



**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: 14<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., 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 13.03.2024.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 13<sup>th</sup> March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 14-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)	51453	64219	44747	23816	2675	186910
Peak Shortage (MW)	70	0	0	0	0	70
Energy Met (MU)	1135	1524	1401	524	50	4634
Hydro Gen (MU)	126	35	58	19	9	247
Wind Gen (MU)	21	98	38	-	-	157
Solar Gen (MU)*	147.02	86.90	132.12	3.31	1.15	371
Energy Shortage (MU)	0.08	0.00	0.00	2.21	0.00	2.29
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58132	70363	68735	24219	2790	220555
Time Of Maximum Demand Met	10:21	10:36	11:35	18:26	18:05	10:37

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	0.036	0.00	0.00	6.65	6.65	80.04	13.31

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	7908	0	147.8	51.1	-0.3	181	0.00
	Haryana	7230	0	143.1	100.6	-1.3	116	0.00
	Rajasthan	15573	0	297.3	80.5	-2.1	339	0.00
	Delhi	3854	0	70.8	62.3	-0.1	306	0.00
	UP	17450	0	338.6	76.3	-0.1	404	0.00
	Uttarakhand	2108	0	40.8	25.9	0.6	127	0.00
	HP	1856	0	32.6	26.5	0.0	107	0.00
	J&K(UT) & Ladakh(UT)	2683	0	57.1	49.1	0.5	311	0.08
	Chandigarh	216	0	3.6	3.6	0.0	18	0.00
Railways NR ISTS	181	0	3.7	3.7	0.0	28	0.00	
WR	Chhattisgarh	6019	0	136.7	72.1	-1.3	218	0.00
	Gujarat	19967	0	422.1	184.0	-0.3	699	0.00
	MP	13312	0	265.4	146.7	-4.9	448	0.00
	Maharashtra	28282	0	623.3	207.0	-5.8	876	0.00
	Goa	707	0	15.2	12.2	2.7	40	0.00
	DNHDDPDCL	1259	0	29.2	29.2	0.0	41	0.00
	AMNSIL	915	0	19.6	9.3	0.3	308	0.00
	BALCO	523	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	13078	0	245.6	90.4	-0.5	578	0.00
	Telangana	15249	0	311.0	184.1	-0.2	1162	0.00
	Karnataka	16951	0	330.5	159.9	-1.1	736	0.00
	Kerala	5066	0	101.9	76.1	1.4	281	0.00
	Tamil Nadu	18787	0	402.3	236.4	1.1	542	0.00
	Puducherry	430	0	9.6	9.4	-0.2	31	0.00
ER	Bihar	5044	0	97.2	85.8	1.5	212	0.08
	DVC	3403	0	72.2	-49.1	-0.1	300	0.00
	Jharkhand	1593	0	36.5	24.1	-0.8	310	2.13
	Odisha	6103	0	133.3	60.1	-0.4	250	0.00
	West Bengal	8426	0	182.5	36.7	-1.0	200	0.00
	Sikkim	103	0	1.8	1.8	0.0	1	0.00
Railways ER ISTS	12	0	0.1	0.2	-0.1	0	0.00	
NER	Arunachal Pradesh	164	0	2.9	3.0	-0.1	19	0.00
	Assam	1600	0	29.6	24.4	0.8	103	0.00
	Manipur	211	0	3.0	3.2	-0.2	30	0.00
	Meghalaya	347	0	6.2	4.9	0.0	54	0.00
	Mizoram	122	0	1.9	1.6	-0.2	11	0.00
	Nagaland	153	0	2.4	2.3	0.0	18	0.00
Tripura	255	0	4.3	4.3	0.4	60	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.7	-14.9	-24.6	-32.2
Day Peak (MW)	-634.0	-631.4	-1095.0	-1556.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	89.5	-289.0	303.3	-114.9	11.1	0.0
Actual(MU)	83.9	-296.3	313.7	-117.1	11.8	-4.0
O/D/U/D(MU)	-5.7	-7.3	10.4	-2.3	0.8	-4.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7493	8271	5078	4037	617	25496	49
State Sector	8206	11999	3809	2787	135	26934	51
Total	15698	20269	8887	6824	752	52430	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	741	1634	783	707	10	3876	77
Lignite	30	15	67	0	0	112	2
Hydro	126	35	58	19	9	247	5
Nuclear	31	54	52	0	0	137	3
Gas, Naptha & Diesel	12	42	6	0	24	85	2
RES (Wind, Solar, Biomass & Others)	187	189	206	5	1	588	12
Total	1128	1969	1172	732	45	5045	100

Share of RES in total generation (%)	16.60	9.57	17.54	0.73	2.56	11.65
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.58	14.14	26.94	3.33	23.21	19.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	.9621

