



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: 27th 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., डोंगतेिह, 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 26.03.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 27-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)	49568	62887	51861	22191	2511	189018
Peak Shortage (MW)	0	0	0	0	0	0
Energy Met (MU)	1040	1439	1342	454	41	4317
Hydro Gen (MU)	138	32	45	21	16	253
Wind Gen (MU)	9	70	45	-	-	124
Solar Gen (MU)*	143.44	83.09	135.13	3.27	0.73	366
Energy Shortage (MU)	0.03	0.00	0.00	0.20	0.00	0.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50626	67302	65485	22824	2534	202753
Time Of Maximum Demand Met	19:14	11:00	11:53	19:44	18:03	11:53

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	0.045	0.20	0.36	9.18	9.73	76.35	13.92

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	6647	0	134.1	54.2	-0.1	199	0.00
	Haryana	5948	0	118.4	94.2	-1.2	84	0.00
	Rajasthan	13230	0	261.9	66.2	-1.9	260	0.00
	Delhi	3453	0	67.9	59.4	-0.1	281	0.00
	UP	16963	0	337.4	106.4	-1.3	280	0.00
	Uttarakhand	1740	0	33.2	22.7	0.9	126	0.00
	HP	1438	0	25.9	15.0	0.1	96	0.03
	J&K(UT) & Ladakh(UT)	2669	0	53.6	44.2	-0.3	132	0.00
	Chandigarh	191	0	3.5	3.7	-0.2	16	0.00
Railways NR ISTS	187	0	4.0	3.9	0.2	25	0.00	
WR	Chhattisgarh	5307	0	114.1	53.4	-0.3	391	0.00
	Gujarat	19854	0	391.8	194.4	-2.3	354	0.00
	MP	11943	0	248.9	139.3	-5.2	546	0.00
	Maharashtra	27975	0	614.3	211.8	-1.2	616	0.00
	Goa	734	0	14.7	12.0	2.3	275	0.00
	DNHDDPDCL	1146	0	22.9	23.1	-0.2	54	0.00
	AMNSIL	873	0	20.0	8.7	-0.2	281	0.00
	BALCO	522	0	12.5	12.6	-0.1	519	0.00
SR	Andhra Pradesh	12588	0	231.2	83.6	-2.1	438	0.00
	Telangana	14064	0	282.2	165.1	-0.2	660	0.00
	Karnataka	16616	0	324.7	158.9	0.0	700	0.00
	Kerala	5301	0	103.9	89.1	1.2	272	0.00
	Tamil Nadu	18641	0	390.8	244.3	-4.1	476	0.00
	Puducherry	431	0	9.4	9.3	-0.4	25	0.00
ER	Bihar	4591	0	89.6	79.5	0.5	325	0.20
	DVC	3063	0	65.6	-36.4	-0.5	298	0.00
	Jharkhand	1666	0	34.3	24.6	-2.4	215	0.00
	Odisha	5211	0	111.3	34.2	-0.8	323	0.00
	West Bengal	7913	0	151.8	20.3	-2.1	185	0.00
	Sikkim	88	0	1.5	1.7	-0.2	14	0.00
Railways ER ISTS	12	0	0.1	0.2	0.0	5	0.00	
NER	Arunachal Pradesh	164	0	2.6	3.0	-0.5	30	0.00
	Assam	1376	0	22.5	15.6	0.7	152	0.00
	Manipur	203	0	2.8	3.1	-0.3	22	0.00
	Meghalaya	338	0	5.4	5.4	-0.4	51	0.00
	Mizoram	128	0	1.9	1.8	-0.3	9	0.00
	Nagaland	111	0	2.2	2.2	-0.1	0	0.00
Tripura	256	0	4.1	4.5	-0.2	37	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-1.7	-4.7	-23.6	-21.8
Day Peak (MW)	-194.0	-283.0	-1086.0	-1035.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	77.8	-250.1	332.3	-155.2	-4.8	0.0
Actual(MU)	71.4	-233.6	344.0	-182.8	-7.3	-8.3
O/D/U/D(MU)	-6.4	16.6	11.7	-27.6	-2.5	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5269	8464	3828	3897	276	21734	45
State Sector	8861	11198	3463	2507	170	26198	55
Total	14130	19661	7291	6404	446	47931	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	661	1493	697	699	14	3564	76
Lignite	28	22	70	0	0	120	3
Hydro	137	31	44	21	16	250	5
Nuclear	31	59	52	0	0	141	3
Gas, Naptha & Diesel	10	33	6	0	24	74	2
RES (Wind, Solar, Biomass & Others)	172	156	211	5	1	545	12
Total	1039	1794	1080	724	55	4693	100

Share of RES in total generation (%)	16.53	8.70	19.56	0.66	1.36	11.60
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.79	13.74	28.46	3.61	30.96	19.98

