



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: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 26<sup>th</sup> April 2024

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, शहीद 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 25.04.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-अप्रैल-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 25<sup>th</sup> April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-Apr-2024

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)	62731	65747	54098	28029	3088	213693
Peak Shortage (MW)	207	0	0	0	0	207
Energy Met (MU)	1347	1602	1355	630	57	4991
Hydro Gen (MU)	175	51	57	24	11	317
Wind Gen (MU)	24	80	38	-	-	142
Solar Gen (MU)*	169.53	99.23	137.07	3.48	1.33	411
Energy Shortage (MU)	0.46	0.00	0.00	0.93	0.00	1.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63130	72993	64128	29913	3206	222006
Time Of Maximum Demand Met	22:40	15:01	15:18	22:48	19:28	22:40

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	0.033	0.00	0.00	4.13	4.13	82.62	13.25

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	9383	0	167.9	51.2	-0.6	282	0.00
	Haryana	9064	0	171.4	100.3	-0.7	239	0.00
	Rajasthan	13969	0	292.0	69.1	-0.3	395	0.00
	Delhi	5074	0	105.1	86.8	0.5	196	0.00
	UP	23742	0	475.8	205.5	0.4	429	0.00
	Uttarakhand	2270	0	46.7	25.7	-0.4	163	0.15
	HP	1703	0	32.7	16.5	0.3	167	0.00
	J&K(UT) & Ladakh(UT)	2359	0	46.4	32.2	-0.2	77	0.31
	Chandigarh	241	0	4.9	4.7	0.2	41	0.00
Railways NR ISTS	198	0	3.8	3.7	0.1	68	0.00	
WR	Chhattisgarh	6020	0	134.7	87.1	0.5	391	0.00
	Gujarat	23074	0	485.0	170.4	-0.3	1147	0.00
	MP	12767	0	284.6	162.5	-4.4	867	0.00
	Maharashtra	27775	0	622.6	197.3	-5.8	871	0.00
	Goa	743	0	16.1	16.1	0.0	0	0.00
	DNHDDPDCL	1284	0	29.5	29.4	0.1	67	0.00
	AMNSIL	848	0	16.5	6.6	0.3	284	0.00
	BALCO	523	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	12957	0	249.8	87.3	-1.6	480	0.00
	Telangana	10854	0	225.6	99.1	0.0	534	0.00
	Karnataka	16440	0	322.6	149.7	1.9	1100	0.00
	Kerala	5559	0	109.6	87.1	1.6	403	0.00
	Tamil Nadu	20076	0	436.3	287.7	-1.0	486	0.00
	Puducherry	494	0	11.0	10.6	-0.2	23	0.00
ER	Bihar	6551	0	129.5	118.9	0.3	562	0.93
	DVC	3419	0	74.2	-43.9	-0.6	301	0.00
	Jharkhand	2105	0	45.6	31.3	0.6	215	0.00
	Odisha	6165	0	128.4	51.5	0.5	294	0.00
	West Bengal	11918	0	251.2	103.7	-1.5	132	0.00
	Sikkim	95	0	1.6	1.6	0.0	43	0.00
Railways ER ISTS	16	0	0.1	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	152	0	2.4	2.6	-0.3	71	0.00
	Assam	1995	0	36.4	29.2	0.7	132	0.00
	Manipur	144	0	2.1	1.9	0.2	37	0.00
	Meghalaya	380	0	5.4	4.0	-0.3	54	0.00
	Mizoram	123	0	2.0	1.8	-0.1	22	0.00
	Nagaland	156	0	2.1	2.3	-0.2	21	0.00
Tripura	356	0	6.8	6.2	0.8	115	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.0	-12.3	-23.5	-31.7
Day Peak (MW)	-223.0	-732.9	-1087.0	-1514.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	132.7	-333.6	242.3	-52.3	11.0	0.0
Actual(MU)	127.5	-349.3	259.0	-57.7	12.4	-8.0
O/D/U/D(MU)	-5.1	-15.6	16.7	-5.4	1.4	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2660	4600	2768	2626	201	12855	43
State Sector	5396	7127	2455	1704	129	16810	57
Total	8055	11727	5223	4330	330	29664	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	834	1714	776	753	15	4091	75
Lignite	25	14	61	0	0	101	2
Hydro	175	51	57	24	11	317	6
Nuclear	25	50	76	0	0	151	3
Gas, Naptha & Diesel	46	83	7	0	25	160	3
RES (Wind, Solar, Biomass & Others)	205	181	207	5	1	600	11
Total	1310	2093	1184	782	52	5421	100

Share of RES in total generation (%)	15.67	8.64	17.51	0.62	2.61	11.06
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.95	13.45	28.72	3.71	23.37	19.70

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.051
Based on State Max Demands	1.085

