



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: 27<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 26.04.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26<sup>th</sup> April 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	58090	63194	53203	28371	2838	205696
Peak Shortage (MW)	50	0	0	0	0	50
Energy Met (MU)	1346	1593	1343	656	57	4995
Hydro Gen (MU)	178	62	47	26	10	323
Wind Gen (MU)	41	100	33	-	-	174
Solar Gen (MU)*	174.89	86.51	138.21	3.61	1.31	405
Energy Shortage (MU)	0.40	0.00	0.00	0.46	0.00	0.86
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60232	71129	62913	30772	3125	217029
Time Of Maximum Demand Met	00:01	15:30	15:38	23:40	18:36	22:44

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	0.025	0.00	0.01	2.18	2.19	80.62	17.20

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	9821	0	170.1	53.9	2.1	500	0.00
	Haryana	8856	0	173.6	101.0	-1.1	176	0.00
	Rajasthan	13501	0	280.3	42.1	-4.8	430	0.00
	Delhi	5333	0	108.8	90.6	0.4	223	0.00
	UP	22904	0	477.3	207.6	0.2	454	0.00
	Uttarakhand	2357	0	48.1	26.2	1.6	227	0.24
	HP	1696	0	32.9	16.1	-0.2	65	0.16
	J&K(UT) & Ladakh(UT)	2288	0	46.2	33.3	0.0	270	0.00
	Chandigarh	258	0	5.2	4.9	0.3	40	0.00
Railways NR ISTS	205	0	4.1	3.8	0.3	73	0.00	
WR	Chhattisgarh	6012	0	137.4	82.4	0.1	392	0.00
	Gujarat	22855	0	483.2	167.7	-0.7	981	0.00
	MP	12405	0	274.1	159.1	-0.5	1042	0.00
	Maharashtra	27183	0	620.0	189.5	-4.1	719	0.00
	Goa	719	0	16.2	16.3	-0.3	0	0.00
	DNHDDPDCL	1282	0	29.6	29.6	0.0	47	0.00
	AMNSIL	865	0	19.5	8.8	0.1	263	0.00
	BALCO	523	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	12929	0	252.1	82.5	-1.6	516	0.00
	Telangana	11000	0	228.2	93.2	1.1	844	0.00
	Karnataka	15251	0	304.7	144.7	-2.5	1074	0.00
	Kerala	5608	0	104.8	83.3	1.0	372	0.00
	Tamil Nadu	20583	0	442.3	287.8	-1.3	553	0.00
	Puducherry	490	0	11.0	10.7	-0.3	21	0.00
ER	Bihar	6700	0	139.5	129.1	4.5	449	0.46
	DVC	3417	0	74.7	-42.3	-0.3	311	0.00
	Jharkhand	2029	0	46.9	31.8	1.0	201	0.00
	Odisha	6355	0	132.8	54.3	0.3	509	0.00
	West Bengal	12262	0	260.4	113.6	-0.1	367	0.00
	Sikkim	95	0	1.6	1.5	0.1	44	0.00
Railways ER ISTS	13	0	0.2	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	150	0	2.3	2.5	-0.3	33	0.00
	Assam	1944	0	36.8	29.9	0.6	149	0.00
	Manipur	153	0	2.1	2.4	-0.3	43	0.00
	Meghalaya	334	0	5.4	3.8	-0.1	68	0.00
	Mizoram	114	0	1.8	1.7	-0.3	26	0.00
	Nagaland	153	0	2.3	2.5	-0.2	23	0.00
Tripura	347	0	6.6	6.2	0.4	103	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-3.5	-11.0	-23.1	-22.8
Day Peak (MW)	-309.0	-764.4	-1067.0	-1521.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	113.9	-331.2	229.1	-23.4	11.6	0.0
Actual(MU)	100.6	-342.1	232.6	-11.2	12.8	-7.2
O/D/U/D(MU)	-13.3	-10.9	3.6	12.2	1.2	-7.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	2660	6030	2768	3286	351	15095	47
State Sector	6306	6376	1855	1954	129	16619	53
Total	8965	12406	4623	5240	480	31714	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	838	1669	798	728	15	4047	75
Lignite	24	15	65	0	0	104	2
Hydro	178	62	47	26	10	323	6
Nuclear	26	50	76	0	0	151	3
Gas, Naptha & Diesel	45	85	7	0	25	162	3
RES (Wind, Solar, Biomass & Others)	228	190	207	5	1	631	12
Total	1339	2072	1199	759	51	5420	100

Share of RES in total generation (%)	17.02	9.17	17.24	0.68	2.61	11.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.25	14.60	27.47	4.06	21.97	20.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.051
Based on State Max Demands	1.101

