

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: 11th 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 10.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-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)	48557	60622	47008	22886	2539	181612
Peak Shortage (MW)	0	0	0	298	0	298
Energy Met (MU)	1061	1442	1297	490	46	4337
Hydro Gen (MU)	119	33	47	16	11	227
Wind Gen (MU)	16	74	43	-	-	134
Solar Gen (MU)*	134.87	84.08	124.16	6.01	1.16	350
Energy Shortage (MU)	0.40	0.00	0.00	1.05	0.00	1.45
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55048	67230	61556	22889	2608	206220
Time Of Maximum Demand Met	10:15	10:39	10:49	18:45	18:20	10:22

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	0.037	0.00	0.68	5.28	5.96	78.81	15.23

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	8175	0	150.1	66.2	-0.1	278	0.00
	Haryana	6140	0	128.5	104.2	-0.7	211	0.00
	Rajasthan	15560	0	290.1	77.3	-0.8	277	0.00
	Delhi	3755	0	64.3	55.4	0.6	333	0.00
	UP	16671	0	298.8	57.2	0.4	401	0.00
	Uttarakhand	2012	0	37.2	23.2	0.4	150	0.19
	HP	1690	0	29.1	23.5	-0.4	70	0.00
	J&K(UT) & Ladakh(UT)	2697	0	56.1	50.6	-0.3	123	0.21
	Chandigarh	192	0	3.2	3.3	-0.2	13	0.00
Railways NR ISTS	179	0	3.7	3.6	0.1	23	0.00	
WR	Chhattisgarh	5794	0	131.7	68.1	-1.5	563	0.00
	Gujarat	19725	0	403.3	185.8	2.4	902	0.00
	MP	12962	0	249.7	137.2	-5.9	463	0.00
	Maharashtra	26509	0	585.8	192.5	-2.2	838	0.00
	Goa	659	0	12.8	10.1	2.3	115	0.00
	DNHDDPDCL	1170	0	27.6	27.5	0.1	51	0.00
	AMNSIL	877	0	19.0	9.0	0.3	242	0.00
	BALCO	521	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12674	0	236.0	84.9	-1.3	416	0.00
	Telangana	14693	0	293.3	178.9	0.0	916	0.00
	Karnataka	15161	0	307.3	155.1	-1.6	698	0.00
	Kerala	4805	0	91.4	75.5	1.1	389	0.00
	Tamil Nadu	16693	0	359.6	223.9	-0.8	820	0.00
	Puducherry	381	0	9.0	8.9	-0.5	28	0.00
ER	Bihar	4927	0	93.0	80.3	0.3	379	0.00
	DVC	3330	0	72.2	-42.8	1.5	252	0.00
	Jharkhand	1817	0	34.4	22.9	-0.8	194	1.05
	Odisha	6127	0	134.0	69.3	-0.6	234	0.00
	West Bengal	7175	0	155.0	18.7	-2.5	164	0.00
	Sikkim	93	0	1.5	1.6	-0.1	7	0.00
Railways ER ISTS	10	0	0.1	0.1	0.0	3	0.00	
NER	Arunachal Pradesh	142	0	2.6	3.0	-0.4	45	0.00
	Assam	1471	0	26.9	23.7	0.2	99	0.00
	Manipur	212	0	3.0	3.3	-0.3	15	0.00
	Meghalaya	308	0	6.1	5.5	0.0	117	0.00
	Mizoram	113	0	2.0	1.6	-0.2	4	0.00
	Nagaland	144	0	2.2	2.3	-0.2	8	0.00
Tripura	231	0	3.6	3.6	-0.3	29	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.8	-10.3	-24.6	-28.7
Day Peak (MW)	-664.5	-368.7	-1073.0	-1420.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	86.7	-267.2	291.1	-115.2	4.6	0.0
Actual(MU)	84.0	-259.0	296.2	-132.6	4.5	-6.9
O/D/U/D(MU)	-2.7	8.2	5.1	-17.5	-0.1	-6.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6764	7971	3868	3432	348	22382	41
State Sector	8666	13196	6456	3347	197	31861	59
Total	15430	21166	10324	6779	545	54243	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	683	1540	704	695	13	3636	77
Lignite	30	18	72	0	0	119	3
Hydro	119	33	47	16	11	227	5
Nuclear	31	37	52	0	0	120	3
Gas, Naptha & Diesel	12	35	6	0	22	75	2
RES (Wind, Solar, Biomass & Others)	170	161	199	8	1	539	11
Total	1046	1824	1080	719	48	4716	100

Share of RES in total generation (%)	16.23	8.81	18.42	1.16	2.46	11.43
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.68	12.70	27.64	3.35	26.15	18.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206220	10:22	19
Non-Solar hr	184740	18:59	19

