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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 03rd March 2024

To,

1. कार्यकारी निदेशक, पू.क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
2. 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
3. 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
4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग – 793006
   Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
5. 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 02.03.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 02nd March 2024, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रलर ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day **Date of Reporting: 03-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)	45482	60003	50712	22779	2772	181748
Peak Shortage (MW)	0	0	0	147	0	147
Energy Met (MU)	958	1423	1331	475	50	4237
Hydro Gen (MU)	129	25	40	14	8	215
Wind Gen (MU)	51	151	54	-	-	256
Solar Gen (MU)*	120.33	59.32	142.32	3.08	1.18	326
Energy Shortage (MU)	0.01	0.00	0.00	1.24	0.00	1.25
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50376	67447	65164	22928	2797	203128
Time Of Maximum Demand Met	09:37	11:01	11:24	18:52	18:03	09:37

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	0.052	0.00	0.66	4.34	5.00	71.75	23.25

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	6825	0	122.1	43.6	-0.3	330	0.00
	Haryana	6057	0	121.0	84.6	-2.1	319	0.00
	Rajasthan	13859	0	250.0	53.6	-8.3	627	0.00
	Delhi	3699	0	68.1	58.8	1.4	292	0.00
	UP	14414	0	269.7	84.8	-8.0	945	0.00
	Uttarakhand	2159	0	39.5	25.4	-0.6	257	0.00
	HP	1720	0	30.1	24.4	-1.0	110	0.01
	J&K(UT) & Ladakh(UT)	2344	0	50.2	47.3	-4.6	118	0.00
	Chandigarh	216	0	3.6	4.0	-0.4	34	0.00
	Railways_NR ISTS	194	0	3.9	3.6	0.3	26	0.00
WR	Chhattisgarh	5878	0	128.2	66.2	-1.4	200	0.00
	Gujarat	19992	0	406.2	150.9	-2.7	981	0.00
	MP	11280	0	218.7	127.0	-2.4	1316	0.00
	Maharashtra	26971	0	596.1	194.3	-1.0	742	0.00
	Goa	708	0	13.9	15.6	-1.9	113	0.00
	DNHDDPDCL	1245	0	28.5	28.5	0.0	51	0.00
	AMNSIL	917	0	18.9	8.2	0.6	281	0.00
	BALCO	521	0	12.5	12.5	0.0	6	0.00
SR	Andhra Pradesh	12807	0	236.1	94.5	-2.5	920	0.00
	Telangana	15060	0	290.2	172.5	0.6	836	0.00
	Karnataka	16165	0	317.8	164.2	-0.2	911	0.00
	Kerala	4561	0	94.1	76.8	1.4	218	0.00
	Tamil Nadu	18373	0	383.1	222.1	-2.7	464	0.00
	Puducherry	406	0	9.5	9.3	-0.5	33	0.00
ER	Bihar	4933	0	91.7	81.0	-1.7	441	0.33
	DVC	3325	0	70.6	-31.4	0.4	272	0.00
	Jharkhand	1686	0	34.1	23.6	-1.0	215	0.92
	Odisha	5433	0	116.4	45.6	-0.1	379	0.00
	West Bengal	7723	0	160.4	28.2	-1.8	268	0.00
	Sikkim	106	0	1.8	2.0	-0.2	12	0.00
	Railways_ER ISTS	11	0	0.2	0.2	0.0	6	0.00
NER	Arunachal Pradesh	162	0	3.2	3.1	0.0	17	0.00
	Assam	1569	0	28.6	22.1	0.4	99	0.00
	Manipur	225	0	3.2	3.1	0.1	23	0.00
	Meghalaya	347	0	6.1	5.2	-0.2	24	0.00
	Mizoram	133	0	2.6	1.7	0.4	13	0.00
	Nagaland	140	0	2.6	2.5	0.0	9	0.00
	Tripura	234	0	3.8	3.7	-0.4	26	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.0	-12.5	-21.9	-24.0
Day Peak (MW)	-616.9	-519.5	-1062.0	-1318.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	56.6	-270.7	319.6	-113.8	8.2	0.0
Actual(MU)	41.0	-268.2	342.9	-134.6	10.7	-8.3
O/D/U/D(MU)	-15.6	2.4	23.3	-20.8	2.4	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6715	10157	4278	4009	408	25566	50
State Sector	9086	8278	4991	3167	99	25620	50
Total	15800	18435	9269	7175	507	51186	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	600	1481	682	668	11	3442	75
Lignite	24	14	65	0	0	103	2
Hydro	129	25	40	14	8	215	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	12	37	7	0	25	81	2
RES (Wind, Solar, Biomass & Others)	194	213	228	6	1	642	14
Total	991	1810	1073	687	45	4606	100

Share of RES in total generation (%)	19.60	11.76	21.20	0.81	2.68	13.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	35.84	15.34	29.80	2.83	19.60	21.30

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.045

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	203128	9:37	124
Non-Solar hr	184669	19:03	147

