



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: 18th 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 17.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	51368	60339	47907	22750	2737	185101
Peak Shortage (MW)	0	0	0	294	0	294
Energy Met (MU)	1161	1462	1286	488	49	4445
Hydro Gen (MU)	120	25	33	19	8	206
Wind Gen (MU)	29	89	41	-	-	159
Solar Gen (MU)*	153.88	80.17	133.08	2.27	1.09	370
Energy Shortage (MU)	1.09	0.00	0.00	0.99	0.00	2.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56863	66416	60604	23304	2784	205066
Time Of Maximum Demand Met	09:41	10:32	11:58	18:47	18:01	10:25

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	0.02	3.45	3.47	76.07	20.46

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	9183	0	178.8	94.0	-1.0	330	0.00
	Haryana	6650	0	136.1	105.5	-1.0	200	0.00
	Rajasthan	14717	0	290.4	57.4	-2.1	329	0.00
	Delhi	3582	0	65.1	56.8	0.1	243	0.00
	UP	17529	0	361.2	113.1	-1.7	250	0.00
	Uttarakhand	1953	0	38.1	23.6	0.4	90	0.00
	HP	1613	0	27.1	21.3	-0.3	69	1.09
	J&K(UT) & Ladakh(UT)	2772	0	57.2	49.3	0.5	225	0.00
	Chandigarh	178	0	3.1	3.3	-0.2	12	0.00
Railways NR ISTS	182	0	4.0	3.7	0.3	41	0.00	
WR	Chhattisgarh	6005	0	133.5	69.0	2.6	419	0.00
	Gujarat	19910	0	415.4	175.4	-1.1	678	0.00
	MP	12887	0	252.9	136.0	-5.5	612	0.00
	Maharashtra	26246	0	587.8	192.5	-4.9	618	0.00
	Goa	632	0	12.4	10.7	1.3	45	0.00
	DNHDDPDCL	1209	0	28.1	28.0	0.1	36	0.00
	AMNSIL	858	0	19.2	9.1	0.1	266	0.00
BALCO	521	0	12.4	12.5	-0.1	9	0.00	
SR	Andhra Pradesh	12646	0	236.7	75.9	-1.2	438	0.00
	Telangana	13157	0	268.1	161.2	-1.2	877	0.00
	Karnataka	15322	0	309.5	151.0	-2.5	505	0.00
	Kerala	4835	0	92.3	75.7	1.5	367	0.00
	Tamil Nadu	16799	0	370.4	226.8	-2.5	502	0.00
	Puducherry	393	0	9.3	9.0	-0.3	35	0.00
ER	Bihar	5127	0	103.2	97.7	-1.1	144	0.00
	DVC	3330	0	69.9	-43.5	-0.4	276	0.00
	Jharkhand	1692	0	34.7	23.3	-1.4	258	0.99
	Odisha	5545	0	119.8	44.2	-1.2	288	0.00
	West Bengal	7766	0	158.4	28.0	-2.2	298	0.00
	Sikkim	86	0	1.5	1.4	0.0	31	0.00
Railways ER ISTS	17	0	0.2	0.1	0.1	0	0.00	
NER	Arunachal Pradesh	189	0	2.9	2.7	0.1	32	0.00
	Assam	1624	0	29.0	23.2	0.4	145	0.00
	Manipur	203	0	3.0	3.0	0.0	30	0.00
	Meghalaya	346	0	5.8	5.2	-0.1	257	0.00
	Mizoram	104	0	1.7	1.4	-0.2	15	0.00
	Nagaland	154	0	2.4	2.3	0.0	25	0.00
Tripura	263	0	4.0	4.4	0.4	82	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.1	-12.8	-24.7	-23.3
Day Peak (MW)	-622.0	-827.6	-1089.0	-1029.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	132.4	-293.3	284.2	-132.7	9.3	0.0
Actual(MU)	124.1	-290.3	293.3	-140.9	9.3	-4.5
O/D/U/D(MU)	-8.3	3.0	9.1	-8.3	0.0	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5799	7921	5878	2442	546	22586	50
State Sector	8211	8395	2826	3067	120	22618	50
Total	14010	16316	8704	5509	666	45204	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	717	1566	710	707	11	3710	77
Lignite	29	22	68	0	0	119	2
Hydro	120	25	33	19	8	206	4
Nuclear	31	58	52	0	0	141	3
Gas, Naptha & Diesel	12	30	6	0	25	73	2
RES (Wind, Solar, Biomass & Others)	203	171	206	4	1	586	12
Total	1112	1872	1075	730	45	4835	100

Share of RES in total generation (%)	18.28	9.12	19.20	0.58	2.42	12.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.84	13.61	27.14	3.17	20.42	19.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.054

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	205066	10:25	128
Non-Solar hr	187942	6:58	184

