



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: 15th 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 14.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 15-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)	53920	65232	53089	24072	2651	198964
Peak Shortage (MW)	127	0	0	442	0	569
Energy Met (MU)	1149	1534	1403	527	51	4663
Hydro Gen (MU)	127	35	56	21	11	249
Wind Gen (MU)	10	69	34	-	-	113
Solar Gen (MU)*	161.96	86.55	132.50	2.97	1.01	385
Energy Shortage (MU)	0.55	0.00	0.00	1.92	0.00	2.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57318	70030	68096	24542	2684	217550
Time Of Maximum Demand Met	10:21	10:40	11:42	18:39	18:16	10:21

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	0.032	0.00	0.03	3.60	3.63	82.85	13.52

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	8012	0	157.1	55.7	1.0	285	0.00
	Haryana	6941	0	142.5	97.2	1.6	311	0.00
	Rajasthan	15587	0	298.2	82.0	-1.8	348	0.00
	Delhi	3752	0	70.7	62.1	0.1	300	0.00
	UP	18430	7	345.6	89.7	-0.4	411	0.05
	Uttarakhand	2051	0	40.5	24.9	0.5	90	0.08
	HP	1863	0	32.0	25.6	0.1	77	0.00
	J&K(UT) & Ladakh(UT)	2736	40	54.6	46.8	-0.5	246	0.42
	Chandigarh	211	0	3.5	3.3	0.2	42	0.00
	Railways NR ISTS	192	0	3.8	3.6	0.2	66	0.00
WR	Chhattisgarh	6055	0	138.9	73.2	-0.3	232	0.00
	Gujarat	20462	0	432.0	187.9	-0.3	556	0.00
	MP	13389	0	267.5	152.3	-3.3	564	0.00
	Maharashtra	27808	0	619.1	208.1	-4.5	819	0.00
	Goa	718	0	14.6	11.9	2.3	31	0.00
	DNHDDPDCL	1213	0	28.5	28.6	-0.1	64	0.00
	AMNSIL	924	0	20.5	10.2	0.1	252	0.00
	BALCO	526	0	12.5	12.5	0.0	10	0.00
	Andhra Pradesh	13044	0	245.5	87.9	-1.7	830	0.00
	Telangana	15336	0	310.6	182.8	-1.1	707	0.00
SR	Karnataka	16740	0	329.1	158.0	0.4	561	0.00
	Kerala	5076	0	101.6	78.0	1.6	295	0.00
	Tamil Nadu	19152	0	406.8	237.1	1.3	551	0.00
	Puducherry	420	0	9.4	9.4	-0.4	13	0.00
	Bihar	5074	0	99.8	90.7	2.3	382	0.09
ER	DVC	3403	0	72.3	-50.5	-2.0	1040	0.00
	Jharkhand	1619	274	39.0	24.9	0.8	329	1.82
	Odisha	5630	0	125.4	51.4	-0.8	434	0.00
	West Bengal	8901	0	189.0	41.1	-0.4	289	0.00
	Sikkim	110	0	1.8	1.7	0.1	33	0.00
	Railways ER ISTS	16	0	0.1	0.1	0.0	9	0.00
	Arunachal Pradesh	160	0	2.9	3.1	-0.3	41	0.00
NER	Assam	1590	0	29.8	25.5	0.5	68	0.00
	Manipur	209	0	3.1	3.2	-0.1	18	0.00
	Meghalaya	356	0	6.1	5.3	0.0	42	0.00
	Mizoram	127	0	2.0	1.7	-0.2	16	0.00
	Nagaland	151	0	2.3	2.4	0.0	16	0.00
	Tripura	225	0	4.3	4.3	-0.1	34	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.1	-13.6	-24.6	-24.8
Day Peak (MW)	-623.5	-739.9	-1075.0	-1407.6

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	95.9	-280.4	302.5	-125.2	7.2	0.0
Actual(MU)	88.7	-289.1	313.2	-126.6	7.3	-6.5
O/D/U/D(MU)	-7.2	-8.7	10.6	-1.4	0.1	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7573	7734	5078	3987	317	24689	53
State Sector	7521	8974	2356	2787	99	21736	47
Total	15093	16707	7434	6774	416	46424	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	745	1608	797	723	14	3887	77
Lignite	32	18	67	0	0	118	2
Hydro	127	35	56	21	11	249	5
Nuclear	31	53	51	0	0	135	3
Gas, Naptha & Diesel	12	40	6	0	24	82	2
RES (Wind, Solar, Biomass & Others)	191	157	198	5	1	552	11
Total	1138	1912	1175	749	50	5023	100

Share of RES in total generation (%)	16.78	8.23	16.81	0.68	2.04	11.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.71	12.87	25.97	2.78	23.61	18.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.049

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217550	10:21	10
Non-Solar hr	201236	19:13	569