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216856	15:41	0
Non-Solar hr	217029	22:44	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: 27-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	1297	394	8.2	0.0	8.2
4	765 kV	SASARAM-FATEHPUR	1	364	307	0.0	0.7	-0.7
5	765 kV	GAYA-BALIA	1	0	475	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	128	0.0	1.6	-1.6
7	400 kV	PUSAULI-ALLAHABAD	1	82	23	0.5	0.0	0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	829	116	6.5	0.0	6.5
9	400 kV	PATNA-BALIA	2	390	363	0.0	5.7	-5.7
10	400 kV	NAUBATPUR-BALIA	2	172	176	0.0	0.7	-0.7
11	400 kV	BIHARSHARIFF-BALIA	2	582	0	7.4	0.0	7.4
12	400 kV	MOTIHARI-GORAKHPUR	2	387	303	0.0	0.5	-0.5
13	400 kV	BIHARSHARIFF-VARANASI	2	612	203	1.0	0.0	1.0
14	220 kV	SAHUPURI-KARAMNANA	1	49	55	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	0.8	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>24.4</b>	<b>19.5</b>	<b>5.0</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1540	0	16.4	0.0	16.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1612	0	25.7	0.0	25.7
3	765 kV	JHARSUGUDA-DURG	2	0	606	0.0	9.0	-9.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	541	0.0	8.3	-8.3
5	400 kV	RANCHI-SIPAT	2	335	0	4.1	0.0	4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	74	80	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	86	39	0.5	0.0	0.5
<b>ER-WR</b>						<b>46.7</b>	<b>17.5</b>	<b>29.2</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	678	0.0	11.9	-11.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1496	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2618	0.0	47.4	-47.4
4	400 kV	TALCHER-I/C	2	410	0	8.3	0.0	8.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>95.3</b>	<b>-95.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	274	199	1.8	0.6	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	526	213	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	65	38	0.3	0.0	0.3
<b>ER-NER</b>						<b>5.7</b>	<b>0.6</b>	<b>5.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	947	0	16.5	0.0	16.5
<b>NER-NR</b>						<b>16.5</b>	<b>0.0</b>	<b>16.5</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3011	0.0	72.1	-72.1
2	HVDC	VINDHYACHAL B/B	-	491	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1443	0.0	33.9	-33.9
4	765 kV	GWALIOR-AGRA	2	0	1527	0.0	21.1	-21.1
5	765 kV	GWALIOR-PHAGI	2	1538	1089	9.7	6.6	3.2
6	765 kV	JABALPUR-ORAI	2	287	649	0.0	12.1	-12.1
7	765 kV	GWALIOR-ORAI	1	523	78	5.6	0.2	5.4
8	765 kV	SATNA-ORAI	1	0	844	0.0	15.5	-15.5
9	765 kV	BANASKANTHA-CHITTOGARH	2	1719	287	15.6	0.3	15.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	3191	0.0	54.8	-54.8
11	400 kV	ZERDA-KANKROLI	1	426	1	4.7	0.0	4.7
12	400 kV	ZERDA-BHINMAL	1	425	1	4.7	0.0	4.7
13	400 kV	VINDHYACHAL-RIHAND	1	968	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	904	154	7.8	0.2	7.6
15	400 kV	NEEMUCH-Chittorgarh	2	1005	63	9.1	0.1	9.1
16	220 kV	BHANPURA-RANPUR	1	0	126	0.0	2.1	-2.1
17	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.1	-2.1
18	220 kV	MEHGAON-AURAIYA	1	90	0	1.2	0.0	1.2
19	220 kV	MALANPUR-AURAIYA	1	61	0	0.7	0.0	0.7
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>93.4</b>	<b>221.1</b>	<b>-127.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	22.2	-22.2
2	HVDC	RAIGARH-PUGALUR	2	0	6023	0.0	77.8	-77.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1535	0.0	19.5	-19.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2329	0.0	34.9	-34.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2901	0.0	46.1	-46.1
6	400 kV	KOLHAPUR-KUDGI	2	795	0	14.7	0.0	14.7
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	77	0.0	1.6	-1.6
9	220 kV	XELDEM-AMBEWADI	1	0	118	2.3	0.0	2.3
<b>WR-SR</b>						<b>17.0</b>	<b>202.1</b>	<b>-185.1</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 MANGDECHHU HEP 4*180MW)	165	-52	36	0.88	
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-253	104	-77	-1.84	
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-197	-77	-133	-3.20	
	NER	132kV GELEPHU-SALAKATI	7	-9	2	0.04	
	NER	132kV MOTANGA-RANGIA	35	19	26	0.63	
NEPAL	NR	NEPAL IMPORT (FROM UP)	-77	0	-49	-1.18	
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-57	-1.36	
	ER	NEPAL IMPORT (FROM BIHAR)	-311	0	-23	-0.54	
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-453	-130	-329	-7.89	
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-939	-648	-855	-20.51	
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1521	-705	-952	-22.84	
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-109	-2.62	

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 27-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	2.40	0.00	0.00	2.14	0.00	0.00	4.54
Nepal	0.29	0.00	5.97	0.00	0.00	0.00	0.00	0.00	6.26
Bangladesh	20.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.51
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.80	0.00	8.37	0.00	0.00	2.14	0.00	0.00	31.31

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
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	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33

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	0.33	0.00	-2.40	0.00	0.00	-2.14	0.00	0.00	-4.21
Nepal	-0.29	0.00	-5.97	0.00	0.00	0.00	0.00	0.00	-6.26
Bangladesh	-20.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.51
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.47	0.00	-8.37	0.00	0.00	-2.14	0.00	0.00	-30.98