

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: 19th 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 18.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 19-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)	53697	63172	52831	22750	2813	195263
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1189	1491	1349	512	52	4593
Hydro Gen (MU)	126	29	43	17	8	223
Wind Gen (MU)	11	80	38	-	-	129
Solar Gen (MU)*	165.38	79.61	132.23	2.00	1.02	380
Energy Shortage (MU)	0.00	0.00	0.00	0.67	0.00	0.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60011	69627	65884	24145	2962	218272
Time Of Maximum Demand Met	10:58	10:40	11:57	20:27	18:03	10:43

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	0.033	0.00	0.15	4.64	4.79	77.43	17.78

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	10058	0	177.5	77.9	-1.3	163	0.00
	Haryana	7644	0	149.1	106.1	-0.9	105	0.00
	Rajasthan	15117	0	292.5	70.6	0.5	343	0.00
	Delhi	3754	0	69.5	62.2	-0.7	241	0.00
	UP	18115	0	366.8	112.5	0.0	566	0.00
	Uttarakhand	2031	0	40.3	25.2	-0.8	101	0.00
	HP	1743	0	30.5	24.6	-0.5	60	0.00
	J&K(UT) & Ladakh(UT)	2743	0	55.5	47.3	-3.6	0	0.00
	Chandigarh	203	0	3.4	3.6	-0.2	6	0.00
Railways NR ISTS	192	0	3.9	3.7	0.2	24	0.00	
WR	Chhattisgarh	5613	0	117.5	60.6	-5.9	399	0.00
	Gujarat	21388	0	434.6	175.2	-0.8	837	0.00
	MP	13142	0	256.0	143.3	-4.1	506	0.00
	Maharashtra	27715	0	608.3	193.1	-2.9	836	0.00
	Goa	706	0	14.1	11.5	2.2	41	0.00
	DNHDDPDCL	1278	0	28.9	28.9	0.0	61	0.00
	AMNSIL	904	0	19.3	9.0	0.2	291	0.00
	BALCO	523	0	12.5	12.5	0.0	7	0.00
SR	Andhra Pradesh	12849	0	239.9	81.5	-1.3	694	0.00
	Telangana	14032	0	278.8	159.2	0.1	556	0.00
	Karnataka	16583	0	327.7	152.4	-4.0	538	0.00
	Kerala	5005	0	100.1	83.0	1.3	437	0.00
	Tamil Nadu	18604	0	393.2	237.3	0.9	426	0.00
	Puducherry	437	0	9.8	9.3	-0.1	26	0.00
ER	Bihar	4947	0	102.1	95.4	0.4	433	0.32
	DVC	3369	0	70.9	-42.7	-1.4	241	0.00
	Jharkhand	1798	125	34.4	24.6	-2.8	226	0.35
	Odisha	6046	0	126.1	50.1	-1.3	343	0.00
	West Bengal	8394	0	176.8	33.7	-1.4	175	0.00
	Sikkim	106	0	1.7	1.4	0.3	38	0.00
Railways ER ISTS	13	0	0.1	0.1	0.0	4	0.00	
NER	Arunachal Pradesh	166	0	2.2	2.7	-0.6	71	0.00
	Assam	1721	0	31.0	24.4	0.8	112	0.00
	Manipur	212	0	3.1	3.0	0.1	31	0.00
	Meghalaya	382	0	5.9	5.4	-0.1	77	0.00
	Mizoram	128	0	2.3	1.6	0.4	21	0.00
	Nagaland	144	0	2.4	2.3	0.1	22	0.00
Tripura	263	0	4.6	4.6	0.4	57	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.1	-12.8	-25.0	-23.9
Day Peak (MW)	-537.8	-379.6	-1097.0	-1023.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	128.3	-296.2	304.0	-145.5	9.4	0.0
Actual(MU)	120.6	-297.4	320.7	-159.7	10.1	-5.7
O/D/U/D(MU)	-7.7	-1.2	16.7	-14.2	0.7	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5799	7831	5318	2442	567	21957	52
State Sector	7286	7900	2591	2722	120	20618	48
Total	13085	15731	7909	5164	687	42575	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	753	1601	746	752	15	3867	77
Lignite	28	22	72	0	0	122	2
Hydro	126	29	43	17	8	223	4
Nuclear	31	58	43	0	0	132	3
Gas, Naptha & Diesel	14	45	6	0	25	90	2
RES (Wind, Solar, Biomass & Others)	196	163	204	4	1	569	11
Total	1148	1919	1114	773	48	5003	100

Share of RES in total generation (%)	17.11	8.51	18.33	0.54	2.09	11.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.77	13.08	26.05	2.80	18.00	18.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.044

