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: 17th February 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 16.02.2024.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-फ़रवरी-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 16th February 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: 17-Feb-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)	54353	62580	49457	21483	2634	190507
Peak Shortage (MW)	350	0	0	0	0	350
Energy Met (MU)	1196	1502	1277	449	49	4474
Hydro Gen (MU)	98	39	35	20	8	200
Wind Gen (MU)	11	126	110	-	-	247
Solar Gen (MU)*	139.68	71.02	139.57	5.84	1.15	357
Energy Shortage (MU)	1.51	0.00	0.00	0.53	0.47	2.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	63806	72863	63192	21881	2789	221986
Time Of Maximum Demand Met	10:40	10:43	11:31	18:59	17:53	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	0.032	0.00	0.13	3.19	3.32	79.50	17.17

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	8696	0	162.6	63.5	-0.1	259	0.00
	Haryana	8144	0	157.4	111.7	-1.4	222	0.09
	Rajasthan	17787	0	327.1	111.3	-2.2	323	0.00
	Delhi	4498	0	74.9	61.6	-0.4	306	0.00
	UP	18155	0	330.6	88.3	-0.4	469	0.00
	Uttarakhand	2407	0	43.1	29.5	1.0	160	0.00
	HP	2054	0	35.3	30.2	0.1	127	0.22
	J&K(UT) & Ladakh(UT)	2790	350	58.0	55.1	-0.9	136	1.20
	Chandigarh	255	0	3.9	3.9	0.0	37	0.00
	Railways_NR ISTS	175	0	3.6	3.5	0.1	36	0.00
WR	Chhattisgarh	5712	0	120.2	55.8	-1.2	135	0.00
	Gujarat	20099	0	410.6	122.1	-0.3	462	0.00
	MP	15507	0	294.1	171.1	-2.8	562	0.00
	Maharashtra	28101	0	603.0	188.8	1.3	627	0.00
	Goa	712	0	13.9	14.2	-0.4	53	0.00
	DNHDDPDCL	1268	0	29.4	29.3	0.1	40	0.00
	AMNSIL	859	0	18.8	8.9	0.0	241	0.00
	BALCO	521	0	12.4	12.5	-0.1	11	0.00
SR	Andhra Pradesh	12274	0	228.0	76.2	-2.4	635	0.00
	Telangana	14619	0	276.0	148.7	-1.0	667	0.00
	Karnataka	16050	0	305.7	135.5	-2.5	635	0.00
	Kerala	4418	0	90.3	72.7	1.3	243	0.00
	Tamil Nadu	17554	0	367.2	180.4	-0.7	616	0.00
	Puducherry	443	0	9.5	9.5	-0.2	43	0.00
ER	Bihar	4778	0	86.2	76.7	-2.3	570	0.00
	DVC	3471	0	70.4	-48.0	0.2	344	0.00
	Jharkhand	1632	52	29.3	22.1	-2.3	159	0.53
	Odisha	5182	0	109.2	25.0	-0.1	343	0.00
	West Bengal	7226	0	152.3	13.7	-2.6	281	0.00
	Sikkim	114	0	2.0	2.0	0.0	17	0.00
	Railways_ER ISTS	16	0	0.2	0.2	0.0	2	0.00
NER	Arunachal Pradesh	170	0	3.0	2.9	0.1	36	0.00
	Assam	1591	0	28.0	22.5	0.2	121	0.00
	Manipur	210	0	3.0	3.0	-0.1	36	0.47
	Meghalaya	390	0	6.4	5.5	-0.3	289	0.00
	Mizoram	135	0	2.1	1.7	-0.2	29	0.00
	Nagaland	150	0	2.4	2.4	-0.1	14	0.00
	Tripura	252	0	4.2	3.6	0.0	66	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.3	-13.6	-20.2	-27.0
Day Peak (MW)	-527.5	-561.7	-1021.0	-1328.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	216.4	-262.8	201.7	-166.3	11.0	0.0
Actual(MU)	212.8	-257.4	206.8	-178.7	12.0	-4.5
O/D/U/D(MU)	-3.6	5.4	5.0	-12.3	1.0	-4.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7792	10024	5139	4972	746	28672	54
State Sector	9066	7972	5361	2089	219	24706	46
Total	16857	17995	10500	7061	965	53379	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	711	1560	703	695	9	3678	76
Lignite	31	20	63	0	0	114	2
Hydro	98	39	35	20	8	200	4
Nuclear	31	28	52	0	0	111	2
Gas, Naptha & Diesel	16	30	6	0	24	76	2
RES (Wind, Solar, Biomass & Others)	174	202	289	8	1	674	14
Total	1062	1878	1148	722	42	4852	100

Share of RES in total generation (%)	16.39	10.74	25.16	1.07	2.72	13.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.65	14.32	32.78	3.79	21.37	20.32