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: 03-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	550	654	0.0	4.9	-4.9
4	765 kV	SASARAM-FATEHPUR	1	84	440	0.0	5.5	-5.5
5	765 kV	GAYA-BALIA	1	72	396	0.0	3.5	-3.5
6	400 kV	PUSAULI-VARANASI	1	2	92	0.0	0.9	-0.9
7	400 kV	PUSAULI -ALLAHABAD	1	40	51	0.0	0.3	-0.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	378	426	0.0	0.4	-0.4
9	400 kV	PATNA-BALIA	2	0	592	0.0	11.7	-11.7
10	400 kV	NAUBATPUR-BALIA	2	50	234	0.0	3.1	-3.1
11	400 kV	BIHARSHARIFF-BALIA	2	309	107	1.8	0.0	1.8
12	400 kV	MOTIHARI-GORAKHPUR	2	76	423	0.0	5.0	-5.0
13	400 kV	BIHARSHARIFF-VARANASI	2	206	250	0.0	1.5	-1.5
14	220 kV	SAHUPURI-KARAMNASA	1	17	100	0.0	1.0	-1.0
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.5	0.0	0.5
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	2.3	39.0	-36.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1350	0	18.0	0.0	18.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	53	1387	0.0	18.1	-18.1
3	765 kV	JHARSUGUDA-DURG	2	0	674	0.0	12.7	-12.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	461	0.0	7.7	-7.7
5	400 kV	RANCHI-SIPAT	2	37	381	0.0	5.2	-5.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	174	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	98	30	0.4	0.0	0.4
					ER-WR	18.4	46.7	-28.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	639	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	46.0	-46.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3240	0.0	61.7	-61.7
4	400 kV	TALCHER-I/C	2	369	476	0.0	1.6	-1.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	122.4	-122.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	1.2	0.1	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	611	0	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	90	22	0.6	0.0	0.6
					ER-NER	7.4	0.1	7.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	707	0	17.4	0.0	17.4
					NER-NR	17.4	0.0	17.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	23.9	-23.9
2	HVDC	VINDHYACHAL B/B	-	439	0	11.2	0.0	11.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1910	0.0	29.7	-29.7
4	765 kV	GWALIOR-AGRA	2	283	1324	0.7	7.6	-6.9
5	765 kV	GWALIOR-PHAGI	2	1826	1002	8.7	8.8	0.0
6	765 kV	JABALPUR-ORAI	2	530	569	0.0	1.7	-1.7
7	765 kV	GWALIOR-ORAI	1	600	102	6.9	0.2	6.7
8	765 kV	SATNA-ORAI	1	0	979	0.0	15.8	-15.8
9	765 kV	BANASKANTHA-CHITORGARH	2	1225	682	9.5	2.9	6.7
10	765 kV	VINDHYACHAL-VARANASI	2	218	1599	0.0	14.5	-14.5
11	400 kV	ZERDA-KANKROLI	1	344	49	4.6	0.1	4.6
12	400 kV	ZERDA -BHINMAL	1	803	146	10.3	0.2	10.1
13	400 kV	VINDHYACHAL -RIHAND	1	481	0	10.2	0.0	10.2
14	400 kV	RAPP-SHUJALPUR	2	1018	113	9.5	0.1	9.4
15	220 kV	BHANPURA-RANPUR	1	112	26	1.2	0.0	1.2
16	220 kV	BHANPURA-MORAK	1	0	30	3.1	0.0	3.1
17	220 kV	MEHGAON-AURAIYA	1	94	0	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	70	2	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	78.0	105.4	-27.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	16.4	-16.4
2	HVDC	RAIGARH-PUGALUR	2	0	6052	0.0	127.8	-127.8
3	765 kV	SOLAPUR-RAICHUR	2	159	2287	0.0	26.3	-26.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3440	0.0	56.5	-56.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3484	0.0	59.5	-59.5
6	400 kV	KOLHAPUR-KUDGI	2	1245	0	16.0	0.0	16.0
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	125	1.7	0.0	1.7
					WR-SR	17.7	286.4	-268.8

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 MANGDECHU HEP 4*180MW)	-215	81	-78	-1.87
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-281	89	-86	-2.07
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-251	-36	-131	-3.14
	NER	132kV GELEPHU-SALAKATI	-29	-1	-12	-0.29
	NER	132kV MOTANGA-RANGIA	29	0	16	0.39
NEPAL	NR	NEPAL IMPORT (FROM UP)	-69	0	-37	-0.88
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-69	0	-59	-1.42
	ER	NEPAL IMPORT (FROM BIHAR)	-122	-42	-83	-1.99
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-398	-1	-344	-8.26
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-931	-643	-810	-19.44
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1318	-803	-998	-23.95
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-103	-2.48

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 03-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	7.80	0.00	0.00	0.00	0.00	0.00	7.80
Nepal	0.21	0.00	9.27	0.00	0.00	0.00	0.00	0.00	9.48
Bangladesh	19.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.49
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.70	0.00	17.07	0.00	0.00	0.00	0.00	0.00	36.77

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45
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	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.45

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	0.45	0.00	-7.80	0.00	0.00	0.00	0.00	0.00	-7.35
Nepal	-0.21	0.00	-9.27	0.00	0.00	0.00	0.00	0.00	-9.48
Bangladesh	-19.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.49
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.25	0.00	-17.07	0.00	0.00	0.00	0.00	0.00	-36.32