



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 09th 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 08.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 08th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	50373	59664	51427	22571	2641	186676
Peak Shortage (MW)	350	0	0	0	0	350
Energy Met (MU)	1099	1434	1374	490	50	4447
Hydro Gen (MU)	114	33	53	18	10	228
Wind Gen (MU)	19	75	27	-	-	121
Solar Gen (MU)*	166.34	88.43	136.62	5.13	1.20	398
Energy Shortage (MU)	0.54	0.00	0.00	0.70	0.00	1.24
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59333	68648	68084	22395	2715	219016
Time Of Maximum Demand Met	10:26	10:27	11:39	18:35	18:42	10:38

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	0.86	4.84	5.69	75.88	18.42

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	8348	0	159.7	69.1	1.0	210	0.00
	Haryana	7225	0	143.5	100.5	-0.6	169	0.00
	Rajasthan	16263	0	301.7	93.4	-1.8	251	0.00
	Delhi	4419	0	70.6	62.3	-0.4	231	0.00
	UP	16112	0	292.0	35.5	-1.1	690	0.00
	Uttarakhand	2255	0	39.1	23.7	0.9	280	0.18
	HP	1952	0	32.3	26.6	-0.4	81	0.01
	J&K(UT) & Ladakh(UT)	2787	0	52.6	52.2	-0.2	195	0.35
	Chandigarh	228	0	3.4	3.4	0.0	37	0.00
Railways NR ISTS	186	0	3.7	3.6	0.1	19	0.00	
WR	Chhattisgarh	5816	0	129.4	70.7	-0.3	531	0.00
	Gujarat	18427	0	389.3	171.0	-0.3	541	0.00
	MP	13592	0	250.2	141.9	-4.6	465	0.00
	Maharashtra	27220	0	593.7	191.4	-4.3	658	0.00
	Goa	719	0	14.7	11.9	2.4	52	0.00
	DNHDDPDCL	1202	0	26.2	26.8	-0.6	35	0.00
	AMNSIL	891	0	18.4	8.3	0.0	268	0.00
	BALCO	523	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	13231	0	240.5	91.5	-0.8	712	0.00
	Telangana	15623	0	305.2	174.2	0.9	1351	0.00
	Karnataka	17178	0	328.9	170.4	-0.9	766	0.00
	Kerala	4593	0	95.6	73.9	1.6	420	0.00
	Tamil Nadu	18754	0	394.2	233.0	0.7	631	0.00
	Puducherry	413	0	9.5	9.3	-0.4	34	0.00
ER	Bihar	4656	0	90.3	79.2	-1.1	316	0.23
	DVC	3378	0	71.3	-45.2	0.5	287	0.00
	Jharkhand	1642	0	34.3	22.3	-1.1	180	0.47
	Odisha	5874	0	129.4	59.3	-2.3	389	0.00
	West Bengal	7729	0	163.0	24.1	-1.9	223	0.00
	Sikkim	118	0	2.0	1.6	0.4	53	0.00
	Railways ER ISTS	16	0	0.2	0.1	0.1	0	0.00
NER	Arunachal Pradesh	167	0	2.9	3.0	-0.2	32	0.00
	Assam	1558	0	29.5	23.3	1.1	125	0.00
	Manipur	223	0	3.1	3.2	-0.1	29	0.00
	Meghalaya	348	0	6.1	5.3	-0.1	38	0.00
	Mizoram	125	0	1.8	1.5	-0.2	22	0.00
	Nagaland	131	0	2.1	2.2	-0.2	8	0.00
	Tripura	238	0	4.1	3.9	-0.1	37	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.4	-14.0	-22.1	-22.4
Day Peak (MW)	-549.0	-632.2	-1057.0	-1223.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	70.8	-280.2	317.6	-113.2	5.1	0.0
Actual(MU)	53.4	-283.4	337.5	-124.5	6.7	-10.3
O/D/U/D(MU)	-17.4	-3.2	19.9	-11.3	1.6	-10.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6337	10199	4778	4592	753	26658	48
State Sector	8161	12367	4264	3597	197	28585	52
Total	14497	22565	9042	8189	950	55243	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	728	1544	740	681	14	3708	77
Lignite	24	18	71	0	0	113	2
Hydro	114	33	53	18	10	228	5
Nuclear	31	37	52	0	0	120	2
Gas, Naptha & Diesel	12	44	6	0	24	87	2
RES (Wind, Solar, Biomass & Others)	204	166	197	7	1	575	12
Total	1113	1842	1120	706	49	4831	100

Share of RES in total generation (%)	18.31	9.01	17.60	0.98	2.48	11.91
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.45	12.82	27.01	3.58	22.05	19.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.009
Based on State Max Demands	1.023

