



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: 20th 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 19.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 20-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)	53274	62349	52440	22971	2828	193862
Peak Shortage (MW)	351	0	0	134	0	485
Energy Met (MU)	1201	1482	1357	504	52	4596
Hydro Gen (MU)	129	31	42	16	8	225
Wind Gen (MU)	18	70	39	-	-	128
Solar Gen (MU)*	160.83	83.46	128.76	3.24	0.86	377
Energy Shortage (MU)	0.67	0.00	0.00	0.86	0.00	1.53
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59975	68444	65287	23616	2954	215800
Time Of Maximum Demand Met	10:16	11:01	10:28	18:32	18:12	10:52

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	0.026	0.00	0.00	2.09	2.09	80.22	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	9598	0	176.1	71.2	0.6	257	0.00
	Haryana	7677	0	152.3	108.0	-0.4	137	0.00
	Rajasthan	15426	0	294.1	70.4	-0.7	424	0.00
	Delhi	3762	0	71.9	63.0	0.6	260	0.00
	UP	18244	0	370.1	113.3	-0.3	519	0.00
	Uttarakhand	2049	0	41.0	25.6	-0.8	194	0.05
	HP	1809	0	31.7	24.1	-0.6	80	0.62
	J&K(UT) & Ladakh(UT)	2797	0	56.7	48.2	-2.1	101	0.00
	Chandigarh	204	0	3.4	3.5	-0.1	12	0.00
Railways NR ISTS	191	0	3.7	3.7	0.0	23	0.00	
WR	Chhattisgarh	4559	0	99.7	40.5	-1.6	430	0.00
	Gujarat	21220	0	440.4	168.8	-1.6	585	0.00
	MP	12701	0	253.6	145.7	-5.5	592	0.00
	Maharashtra	27749	0	610.9	195.5	-2.0	952	0.00
	Goa	713	0	14.7	11.7	2.6	36	0.00
	DNHDDPDCL	1283	0	29.5	29.3	0.2	59	0.00
	AMNSIL	915	0	20.4	9.8	0.0	230	0.00
	BALCO	522	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12802	0	238.8	87.7	-1.8	569	0.00
	Telangana	13695	0	277.4	163.2	0.5	1042	0.00
	Karnataka	16252	0	326.4	155.0	-1.2	832	0.00
	Kerala	5034	0	100.6	83.1	0.9	286	0.00
	Tamil Nadu	19013	0	403.6	240.9	-0.8	510	0.00
	Puducherry	435	0	10.1	9.6	-0.2	42	0.00
ER	Bihar	4836	0	98.9	92.1	0.7	261	0.17
	DVC	3382	0	71.4	-41.4	0.9	916	0.00
	Jharkhand	1732	0	33.1	23.1	-1.7	372	0.69
	Odisha	5490	0	121.7	45.1	-2.3	362	0.00
	West Bengal	8334	0	177.2	31.0	-1.9	145	0.00
	Sikkim	111	0	1.7	1.6	0.2	53	0.00
	Railways ER ISTS	15	0	0.2	0.2	0.0	1	0.00
NER	Arunachal Pradesh	164	0	3.0	2.7	0.2	40	0.00
	Assam	1697	0	31.5	25.4	0.6	132	0.00
	Manipur	210	0	3.1	3.2	-0.1	26	0.00
	Meghalaya	354	0	6.1	5.3	-0.1	69	0.00
	Mizoram	127	0	2.0	1.6	-0.1	31	0.00
	Nagaland	157	0	2.4	2.3	0.0	24	0.00
Tripura	266	0	4.0	4.4	-0.2	117	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.1	-13.3	-24.7	-24.2
Day Peak (MW)	-662.0	-703.1	-1078.0	-1030.8

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	128.5	-311.3	314.5	-143.9	12.3	0.0
Actual(MU)	123.5	-321.3	332.9	-155.2	12.0	-8.2
O/D/U/D(MU)	-5.1	-10.0	18.4	-11.3	-0.3	-8.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6299	9066	5068	2782	351	23565	50
State Sector	7381	9000	3433	3432	120	23365	50
Total	13680	18066	8501	6213	471	46930	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	753	1611	744	741	13	3862	77
Lignite	29	23	73	0	0	126	3
Hydro	129	31	42	16	8	225	4
Nuclear	31	58	45	0	0	134	3
Gas, Naptha & Diesel	14	51	4	0	25	94	2
RES (Wind, Solar, Biomass & Others)	199	156	203	5	1	565	11
Total	1155	1931	1111	761	47	5005	100

Share of RES in total generation (%)	17.22	8.08	18.30	0.67	1.84	11.28
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.11	12.76	26.11	2.74	18.22	18.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.047

