



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: 17<sup>th</sup> March 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., डोंगतेिह, 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 16.03.2024.**

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-मार्च -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 16<sup>th</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 17-Mar-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 19:00 hrs; from RLDCs)	54297	63696	52389	22809	2771	195962
Peak Shortage (MW)	95	0	0	0	0	95
Energy Met (MU)	1181	1515	1380	521	51	4648
Hydro Gen (MU)	121	28	44	17	9	219
Wind Gen (MU)	20	86	35	-	-	140
Solar Gen (MU)*	166.92	79.67	126.87	2.89	1.16	378
Energy Shortage (MU)	0.10	0.00	0.00	0.51	0.00	0.61
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58487	69789	66152	23404	2851	217346
Time Of Maximum Demand Met	10:12	10:50	15:00	18:31	18:40	10:27

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	0.041	0.00	0.02	6.77	6.79	73.61	19.59

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	9559	0	175.2	73.8	1.7	329	0.00
	Haryana	7495	0	148.7	114.2	1.6	376	0.00
	Rajasthan	15248	0	296.1	62.2	-1.0	279	0.00
	Delhi	3619	0	67.6	59.2	0.1	318	0.00
	UP	18486	0	355.4	102.8	-0.9	522	0.00
	Uttarakhand	2059	0	41.4	26.3	0.7	140	0.00
	HP	1834	0	32.0	25.5	0.0	73	0.00
	J&K(UT) & Ladakh(UT)	2800	95	57.3	49.6	0.1	161	0.10
	Chandigarh	195	0	3.4	3.6	-0.2	15	0.00
Railways NR ISTS	172	0	3.6	3.7	0.0	18	0.00	
WR	Chhattisgarh	6005	0	133.5	72.5	-0.9	268	0.00
	Gujarat	21041	0	433.2	180.1	-0.9	764	0.00
	MP	13322	0	264.1	130.6	-5.1	409	0.00
	Maharashtra	27537	0	609.1	201.9	-4.0	1021	0.00
	Goa	689	0	14.4	11.3	2.7	48	0.00
	DNHDDPDCL	1262	0	29.0	28.8	0.2	43	0.00
	AMNSIL	849	0	19.2	9.0	0.3	269	0.00
	BALCO	520	0	12.4	12.6	-0.2	4	0.00
SR	Andhra Pradesh	12762	0	245.7	83.1	-1.0	655	0.00
	Telangana	14715	0	297.1	181.8	-1.2	1122	0.00
	Karnataka	16493	0	322.4	157.5	-3.3	491	0.00
	Kerala	4918	0	100.4	81.6	1.3	422	0.00
	Tamil Nadu	18949	0	404.5	243.7	1.2	567	0.00
	Puducherry	439	0	10.2	9.7	-0.2	22	0.00
ER	Bihar	5071	0	102.6	96.3	-0.4	136	0.00
	DVC	3340	0	71.7	-49.6	-0.4	297	0.00
	Jharkhand	1640	0	37.0	24.8	-1.6	237	0.51
	Odisha	5635	0	124.4	46.5	-0.5	311	0.00
	West Bengal	9080	0	183.1	49.9	-2.0	213	0.00
	Sikkim	100	0	1.7	1.4	0.2	36	0.00
Railways ER ISTS	14	0	0.2	0.1	0.0	0	0.00	
NER	Arunachal Pradesh	164	0	2.7	2.8	-0.1	21	0.00
	Assam	1659	0	30.8	25.1	0.2	90	0.00
	Manipur	207	0	3.1	3.1	0.0	23	0.00
	Meghalaya	389	0	5.8	5.2	-0.2	140	0.00
	Mizoram	126	0	1.9	1.6	-0.2	9	0.00
	Nagaland	156	0	2.4	2.4	0.0	16	0.00
Tripura	240	0	4.4	4.7	0.0	50	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.2	-12.7	-24.3	-24.3
Day Peak (MW)	-652.8	-584.4	-1073.0	-1039.3

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	113.6	-306.2	302.3	-116.3	6.6	0.0
Actual(MU)	103.8	-310.4	315.7	-116.8	6.1	-1.7
O/D/U/D(MU)	-9.8	-4.1	13.4	-0.5	-0.6	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6418	9021	4578	3102	296	23415	51
State Sector	8736	7859	2806	3277	120	22797	49
Total	15153	16879	7384	6379	416	46211	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	752	1645	785	718	17	3917	78
Lignite	31	22	67	0	0	119	2
Hydro	121	28	44	17	9	219	4
Nuclear	31	58	52	0	0	141	3
Gas, Naptha & Diesel	12	37	6	0	24	80	2
RES (Wind, Solar, Biomass & Others)	207	168	197	5	1	577	11
Total	1153	1958	1150	740	52	5053	100

Share of RES in total generation (%)	17.91	8.55	17.08	0.68	2.23	11.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.13	12.99	25.42	2.95	19.88	18.57

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.052

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217346	10:27	0
Non-Solar hr	198566	19:14	95

