

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 10th 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 09.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 09th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 10-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)	53802	62464	49601	20674	2674	189215
Peak Shortage (MW)	858	346	0	744	81	2029
Energy Met (MU)	1182	1510	1274	449	49	4464
Hydro Gen (MU)	94	44	50	22	9	219
Wind Gen (MU)	5	63	59	-	-	127
Solar Gen (MU)*	150.20	75.64	132.50	3.02	1.20	363
Energy Shortage (MU)	6.68	7.46	0.00	3.53	0.80	18.47
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62185	73074	62941	21643	2696	220140
Time Of Maximum Demand Met	10:09	10:30	11:16	18:33	17:42	10:27

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	0.044	0.00	1.03	6.78	7.81	74.67	17.52

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	8440	0	156.3	67.0	1.0	241	0.00
	Haryana	7679	0	150.1	86.1	1.0	229	1.14
	Rajasthan	17211	0	316.2	114.5	-2.1	281	1.70
	Delhi	4840	0	79.9	66.6	-0.1	340	0.00
	UP	17525	92	328.9	66.6	-0.1	549	0.63
	Uttarakhand	2332	150	44.5	33.8	0.7	195	0.77
	HP	2058	0	36.8	31.2	0.7	217	0.25
	J&K(UT) & Ladakh(UT)	2850	0	60.9	56.9	-0.5	442	2.19
	Chandigarh	280	0	4.4	4.4	0.0	52	0.00
Railways NR ISTS	170	0	3.4	3.4	0.0	39	0.00	
WR	Chhattisgarh	5454	244	117.8	54.3	0.6	410	1.54
	Gujarat	20205	0	409.6	160.1	-2.0	941	0.00
	MP	16299	0	311.7	195.1	-2.6	908	5.92
	Maharashtra	28270	0	595.5	184.4	-2.9	889	0.00
	Goa	711	0	13.3	13.8	-0.7	68	0.00
	DNHDDPDCL	1281	0	29.7	29.6	0.1	89	0.00
	AMNSIL	892	0	20.3	7.3	-0.4	273	0.00
	BALCO	523	0	12.5	12.4	0.1	53	0.00
SR	Andhra Pradesh	12322	0	228.7	81.6	0.4	801	0.00
	Telangana	14558	0	278.1	128.8	-1.6	793	0.00
	Karnataka	16485	0	308.1	139.2	-1.8	487	0.00
	Kerala	4336	0	88.0	69.7	1.5	439	0.00
	Tamil Nadu	17245	0	361.2	175.0	-0.4	893	0.00
	Puducherry	416	0	9.4	8.9	-0.1	29	0.00
ER	Bihar	4969	0	95.3	84.2	-1.1	264	1.29
	DVC	3211	0	72.0	-51.9	1.2	300	0.00
	Jharkhand	1717	84	31.6	22.6	-0.5	250	2.24
	Odisha	4586	0	94.9	15.5	-1.7	331	0.00
	West Bengal	7659	0	153.1	29.6	-1.7	280	0.00
	Sikkim	119	0	2.0	2.0	0.0	19	0.00
Railways ER ISTS	16	0	0.2	0.1	0.1	2	0.00	
NER	Arunachal Pradesh	180	0	3.0	2.8	0.0	50	0.00
	Assam	1506	0	27.9	21.5	1.0	135	0.69
	Manipur	208	0	3.1	2.9	0.2	42	0.11
	Meghalaya	335	0	6.4	5.2	-0.3	55	0.00
	Mizoram	141	0	2.3	1.7	-0.1	25	0.00
	Nagaland	156	0	2.3	2.3	-0.1	20	0.00
Tripura	250	0	3.6	3.7	-0.3	45	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.4	-12.5	-20.2	-20.4
Day Peak (MW)	-650.0	-647.2	-1040.0	-978.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	188.2	-219.0	176.2	-154.2	8.8	0.0
Actual(MU)	179.5	-220.5	187.8	-161.6	9.1	-5.7
O/D/U/D(MU)	-8.6	-1.6	11.7	-7.4	0.3	-5.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8307	11755	4988	4702	731	30483	52
State Sector	9621	12077	4081	2134	255	28167	48
Total	17927	23832	9069	6836	986	58650	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	732	1550	756	672	11	3722	77
Lignite	31	16	52	0	0	99	2
Hydro	94	44	50	22	9	219	5
Nuclear	32	40	52	0	0	123	3
Gas, Naptha & Diesel	17	52	7	0	24	99	2
RES (Wind, Solar, Biomass & Others)	178	142	247	5	1	573	12
Total	1083	1844	1164	699	46	4836	100

Share of RES in total generation (%)	16.43	7.68	21.22	0.69	2.67	11.84
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.05	12.28	30.03	3.87	22.62	18.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.010
Based on State Max Demands	1.033

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	220140	10:27	528
Non-Solar hr	195626	18:52	1527

