



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: 21th February 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 20.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 20th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 21-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)	52375	64113	51202	21354	2464	191508
Peak Shortage (MW)	0	0	0	388	250	638
Energy Met (MU)	1101	1514	1300	460	49	4423
Hydro Gen (MU)	123	31	56	18	10	239
Wind Gen (MU)	14	89	42	-	-	145
Solar Gen (MU)*	137.59	78.52	128.26	2.85	0.56	348
Energy Shortage (MU)	0.06	0.00	0.00	1.64	1.05	2.75
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	58006	72544	64211	22913	2806	216812
Time Of Maximum Demand Met	10:12	10:39	11:26	18:21	18:05	10:23

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	0.070	0.75	2.29	14.20	17.24	73.19	9.57

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	7154	0	137.6	43.6	0.0	141	0.00
	Haryana	7064	0	135.9	89.5	-1.1	159	0.00
	Rajasthan	16874	0	314.8	116.3	-2.0	118	0.00
	Delhi	4049	0	71.4	62.9	1.2	358	0.00
	UP	17413	0	307.6	68.5	-4.4	430	0.00
	Uttarakhand	2156	0	40.2	28.4	-0.3	111	0.00
	HP	1821	0	33.2	29.2	-0.8	97	0.01
	J&K(UT) & Ladakh(UT)	2656	0	53.5	49.3	-2.3	124	0.05
	Chandigarh	230	0	3.6	3.7	-0.2	69	0.00
Railways NR ISTS	179	0	3.5	3.7	-0.3	11	0.00	
WR	Chhattisgarh	5740	0	125.3	63.0	0.1	226	0.00
	Gujarat	20392	0	415.9	162.4	1.6	1148	0.00
	MP	14757	0	294.8	182.6	-2.9	663	0.00
	Maharashtra	28450	0	605.1	186.5	-2.9	675	0.00
	Goa	717	0	13.4	14.3	-1.0	72	0.00
	DNHDDPDCL	1276	0	29.2	29.1	0.1	51	0.00
	AMNSIL	806	0	17.7	8.4	-0.1	245	0.00
	BALCO	522	0	12.4	12.5	-0.1	12	0.00
SR	Andhra Pradesh	12692	0	230.9	86.9	1.6	803	0.00
	Telangana	14831	0	282.4	152.6	-0.5	739	0.00
	Karnataka	16350	0	312.5	140.0	-2.1	1272	0.00
	Kerala	4643	0	93.7	74.7	0.7	234	0.00
	Tamil Nadu	17598	0	371.9	190.8	2.4	878	0.00
	Puducherry	427	0	9.1	9.2	-0.3	31	0.00
ER	Bihar	4524	0	84.9	72.2	0.5	312	0.00
	DVC	3173	0	70.1	-50.9	-0.7	286	0.00
	Jharkhand	1599	0	30.1	21.7	-0.7	319	1.64
	Odisha	5109	0	114.8	28.5	-1.4	284	0.00
	West Bengal	7606	0	157.7	19.3	-2.3	252	0.00
	Sikkim	124	0	2.0	2.0	0.0	25	0.00
Railways ER ISTS	19	0	0.1	0.2	-0.1	9	0.00	
NER	Arunachal Pradesh	175	0	3.1	2.9	0.0	40	0.00
	Assam	1550	0	27.3	22.2	0.2	277	0.82
	Manipur	224	0	3.1	3.1	0.1	43	0.23
	Meghalaya	362	0	6.7	5.7	-0.2	36	0.00
	Mizoram	139	0	2.1	1.7	-0.2	13	0.00
	Nagaland	146	0	2.5	2.5	-0.1	6	0.00
Tripura	243	0	3.9	3.5	-0.2	26	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.4	-12.5	-21.9	-30.2
Day Peak (MW)	-528.0	-509.8	-1042.0	-1421.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	148.1	-227.3	250.5	-180.6	9.2	0.0
Actual(MU)	136.0	-218.5	273.3	-210.0	9.5	-9.8
O/D/U/D(MU)	-12.2	8.8	22.8	-29.4	0.3	-9.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8820	11934	7198	3152	736	31840	58
State Sector	7746	9413	4071	1897	219	23345	42
Total	16566	21347	11269	5049	955	55186	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	677	1575	743	742	10	3747	78
Lignite	29	20	43	0	0	92	2
Hydro	123	31	56	18	10	239	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	10	22	5	0	25	62	1
RES (Wind, Solar, Biomass & Others)	174	172	205	5	1	557	12
Total	1045	1860	1104	765	45	4820	100

Share of RES in total generation (%)	16.67	9.23	18.61	0.62	1.26	11.56
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.41	13.07	28.38	2.43	24.34	18.99

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.032

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216812	10:23	7
Non-Solar hr	196615	18:55	180