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	219016	10:38	0
Non-Solar hr	189593	18:59	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: 09-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	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	19	587	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	0	383	0.0	6.5	-6.5
5	765 kV	GAYA-BALIA	1	10	418	0.0	4.2	-4.2
6	400 kV	PUSAULI-VARANASI	1	0	94	0.0	1.5	-1.5
7	400 kV	PUSAULI-ALLAHABAD	1	46	39	0.4	0.0	0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	249	430	0.0	1.0	-1.0
9	400 kV	PATNA-BALIA	2	0	394	0.0	9.3	-9.3
10	400 kV	NAUBATPUR-BALIA	2	0	193	0.0	2.5	-2.5
11	400 kV	BIHARSHARIF-BALIA	2	191	102	1.4	0.0	1.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	365	0.0	4.6	-4.6
13	400 kV	BIHARSHARIF-VARANASI	2	0	255	0.0	2.3	-2.3
14	220 kV	SAHUPURI-KARAMNANA	1	20	46	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	0.2	0.0	0.2
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						1.9	39.8	-37.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1326	0	17.5	0.0	17.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1185	0.0	21.1	-21.1
3	765 kV	JHARSUGUDA-DURG	2	0	613	0.0	12.0	-12.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	386	0.0	6.2	-6.2
5	400 kV	RANCHI-SIPAT	2	0	368	0.0	6.3	-6.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	161	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	128	10	1.7	0.0	1.7
ER-WR						19.1	48.4	-29.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	636	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	41.2	-41.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2987	0.0	59.6	-59.6
4	400 kV	TALCHER-I/C	2	413	230	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	115.3	-115.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	6	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	609	0	9.1	0.0	9.1
3	220 kV	ALIPURDUAR-SALAKATI	2	53	0	0.8	0.0	0.8
ER-NER						11.9	0.0	11.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	711	0	17.5	0.0	17.5
NER-NR						17.5	0.0	17.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2006	0.0	47.8	-47.8
2	HVDC	VINDHYACHAL B/B	-	262	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	9.4	-9.4
4	765 kV	GWALIOR-AGRA	2	377	1437	1.1	9.4	-8.2
5	765 kV	GWALIOR-PHAGI	2	830	1341	3.0	15.1	-12.1
6	765 kV	JABALPUR-ORAI	2	392	593	0.0	1.9	-1.9
7	765 kV	GWALIOR-ORAI	1	814	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	944	0.0	17.2	-17.2
9	765 kV	BANASKANTHA-CHITORGARH	2	1512	188	19.0	0.0	19.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	1588	0.0	18.4	-18.4
11	400 kV	ZERDA-KANKROLI	1	403	19	5.0	0.0	5.0
12	400 kV	ZERDA -BHINMAL	1	307	19	1.2	0.0	1.2
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.2	0.0	22.2
14	400 kV	RAPP-SHUJALPUR	2	825	209	6.9	0.4	6.5
15	220 kV	BHANPURA-RANPUR	1	0	134	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	104	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	74	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						80.9	123.3	-42.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1015	0.0	22.0	-22.0
2	HVDC	RAIGARH-PUGALUR	2	0	6026	0.0	124.7	-124.7
3	765 kV	SOLAPUR-RAICHUR	2	0	1959	0.0	27.7	-27.7
4	765 kV	WARDHA-NIZAMABAD	2	0	3090	0.0	55.7	-55.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3039	0.0	56.8	-56.8
6	400 kV	KOLHAPUR-KUDGI	2	976	0	14.3	0.0	14.3
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	123	2.3	0.0	2.3
WR-SR						16.6	286.8	-270.2

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)	-189	94	92	2.20
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-240	150	-126	-3.03
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-235	-116	-201	-4.82
	NER	132kV GELEPHU-SALAKATI	-27	-8	-17	-0.40
	NER	132kV MOTANGA-RANGIA	17	-7	3	0.08
NEPAL	NR	NEPAL IMPORT (FROM UP)	-68	0	-63	-1.51
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-68	0	-55	-1.31
	ER	NEPAL IMPORT (FROM BIHAR)	-155	-52	-87	-2.09
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-477	-101	-379	-9.09
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-937	-649	-816	-19.58
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1223	-806	-931	-22.35
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-120	0	-107	-2.56

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 09-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	11.38	0.00	0.00	0.03	0.00	0.00	11.41
Nepal	0.22	0.00	8.93	0.00	0.00	0.51	0.00	0.00	9.66
Bangladesh	19.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.83	0.00	20.31	0.00	0.00	0.54	0.00	0.00	40.68

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71
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	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71

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	0.71	0.00	-11.38	0.00	0.00	-0.03	0.00	0.00	-10.70
Nepal	-0.22	0.00	-8.93	0.00	0.00	-0.51	0.00	0.00	-9.66
Bangladesh	-19.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.12	0.00	-20.31	0.00	0.00	-0.54	0.00	0.00	-39.97