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: 11-Mar-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	130	716	0.0	6.6	-6.6
4	765 kV	SASARAM-FATEHPUR	1	0	438	0.0	6.3	-6.3
5	765 kV	GAYA-BALIA	1	0	496	0.0	5.5	-5.5
6	400 kV	PUSAULI-VARANASI	1	26	68	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	21	73	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	278	478	0.0	0.4	-0.4
9	400 kV	PATNA-BALIA	2	0	534	0.0	9.4	-9.4
10	400 kV	NAUBATPUR-BALIA	2	0	265	0.0	2.9	-2.9
11	400 kV	BIHARSHARIFF-BALIA	2	244	117	1.8	0.0	1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	456	0.0	5.2	-5.2
13	400 kV	BIHARSHARIFF-VARANASI	2	35	306	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNANA	1	34	45	0.0	0.1	-0.1
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
ER-NR						1.8	41.3	-39.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1390	0	19.7	0.0	19.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	125	1138	0.0	16.7	-16.7
3	765 kV	JHARSUGUDA-DURG	2	0	594	0.0	11.3	-11.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	429	0.0	6.6	-6.6
5	400 kV	RANCHI-SIPAT	2	0	328	0.0	5.3	-5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	163	0	1.7	0.0	1.7
ER-WR						21.4	42.0	-20.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	638	0.0	14.6	-14.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2963	0.0	57.9	-57.9
4	400 kV	TALCHER-I/C	2	415	0	8.4	0.0	8.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	108.6	-108.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	10	0.7	3.8	-3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	569	738	0.0	5.8	-5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	49	68	0.0	0.5	-0.5
ER-NER						0.7	10.1	-9.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	466	706	0.0	4.2	-4.2
NER-NR						0.0	4.2	-4.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2004	0.0	26.0	-26.0
2	HVDC	VINDHYACHAL B/B	-	427	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	7.5	-7.5
4	765 kV	GWALIOR-AGRA	2	208	1796	0.2	12.4	-12.2
5	765 kV	GWALIOR-PHAGI	2	630	1518	1.1	16.8	-15.6
6	765 kV	JABALPUR-ORAI	2	204	820	0.0	7.9	-7.9
7	765 kV	GWALIOR-ORAI	1	729	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1073	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1264	76	14.3	0.0	14.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	2015	0.0	26.5	-26.5
11	400 kV	ZERDA-KANKROLI	1	295	21	7.4	0.0	7.4
12	400 kV	ZERDA -BHINMAL	1	295	20	0.0	0.0	0.0
13	400 kV	VINDHYACHAL -RIHAND	1	969	0	21.9	0.0	21.9
14	400 kV	RAPP-SHUJALPUR	2	611	174	5.5	0.2	5.2
15	220 kV	BHANPURA-RANPUR	1	0	124	0.0	1.9	-1.9
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	117	0	1.7	0.0	1.7
18	220 kV	MALANPUR-AURAIYA	1	86	0	1.1	0.0	1.1
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
WR-NR						77.2	119.5	-42.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	5015	0.0	101.0	-101.0
3	765 kV	SOLAPUR-RAICHUR	2	290	1817	0.1	22.6	-22.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2755	0.0	49.9	-49.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2933	0.0	54.0	-54.0
6	400 kV	KOLHAPUR-KUDGI	2	1108	0	12.6	0.0	12.6
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	71	0.0	0.6	-0.6
9	220 kV	XELDEM-AMBEWADI	1	0	120	2.3	0.0	2.3
WR-SR						14.9	251.9	-237.0

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)	-201	50	-124	-2.97
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-357	23	-176	-4.23
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-250	84	-155	-3.72
	NER	132kV GELEPHU-SALAKATI	-25	-1	-4	-0.09
NEPAL	NER	132kV MOTANGA-RANGIA	25	-1	9	0.22
	NR	NEPAL IMPORT (FROM UP)	-66	0	-62	-1.48
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-53	-1.28
	ER	NEPAL IMPORT (FROM BIHAR)	179	2	98	2.35
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-548	-274	-410	-9.85
	ER	BHERAMARA B/B HVDC (B'DESH)	-945	-800	-914	-21.95
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1420	-808	-1195	-28.67
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-110	-2.64

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 11-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	11.25	0.00	0.00	0.90	0.00	0.00	12.15
Nepal	0.24	0.00	10.28	0.00	0.00	0.33	0.00	0.00	10.85
Bangladesh	21.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.97
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.21	0.00	21.53	0.00	0.00	1.23	0.00	0.00	44.97

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
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	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46

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	0.46	0.00	-11.25	0.00	0.00	-0.90	0.00	0.00	-11.69
Nepal	-0.24	0.00	-10.28	0.00	0.00	-0.33	0.00	0.00	-10.85
Bangladesh	-21.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.97
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.75	0.00	-21.53	0.00	0.00	-1.23	0.00	0.00	-44.51