



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: 02<sup>nd</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 01.04.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-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 01<sup>st</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 02-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)	52106	62332	52587	26044	2558	195627
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1127	1523	1369	560	43	4622
Hydro Gen (MU)	154	24	58	20	15	271
Wind Gen (MU)	14	89	28	-	-	131
Solar Gen (MU)*	156.38	84.55	140.64	3.40	0.91	386
Energy Shortage (MU)	0.09	0.00	0.00	0.38	0.00	0.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54484	68206	66219	26742	2730	207269
Time Of Maximum Demand Met	19:31	10:49	12:44	22:59	18:40	10:48

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	0.069	0.00	0.09	7.16	7.26	65.61	27.14

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	6570	0	138.0	44.1	-0.7	224	0.00
	Haryana	6665	0	134.3	103.2	-4.5	87	0.00
	Rajasthan	13167	0	263.5	63.7	-2.1	469	0.00
	Delhi	3976	0	83.2	74.6	0.2	199	0.00
	UP	19769	0	376.8	133.6	-8.5	550	0.00
	Uttarakhand	1893	0	39.4	23.4	-1.2	170	0.00
	HP	1621	0	29.3	16.4	1.3	131	0.00
	J&K(UT) & Ladakh(UT)	2722	0	54.6	40.2	1.1	459	0.09
	Chandigarh	200	0	3.8	4.4	-0.6	12	0.00
Railways NR ISTS	187	0	3.7	3.8	-0.1	19	0.00	
WR	Chhattisgarh	5947	0	139.9	74.1	3.1	375	0.00
	Gujarat	20870	0	436.6	152.9	-4.0	711	0.00
	MP	12124	0	260.9	146.5	-6.4	391	0.00
	Maharashtra	27234	0	613.8	196.4	-3.4	1018	0.00
	Goa	746	0	15.4	13.0	2.1	54	0.00
	DNHDDPDCL	1101	0	25.6	26.1	-0.5	24	0.00
	AMNSIL	857	0	18.5	5.8	0.2	291	0.00
	BALCO	522	0	12.5	12.5	0.0	6	0.00
SR	Andhra Pradesh	12666	0	239.6	85.3	-0.7	420	0.00
	Telangana	13620	0	281.2	166.2	-0.2	1104	0.00
	Karnataka	16667	0	325.2	138.8	2.3	777	0.00
	Kerala	5241	0	104.5	81.7	1.6	302	0.00
	Tamil Nadu	19010	0	408.4	257.6	-3.2	519	0.00
	Puducherry	451	0	10.2	9.7	-0.1	26	0.00
ER	Bihar	5704	0	107.7	94.8	2.1	592	0.38
	DVC	3332	0	71.7	-39.6	-0.3	355	0.00
	Jharkhand	1770	0	37.1	27.9	-3.4	197	0.00
	Odisha	6069	0	125.4	50.6	-1.1	467	0.00
	West Bengal	10018	0	216.7	89.8	-3.2	112	0.00
	Sikkim	100	0	1.6	1.7	-0.2	9	0.00
	Railways ER ISTS	10	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	163	0	2.8	3.1	-0.5	44	0.00
	Assam	1614	0	25.0	18.1	0.2	217	0.00
	Manipur	188	0	3.0	3.0	0.0	20	0.00
	Meghalaya	330	0	4.5	4.4	-0.7	83	0.00
	Mizoram	121	0	2.4	1.8	-0.4	11	0.00
	Nagaland	142	0	1.5	1.7	-0.3	26	0.00
	Tripura	297	0	3.9	5.5	0.5	66	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.3	-10.0	-23.1	-24.1
Day Peak (MW)	-363.0	-639.0	-1095.0	-1031.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	84.4	-310.3	312.9	-83.0	-3.9	0.0
Actual(MU)	68.0	-306.8	335.4	-94.2	-7.5	-5.0
O/D/U/D(MU)	-16.4	3.6	22.5	-11.2	-3.6	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5241	7265	5138	3766	146	21556	55
State Sector	6231	7210	1365	3007	170	17982	45
Total	11472	14475	6503	6773	316	39538	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	723	1621	749	715	16	3824	77
Lignite	25	17	62	0	0	105	2
Hydro	154	24	58	20	15	271	5
Nuclear	19	37	52	0	0	107	2
Gas, Naptha & Diesel	18	54	4	0	26	102	2
RES (Wind, Solar, Biomass & Others)	190	175	196	5	1	568	11
Total	1131	1929	1121	739	57	4976	100

Share of RES in total generation (%)	16.82	9.09	17.52	0.63	1.61	11.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.26	12.28	27.31	3.38	26.87	19.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.079