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217035	15:58	0
Non-Solar hr	222006	22:40	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 -> 07:00 to 17:00hrs 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: 26-Apr-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	662	441	0.8	0.0	0.8
4	765 kV	SASARAM-FATEHPUR	1	157	353	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	28	500	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	97	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	51	34	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	626	208	4.5	0.0	4.5
9	400 kV	PATNA-BALIA	2	274	658	0.0	7.2	-7.2
10	400 kV	NAUBATPUR-BALIA	2	7	199	0.0	1.8	-1.8
11	400 kV	BIHARSHARIFF-BALIA	2	492	0	6.3	0.0	6.3
12	400 kV	MOTIHARI-GORAKHPUR	2	171	346	0.0	3.0	-3.0
13	400 kV	BIHARSHARIFF-VARANASI	2	318	244	0.5	0.0	0.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	63	0.0	0.9	-0.9
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.8	0.0	0.8
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>13.0</b>	<b>26.0</b>	<b>-13.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1563	0	17.2	0.0	17.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1194	0	14.1	0.0	14.1
3	765 kV	JHARSUGUDA-DURG	2	0	732	0.0	12.3	-12.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	596	0.0	9.9	-9.9
5	400 kV	RANCHI-SIPAT	2	184	97	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	69	105	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	75	52	0.1	0.0	0.1
<b>ER-WR</b>						<b>32.5</b>	<b>22.9</b>	<b>9.6</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	678	0.0	14.4	-14.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1490	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2721	0.0	52.4	-52.4
4	400 kV	TALCHER-I/C	2	419	0	8.0	0.0	8.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>102.9</b>	<b>-102.9</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	220	218	2.1	1.0	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	430	230	3.4	0.0	3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	43	50	0.2	0.0	0.2
<b>ER-NER</b>						<b>5.7</b>	<b>1.0</b>	<b>4.7</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	657	0	16.1	0.0	16.1
<b>NER-NR</b>						<b>16.1</b>	<b>0.0</b>	<b>16.1</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3105	0.0	72.7	-72.7
2	HVDC	VINDHYACHAL B/B	-	491	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1907	0.0	36.3	-36.3
4	765 kV	GWALIOR-AGRA	2	161	1512	0.2	19.7	-19.5
5	765 kV	GWALIOR-PHAGI	2	1115	1301	5.4	10.6	-5.1
6	765 kV	JABALPUR-ORAI	2	381	657	0.0	11.0	-11.0
7	765 kV	GWALIOR-ORAI	1	529	0	7.1	0.0	7.1
8	765 kV	SATNA-ORAI	1	0	998	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITTOGARH	2	1994	103	18.9	0.1	18.9
10	765 kV	VINDHYACHAL-VARANASI	2	0	2863	0.0	51.9	-51.9
11	400 kV	ZERDA-KANKROLI	1	398	0	4.4	0.0	4.4
12	400 kV	ZERDA-BHINMAL	1	397	0	4.8	0.0	4.8
13	400 kV	VINDHYACHAL-RIHAND	1	964	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	810	176	6.0	0.5	5.5
15	400 kV	NEEMUCH-Chittorgarh	2	991	105	7.8	0.1	7.6
16	220 kV	BHANPURA-RANPUR	1	0	152	0.0	2.4	-2.4
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	101	0	1.4	0.0	1.4
19	220 kV	MALANPUR-AURAIYA	1	77	0	0.9	0.0	0.9
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
<b>WR-NR</b>						<b>90.8</b>	<b>225.5</b>	<b>-134.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	21.9	-21.9
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	83.6	-83.6
3	765 kV	SOLAPUR-RAICHUR	2	0	1657	0.0	24.6	-24.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2275	0.0	38.4	-38.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2936	0.0	51.4	-51.4
6	400 kV	KOLHAPUR-KUDGI	2	888	0	14.1	0.0	14.1
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	76	0.0	1.5	-1.5
9	220 kV	XELDEM-AMBEWADI	1	0	115	2.3	0.0	2.3
<b>WR-SR</b>						<b>16.4</b>	<b>221.4</b>	<b>-205.1</b>

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)	147	-103	37	0.89	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-253	70	-66	-1.59	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-187	-73	-130	-3.11	
	NER	132kV GELEPHU-SALAKATI	7	-7	2	0.05	
	NER	132kV MOTANGA-RANGIA	44	25	33	0.80	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-79	0	-52	-1.25	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-62	-1.49	
	ER	NEPAL IMPORT (FROM BIHAR)	-205	-1	-14	-0.34	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-528	-54	-382	-9.17	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-949	-650	-861	-20.67	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1514	-999	-1323	-31.74	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-119	-2.86	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 26-Apr-2024

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	0.00	2.44	0.00	0.00	1.59	0.00	0.00	4.03
Nepal	0.29	0.00	6.36	0.00	0.00	0.00	0.00	0.00	6.65
Bangladesh	20.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.90	0.00	8.80	0.00	0.00	1.59	0.00	0.00	31.29

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34
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	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34

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	0.34	0.00	-2.44	0.00	0.00	-1.59	0.00	0.00	-3.69
Nepal	-0.29	0.00	-6.36	0.00	0.00	0.00	0.00	0.00	-6.65
Bangladesh	-20.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.56	0.00	-8.80	0.00	0.00	-1.59	0.00	0.00	-30.95