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: 18-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	61	726	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	399	0.0	6.8	-6.8
5	765 kV	GAYA-BALIA	1	0	583	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	2	60	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	12	52	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	337	316	0.0	0.3	-0.3
9	400 kV	PATNA-BALIA	2	0	438	0.0	10.4	-10.4
10	400 kV	NAUBATPUR-BALIA	2	1	207	0.0	3.2	-3.2
11	400 kV	BIHARSHARIFF-BALIA	2	281	57	2.0	0.0	2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	51	350	0.0	4.5	-4.5
13	400 kV	BIHARSHARIFF-VARANASI	2	152	219	0.0	1.3	-1.3
14	220 kV	SAHUPURI-KARAMNANA	1	1	106	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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						2.0	49.0	-46.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	519	277	4.4	0.0	4.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	179	745	0.0	8.2	-8.2
3	765 kV	JHARSUGUDA-DURG	2	0	626	0.0	12.4	-12.4
4	400 kV	JHARSUGUDA-RAIGARH	4	0	505	0.0	8.7	-8.7
5	400 kV	RANCHI-SIPAT	2	31	287	0.0	3.9	-3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	19	103	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	145	4	1.6	0.0	1.6
ER-WR						6.0	34.8	-28.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	590	0.0	13.9	-13.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1988	0.0	43.8	-43.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2884	0.0	58.1	-58.1
4	400 kV	TALCHER-I/C	2	648	635	0.0	1.3	-1.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	115.8	-115.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	6	0.9	0.1	0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	587	38	5.9	0.0	5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	35	21	0.2	0.0	0.2
ER-NER						7.0	0.1	6.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	662	0	15.7	0.0	15.7
NER-NR						15.7	0.0	15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2004	0.0	46.9	-46.9
2	HVDC	VINDHYACHAL B/B	-	508	0	10.8	0.0	10.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1267	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	0	1709	0.0	18.4	-18.4
5	765 kV	GWALIOR-PHAGI	2	649	1349	2.4	12.3	-9.9
6	765 kV	JABALPUR-ORAI	2	59	792	0.0	14.3	-14.3
7	765 kV	GWALIOR-ORAI	1	658	0	10.1	0.0	10.1
8	765 kV	SATNA-ORAI	1	0	1032	0.0	19.4	-19.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1738	0	23.1	0.0	23.1
10	765 kV	VINDHYACHAL-VARANASI	2	0	2214	0.0	35.1	-35.1
11	400 kV	ZERDA-KANKROLI	1	323	0	4.8	0.0	4.8
12	400 kV	ZERDA -BHINMAL	1	327	0	4.9	0.0	4.9
13	400 kV	VINDHYACHAL -RIHAND	1	970	0	21.8	0.0	21.8
14	400 kV	RAPP-SHUJALPUR	2	569	269	5.0	0.8	4.2
15	220 kV	BHANPURA-RANPUR	1	0	131	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	98	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	64	4	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						85.0	182.1	-97.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	23.9	-23.9
2	HVDC	RAIGARH-PUGALUR	2	0	5013	0.0	100.9	-100.9
3	765 kV	SOLAPUR-RAICHUR	2	177	1683	0.0	19.5	-19.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2526	0.0	45.2	-45.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2624	0.0	48.2	-48.2
6	400 kV	KOLHAPUR-KUDGI	2	1046	0	14.1	0.0	14.1
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	1	114	1.5	0.0	1.5
WR-SR						15.6	237.7	-222.0

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)	-206	109	-123	-2.95
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	371	-265	-124	-2.99
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-362	-120	-214	-5.14
	NER	132kV GELEPHU-SALAKATI	-20	-3	-10	-0.25
	NER	132kV MOTANGA-RANGIA	26	0	10	0.24
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	0.98
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.30
	ER	NEPAL IMPORT (FROM BIHAR)	-177	-35	-95	-2.28
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-586	-290	-425	-10.21
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-935	-794	-905	-21.73
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1029	-812	-972	-23.33
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-154	0	-126	-3.02

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 18-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	11.55	0.00	0.00	0.28	0.00	0.00	11.83	
Nepal	0.22	0.00	11.19	0.00	0.00	0.00	0.00	0.00	11.41	
Bangladesh	21.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.72	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Export	21.94	0.00	22.74	0.00	0.00	0.28	0.00	0.00	44.96	

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	
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	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	

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	0.34	0.00	-11.55	0.00	0.00	-0.28	0.00	0.00	-11.49	
Nepal	-0.22	0.00	-11.19	0.00	0.00	0.00	0.00	0.00	-11.41	
Bangladesh	-21.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.72	
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
Total Net	-21.60	0.00	-22.74	0.00	0.00	-0.28	0.00	0.00	-44.62	