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.028

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	221986	10:43	52
Non-Solar hr	195989	18:52	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: 17-Feb-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	49	0.0	1.3	-1.3
3	765 kV	GAYA-VARANASI	2	0	1060	0.0	19.0	-19.0
4	765 kV	SASARAM-FATEHPUR	1	0	598	0.0	11.3	-11.3
5	765 kV	GAYA-BALIA	1	0	594	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	25	34	0.0	0.2	-0.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	74	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	4	640	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	569	0.0	14.8	-14.8
10	400 kV	NAUBATPUR-BALIA	2	0	287	0.0	4.9	-4.9
11	400 kV	BIHARSHARIFF-BALIA	2	43	291	0.0	2.0	-2.0
12	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	8.5	-8.5
13	400 kV	BIHARSHARIFF-VARANASI	2	0	364	0.0	5.8	-5.8
14	220 kV	SAHUPURI-KARAMNASA	1	0	111	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.2	0.0	0.2
16	132 kV	GARWAH-RIHAND	1	30	0	0.4	0.0	0.4
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	0.6	85.7	-85.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	577	616	0.7	0.0	0.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1242	0.0	14.0	-14.0
3	765 kV	JHARSUGUDA-DURG	2	0	645	0.0	12.2	-12.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	702	0.0	12.4	-12.4
5	400 kV	RANCHI-SIPAT	2	0	380	0.0	4.9	-4.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	185	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	62	102	0.0	0.2	-0.2
					ER-WR	0.7	46.7	-46.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	390	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1999	0.0	31.9	-31.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2986	0.0	57.5	-57.5
4	400 kV	TALCHER-I/C	2	682	218	12.8	0.0	12.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	98.1	-98.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	38	62	0.1	0.1	0.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	512	124	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	90	24	0.9	0.0	0.9
					ER-NER	4.5	0.1	4.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	16.7	0.0	16.7
					NER-NR	16.7	0.0	16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2005	0.0	48.1	-48.1
2	HVDC	VINDHYACHAL B/B	-	224	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	21.1	-21.1
4	765 kV	GWALIOR-AGRA	2	0	1981	0.0	27.2	-27.2
5	765 kV	GWALIOR-PHAGI	2	0	1674	0.0	21.4	-21.4
6	765 kV	JABALPUR-ORAI	2	0	889	0.0	20.0	-20.0
7	765 kV	GWALIOR-ORAI	1	996	0	15.4	0.0	15.4
8	765 kV	SATNA-ORAI	1	0	1005	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	878	945	3.7	8.8	-5.1
10	765 kV	VINDHYACHAL-VARANASI	2	95	1815	0.0	23.4	-23.4
11	400 kV	ZERDA-KANKROLI	1	81	227	0.2	1.3	-1.1
12	400 kV	ZERDA -BHINMAL	1	504	393	2.8	3.2	-0.4
13	400 kV	VINDHYACHAL -RIHAND	1	495	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	729	175	5.9	0.4	5.5
15	220 kV	BHANPURA-RANPUR	1	120	88	0.4	0.5	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.1	0.5	0.6
17	220 kV	MEHGAON-AURAIYA	1	113	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	75	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	48.8	194.6	-145.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	4015	0.0	69.6	-69.6
3	765 kV	SOLAPUR-RAICHUR	2	1136	1443	4.1	12.5	-8.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2728	0.0	43.4	-43.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	0	0.0	43.0	-43.0
6	400 kV	KOLHAPUR-KUDGI	2	1464	0	23.3	0.0	23.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	1.7	-1.7
9	220 kV	XELDEM-AMBEWADI	1	0	120	2.2	0.0	2.2
					WR-SR	29.6	186.9	-157.3

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)	-187	176	-92	-2.20
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-298	145	-84	-2.02
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-331	-109	-208	-5.00
	NER	132kV GELEPHU-SALAKATI	-25	0	-13	-0.32
	NER	132kV MOTANGA-RANGIA	22	1	8	0.20
NEPAL	NR	NEPAL IMPORT (FROM UP)	-75	0	-55	-1.33
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-75	0	-65	-1.55
	ER	NEPAL IMPORT (FROM BIHAR)	-129	-32	-65	-1.56
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-433	-170	-380	-9.13
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-919	-628	-754	-18.10
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1328	-909	-1125	-27.00
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-102	0	-86	-2.06

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 17-Feb-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	12.21	0.00	0.00	0.00	0.00	0.00	12.21
Nepal	0.30	0.00	9.42	0.00	0.00	0.00	0.00	0.00	9.72
Bangladesh	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.30	0.00	21.63	0.00	0.00	0.00	0.00	0.00	39.93

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77
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	0.77	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.77

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	0.77	0.00	-12.21	0.00	0.00	0.00	0.00	0.00	-11.44
Nepal	-0.30	0.00	-9.42	0.00	0.00	0.00	0.00	0.00	-9.72
Bangladesh	-18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.53	0.00	-21.63	0.00	0.00	0.00	0.00	0.00	-39.16