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: 21-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	1142	0.0	20.1	-20.1
4	765 kV	SASARAM-FATEHPUR	1	0	608	0.0	12.0	-12.0
5	765 kV	GAYA-BALIA	1	0	625	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	22	44	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALLAHABAD	1	0	69	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	15	624	0.0	5.9	-5.9
9	400 kV	PATNA-BALIA	2	0	661	0.0	16.3	-16.3
10	400 kV	NAUBATPUR-BALIA	2	0	392	0.0	6.7	-6.7
11	400 kV	BIHARSHARIFF-BALIA	2	33	317	0.0	3.5	-3.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	590	0.0	6.7	-6.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	422	0.0	10.2	-10.2
14	220 kV	SAHUPURI-KARAMNUSA	1	1	97	0.0	1.7	-1.7
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	94.0	-93.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1027	354	8.9	0.0	8.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1311	0.0	20.0	-20.0
3	765 kV	JHARSUGUDA-DURG	2	0	686	0.0	13.6	-13.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	838	0.0	15.7	-15.7
5	400 kV	RANCHI-SIPAT	2	0	448	0.0	7.0	-7.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	28	134	0.0	0.8	-0.8
ER-WR						8.9	60.1	-51.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	650	0.0	14.9	-14.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	41.1	-41.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	3071	0.0	62.5	-62.5
4	400 kV	TALCHER-I/C	2	668	226	3.8	0.0	3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	118.4	-118.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAOON	2	0	8	1.0	0.3	0.7
2	400 kV	ALIPURDUAR-BONGAIGAOON	2	522	57	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	96	17	1.0	0.0	1.0
ER-NER						7.2	0.3	6.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	16.6	0.0	16.6
NER-NR						16.6	0.0	16.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1000	0.0	24.7	-24.7
2	HVDC	VINDHYACHAL B/B	-	428	0	6.5	0.0	6.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1447	0.0	27.2	-27.2
4	765 kV	GWALIOR-AGRA	2	58	1911	0.0	15.9	-15.9
5	765 kV	GWALIOR-PHAGI	2	296	1822	0.4	21.7	-21.3
6	765 kV	JABALPUR-ORAI	2	86	820	0.0	11.7	-11.7
7	765 kV	GWALIOR-ORAI	1	1080	0	16.1	0.0	16.1
8	765 kV	SATNA-ORAI	1	0	1065	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1150	706	13.3	1.4	11.9
10	765 kV	VINDHYACHAL-VARANASI	2	84	1441	0.0	11.9	-11.9
11	400 kV	ZERDA-KANKROLI	1	208	88	2.6	0.1	2.5
12	400 kV	ZERDA-BHINMAL	1	607	293	5.2	0.7	4.5
13	400 kV	VINDHYACHAL-RIHAND	1	498	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	754	145	7.7	0.2	7.6
15	220 kV	BHANPURA-RANPUR	1	101	141	0.5	0.7	-0.2
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.4	1.3
17	220 kV	MEHGAON-AURAIYA	1	110	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	75	1	1.1	0.0	1.1
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						67.9	134.4	-66.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	811	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	5013	0.0	86.2	-86.2
3	765 kV	SOLAPUR-RAICHUR	2	646	1759	0.8	20.4	-19.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2836	0.0	49.6	-49.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2813	0.0	51.3	-51.3
6	400 kV	KOLHAPUR-KUDGI	2	1432	0	18.3	0.0	18.3
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	125	2.4	0.0	2.4
WR-SR						21.4	224.3	-202.9

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)	-199	111	-112	-2.70
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-257	181	-147	-3.54
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-259	-117	-211	-5.06
	NER	132kV GELEPHU-SALAKATI	-27	0	-16	-0.39
	NER	132kV MOTANGA-RANGIA	29	0	12	0.29
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-47	-1.12
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-62	-1.50
	ER	NEPAL IMPORT (FROM BIHAR)	-118	0	-65	-1.56
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-392	-186	-348	-8.34
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-927	-631	-818	-19.63
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1421	-952	-1258	-30.19
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-115	0	-97	-2.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 21-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	11.53	0.00	0.00	0.45	0.00	0.00	11.98
Nepal	0.24	0.00	9.63	0.00	0.00	0.00	0.00	0.00	9.87
Bangladesh	19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.68	0.00	21.16	0.00	0.00	0.45	0.00	0.00	41.29

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
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	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

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	0.40	0.00	-11.53	0.00	0.00	-0.45	0.00	0.00	-11.58
Nepal	-0.24	0.00	-9.63	0.00	0.00	0.00	0.00	0.00	-9.87
Bangladesh	-19.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.44
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.28	0.00	-21.16	0.00	0.00	-0.45	0.00	0.00	-40.89