



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: 29.04.2025

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 28.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 28-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 28.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

Report for previous day

Date of Reporting: 29-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)	68643	70222	53377	23916	2590	218748
Peak Shortage (MW)	13	0	0	0	0	13
Energy Met (MU)	1482	1683	1274	541	47	5027
Hydro Gen (MU)	217	49	78	25	10	380
Wind Gen (MU)	12	141	21	-	-	175
Solar Gen (MU)*	211.04	146.72	142.48	3.80	0.44	504
Energy Shortage (MU)	1.55	0.00	0.00	0.04	0.00	1.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	69865	76846	62298	25397	2574	225997
Time Of Maximum Demand Met	22:16	14:47	15:24	00:00	19:32	15:19

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	0.031	0.00	0.29	4.59	4.88	78.73	16.39

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	10822	0	205.1	92.8	-1.0	533	0.00
	Haryana	9577	188	204.3	148.6	1.1	599	1.32
	Rajasthan	15465	0	319.5	109.8	-2.5	658	0.00
	Delhi	5890	0	122.3	106.9	-2.5	228	0.00
	UP	24588	0	479.8	157.5	-1.2	610	0.15
	Uttarakhand	2339	0	48.6	30.0	0.2	137	0.08
	HP	1709	0	36.5	12.1	-0.3	363	0.00
	J&K(UT) & Ladakh(UT)	2750	0	55.3	37.4	-1.0	405	0.00
	Chandigarh	315	0	6.2	6.1	0.0	23	0.00
	Railways NR ISTS	214	0	4.3	3.9	0.3	54	0.00
WR	Chhattisgarh	5423	0	121.5	63.9	-1.4	654	0.00
	Gujarat	26421	0	518.8	176.4	-3.5	1447	0.00
	MP	13519	0	291.8	173.2	-2.8	609	0.00
	Maharashtra	29718	0	668.9	248.6	-3.8	539	0.00
	Goa	809	0	17.4	16.9	0.3	79	0.00
	DNHDDPDCL	1359	0	30.8	30.8	0.0	84	0.00
	AMNSIL	880	0	19.8	9.1	0.4	400	0.00
	BALCO	532	0	12.3	12.5	-0.2	101	0.00
	RIL JAMNAGAR	159	0	1.6	1.6	0.0	0	0.00
	Andhra Pradesh	12434	0	242.5	79.7	-0.3	532	0.00
SR	Telangana	10943	0	224.8	99.2	-1.8	404	0.00
	Karnataka	14921	0	283.2	108.3	0.1	1362	0.00
	Kerala	4461	0	95.7	75.3	-0.8	202	0.00
	Tamil Nadu	19245	0	416.5	289.6	-2.3	493	0.00
	Puducherry	544	0	10.9	11.1	-0.2	53	0.00
	Bihar	5553	0	103.7	95.5	-2.8	419	0.04
ER	DVC	3534	0	69.9	32.0	-1.1	514	0.00
	Jharkhand	1970	0	44.1	34.8	0.7	171	0.00
	Odisha	5799	0	116.1	33.1	-2.3	451	0.00
	West Bengal	10290	0	205.8	82.2	-4.5	202	0.00
	Sikkim	111	0	1.7	1.5	0.2	37	0.00
	Railways ER ISTS	15	0	0.2	0.2	0.0	0	0.00
NER	Arunachal Pradesh	166	0	2.8	2.7	0.0	54	0.00
	Assam	1579	0	28.0	22.9	-0.7	225	0.00
	Manipur	200	0	2.8	2.8	0.0	68	0.00
	Meghalaya	285	0	4.6	2.6	-0.5	95	0.00
	Mizoram	124	0	1.8	1.9	-0.3	63	0.00
	Nagaland	137	0	2.3	2.4	-0.2	89	0.00
	Tripura	293	0	4.7	3.8	0.0	129	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.5	-8.9	-22.7	-30.3
Day Peak (MW)	234.0	-660.5	-989.0	-1583.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	173.7	-312.0	240.0	-107.7	6.1	0.0
Actual(MU)	164.4	-298.5	229.7	-107.9	4.0	-8.3
O/D/U/D(MU)	-9.3	13.6	-10.3	-0.2	-2.2	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	1642	6534	3738	2740	360	15013	43
State Sector	4984	6233	6076	2334	169	19796	57
Total	6626	12767	9814	5074	529	34809	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	870	1644	724	713	14	3965	73
Lignite	24	15	44	0	0	83	2
Hydro	217	49	78	25	10	380	7
Nuclear	33	65	71	0	0	170	3
Gas, Naptha & Diesel	34	51	10	0	23	118	2
RES (Wind, Solar, Biomass & Others)	234	292	192	5	0	723	13
Total	1413	2116	1119	743	48	5439	100
Share of RES in total generation (%)	16.55	13.79	17.13	0.69	0.95	13.29	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.26	19.22	30.42	4.10	22.53	23.39	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.048
Based on State Max Demands	1.084