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220555	10:37	0
Non-Solar hr	198820	19:05	469

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: 14-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	228	506	0.0	5.2	-5.2
4	765 kV	SASARAM-FATEHPUR	1	0	359	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	463	0.0	5.6	-5.6
6	400 kV	PUSAULI-VARANASI	1	0	74	0.0	1.0	-1.0
7	400 kV	PUSAULI-ALLAHABAD	1	27	45	0.0	0.1	-0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	352	327	0.0	0.4	-0.4
9	400 kV	PATNA-BALIA	2	0	376	0.0	10.5	-10.5
10	400 kV	NAUBATPUR-BALIA	2	2	324	0.0	2.6	-2.6
11	400 kV	BIHARSHARIFF-BALIA	2	276	61	2.0	0.0	2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	20	339	0.0	4.6	-4.6
13	400 kV	BIHARSHARIFF-VARANASI	2	96	225	0.0	2.5	-2.5
14	220 kV	SAHUPURI-KARAMNANA	1	48	94	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	0.7	0.0	0.7
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>2.7</b>	<b>39.9</b>	<b>-37.2</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1409	3	18.2	0.0	18.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	169	984	0.0	9.9	-9.9
3	765 kV	JHARSUGUDA-DURG	2	0	792	0.0	17.1	-17.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	487	0.0	6.9	-6.9
5	400 kV	RANCHI-SIPAT	2	0	346	0.0	4.5	-4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	170	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	103	64	0.6	0.0	0.6
<b>ER-WR</b>						<b>18.8</b>	<b>40.9</b>	<b>-22.1</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	622	0.0	14.6	-14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	36.7	-36.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2936	0.0	56.9	-56.9
4	400 kV	TALCHER-I/C	2	395	223	7.4	0.0	7.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>108.1</b>	<b>-108.1</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	2	1	8	0.7	0.2	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	440	59	4.5	0.0	4.5
3	220 kV	ALIPURDUAR-SALAKATI	2	16	20	0.0	0.0	0.0
<b>ER-NER</b>						<b>5.2</b>	<b>0.2</b>	<b>5.0</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	2	661	0	16.2	0.0	16.2
<b>NER-NR</b>						<b>16.2</b>	<b>0.0</b>	<b>16.2</b>
<b>Import/Export of WR (With NR)</b>								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1741	0.0	35.4	-35.4
2	HVDC	VINDHYACHAL B/B	-	430	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	24.6	-24.6
4	765 kV	GWALIOR-AGRA	2	296	1706	0.4	12.9	-12.5
5	765 kV	GWALIOR-PHAGI	2	912	1414	3.8	14.4	-10.6
6	765 kV	JABALPUR-ORAI	2	290	690	0.0	7.2	-7.2
7	765 kV	GWALIOR-ORAI	1	880	0	12.1	0.0	12.1
8	765 kV	SATNA-ORAI	1	0	1003	0.0	18.2	-18.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1322	184	14.8	0.1	14.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2244	0.0	32.7	-32.7
11	400 kV	ZERDA-KANKROLI	1	342	0	4.2	0.0	4.2
12	400 kV	ZERDA -BHINMAL	1	342	0	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUJALPUR	2	733	232	6.1	0.6	5.5
15	220 kV	BHANPURA-RANPUR	1	0	137	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	110	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	79	3	0.9	0.0	0.9
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>82.3</b>	<b>149.6</b>	<b>-67.4</b>
<b>Import/Export of WR (With SR)</b>								
1	HVDC	BHADRAWATI B/B	-	0	1015	0.0	20.6	-20.6
2	HVDC	RAIGARH-PUGALUR	2	0	5014	0.0	105.3	-105.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2272	0.0	31.4	-31.4
4	765 kV	WARDHA-NIZAMABAD	2	0	3085	0.0	53.4	-53.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3183	0.0	57.4	-57.4
6	400 kV	KOLHAPUR-KUDGI	2	1141	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	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	125	2.3	0.0	2.3
<b>WR-SR</b>						<b>17.0</b>	<b>268.1</b>	<b>-251.2</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)	-214	69	-112	-2.69
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-246	165	-108	-2.59
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-258	-98	-189	-4.54
	NER	132kV GELEPHU-SALAKATI	-14	0	-8	-0.18
NEPAL	NER	132kV MOTANGA-RANGIA	27	0	13	0.31
	NR	NEPAL IMPORT (FROM UP)	-67	0	-66	-1.59
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-67	0	-54	-1.30
	ER	NEPAL IMPORT (FROM BIHAR)	-165	-50	-75	-1.79
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-466	-125	-426	-10.22
	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-797	-892	-21.41
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1556	-1152	-1343	-32.22
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-133	-3.19