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	207269	10:48	0
Non-Solar hr	201108	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 -> 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: 02-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	49	0.0	1.4	-1.4
3	765 kV	GAYA-VARANASI	2	447	631	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	0	411	0.0	6.9	-6.9
5	765 kV	GAYA-BALIA	1	126	536	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	1	0	97	0.0	1.3	-1.3
7	400 kV	PUSAULI-ALLAHABAD	1	48	21	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	402	398	0.0	2.4	-2.4
9	400 kV	PATNA-BALIA	2	104	374	0.0	5.6	-5.6
10	400 kV	NAUBATPUR-BALIA	2	83	218	0.0	2.2	-2.2
11	400 kV	BIHARSHARIF-BALIA	2	283	94	1.2	0.0	1.2
12	400 kV	MOTIHARI-GORAKHPUR	2	78	329	0.0	3.7	-3.7
13	400 kV	BIHARSHARIF-VARANASI	2	187	117	0.0	0.5	-0.5
14	220 kV	SAHUPURI-KARAMNANA	1	0	82	0.0	1.4	-1.4
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-CHANDALI	1	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>1.4</b>	<b>38.8</b>	<b>-37.3</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1186	0	17.9	0.0	17.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	552	934	0.0	6.1	-6.1
3	765 kV	JHARSUGUDA-DURG	2	0	920	0.0	18.0	-18.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	504	0.0	8.6	-8.6
5	400 kV	RANCHI-SIPAT	2	66	324	0.0	3.8	-3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	21	94	0.0	0.7	-0.7
7	220 kV	BUDHIPADAR-KORBA	2	68	16	0.3	0.0	0.3
<b>ER-WR</b>						<b>18.2</b>	<b>37.2</b>	<b>-19.0</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	665	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1496	0.0	36.2	-36.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2965	0.0	57.7	-57.7
4	400 kV	TALCHER-I/C	2	411	0	8.9	0.0	8.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>108.7</b>	<b>-108.7</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	503	0	7.7	0.0	7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	774	0	14.4	0.0	14.4
3	220 kV	ALIPURDUAR-SALAKATI	2	149	0	2.5	0.0	2.5
<b>ER-NER</b>						<b>24.6</b>	<b>0.0</b>	<b>24.6</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	680	0	16.3	0.0	16.3
<b>NER-NR</b>						<b>16.3</b>	<b>0.0</b>	<b>16.3</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2006	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	258	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	668	1441	3.2	8.9	-5.7
5	765 kV	GWALIOR-PHAGI	2	1148	885	4.9	10.3	-5.5
6	765 kV	JABALPUR-ORAI	2	626	580	0.1	0.8	-0.7
7	765 kV	GWALIOR-ORAI	1	601	0	8.9	0.0	8.9
8	765 kV	SATNA-ORAI	1	0	935	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1846	354	17.6	0.5	17.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2377	0.0	30.6	-30.6
11	400 kV	ZERDA-KANKROLI	1	366	34	3.7	0.0	3.7
12	400 kV	ZERDA -BHINMAL	1	366	33	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	21.4	0.0	21.4
14	400 kV	RAPP-SHUJALPUR	2	727	103	5.4	0.3	5.1
15	220 kV	BHANPURA-RANPUR	1	0	126	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
17	220 kV	MEHGAON-AURAIYA	1	101	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	79	0	1.0	0.0	1.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>77.3</b>	<b>134.0</b>	<b>-56.7</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	20.0	-20.0
2	HVDC	RAIGARH-PUGALUR	2	0	6326	0.0	119.8	-119.8
3	765 kV	SOLAPUR-RAICHUR	2	0	1999	0.0	30.4	-30.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3374	0.0	59.6	-59.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3289	0.0	61.5	-61.5
6	400 kV	KOLHAPUR-KUDGI	2	848	0	12.8	0.0	12.8
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	XELDEM-AMBEWADI	1	0	125	2.5	0.0	2.5
<b>WR-SR</b>						<b>15.3</b>	<b>291.1</b>	<b>-275.8</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)	207	-140	35	0.84
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-231	184	44	1.05
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-261	-61	-141	-3.38
	NER	132kV GELEPHU-SALAKATI	-25	-5	-14	-0.33
	NER	132kV MOTANGA-RANGIA	36	12	24	0.58
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.10
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-0.81
	ER	NEPAL IMPORT (FROM BIHAR)	-215	-4	-128	-3.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-424	0	-209	-5.01
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-940	-653	-824	-19.78
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1031	-994	-1005	-24.11
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-155	0	-138	-3.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 02-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	6.03	0.00	0.00	0.00	0.00	0.00	6.03
Nepal	0.21	0.00	4.69	0.00	0.00	0.16	0.00	0.00	5.06
Bangladesh	21.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.09
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.30	0.00	10.72	0.00	0.00	0.16	0.00	0.00	32.18

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.49
Nepal	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.08
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	4.49	0.00	0.00	0.00	0.00	0.08	0.00	0.00	4.57

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	4.49	0.00	-6.03	0.00	0.00	0.00	0.00	0.00	-1.54
Nepal	-0.21	0.00	-4.69	0.00	0.00	-0.08	0.00	0.00	-4.98
Bangladesh	-21.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.09
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-16.81	0.00	-10.72	0.00	0.00	-0.08	0.00	0.00	-27.61