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	225997	15:19	32
Non-Solar hr	220717	19:38	83

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: 29-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	867	1005	0.0	5.3	-5.3
4	765 kV	SASARAM-FATEHPUR	1	322	533	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	105	602	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	161	0.0	1.8	-1.8
7	400 kV	PUSAULI-ALLAHABAD	1	65	90	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	494	541	0.0	2.1	-2.1
9	400 kV	PATNA-BALIA-DURG	2	284	767	0.0	8.3	-8.3
10	400 kV	NAUBATPUR-BALIA	2	138	241	0.0	2.2	-2.2
11	400 kV	BIHARSHARIFF-BALIA	2	478	202	2.2	0.0	2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	160	458	0.0	4.8	-4.8
13	400 kV	BIHARSARIFF-SAHUPURI	2	171	173	0.0	1.1	-1.1
14	220 kV	SAHUPURI-KARAMANASA	1	15	52	0.2	0.0	0.2
15	132 kV	NAGARUNTARI-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						2.3	39.8	-37.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1068	720	2.4	0.0	2.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1088	579	7.0	0.0	7.0
3	765 kV	JHARSUGUDA-DURG	2	0	1061	0.0	17.9	-17.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	584	0.0	8.8	-8.8
5	400 kV	RANCHI-SIPAT	2	225	267	0.0	1.3	-1.3
6	220 kV	BIJHPUR-RAIGARH	1	22	109	0.0	1.6	-1.6
7	220 kV	BIJHPUR-KORBA	2	146	61	0.3	0.0	0.3
ER-WR						9.7	29.6	-19.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	513	0	7.1	0.0	7.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1764	0.0	48.1	-48.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3335	0.0	61.4	-61.4
4	400 kV	TALCHER-J/C	2	0	959	0.0	6.4	-6.4
5	220 kV	BALIMELA-UPPER-SILERU	1	0	0	0.0	0.0	0.0
ER-SR						7.1	109.5	-102.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	337	31	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	556	73	4.1	0.0	4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	110	0	1.1	0.0	1.1
ER-NER						8.2	0.0	8.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	696	0	12.1	0.0	12.1
NER-NR						12.1	0.0	12.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3526	0.0	68.8	-68.8
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1915	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	367	1639	0.9	17.0	-16.1
5	765 kV	GWALIOR-PHAGI	2	1331	1484	7.1	14.6	-7.5
6	765 kV	JABALPUR-ORAI	2	404	882	0.0	14.2	-14.2
7	765 kV	GWALIOR-ORAI	1	712	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	1051	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITTOORGARH	2	1003	527	6.4	1.9	4.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2055	0.0	35.4	-35.4
11	400 kV	ZERDA-KANKROLI	1	345	58	2.9	0.1	2.8
12	400 kV	ZERDA-BHUNMAL	1	239	40	2.0	0.1	1.9
13	400 kV	VINDHYACHAL-RIHAND	1	988	0	20.2	0.0	20.2
14	400 kV	RAPP-SHUJALPUR	2	538	260	3.9	2.0	1.9
15	400 kV	NEEMUCH-Chittorgarh	2	861	136	7.1	0.6	6.5
16	220 kV	BHANPURA-RANPUR	1	0	77	0.0	1.3	-1.3
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEJGAON-AURAIYA	1	108	0	1.5	0.0	1.5
19	220 kV	MALANPUR-AURAIYA	1	88	0	1.0	0.0	1.0
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						65.9	211.4	-145.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	16.5	-16.5
2	HVDC	RAIGARH-PUGAULUR	2	0	6017	0.0	83.5	-83.5
3	765 kV	SOLAPUR-RAICHUR	2	237	1563	2.4	11.3	-10.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2539	0.0	36.0	-36.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2968	0.0	45.3	-45.3
6	400 kV	KOLHAPUR-KUDGI	2	1379	0	17.6	0.0	17.6
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	XELDDEM-AMBEWADI	1	0	123	2.3	0.0	2.3
WR-SR						20.3	192.6	-172.3
INTERNATIONAL EXCHANGES								
State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Import(+ve)/Export(-ve) Energy Exchange (MU)		
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 I.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	354	168	258	6.18		
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-134	81	-19	-0.45		
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-299	-129	-193	-4.64		
	NER	132kV GELEPHU-SALAKATI	16	-12	0	0.00		
	NER	132kV MOTANGA-RANGIA	39	4	18	0.43		
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-36	-0.87		
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-42	-1.02		
	ER	NEPAL IMPORT (FROM BIHAR)	-227	0	-101	-2.43		
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-446	12	-192	-4.60		
	ER	BHERAMARA B/B HVDC (B'DESH)	-945	-801	-915	-21.95		
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1583	-854	-1261	-30.27		
	NER	132kV COMILLA-SURAJMANTI NAGAR 1&2	-44	0	-33	-0.78		

