

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: 10th 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 09.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	51477	62313	50926	22438	2691	189845
Peak Shortage (MW)	185	0	0	310	0	495
Energy Met (MU)	1098	1449	1358	491	49	4445
Hydro Gen (MU)	119	34	55	20	8	236
Wind Gen (MU)	24	96	31	-	-	151
Solar Gen (MU)*	163.06	87.81	130.14	5.73	1.18	388
Energy Shortage (MU)	0.43	0.00	0.00	1.42	0.00	1.85
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57574	67706	65151	23311	2774	212226
Time Of Maximum Demand Met	09:40	10:54	12:43	18:46	18:17	09:40

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	0.051	0.64	1.64	5.16	7.44	74.88	17.68

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	8464	0	157.9	74.3	-0.5	240	0.00
	Haryana	7058	0	141.3	102.4	0.1	187	0.00
	Rajasthan	16282	0	299.8	78.9	-2.6	193	0.00
	Delhi	3744	0	66.0	57.2	0.2	266	0.00
	UP	16806	0	299.4	54.5	-1.4	261	0.00
	Uttarakhand	2073	0	38.8	24.7	0.5	157	0.00
	HP	1812	0	31.4	25.5	-0.2	38	0.00
	J&K(UT) & Ladakh(UT)	2725	0	56.6	51.3	-0.2	125	0.43
	Chandigarh	208	0	3.3	3.6	-0.3	32	0.00
Railways NR ISTS	180	0	3.6	3.6	0.1	19	0.00	
WR	Chhattisgarh	5759	0	130.2	72.3	0.5	405	0.00
	Gujarat	19731	0	402.1	177.8	-1.1	968	0.00
	MP	13071	0	250.9	143.0	-4.9	602	0.00
	Maharashtra	27113	0	597.2	189.8	-3.2	777	0.00
	Goa	718	0	13.3	11.8	1.1	37	0.00
	DNHDDPDCL	1163	0	25.9	26.0	-0.1	67	0.00
	AMNSIL	780	0	17.0	7.2	0.3	273	0.00
	BALCO	521	0	12.5	12.5	0.0	7	0.00
SR	Andhra Pradesh	12726	0	239.0	88.6	-0.4	556	0.00
	Telangana	15008	0	298.6	173.7	-0.9	688	0.00
	Karnataka	16331	0	322.7	164.2	-0.6	825	0.00
	Kerala	4761	0	96.7	75.7	1.4	623	0.00
	Tamil Nadu	18293	0	390.9	227.6	1.7	744	0.00
	Puducherry	434	0	10.0	9.5	-0.1	33	0.00
ER	Bihar	4827	0	89.2	77.0	0.1	423	0.00
	DVC	3345	0	71.6	-43.1	1.0	286	0.00
	Jharkhand	1635	0	33.7	22.9	-1.5	222	1.42
	Odisha	5895	0	129.8	62.2	-0.8	568	0.00
	West Bengal	7684	0	164.9	26.6	-1.9	189	0.00
	Sikkim	109	0	2.0	1.9	0.1	45	0.00
	Railways ER ISTS	12	0	0.1	0.1	0.0	0	0.00
NER	Arunachal Pradesh	166	0	2.8	2.9	-0.2	23	0.00
	Assam	1564	0	28.0	24.6	0.2	74	0.00
	Manipur	226	0	3.3	3.2	0.1	26	0.00
	Meghalaya	336	0	6.5	5.0	0.0	27	0.00
	Mizoram	132	0	2.1	1.6	0.0	12	0.00
	Nagaland	134	0	2.2	2.2	-0.1	18	0.00
Tripura	228	0	4.1	3.8	-0.1	21	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.6	-12.9	-22.0	-24.8
Day Peak (MW)	-572.0	-657.3	-1072.0	-1428.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	75.7	-268.8	302.5	-117.4	8.0	0.0
Actual(MU)	57.1	-262.6	317.6	-127.5	9.2	-6.2
O/D/U/D(MU)	-18.5	6.1	15.1	-10.1	1.2	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5699	10171	3618	4432	753	24672	45
State Sector	8161	13527	5131	2747	197	29762	55
Total	13860	23697	8749	7178	950	54434	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	717	1526	736	683	14	3676	76
Lignite	28	18	76	0	0	122	3
Hydro	119	34	55	20	8	236	5
Nuclear	31	37	52	0	0	120	2
Gas, Naptha & Diesel	12	37	6	0	22	77	2
RES (Wind, Solar, Biomass & Others)	206	185	195	8	1	596	12
Total	1114	1837	1120	711	45	4827	100

Share of RES in total generation (%)	18.47	10.08	17.43	1.13	2.62	12.33
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.99	14.00	26.99	3.96	20.96	19.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
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	212226	9:40	0
Non-Solar hr	192808	19:11	495

