



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: 16th 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 15.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 16-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)	52787	64470	53389	24283	2738	197667
Peak Shortage (MW)	754	0	0	507	0	1261
Energy Met (MU)	1183	1528	1404	529	50	4694
Hydro Gen (MU)	126	31	48	20	9	233
Wind Gen (MU)	24	75	38	-	-	138
Solar Gen (MU)*	162.06	83.75	128.86	3.02	1.16	379
Energy Shortage (MU)	1.84	0.00	0.00	2.18	0.00	4.02
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59608	69916	68009	24816	2850	221701
Time Of Maximum Demand Met	10:13	10:44	11:43	18:29	18:25	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	0.036	0.00	0.00	5.64	5.64	77.22	17.14

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	9242	0	172.1	66.4	0.1	190	0.00
	Haryana	7336	0	146.2	107.7	-0.6	244	0.42
	Rajasthan	15627	0	299.9	60.3	-1.3	317	0.00
	Delhi	3956	0	71.3	62.8	-0.5	287	0.00
	UP	18132	0	353.2	93.9	0.0	433	1.07
	Uttarakhand	2113	0	41.3	25.2	1.0	196	0.00
	HP	1890	0	34.0	26.9	-0.4	45	0.00
	J&K(UT) & Ladakh(UT)	2777	350	57.4	49.6	0.6	282	0.35
	Chandigarh	218	0	3.5	3.7	-0.2	8	0.00
Railways NR ISTS	188	0	3.7	3.6	0.1	23	0.00	
WR	Chhattisgarh	6020	0	139.2	73.4	-1.0	211	0.00
	Gujarat	20690	0	432.1	173.5	-1.1	1217	0.00
	MP	13594	0	267.7	138.6	-6.1	408	0.00
	Maharashtra	27450	0	613.1	203.2	-3.5	2316	0.00
	Goa	714	0	14.9	12.0	2.5	212	0.00
	DNHDDPDCL	1213	0	28.5	28.5	0.0	63	0.00
	AMNSIL	914	0	20.2	10.0	0.0	275	0.00
	BALCO	521	0	12.4	12.5	-0.1	517	0.00
SR	Andhra Pradesh	13018	0	245.6	89.5	-0.2	814	0.00
	Telangana	15200	0	308.4	183.0	0.2	611	0.00
	Karnataka	16809	0	329.7	158.2	-4.1	575	0.00
	Kerala	4937	0	101.2	82.2	1.3	344	0.00
	Tamil Nadu	19305	0	409.3	247.9	0.4	628	0.00
	Puducherry	439	0	9.9	9.7	-0.3	21	0.00
ER	Bihar	5061	0	104.7	97.1	0.8	318	0.42
	DVC	3210	0	72.9	-50.9	-1.2	210	0.00
	Jharkhand	1678	0	39.1	25.5	0.2	319	1.76
	Odisha	5819	0	127.3	53.3	-1.4	272	0.00
	West Bengal	8831	0	183.2	47.1	-1.0	253	0.00
	Sikkim	107	0	1.8	1.6	0.2	33	0.00
Railways ER ISTS	15	0	0.1	0.2	0.0	9	0.00	
NER	Arunachal Pradesh	161	0	2.8	2.9	-0.2	34	0.00
	Assam	1640	0	29.7	25.5	0.2	196	0.00
	Manipur	202	0	3.1	3.2	-0.2	41	0.00
	Meghalaya	366	0	5.9	5.5	-0.3	42	0.00
	Mizoram	128	0	1.9	1.7	-0.3	8	0.00
	Nagaland	152	0	2.3	2.4	-0.1	13	0.00
Tripura	256	0	4.1	4.8	0.2	55	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-10.5	-15.0	-20.0	-24.0
Day Peak (MW)	-624.4	-683.1	-1057.0	-1035.7

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	107.8	-314.4	319.4	-119.0	6.2	0.0
Actual(MU)	103.5	-323.6	329.8	-122.1	7.1	-5.3
O/D/U/D(MU)	-4.4	-9.2	10.4	-3.1	0.9	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6908	9134	5078	3987	296	25403	52
State Sector	8681	8824	3129	3067	156	23855	48
Total	15588	17957	8207	7054	452	49258	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	756	1681	787	724	16	3964	78
Lignite	33	21	68	0	0	123	2
Hydro	126	31	48	20	9	233	5
Nuclear	31	52	52	0	0	135	3
Gas, Naptha & Diesel	13	34	6	0	24	78	2
RES (Wind, Solar, Biomass & Others)	206	162	198	5	1	571	11
Total	1165	1981	1158	749	49	5103	100

Share of RES in total generation (%)	17.68	8.15	17.05	0.66	2.36	11.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.13	12.36	25.63	2.78	19.95	18.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.037

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	221701	10:43	0
Non-Solar hr	201063	19:10	1261