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-Apr-2025

Export From India (in MU)

Export From India (in MFC)		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	2.53	0.00	4.93	0.00	0.00	1.40	0.00	0.00	8.86
Bangladesh	22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	25.23	0.40	4.93	0.00	0.00	1.40	0.00	0.00	31.96

Import by India(in MU)

Import by India (in M\$)									
Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.64
Nepal	0.00	0.00	0.00	0.00	0.00	0.56	0.00	0.00	0.56
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	1.64	0.00	0.00	0.00	0.00	0.56	0.00	0.00	2.20

Net from India(in MU)

-ve : Export / +ve : Import

Net from India (in M€)			T-GNA						-ve : Export / +ve : Import
Country	GNA (ISGS/PPA)	BILATERAL TOTAL	COLLECTIVE						TOTAL
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.64	-0.40	0.00	0.00	0.00	0.00	0.00	0.00	1.24
Nepal	-2.53	0.00	-4.93	0.00	0.00	-0.84	0.00	0.00	-8.30
Bangladesh	-22.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-22.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-23.59	-0.40	-4.93	0.00	0.00	-0.84	0.00	0.00	-29.76

15 Min (INSTANTANEOUS) ALL INDIA GRID FREQUENCY, GENERATION & DEMAND MET (SCADA DATA)													
TIME	FREQUENCY (Hz)	DEMAND MET	NUCLEAR	WIND	SOLAR	HYDRO**	GAS	THERMAL	OTHERS*	NET DEMAND	TOTAL GENERATION (MW)	NET	
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I=A-(C+D))		(J=I+C+D+E+F+G+H)	(K)
0:00	50.09	208623	6300	8847	78	18310	4527	169845	1908	199698	209815	-1306	
0:15	50.09	207515	6291	8665	94	16565	4712	170647	1840	198756	208814	-1172	
0:30	50.04	206277	6328	8621	88	15898	4581	170335	1823	197568	207674	-1145	
0:45	50.04	204869	6334	8236	86	15485	4497	169704	1865	196547	206207	-1182	
1:00	49.99	202599	6333	8021	80	15061	3951	168732	1843	194498	204021	-1135	
1:15	49.99	201504	6316	7628	83	14493	3919	168655	1868	193793	202962	-1092	
1:30	49.99	199474	6308	7472	87	13701	3936	167489	1848	191915	200841	-1128	
1:45	49.94	198111	6312	7327	92	13267	3934	166615	1842	190692	199389	-1173	
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