**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: 15-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	212	552	0.0	6.3	-6.3
4	765 kV	SASARAM-FATEHPUR	1	0	389	0.0	5.7	-5.7
5	765 kV	GAYA-BALIA	1	0	549	0.0	6.4	-6.4
6	400 kV	PUSAULI-VARANASI	1	20	64	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	19	68	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	335	478	0.0	1.2	-1.2
9	400 kV	PATNA-BALIA	2	0	430	0.0	9.9	-9.9
10	400 kV	NAUBATPUR-BALIA	2	0	209	0.0	2.8	-2.8
11	400 kV	BIHARSHARIFF-BALIA	2	262	127	1.7	0.0	1.7
12	400 kV	MOTIHARI-GORAKHPUR	2	8	391	0.0	5.0	-5.0
13	400 kV	BIHARSHARIFF-VARANASI	2	92	279	0.0	2.9	-2.9
14	220 kV	SAHUPURI-KARAMNANA	1	29	85	0.0	0.9	-0.9
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						1.7	43.3	-41.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	864	178	7.3	0.0	7.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	506	824	0.0	7.0	-7.0
3	765 kV	JHARSUGUDA-DURG	2	0	704	0.0	14.1	-14.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	566	0.0	9.7	-9.7
5	400 kV	RANCHI-SIPAT	2	0	321	0.0	4.4	-4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	182	0.0	2.6	-2.6
7	220 kV	BUDHIPADAR-KORBA	2	108	66	0.6	0.0	0.6
ER-WR						7.9	37.8	-29.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	634	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	34.3	-34.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2934	0.0	59.7	-59.7
4	400 kV	TALCHER-I/C	2	407	204	10.4	0.0	10.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	108.9	-108.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	2	7	0.3	0.1	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	789	0	7.5	0.0	7.5
3	220 kV	ALIPURDUAR-SALAKATI	2	57	16	0.2	0.0	0.2
ER-NER						8.0	0.1	7.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	662	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	2008	0.0	31.8	-31.8
2	HVDC	VINDHYACHAL B/B	-	431	0	12.2	0.0	12.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	885	0.0	15.8	-15.8
4	765 kV	GWALIOR-AGRA	2	0	1959	0.0	16.1	-16.1
5	765 kV	GWALIOR-PHAGI	2	663	1371	2.2	14.7	-12.6
6	765 kV	JABALPUR-ORAI	2	90	919	0.0	12.4	-12.4
7	765 kV	GWALIOR-ORAI	1	845	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1039	0.0	18.4	-18.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1522	446	17.1	0.4	16.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2594	0.0	34.6	-34.6
11	400 kV	ZERDA-KANKROLI	1	320	54	3.6	0.0	3.6
12	400 kV	ZERDA -BHINMAL	1	324	44	3.7	0.0	3.7
13	400 kV	VINDHYACHAL -RIHAND	1	961	0	21.2	0.0	21.2
14	400 kV	RAPP-SHUJALPUR	2	666	277	5.9	0.6	5.3
15	220 kV	BHANPURA-RANPUR	1	0	135	0.0	2.3	-2.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.3	-1.3
17	220 kV	MEHGAON-AURAIYA	1	106	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	74	10	0.9	0.0	0.9
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						81.1	148.4	-67.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	24.0	-24.0
2	HVDC	RAIGARH-PUGALUR	2	0	6024	0.0	108.5	-108.5
3	765 kV	SOLAPUR-RAICHUR	2	0	2078	0.0	29.5	-29.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2787	0.0	52.5	-52.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2807	0.0	55.0	-55.0
6	400 kV	KOLHAPUR-KUDGI	2	1037	0	15.2	0.0	15.2
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	119	2.2	0.0	2.2
WR-SR						17.5	269.5	-252.0

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)	-208	79	-117	-2.81
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-245	143	-140	-3.36
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-263	-120	-206	-4.94
	NER	132kV GELEPHU-SALAKATI	-24	0	-12	-0.29
	NER	132kV MOTANGA-RANGIA	20	0	12	0.29
NEPAL	NR	NEPAL IMPORT (FROM UP)	0	0	0	-1.63
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	0	0	0	-1.34
	ER	NEPAL IMPORT (FROM BIHAR)	-180	-5	-74	-1.77
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-493	0	-370	-8.89
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-941	-797	-911	-21.86
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1408	-918	-1032	-24.76
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	134	0	-114	-2.74

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 15-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	11.75	0.00	0.00	0.24	0.00	0.00	11.99
Nepal	0.23	0.00	9.82	0.00	0.00	0.00	0.00	0.00	10.05
Bangladesh	21.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.81
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	22.04	0.00	21.57	0.00	0.00	0.24	0.00	0.00	43.85

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
IEX	PXIL	HPX	IEX	PXIL	HPX				
Bhutan	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35
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	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.35

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	0.35	0.00	-11.75	0.00	0.00	-0.24	0.00	0.00	-11.64
Nepal	-0.23	0.00	-9.82	0.00	0.00	0.00	0.00	0.00	-10.05
Bangladesh	-21.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.81
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.69	0.00	-21.57	0.00	0.00	-0.24	0.00	0.00	-43.50