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215800	10:52	0
Non-Solar hr	196199	19:12	485

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: 20-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	41	675	0.0	11.6	-11.6
4	765 kV	SASARAM-FATEHPUR	1	0	436	0.0	8.1	-8.1
5	765 kV	GAYA-BALIA	1	0	517	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	0	60	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	10	44	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	301	254	0.2	0.0	0.2
9	400 kV	PATNA-BALIA	2	0	463	0.0	9.8	-9.8
10	400 kV	NAUBATPUR-BALIA	2	0	228	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	238	6	2.4	0.0	2.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	384	0.0	5.7	-5.7
13	400 kV	BIHARSHARIFF-VARANASI	2	86	113	0.0	1.0	-1.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	89	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	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						2.6	51.8	-49.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	687	1	7.1	0.0	7.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	755	0.0	9.4	-9.4
3	765 kV	JHARSUGUDA-DURG	2	0	606	0.0	12.5	-12.5
4	400 kV	JHARSUGUDA-RAIGARH	4	130	375	0.0	4.3	-4.3
5	400 kV	RANCHI-SIPAT	2	0	250	0.0	3.6	-3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	66	66	0.0	0.1	-0.1
7	220 kV	BUDHIPADAR-KORBA	2	140	0	1.6	0.0	1.6
ER-WR						8.7	29.9	-21.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	624	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	46.2	-46.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2994	0.0	62.1	-62.1
4	400 kV	TALCHER-I/C	2	0	711	0.0	13.2	-13.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	123.1	-123.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	8	0.7	0.4	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	601	149	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	62	14	0.4	0.0	0.4
ER-NER						4.6	0.4	4.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	664	0	16.1	0.0	16.1
NER-NR						16.1	0.0	16.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1499	0.0	35.8	-35.8
2	HVDC	VINDHYACHAL B/B	-	106	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1453	0.0	28.7	-28.7
4	765 kV	GWALIOR-AGRA	2	0	1444	0.0	19.6	-19.6
5	765 kV	GWALIOR-PHAGI	2	656	1200	2.6	13.4	-10.8
6	765 kV	JABALPUR-ORAI	2	49	663	0.0	15.5	-15.5
7	765 kV	GWALIOR-ORAI	1	698	0	10.9	0.0	10.9
8	765 kV	SATNA-ORAI	1	0	1004	0.0	19.8	-19.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1859	0	20.3	0.0	20.3
10	765 kV	VINDHYACHAL-VARANASI	2	0	1994	0.0	31.9	-31.9
11	400 kV	ZERDA-KANKROLI	1	346	0	4.0	0.0	4.0
12	400 kV	ZERDA -BHINMAL	1	348	0	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	977	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUALPUR	2	605	69	4.7	0.1	4.6
15	220 kV	BHANPURA-RANPUR	1	0	141	0.0	2.4	-2.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	92	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	53	0	0.7	0.0	0.7
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						72.6	168.1	-95.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	15.7	-15.7
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	113.4	-113.4
3	765 kV	SOLAPUR-RAICHUR	2	0	1694	0.0	25.8	-25.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2573	0.0	50.4	-50.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2797	0.0	56.8	-56.8
6	400 kV	KOLHAPUR-KUDGI	2	1094	0	13.6	0.0	13.6
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	2.2	0.0	2.2
WR-SR						15.8	262.1	-246.3

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)	-220	61	-85	-2.04
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-279	112	-167	-4.00
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-318	-129	-223	-5.36
	NER	132kV GELEPHU-SALAKATI	-18	1	-9	-0.22
NEPAL	NER	132kV MOTANGA-RANGIA	28	11	20	0.49
	NR	NEPAL IMPORT (FROM UP)	0	0	0	1.34
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-58	-1.39
	ER	NEPAL IMPORT (FROM BIHAR)	-187	-7	-98	-2.34
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-516	-157	-456	-10.94
	ER	BHERAMARA B/B HVDC (B'DESH)	-938	-787	-904	-21.68
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1031	-914	-1008	-24.19
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-140	0	-125	-3.00

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 20-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	11.82	0.00	0.00	0.29	0.00	0.00	12.11
Nepal	0.20	0.00	11.16	0.00	0.00	0.23	0.00	0.00	11.59
Bangladesh	21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.90	0.00	22.98	0.00	0.00	0.52	0.00	0.00	45.40

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33
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	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33

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	0.33	0.00	-11.82	0.00	0.00	-0.29	0.00	0.00	-11.78
Nepal	-0.20	0.00	-11.16	0.00	0.00	-0.23	0.00	0.00	-11.59
Bangladesh	-21.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.70
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.57	0.00	-22.98	0.00	0.00	-0.52	0.00	0.00	-45.07