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.053

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	202753	11:53	107
Non-Solar hr	191494	19:14	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: 27-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	-	1	48	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	957	0.0	14.8	-14.8
4	765 kV	SASARAM-FATEHPUR	1	0	434	0.0	8.3	-8.3
5	765 kV	GAYA-BALIA	1	0	578	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	20	69	0.0	0.8	-0.8
7	400 kV	PUSAULI-ALLAHABAD	1	24	41	0.0	0.4	-0.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	583	0.0	7.6	-7.6
9	400 kV	PATNA-BALIA	2	0	479	0.0	10.9	-10.9
10	400 kV	NAUBATPUR-BALIA	2	0	240	0.0	3.9	-3.9
11	400 kV	BIHARSHARIFF-BALIA	2	104	225	0.0	1.8	-1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	0	386	0.0	6.6	-6.6
13	400 kV	BIHARSHARIFF-VARANASI	2	48	264	0.0	3.1	-3.1
14	220 kV	SAHUPURI-KARAMNANA	1	0	80	0.0	1.4	-1.4
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						0.0	69.0	-69.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	943	19	7.2	0.0	7.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1993	0.0	29.9	-29.9
3	765 kV	JHARSUGUDA-DURG	2	0	1358	0.0	26.1	-26.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	490	0.0	7.9	-7.9
5	400 kV	RANCHI-SIPAT	2	0	531	0.0	7.8	-7.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	151	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	86	0	1.0	0.0	1.0
ER-WR						8.2	74.1	-65.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	742	0.0	17.5	-17.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3166	0.0	63.3	-63.3
4	400 kV	TALCHER-I/C	2	416	0	8.6	0.0	8.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	116.9	-116.9
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	3	9	4.9	0.0	4.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	991	0	15.6	0.0	15.6
3	220 kV	ALIPURDUAR-SALAKATI	2	182	0	2.5	0.0	2.5
ER-NER						22.9	0.0	22.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	649	0	16.0	0.0	16.0
NER-NR						16.0	0.0	16.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	2662	0.0	60.1	-60.1
2	HVDC	VINDHYACHAL B/B	-	256	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	301	0.0	7.4	-7.4
4	765 kV	GWALIOR-AGRA	2	652	1306	2.3	5.3	-3.0
5	765 kV	GWALIOR-PHAGI	2	918	1203	4.0	10.8	-6.7
6	765 kV	JABALPUR-ORAI	2	427	498	2.0	0.0	2.0
7	765 kV	GWALIOR-ORAI	1	724	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	968	0.0	17.1	-17.1
9	765 kV	BANASKANTHA-CHITORGARH	2	2141	0	29.3	0.0	29.3
10	765 kV	VINDHYACHAL-VARANASI	2	219	1453	0.0	15.3	-15.3
11	400 kV	ZERDA-KANKROLI	1	387	0	7.1	0.0	7.1
12	400 kV	ZERDA -BHINMAL	1	390	173	3.2	1.7	1.5
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.5	0.0	21.5
14	400 kV	RAPP-SHUALPUR	2	820	77	8.7	0.1	8.6
15	220 kV	BHANPURA-RANPUR	1	0	89	0.0	1.6	-1.6
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.6
17	220 kV	MEHGAON-AURAIYA	1	98	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	66	5	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						97.9	119.9	-22.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	19.9	-19.9
2	HVDC	RAIGARH-PUGALUR	2	0	6320	0.0	123.7	-123.7
3	765 kV	SOLAPUR-RAICHUR	2	0	1955	0.0	27.9	-27.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3295	0.0	59.5	-59.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3239	0.0	61.2	-61.2
6	400 kV	KOLHAPUR-KUDGI	2	1006	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	1	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	124	2.0	0.0	2.0
WR-SR						15.8	292.3	-276.4

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)	254	-62	60	1.43
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	235	-172	57	1.37
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-270	-28	-182	-4.36
	NER	132kV GELEPHU-SALAKATI	-24	0	-15	-0.37
	NER	132kV MOTANGA-RANGIA	25	-2	10	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	-70	0	0	0.00
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-70	0	-40	-0.97
	ER	NEPAL IMPORT (FROM BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-283	-74	-155	-3.71
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-944	-506	-864	-20.74
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1035	-809	-908	-21.80
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-142	0	-121	-2.91

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 27-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	7.37	0.00	0.00	0.00	0.00	0.00	7.37
Nepal	0.24	0.00	6.61	0.00	0.00	0.00	0.00	0.00	6.85
Bangladesh	20.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.78
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.02	0.00	13.98	0.00	0.00	0.00	0.00	0.00	35.00

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	4.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.54
Nepal	0.00	0.00	0.00	0.00	0.00	2.02	0.00	0.00	2.02
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	4.54	0.00	0.00	0.00	0.00	2.02	0.00	0.00	6.56

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	4.54	0.00	-7.37	0.00	0.00	0.00	0.00	0.00	-2.83
Nepal	-0.24	0.00	-6.61	0.00	0.00	2.02	0.00	0.00	-4.83
Bangladesh	-20.78	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.78
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-16.48	0.00	-13.98	0.00	0.00	2.02	0.00	0.00	-28.44