4	251.5	-1.0	1328	0.00
	Goa	813	0	17.7	17.0	0.1	47	0.00
	DNHDDPDCL	1323	0	30.7	30.8	-0.1	44	0.00
	AMNSIL	891	0	18.4	8.3	0.4	287	0.00
	BALCO	531	0	12.7	12.7	0.0	49	0.00
SR	RIL JAMNAGAR	197	0	4.3	4.2	0.1	0	0.00
	Andhra Pradesh	11660	0	229.0	66.8	-0.9	1003	0.00
	Telangana	12463	0	247.5	138.7	0.9	673	0.00
	Karnataka	15359	0	305.3	116.3	0.5	840	0.00
	Kerala	4896	0	95.8	80.2	-0.8	600	0.00
	Tamil Nadu	17936	0	387.4	227.3	-6.9	921	0.00
	Puducherry	474	0	10.7	10.4	-0.2	27	0.00
ER	Bihar	5528	0	90.4	82.0	1.0	456	0.00
	DVC	3156	0	66.4	-33.9	-0.6	319	0.00
	Jharkhand	2015	0	36.4	26.5	-1.7	134	0.00
	Odisha	5693	0	113.6	25.0	-0.5	478	0.00
	West Bengal	9560	0	188.0	72.8	-1.7	192	0.00
	Sikkim	95	0	1.6	1.6	0.0	38	0.00
	Railways_ER ISTS	21	0	0.2	0.1	0.1	4	0.00
NER	Arunachal Pradesh	162	0	3.0	3.0	-0.1	49	0.00
	Assam	1837	0	31.6	26.0	0.2	172	0.00
	Manipur	215	0	2.9	2.6	0.3	47	0.11
	Meghalaya	358	0	5.9	4.4	-0.1	49	0.00
	Mizoram	129	0	1.9	1.9	-0.3	33	0.00
	Nagaland	156	0	2.5	2.5	0.0	20	0.00
	Tripura	277	0	5.1	4.8	-0.6	38	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-0.5	-9.3	-22.9	-14.4
Day Peak (MW)	-264.0	-862.8	-973.0	-764.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	96.9	-236.2	240.0	-117.2	16.5	0.0
Actual(MU)	89.8	-220.1	232.2	-125.0	15.7	-7.5
O/D/U/D(MU)	-7.2	16.1	-7.8	-7.8	-0.8	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	4799	8576	4628	3398	611	22012	47
State Sector	8369	7612	6626	1747	139	24493	53
Total	13168	16188	11254	5145	750	46504	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	704	1528	618	686	8	3544	70
Lignite	23	11	44	0	0	78	2
Hydro	173	42	68	29	10	322	6
Nuclear	26	65	71	0	0	162	3
Gas, Naptha & Diesel	12	33	10	0	23	78	2
RES (Wind, Solar, Biomass & Others)	245	342	277	4	1	868	17
Total	1183	2020	1088	719	41	5053	100

Share of RES in total generation (%)	20.69	16.91	25.48	0.55	1.52	17.19
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	37.53	22.18	38.25	4.59	26.06	26.76

