



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: 12th 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 11.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 12-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)	52963	58265	44153	20516	2546	178443
Peak Shortage (MW)	0	0	0	339	0	339
Energy Met (MU)	1154	1444	1182	433	48	4260
Hydro Gen (MU)	95	29	32	20	8	183
Wind Gen (MU)	21	82	92	-	-	195
Solar Gen (MU)*	144.99	70.94	125.35	2.79	1.27	345
Energy Shortage (MU)	0.12	0.00	0.00	3.50	0.11	3.73
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60225	70460	58053	21892	2613	210290
Time Of Maximum Demand Met	10:08	10:29	10:14	18:37	18:00	10:28

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	0.028	0.00	0.00	2.18	2.18	82.87	14.95

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	8507	0	154.3	73.6	0.2	172	0.00
	Haryana	7752	0	140.3	83.3	-0.6	274	0.00
	Rajasthan	17351	0	322.2	112.8	-3.8	279	0.00
	Delhi	4521	0	71.9	58.0	-0.1	366	0.00
	UP	18120	0	326.5	93.5	0.9	510	0.00
	Uttarakhand	2287	0	41.0	30.3	-0.5	108	0.00
	HP	1972	0	33.4	28.6	0.0	216	0.00
	J&K(UT) & Ladakh(UT)	2883	70	57.4	54.6	-1.5	354	0.12
	Chandigarh	236	0	3.7	4.1	-0.4	11	0.00
Railways NR ISTS	182	0	3.7	3.5	0.2	18	0.00	
WR	Chhattisgarh	5649	0	115.8	55.8	-3.1	182	0.00
	Gujarat	19428	0	383.0	156.1	-0.1	400	0.00
	MP	16072	0	306.1	190.0	-4.7	581	0.00
	Maharashtra	27006	0	566.1	181.4	-3.3	670	0.00
	Goa	629	0	12.7	12.6	0.0	86	0.00
	DNHDDPDCL	1208	0	28.1	28.2	-0.1	87	0.00
	AMNSIL	892	0	19.5	8.8	0.7	284	0.00
	BALCO	523	0	12.5	12.5	0.0	524	0.00
SR	Andhra Pradesh	12105	0	223.0	77.1	-3.5	527	0.00
	Telangana	13895	0	264.5	134.3	0.5	1026	0.00
	Karnataka	15023	0	284.9	127.5	0.7	603	0.00
	Kerala	4061	0	79.5	67.0	1.4	681	0.00
	Tamil Nadu	14818	0	322.0	156.7	-5.3	964	0.00
	Puducherry	372	0	8.6	8.3	-0.3	27	0.00
ER	Bihar	5139	0	94.0	84.6	-2.6	299	0.00
	DVC	3171	0	71.3	-43.1	0.8	277	0.00
	Jharkhand	1583	163	30.6	21.2	0.5	318	3.50
	Odisha	4472	0	93.7	18.6	-1.5	374	0.00
	West Bengal	6606	0	141.3	22.6	-1.9	232	0.00
	Sikkim	99	0	1.6	1.8	-0.2	10	0.00
Railways ER ISTS	15	0	0.1	0.1	0.0	6	0.00	
NER	Arunachal Pradesh	157	0	3.1	2.8	0.2	50	0.00
	Assam	1469	0	27.1	20.8	0.9	139	0.00
	Manipur	210	0	2.9	3.1	-0.2	39	0.11
	Meghalaya	337	0	6.4	5.8	-0.2	37	0.00
	Mizoram	123	0	2.0	1.6	-0.2	17	0.00
	Nagaland	148	0	2.4	2.3	0.0	19	0.00
Tripura	239	0	3.7	3.6	0.1	30	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-11.1	-12.9	-22.9	-26.7
Day Peak (MW)	-675.8	-612.8	-1053.0	-1255.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	199.3	-230.9	156.0	-134.2	9.8	0.0
Actual(MU)	180.6	-222.1	165.6	-141.7	11.5	-6.1
O/D/U/D(MU)	-18.7	8.8	9.6	-7.6	1.8	-6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8275	10704	4689	4862	706	29236	51
State Sector	8786	12142	5001	2439	255	28622	49
Total	17061	22845	9690	7301	960	57858	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	676	1535	680	637	9	3536	76
Lignite	30	17	59	0	0	106	2
Hydro	95	29	32	20	8	183	4
Nuclear	32	34	52	0	0	118	3
Gas, Naptha & Diesel	16	30	7	0	24	76	2
RES (Wind, Solar, Biomass & Others)	190	156	262	4	1	613	13
Total	1038	1801	1091	661	42	4632	100

Share of RES in total generation (%)	18.28	8.64	23.99	0.67	3.05	13.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.49	12.20	31.71	3.27	21.45	19.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.042

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210290	10:28	318
Non-Solar hr	186642	6:59	21

