



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: 28.04.2025

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 27.04.2025.

महोदय/Sir,

आईईजीसी-2023 की धारा स.-38(1) के प्रावधान के अनुसार, दिनांक 27-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 27.04.2025, is available at the NLDC website.

धन्यवाद,
Thanks

ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 28-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)	63139	64771	46355	24792	2974	202031
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1425	1627	1228	574	51	4905
Hydro Gen (MU)	200	32	72	30	11	345
Wind Gen (MU)	6	110	49	-	-	164
Solar Gen (MU)*	211.30	143.87	128.88	1.90	1.09	487
Energy Shortage (MU)	0.00	0.00	0.00	0.23	0.00	0.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	66451	72459	57430	26709	2979	218771
Time Of Maximum Demand Met	00:01	15:50	14:48	00:10	18:54	00:00

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	0.00	6.06	6.06	73.13	20.81

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	10360	0	188.7	82.3	-0.9	809	0.00
	Haryana	9704	0	188.9	132.6	0.1	526	0.00
	Rajasthan	14189	0	311.5	105.7	-1.6	572	0.00
	Delhi	5618	0	112.9	98.1	-2.7	184	0.00
	UP	23648	0	477.2	151.9	-0.3	715	0.00
	Uttarakhand	2108	0	45.6	27.0	0.0	260	0.00
	HP	1594	0	34.4	11.6	-0.5	340	0.00
	J&K(UT) & Ladakh(UT)	2760	0	56.5	39.9	-0.7	235	0.00
	Chandigarh	271	0	5.3	5.3	0.0	16	0.00
	Railways -NR ISTS	200	0	4.3	3.9	0.4	50	0.00
WR	Chhattisgarh	6239	0	132.4	78.0	-2.7	372	0.00
	Gujarat	24777	0	499.0	174.4	-0.4	752	0.00
	MP	12903	0	277.7	169.7	-4.4	858	0.00
	Maharashtra	28028	0	638.0	240.0	0.4	779	0.00
	Goa	771	0	16.0	15.8	0.0	64	0.00
	DNHDDPDCL	1318	0	29.4	29.7	-0.3	56	0.00
	AMNSIL	895	0	20.1	9.4	0.2	264	0.00
	BALCO	531	0	12.6	12.7	-0.1	118	0.00
	RIL JAMNAGAR	159	0	1.7	1.7	0.0	0	0.00
	Andhra Pradesh	12375	0	242.9	78.0	-1.5	964	0.00
SR	Telangana	10310	0	212.8	82.5	0.0	653	0.00
	Karnataka	14070	0	274.2	98.6	-1.0	760	0.00
	Kerala	4785	0	90.8	73.4	-0.8	240	0.00
	Tamil Nadu	17951	0	396.5	263.5	-2.2	610	0.00
	Puducherry	513	0	10.8	11.2	-0.4	22	0.00
	Bihar	7140	0	131.7	121.6	0.1	675	0.23
	DVC	3544	0	71.2	35.7	-0.7	565	0.00
ER	Jharkhand	1922	0	43.0	39.5	-3.8	122	0.00
	Odisha	5757	0	118.4	39.1	-2.2	504	0.00
	West Bengal	10424	0	208.0	83.8	-2.1	456	0.00
	Sikkim	89	0	1.5	1.2	0.3	32	0.00
	Railways -ER ISTS	18	0	0.3	0.2	0.1	1	0.00
	Assam	165	0	2.8	2.8	-0.2	108	0.00
	Manipur	1797	0	31.0	24.5	-0.1	187	0.00
NER	Mizoram	228	0	2.8	2.8	0.0	51	0.00
	Meghalaya	285	0	4.3	1.6	-0.3	111	0.00
	Nagaland	114	0	2.0	1.8	-0.1	21	0.00
	Nagaland	176	0	2.5	2.5	-0.1	27	0.00
	Tripura	315	0	5.7	4.8	0.1	84	0.00
	Tripura	315	0	5.7	4.8	0.1	84	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	1.2	-14.3	-23.3	-32.4
Day Peak (MW)	220.0	-909.8	-988.0	-1394.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	158.0	-288.1	193.6	-73.7	10.2	0.0
Actual(MU)	145.4	-260.5	175.3	-76.7	9.2	-7.4
O/D/U/D(MU)	-12.7	27.6	-18.3	-3.0	-1.0	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	3444	7722	3528	2983	360	18037	47
State Sector	5399	7510	5276	1719	169	20073	53
Total	8843	15232	8804	4702	529	38110	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	856	1607	703	709	10	3886	73
Lignite	33	16	46	0	0	95	2
Hydro	200	32	72	30	11	345	7
Nuclear	33	65	71	0	0	169	3
Gas, Naptha & Diesel	26	37	10	0	23	97	2
RES (Wind, Solar, Biomass & Others)	228	257	214	3	1	703	13
Total	1376	2015	1116	742	46	5295	100
Share of RES in total generation (%)	16.55	12.77	19.14	0.45	2.37	13.29	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.52	17.59	31.93	3.64	26.58	22.90	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.088