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: 16-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	98	514	0.0	5.3	-5.3
4	765 kV	SASARAM-FATEHPUR	1	0	390	0.0	6.7	-6.7
5	765 kV	GAYA-BALIA	1	0	530	0.0	6.7	-6.7
6	400 kV	PUSAULI-VARANASI	1	4	74	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	27	51	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	224	490	0.0	0.9	-0.9
9	400 kV	PATNA-BALIA	2	0	407	0.0	10.1	-10.1
10	400 kV	NAUBATPUR-BALIA	2	0	199	0.0	2.9	-2.9
11	400 kV	BIHARSHARIFF-BALIA	2	236	121	1.8	0.0	1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	42	392	0.0	3.7	-3.7
13	400 kV	BIHARSHARIFF-VARANASI	2	35	257	0.0	2.6	-2.6
14	220 kV	SAHUPURI-KARAMNANA	1	0	95	0.0	1.2	-1.2
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	42.8	-41.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	856	158	9.9	0.0	9.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	504	701	0.0	4.2	-4.2
3	765 kV	JHARSUGUDA-DURG	2	0	749	0.0	14.0	-14.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	572	0.0	9.6	-9.6
5	400 kV	RANCHI-SIPAT	2	20	255	0.0	3.4	-3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	46	139	0.0	1.4	-1.4
7	220 kV	BUDHIPADAR-KORBA	2	179	6	1.9	0.0	1.9
ER-WR						11.8	32.7	-20.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	629	0.0	15.0	-15.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1979	0.0	38.9	-38.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2975	0.0	61.5	-61.5
4	400 kV	TALCHER-I/C	2	1733	185	5.7	0.0	5.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	115.4	-115.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	1	6	1.5	0.0	1.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	720	0	7.6	0.0	7.6
3	220 kV	ALIPURDUAR-SALAKATI	2	51	27	0.3	0.0	0.3
ER-NER						9.3	0.0	9.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	661	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	2030	0.0	47.9	-47.9
2	HVDC	VINDHYACHAL B/B	-	510	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1266	0.0	23.1	-23.1
4	765 kV	GWALIOR-AGRA	2	218	1821	0.1	15.4	-15.3
5	765 kV	GWALIOR-PHAGI	2	1032	1192	4.6	9.4	-4.8
6	765 kV	JABALPUR-ORAI	2	186	800	0.0	9.5	-9.5
7	765 kV	GWALIOR-ORAI	1	669	0	10.2	0.0	10.2
8	765 kV	SATNA-ORAI	1	0	1002	0.0	18.0	-18.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1552	351	15.4	0.4	15.0
10	765 kV	VINDHYACHAL-VARANASI	2	0	2570	0.0	36.5	-36.5
11	400 kV	ZERDA-KANKROLI	1	346	31	4.2	0.0	4.1
12	400 kV	ZERDA -BHINMAL	1	347	19	4.3	0.0	4.3
13	400 kV	VINDHYACHAL -RIHAND	1	965	0	22.0	0.0	22.0
14	400 kV	RAPP-SHUALPUR	2	722	277	7.6	0.6	7.0
15	220 kV	BHANPURA-RANPUR	1	0	140	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.1	-1.1
17	220 kV	MEHGAON-AURAIYA	1	99	0	1.0	0.0	1.0
18	220 kV	MALANPUR-AURAIYA	1	98	12	1.0	0.0	1.0
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						82.4	164.2	-81.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	21.0	-21.0
2	HVDC	RAIGARH-PUGALUR	2	0	6030	0.0	108.3	-108.3
3	765 kV	SOLAPUR-RAICHUR	2	0	2054	0.0	32.5	-32.5
4	765 kV	WARDHA-NIZAMABAD	2	0	3159	0.0	59.4	-59.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2929	0.0	57.9	-57.9
6	400 kV	KOLHAPUR-KUDGI	2	950	0	13.8	0.0	13.8
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						16.1	279.0	-262.9

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)	-208	99	-119	-2.84
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-273	143	-139	-3.33
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-242	-112	-184	-4.42
	NER	132kV GELEPHU-SALAKATI	-22	0	-10	-0.25
	NER	132kV MOTANGA-RANGIA	31	1	13	0.30
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-54	-1.29
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-56	-1.35
	ER	NEPAL IMPORT (FROM BIHAR)	-180	-31	-107	-2.56
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-503	-54	-410	-9.83
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-936	-613	-732	-17.56
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1036	-837	-1000	-23.99
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-121	0	-103	-2.46

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-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	0.06	0.00	0.00	11.61
Nepal	0.24	0.00	10.35	0.00	0.00	0.06	0.00	0.00	10.65
Bangladesh	17.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.67	0.00	21.90	0.00	0.00	0.12	0.00	0.00	39.69

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64
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	0.64	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64

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	0.64	0.00	-11.55	0.00	0.00	-0.06	0.00	0.00	-10.97
Nepal	-0.24	0.00	-10.35	0.00	0.00	-0.06	0.00	0.00	-10.65
Bangladesh	-17.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-17.43
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.03	0.00	-21.90	0.00	0.00	-0.12	0.00	0.00	-39.05