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: 17-Mar-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	1.0	-1.0
3	765 kV	GAYA-VARANASI	2	151	664	0.0	4.6	-4.6
4	765 kV	SASARAM-FATEHPUR	1	0	438	0.0	6.1	-6.1
5	765 kV	GAYA-BALIA	1	0	568	0.0	6.2	-6.2
6	400 kV	PUSAULI-VARANASI	1	14	77	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	29	63	0.0	0.0	0.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	314	471	0.0	0.4	-0.4
9	400 kV	PATNA-BALIA	2	0	462	0.0	9.5	-9.5
10	400 kV	NAUBATPUR-BALIA	2	0	224	0.0	2.8	-2.8
11	400 kV	BIHARSHARIFF-BALIA	2	276	131	1.9	0.0	1.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	388	0.0	4.5	-4.5
13	400 kV	BIHARSHARIFF-VARANASI	2	77	304	0.0	2.8	-2.8
14	220 kV	SAHUPURI-KARAMNANA	1	6	90	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	0	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
<b>ER-NR</b>						<b>1.9</b>	<b>39.8</b>	<b>-37.8</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	606	430	4.5	0.0	4.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	316	856	0.0	5.3	-5.3
3	765 kV	JHARSUGUDA-DURG	2	0	697	0.0	13.6	-13.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	609	0.0	9.9	-9.9
5	400 kV	RANCHI-SIPAT	2	0	305	0.0	3.4	-3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	5	102	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	144	43	1.5	0.0	1.5
<b>ER-WR</b>						<b>6.0</b>	<b>33.5</b>	<b>-27.5</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	628	0.0	14.6	-14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	35.9	-35.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2876	0.0	58.8	-58.8
4	400 kV	TALCHER-I/C	2	669	237	9.0	0.0	9.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>109.3</b>	<b>-109.3</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	0	6	0.9	0.0	0.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	721	0	8.5	0.0	8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	40	8	0.4	0.0	0.4
<b>ER-NER</b>						<b>9.8</b>	<b>0.0</b>	<b>9.8</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIAL-AGRA	2	661	0	15.7	0.0	15.7
<b>NER-NR</b>						<b>15.7</b>	<b>0.0</b>	<b>15.7</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2003	0.0	47.4	-47.4
2	HVDC	VINDHYACHAL B/B	-	508	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1267	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	154	1862	0.0	16.1	-16.1
5	765 kV	GWALIOR-PHAGI	2	741	1258	3.2	11.2	-8.0
6	765 kV	JABALPUR-ORAI	2	108	841	0.0	10.2	-10.2
7	765 kV	GWALIOR-ORAI	1	678	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1062	0.0	18.6	-18.6
9	765 kV	BANASKANTHA-CHITORGARH	2	1932	195	23.5	0.1	23.4
10	765 kV	VINDHYACHAL-VARANASI	2	0	2339	0.0	34.3	-34.3
11	400 kV	ZERDA-KANKROLI	1	363	35	4.6	0.0	4.6
12	400 kV	ZERDA-BHINMAL	1	364	24	4.7	0.0	4.7
13	400 kV	VINDHYACHAL-RIHAND	1	981	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	622	363	5.9	1.0	4.9
15	220 kV	BHANPURA-RANPUR	1	0	141	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	104	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	72	10	0.8	0.0	0.8
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>88.7</b>	<b>173.8</b>	<b>-85.1</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	17.6	-17.6
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	109.8	-109.8
3	765 kV	SOLAPUR-RAICHUR	2	0	2010	0.0	29.8	-29.8
4	765 kV	WARDHA-NIZAMABAD	2	0	3096	0.0	57.2	-57.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2810	0.0	54.7	-54.7
6	400 kV	KOLHAPUR-KUDGI	2	1001	0	13.9	0.0	13.9
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	121	2.3	0.0	2.3
<b>WR-SR</b>						<b>16.2</b>	<b>269.0</b>	<b>-252.8</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)	-224	68	-104	-2.50
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-260	123	-128	-3.08
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-234	-120	-190	-4.56
	NER	132kV GELEPHU-SALAKATI	-22	-2	-12	-0.29
	NER	132kV MOTANGA-RANGIA	21	1	9	0.23
NEPAL	NR	NEPAL IMPORT (FROM UP)	-65	0	-54	-1.29
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-65	0	-53	-1.28
	ER	NEPAL IMPORT (FROM BIHAR)	-160	-2	-75	-1.81
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-424	-155	-345	-8.28
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-932	-785	-899	-21.57
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1039	-877	-1011	-24.26
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	141	0	-114	-2.74

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 17-Mar-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	10.81	0.00	0.00	0.58	0.00	0.00	11.39
Nepal	0.20	0.00	9.67	0.00	0.00	0.33	0.00	0.00	10.20
Bangladesh	21.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.56
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.76	0.00	20.48	0.00	0.00	0.91	0.00	0.00	43.15

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51
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	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51

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	0.51	0.00	-10.81	0.00	0.00	-0.58	0.00	0.00	-10.88
Nepal	-0.20	0.00	-9.67	0.00	0.00	-0.33	0.00	0.00	-10.20
Bangladesh	-21.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.56
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.25	0.00	-20.48	0.00	0.00	-0.91	0.00	0.00	-42.64