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210801	14:55	0
Non-Solar hr	218771	0:00	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: 28-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	1122	932	0.0	1.8	-1.8
4	765 kV	SASARAM-FATEHPUR	1	465	482	0.0	2.1	-2.1
5	765 kV	GAYA-BALIA	1	113	644	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	170	0.0	1.8	-1.8
7	400 kV	PUSAULI-ALLAHABAD	1	82	90	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	874	379	2.8	0.0	2.8
9	400 kV	PATNA-BALIA	2	471	796	0.0	6.9	-6.9
10	400 kV	NAUBATPUR-BALIA	2	206	248	0.0	1.5	-1.5
11	400 kV	BIHARSHARIFF-BALIA	2	721	89	5.7	0.0	5.7
12	400 kV	MOTIHARI-GORAKHPUR	2	355	432	0.0	3.0	-3.0
13	400 kV	BIHARSARIFF-SAHUPURI	2	218	162	0.0	0.3	-0.3
14	220 kV	SAHUPURI-KARMANASA	1	13	53	0.4	0.0	0.4
15	132 kV	NAGAR UNTARI-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						8.9	27.9	-19.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	891	375	3.9	0.0	3.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1322	53	11.4	0.0	11.4
3	765 kV	JHARSUGUDA-DURG	2	0	992	0.0	17.2	-17.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	651	0.0	9.5	-9.5
5	400 kV	RANCHI-SIPAT	2	299	163	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	30	104	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	128	76	0.0	0.6	-0.6
ER-WR						16.5	28.5	-12.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	405	0	4.2	0.0	4.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1761	0.0	46.2	-46.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	3021	0.0	53.8	-53.8
4	400 kV	TALCHER-I/C	2	339	993	0.0	5.7	-5.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						4.2	100.0	-95.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	365	207	3.2	0.6	2.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	528	298	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	127	48	1.2	0.0	1.2
ER-NER						8.0	0.6	7.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	701	0	16.7	0.0	16.7
NER-NR						16.7	0.0	16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2518	0.0	59.9	-59.9
2	HVDC	VINDHYACHAL B/B	-	98	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1171	0.0	29.1	-29.1
4	765 kV	GWALIOR-AGRA	2	401	1935	1.6	21.5	-19.9
5	765 kV	GWALIOR-PHAGI	2	1264	1685	7.4	18.2	-10.8
6	765 kV	JABALPUR-ORAI	2	370	941	0.0	17.8	-17.8
7	765 kV	GWALIOR-ORAI	1	917	3	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1033	0.0	16.2	-16.2
9	765 kV	BANASKANTHA-CHITTOGARH	2	1108	798	8.2	2.9	5.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2656	0.0	44.6	-44.6
11	400 kV	ZERDA-KANKROLI	1	336	133	3.1	0.4	2.8
12	400 kV	ZERDA -BHINMAL	1	232	92	2.2	0.2	1.9
13	400 kV	VINDHYACHAL -RIHAND	1	976	0	20.7	0.0	20.7
14	400 kV	RAPP-SHUJALPUR	2	561	367	4.2	3.0	1.2
15	400 kV	NEEMUCH-Chittoargarh	2	837	309	6.8	1.8	5.0
16	220 kV	BHANPURA-RANPUR	1	0	74	0.0	1.2	-1.2
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
18	220 kV	MEHGAON-AURAIYA	1	69	0	0.7	0.0	0.7
19	220 kV	MALANPUR-AURAIYA	1	51	13	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						69.6	218.8	-149.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	8.5	-8.5
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	75.9	-75.9
3	765 kV	SOLAPUR-RAICHUR	2	995	1049	3.9	4.6	-0.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2207	0.0	27.7	-27.7
5	765 kV	WARDHA-WARANGAL(NEW)	2	0	2646	0.0	36.4	-36.4
6	400 kV	KOLHAPUR-KUDGI	2	1524	0	24.8	0.0	24.8
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	NELDEMBEAWADI	1	0	111	2.2	0.0	2.2
WR-SR						30.9	153.1	-122.2
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)	355	56	263	6.32	
	ER		400kV TALA-BINAGURI 1.2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-140	27	-53	-1.28	
	ER		220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-197	-135	-164	-3.94	
	NER		132kV GELEPHU-SALAKATI	-31	3	-8	-0.20	
	NER		132kV MOTANGA-RANGIA	38	-8	13	0.30	
NEPAL	NR		NEPAL IMPORT (FROM UP)	-74	0	-45	-1.07	
	NR		132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-52	-1.26	
	ER		NEPAL IMPORT (FROM BIHAR)	-286	-18	-157	-3.78	
	ER		400kV DHALKEBAR-MUZAFFARPUR 1&2	-624	12	-340	-8.17	
BANGLADESH	ER		BHERAMARA B/B HVDC (B'DESH)	-942	-893	-932	-22.36	
	ER (Isolated from Indian Grid)		400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1394	-1245	-1349	-32.39	
	NER		132kV COMILLA-SURAJMANI NAGAR 1&2	-46	0	-39	-0.94	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 28-Apr-2025

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	0.00	0.00	0.00	0.17	0.00	0.00	0.57
Nepal	3.36	0.00	3.36	0.00	0.00	4.51	0.00	0.00	11.23
Bangladesh	23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.20
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	26.56	0.40	3.36	0.00	0.00	4.68	0.00	0.00	35.00

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47
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	1.47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.47

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	1.47	-0.40	0.00	0.00	0.00	-0.17	0.00	0.00	0.90
Nepal	-3.36	0.00	-3.36	0.00	0.00	-4.51	0.00	0.00	-11.23
Bangladesh	-23.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-23.20
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-25.09	-0.40	-3.36	0.00	0.00	-4.68	0.00	0.00	-33.53

Date of Reporting: 28-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)
		(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	218771	6230	8885	47	19801	9562	174678	1976	209839	221179	-1199
0:15	50.04	218332	6211	9037	46	19592	8564	175511	1888	209249	220849	-1220
0:30	50.04	217616	6205	9141	41	19550	8253	174958	1932	208434	220080	-1208
0:45	50.04	215913	6214	9233	29	19540	7455	173885	1911	206651	218267	-1217
1:00	50.04	214065	6260	9200	22	19163	6701	172878	1901	204843	216125	-1247
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