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: 10-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	151	557	0.0	5.8	-5.8
4	765 kV	SASARAM-FATEHPUR	1	0	350	0.0	5.6	-5.6
5	765 kV	GAYA-BALIA	1	0	449	0.0	4.4	-4.4
6	400 kV	PUSAULI-VARANASI	1	0	84	0.0	1.4	-1.4
7	400 kV	PUSAULI-ALLAHABAD	1	37	34	0.2	0.0	0.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	260	367	0.0	0.5	-0.5
9	400 kV	PATNA-BALIA	2	0	386	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	15	184	0.0	2.5	-2.5
11	400 kV	BIHARSHARIFF-BALIA	2	233	76	1.6	0.0	1.6
12	400 kV	MOTIHARI-GORAKHPUR	2	0	342	0.0	4.4	-4.4
13	400 kV	BIHARSHARIFF-VARANASI	2	50	233	0.0	2.1	-2.1
14	220 kV	SAHUPURI-KARAMNANA	1	27	52	0.0	0.2	-0.2
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						1.8	36.4	-34.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1078	0	14.0	0.0	14.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1314	0.0	19.1	-19.1
3	765 kV	JHARSUGUDA-DURG	2	0	649	0.0	11.9	-11.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	524	0.0	7.6	-7.6
5	400 kV	RANCHI-SIPAT	2	0	397	0.0	5.9	-5.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	377	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	145	657	1.7	0.0	1.7
ER-WR						15.7	46.4	-30.7
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	1979	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	3082	0.0	58.3	-58.3
4	400 kV	TALCHER-I/C	2	412	232	7.5	0.0	7.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	111.3	-111.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	9	0.6	1.2	-0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	522	559	2.5	0.0	2.5
3	220 kV	ALIPURDUAR-SALAKATI	2	46	65	0.1	0.0	0.1
ER-NER						3.2	1.2	2.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	708	354	12.3	2.0	10.3
NER-NR						12.3	2.0	10.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2006	0.0	48.1	-48.1
2	HVDC	VINDHYACHAL B/B	-	425	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	302	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	306	1274	0.6	7.8	-7.2
5	765 kV	GWALIOR-PHAGI	2	958	1424	3.7	12.6	-8.9
6	765 kV	JABALPUR-ORAI	2	369	568	0.0	1.1	-1.1
7	765 kV	GWALIOR-ORAI	1	695	0	11.2	0.0	11.2
8	765 kV	SATNA-ORAI	1	0	966	0.0	16.9	-16.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1440	195	14.7	0.1	14.6
10	765 kV	VINDHYACHAL-VARANASI	2	0	1815	0.0	21.9	-21.9
11	400 kV	ZERDA-KANKROLI	1	313	0	4.1	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	314	0	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	786	176	7.7	0.3	7.4
15	220 kV	BHANPURA-RANPUR	1	0	124	0.0	2.1	-2.1
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.5	-1.5
17	220 kV	MEHGAON-AURAIYA	1	104	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	75	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						81.2	119.6	-38.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	117.9	-117.9
3	765 kV	SOLAPUR-RAICHUR	2	0	1724	0.0	24.9	-24.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2883	0.0	50.4	-50.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3039	0.0	55.3	-55.3
6	400 kV	KOLHAPUR-KUDGI	2	979	0	15.1	0.0	15.1
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	124	2.3	0.0	2.3
WR-SR						17.4	272.4	-255.1

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)	-210	127	-97	-2.33
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-260	160	-108	-2.58
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-244	-112	-196	-4.72
	NER	132kV GELEPHU-SALAKATI	-21	2	-11	-0.26
	NER	132kV MOTANGA-RANGIA	25	-4	12	0.29
NEPAL	NR	NEPAL IMPORT (FROM UP)	-71	0	-52	-1.25
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-71	0	-53	-1.28
	ER	NEPAL IMPORT (FROM BIHAR)	-171	-6	-86	-2.06
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-486	12	-347	-8.33
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-945	-657	-809	-19.43
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1429	-809	-1035	-24.84
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-106	-2.54

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-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	10.56	0.00	0.00	0.08	0.00	0.00	10.64
Nepal	0.24	0.00	9.08	0.00	0.00	0.00	0.00	0.00	9.32
Bangladesh	19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.68	0.00	19.64	0.00	0.00	0.08	0.00	0.00	39.40

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37
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	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37

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	0.37	0.00	-10.56	0.00	0.00	-0.08	0.00	0.00	-10.27
Nepal	-0.24	0.00	-9.08	0.00	0.00	0.00	0.00	0.00	-9.32
Bangladesh	-19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.31	0.00	-19.64	0.00	0.00	-0.08	0.00	0.00	-39.03