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: 10-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	916	0.0	15.6	-15.6
4	765 kV	SASARAM-FATEHPUR	1	0	526	0.0	10.3	-10.3
5	765 kV	GAYA-BALIA	1	0	606	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	21	75	0.0	0.6	-0.6
7	400 kV	PUSAULI-ALLAHABAD	1	27	71	0.0	0.5	-0.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	134	540	0.0	4.4	-4.4
9	400 kV	PATNA-BALIA	2	0	481	0.0	11.8	-11.8
10	400 kV	NAUBATPUR-BALIA	2	0	239	0.0	3.6	-3.6
11	400 kV	BIHARSHARIFF-BALIA	2	203	190	0.0	0.7	-0.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	554	0.0	7.7	-7.7
13	400 kV	BIHARSHARIFF-VARANASI	2	0	305	0.0	5.0	-5.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	102	0.0	1.3	-1.3
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-CHANDALI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	70.3	-69.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	221	816	0.0	7.0	-7.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	375	1132	0.0	12.8	-12.8
3	765 kV	JHARSUGUDA-DURG	2	0	684	0.0	13.2	-13.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	695	0.0	12.3	-12.3
5	400 kV	RANCHI-SIPAT	2	51	366	0.0	4.4	-4.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	181	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	95	94	0.3	0.0	0.3
ER-WR						0.3	51.9	-51.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	485	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1255	0.0	30.2	-30.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2986	0.0	52.7	-52.7
4	400 kV	TALCHER-I/C	2	677	0	14.7	0.0	14.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	93.8	-93.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	77	46	0.3	0.0	0.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	744	33	5.7	0.0	5.7
3	220 kV	ALIPURDUAR-SALAKATI	2	129	21	1.0	0.0	1.0
ER-NER						7.1	0.0	7.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	705	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	3013	0.0	72.1	-72.1
2	HVDC	VINDHYACHAL B/B	-	268	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	55	2309	0.0	21.6	-21.6
5	765 kV	GWALIOR-PHAGI	2	30	1893	0.0	24.1	-24.1
6	765 kV	JABALPUR-ORAI	2	83	1035	0.0	16.8	-16.8
7	765 kV	GWALIOR-ORAI	1	1036	0	15.8	0.0	15.8
8	765 kV	SATNA-ORAI	1	0	1024	0.0	17.7	-17.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1485	529	12.8	1.2	11.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2167	0.0	18.8	-18.8
11	400 kV	ZERDA-KANKROLI	1	196	124	1.7	0.4	1.3
12	400 kV	ZERDA -BHINMAL	1	650	368	4.4	2.0	2.4
13	400 kV	VINDHYACHAL -RIHAND	1	494	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	585	450	3.3	2.4	0.9
15	220 kV	BHANPURA-RANPUR	1	44	110	0.2	0.9	-0.7
16	220 kV	BHANPURA-MORAK	1	0	30	1.1	0.2	0.9
17	220 kV	MEHGAON-AURAIYA	1	125	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	92	16	1.0	0.0	1.0
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						60.3	190.4	-130.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	13.2	-13.2
2	HVDC	RAIGARH-PUGALUR	2	0	4012	0.0	64.8	-64.8
3	765 kV	SOLAPUR-RAICHUR	2	955	2088	3.4	14.8	-11.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2675	0.0	34.9	-34.9
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2782	0.0	39.5	-39.5
6	400 kV	KOLHAPUR-KUDGI	2	1402	0	20.0	0.0	20.0
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	0	126	2.3	0.0	2.3
WR-SR						25.7	167.2	-141.5

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)	-228	26	-142	-3.42
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-275	199	-49	-1.17
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-241	-94	-181	-4.34
	NER	132kV GELEPHU-SALAKATI	-31	0	-22	-0.53
	NER	132kV MOTANGA-RANGIA	19	0	5	0.11
NEPAL	NR	NEPAL IMPORT (FROM UP)	-76	0	-26	-0.63
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-60	-1.45
	ER	NEPAL IMPORT (FROM BIHAR)	-157	-8	-56	-1.35
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-490	-41	-376	-9.03
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-533	-740	-17.75
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-978	-801	-851	-20.42
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-119	0	-100	-2.40

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 10-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	11.34	0.00	0.00	0.40	0.00	0.00	11.74
Nepal	0.23	0.00	8.51	0.00	0.00	0.28	0.00	0.00	9.02
Bangladesh	18.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.08
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.31	0.00	19.85	0.00	0.00	0.68	0.00	0.00	38.84

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
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	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42

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	0.42	0.00	-11.34	0.00	0.00	-0.40	0.00	0.00	-11.32
Nepal	-0.23	0.00	-8.51	0.00	0.00	-0.28	0.00	0.00	-9.02
Bangladesh	-18.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.08
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.89	0.00	-19.85	0.00	0.00	-0.68	0.00	0.00	-38.42