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.105

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207279	15:28	15
Non-Solar hr	197659	19:25	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: 12-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	917	1236	0.0	6.9	-6.9
4	765 kV	SASARAM-FATEHPUR	1	400	719	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	232	636	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	36	151	0.0	1.3	-1.3
7	400 kV	PUSAULI -ALLAHABAD	1	59	134	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	932	613	2.4	0.0	2.4
9	400 kV	PATNA-BALIA	2	434	1021	0.0	8.9	-8.9
10	400 kV	NAUBATPUR-BALIA	2	336	344	0.0	2.5	-2.5
11	400 kV	BIHARSHARIFF-BALIA	2	597	135	3.5	0.0	3.5
12	400 kV	MOTIHARI-GORAKHPUR	2	323	550	0.0	3.3	-3.3
13	400 kV	BIHARSARIFF-SAHUPURI	2	0	0	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	7	62	0.0	0.6	-0.6
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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						6.3	40.4	-34.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1734	43	22.2	0.0	22.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	577	1283	0.0	9.7	-9.7
3	765 kV	JHARSUGUDA-DURG	2	0	1122	0.0	18.4	-18.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	752	0.0	11.3	-11.3
5	400 kV	RANCHI-SIPAT	2	61	467	0.0	4.7	-4.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	175	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	58	150	0.0	1.2	-1.2
ER-WR						22.2	47.7	-25.6
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	1768	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3173	0.0	55.3	-55.3
4	400 kV	TALCHER-I/C	2	0	996	0.0	8.9	-8.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	106.1	-106.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	82	265	0.2	2.8	-2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	139	386	0.0	4.0	-4.0
3	220 kV	ALIPURDUAR-SALAKATI	2	34	75	0.0	0.6	-0.6
ER-NER						0.2	7.3	-7.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	367	0	8.9	0.0	8.9
NER-NR						8.9	0.0	8.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2288	0.0	82.4	-82.4
2	HVDC	VINDHYACHAL B/B	-	49	0	1.3	0.0	1.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1173	0.0	26.7	-26.7
4	765 kV	GWALIOR-AGRA	2	1256	956	8.5	4.0	4.5
5	765 kV	GWALIOR-PHAGI	2	2003	799	11.9	5.9	6.0
6	765 kV	JABALPUR-ORAI	2	877	570	0.0	3.4	-3.4
7	765 kV	GWALIOR-ORAI	1	746	46	10.4	0.0	10.3
8	765 kV	SATNA-ORAI	1	131	1182	0.1	15.8	-15.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1123	0	13.8	0.0	13.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2019	0.0	27.4	-27.4
11	400 kV	ZERDA-KANKROLI	1	363	0	4.5	0.0	4.5
12	400 kV	ZERDA -BHINMAL	1	251	0	3.1	0.0	3.1
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	20.1	0.0	20.1
14	400 kV	RAPP-SHUJALPUR	2	967	31	9.5	0.0	9.5
15	400 kV	NEEMUCH-Chittorgarh	2	939	13	9.1	0.0	9.1
16	220 kV	BHANPURA-RANPUR	1	0	159	0.0	2.7	-2.7
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	95	0	0.9	0.0	0.9
19	220 kV	MALANPUR-AURAIYA	1	85	0	1.2	0.0	1.2
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						94.5	170.4	-75.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6020	0.0	90.9	-90.9
3	765 kV	SOLAPUR-RAICHUR	2	801	1438	3.8	5.6	-1.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2710	0.0	38.2	-38.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2803	0.0	41.8	-41.8
6	400 kV	KOLHAPUR-KUDGI	2	1557	0	25.3	0.0	25.3
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	122	2.4	0.0	2.4
WR-SR						31.4	200.4	-169.0

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)	374	35	210	5.05	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-286	13	-95	-2.27	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-209	0	-133	-3.19	
	NER	132kV GELEPHU-SALAKATI	-14	7	-5	-0.12	
	NER	132kV MOTANGA-RANGIA	-34	20	0	-0.01	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-66	0	-41	-0.99	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-35	-0.83	
	ER	NEPAL IMPORT (FROM BIHAR)	-339	0	-129	-3.10	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-524	0	-183	-4.39	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-870	-917	-22.01	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-765	-410	-602	-14.44	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-44	0	-37	-0.88	

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	6.47	0.00	0.00	0.00	0.00	0.00	6.86	
Nepal	3.34	0.00	1.37	0.00	0.00	0.00	3.89	0.00	0.00	8.60
Bangladesh	22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.80
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.14	0.39	7.84	0.00	0.00	0.00	3.89	0.00	0.00	38.26

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.96
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	4.96	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.96

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	4.96	-0.39	-6.47	0.00	0.00	0.00	0.00	0.00	-1.90
Nepal	-3.34	0.00	-1.37	0.00	0.00	-3.89	0.00	0.00	-8.60
Bangladesh	-22.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.80
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.18	-0.39	-7.84	0.00	0.00	-3.89	0.00	0.00	-33.30

Date of Reporting: 12-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 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	50.06	192338	6232	16383	348	15094	4306	151179	2008	175607	195550	-725
0:15	50.01	191494	6257	16318	360	13828	4440	151535	2013	174816	194751	-1010
0:30	50.06	190335	6251	16618	385	13805	4423	149896	2057	173332	193435	-1068
0:45	49.96	188613	6257	16602	396	13762	4439	148525	2044	171615	192025	-1032
1:00	50.01	187517	6273	16414	404	13674	4414	148044	2042	170699	191265	-1073
1:15	49.91	186277	6212	16445	421	13412	4363	147371	2089	169411	190313	-1087
1:30	49.96	184991	6232	16049	367	13546	4333	146721	2027	168575	189275	-1050
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