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: 12-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	988	0.0	15.0	-15.0
4	765 kV	SASARAM-FATEHPUR	1	0	578	0.0	9.3	-9.3
5	765 kV	GAYA-BALIA	1	0	622	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	40	51	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	2	88	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	118	721	0.0	5.7	-5.7
9	400 kV	PATNA-BALIA	2	0	591	0.0	13.0	-13.0
10	400 kV	NAUBATPUR-BALIA	2	0	300	0.0	4.1	-4.1
11	400 kV	BIHARSHARIFF-BALIA	2	190	260	0.0	0.3	-0.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	581	0.0	8.2	-8.2
13	400 kV	BIHARSHARIFF-VARANASI	2	7	354	0.0	4.0	-4.0
14	220 kV	SAHUPURI-KARAMNANA	1	19	172	0.0	1.4	-1.4
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.6	71.5	-70.9
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	426	314	2.4	0.0	2.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	672	646	0.0	4.9	-4.9
3	765 kV	JHARSUGUDA-DURG	2	0	530	0.0	10.1	-10.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	698	0.0	11.8	-11.8
5	400 kV	RANCHI-SIPAT	2	133	247	0.0	2.5	-2.5
6	220 kV	BUDHIPADAR-RAIGARH	1	0	154	0.0	2.1	-2.1
7	220 kV	BUDHIPADAR-KORBA	2	85	81	0.3	0.0	0.3
ER-WR						2.8	31.4	-28.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	11.1	-11.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1257	0.0	30.2	-30.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2819	0.0	52.7	-52.7
4	400 kV	TALCHER-I/C	2	666	0	14.4	0.0	14.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	94.0	-94.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	190	84	0.7	0.3	0.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	676	62	4.4	0.0	4.4
3	220 kV	ALIPURDUAR-SALAKATI	2	121	12	1.0	0.0	1.0
ER-NER						6.1	0.3	5.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	17.3	0.0	17.3
NER-NR						17.3	0.0	17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3009	0.0	47.8	-47.8
2	HVDC	VINDHYACHAL B/B	-	268	0	11.0	0.0	11.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	496	0.0	10.4	-10.4
4	765 kV	GWALIOR-AGRA	2	0	2408	0.0	28.5	-28.5
5	765 kV	GWALIOR-PHAGI	2	0	1980	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	2	0	1137	0.0	21.4	-21.4
7	765 kV	GWALIOR-ORAI	1	1105	0	16.7	0.0	16.7
8	765 kV	SATNA-ORAI	1	0	1123	0.0	19.7	-19.7
9	765 kV	BANASKANTHA-CHITORGARH	2	1161	554	9.8	1.3	8.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2450	0.0	29.0	-29.0
11	400 kV	ZERDA-KANKROLI	1	147	119	1.4	0.4	1.0
12	400 kV	ZERDA -BHINMAL	1	588	314	4.3	1.4	2.9
13	400 kV	VINDHYACHAL -RIHAND	1	493	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	459	578	2.1	3.5	-1.4
15	220 kV	BHANPURA-RANPUR	1	28	152	0.1	1.2	-1.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.5	0.2
17	220 kV	MEHGAON-AURAIYA	1	110	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	76	20	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						59.2	191.4	-132.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	16.6	-16.6
2	HVDC	RAIGARH-PUGALUR	2	0	3005	0.0	53.0	-53.0
3	765 kV	SOLAPUR-RAICHUR	2	1346	1493	5.4	9.0	-3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2001	0.0	31.2	-31.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2603	0.0	36.6	-36.6
6	400 kV	KOLHAPUR-KUDGI	2	1467	0	20.3	0.0	20.3
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	117	2.2	0.0	2.2
WR-SR						27.9	146.4	-118.4

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)	-193	87	-100	-2.40
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-277	134	-141	-3.37
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-275	-134	-214	-5.12
	NER	132kV GELEPHU-SALAKATI	-32	-3	-17	-0.40
	NER	132kV MOTANGA-RANGIA	23	0	9	0.21
NEPAL	NR	NEPAL IMPORT (FROM UP)	-77	0	-46	-1.10
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-141	-10	-55	-1.31
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-472	-213	-377	-9.05
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-634	-847	-20.33
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1255	-866	-1111	-26.67
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-127	0	-105	-2.53

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 12-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	11.92	0.00	0.00	0.25	0.00	0.00	12.17
Nepal	0.28	0.00	9.54	0.00	0.00	0.00	0.00	0.00	9.82
Bangladesh	20.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	20.59	0.00	21.46	0.00	0.00	0.25	0.00	0.00	42.30

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41
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	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41

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	0.41	0.00	-11.92	0.00	0.00	-0.25	0.00	0.00	-11.76
Nepal	-0.28	0.00	-9.54	0.00	0.00	0.00	0.00	0.00	-9.82
Bangladesh	-20.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-20.31
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-20.18	0.00	-21.46	0.00	0.00	-0.25	0.00	0.00	-41.89