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	218272	10:43	0
Non-Solar hr	197706	19:20	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: 19-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	0	791	0.0	12.3	-12.3
4	765 kV	SASARAM-FATEHPUR	1	0	438	0.0	7.9	-7.9
5	765 kV	GAYA-BALIA	1	0	578	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	1	59	0.0	0.9	-0.9
7	400 kV	PUSAULI-ALLAHABAD	1	10	51	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	270	384	0.0	0.6	-0.6
9	400 kV	PATNA-BALIA	2	0	516	0.0	13.5	-13.5
10	400 kV	NAUBATPUR-BALIA	2	0	346	0.0	4.2	-4.2
11	400 kV	BIHARSHARIF-BALIA	2	239	77	2.2	0.0	2.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	365	0.0	5.1	-5.1
13	400 kV	BIHARSHARIF-VARANASI	2	68	134	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNANA	1	0	76	0.0	1.1	-1.1
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						2.2	56.7	-54.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	673	337	3.5	0.0	3.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	123	919	0.0	10.0	-10.0
3	765 kV	JHARSUGUDA-DURG	2	0	731	0.0	8.1	-8.1
4	400 kV	JHARSUGUDA-RAIGARH	4	25	755	0.0	9.4	-9.4
5	400 kV	RANCHI-SIPAT	2	18	325	0.0	4.5	-4.5
6	220 kV	BUDHIPADAR-RAIGARH	1	55	127	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	186	0	2.5	0.0	2.5
ER-WR						6.0	33.0	-27.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	622	0.0	14.4	-14.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	43.5	-43.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3080	0.0	60.6	-60.6
4	400 kV	TALCHER-I/C	2	0	685	0.0	10.4	-10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	118.5	-118.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	6	0.5	0.2	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	681	0	5.7	0.0	5.7
3	220 kV	ALIPURDUAR-SALAKATI	2	51	9	0.4	0.0	0.4
ER-NER						6.5	0.2	6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	668	0	16.2	0.0	16.2
NER-NR						16.2	0.0	16.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2501	0.0	41.7	-41.7
2	HVDC	VINDHYACHAL B/B	-	107	0	2.4	0.0	2.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1267	0.0	24.8	-24.8
4	765 kV	GWALIOR-AGRA	2	191	1960	0.0	17.5	-17.5
5	765 kV	GWALIOR-PHAGI	2	727	1306	2.5	14.0	-11.6
6	765 kV	JABALPUR-ORAI	2	104	878	0.0	12.1	-12.1
7	765 kV	GWALIOR-ORAI	1	735	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1073	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1746	98	22.3	0.0	22.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2115	0.0	28.8	-28.8
11	400 kV	ZERDA-KANKROLI	1	327	37	4.2	0.0	4.2
12	400 kV	ZERDA -BHINMAL	1	327	37	4.0	0.0	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.1	0.0	22.1
14	400 kV	RAPP-SHUJALPUR	2	631	323	5.2	0.9	4.3
15	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	99	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	68	14	0.8	0.0	0.8
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						76.4	162.3	-85.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	6022	0.0	116.2	-116.2
3	765 kV	SOLAPUR-RAICHUR	2	0	1505	0.0	18.1	-18.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2622	0.0	44.4	-44.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2855	0.0	53.6	-53.6
6	400 kV	KOLHAPUR-KUDGI	2	1019	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	122	2.3	0.0	2.3
WR-SR						17.4	256.3	-238.9

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)	-195	62	-84	-2.02
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-258	204	-103	-2.48
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-353	-118	-243	-5.82
	NER	132kV GELEPHU-SALAKATI	-23	-1	-10	-0.24
	NER	132kV MOTANGA-RANGIA	39	8	20	0.49
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	1.04
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-55	-1.33
	ER	NEPAL IMPORT (FROM BIHAR)	184	0	-96	-2.30
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-564	-176	-425	-10.21
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-797	-912	-21.88
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1023	-807	-995	-23.88
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	153	0	-130	-3.12

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 19-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	11.31	0.00	0.00	0.00	0.00	0.00	11.31
Nepal	0.19	0.00	10.98	0.00	0.00	0.12	0.00	0.00	11.29
Bangladesh	21.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.86
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.05	0.00	22.29	0.00	0.00	0.12	0.00	0.00	44.46

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58
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	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58

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	0.58	0.00	-11.31	0.00	0.00	0.00	0.00	0.00	-10.73
Nepal	-0.19	0.00	-10.98	0.00	0.00	-0.12	0.00	0.00	-11.29
Bangladesh	-21.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.86
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.47	0.00	-22.29	0.00	0.00	-0.12	0.00	0.00	-43.88