



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: 18th 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 17.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 17th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 18-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)	53807	63080	49765	21156	2576	190384
Peak Shortage (MW)	0	0	0	305	136	441
Energy Met (MU)	1178	1507	1264	449	49	4447
Hydro Gen (MU)	99	34	44	21	7	204
Wind Gen (MU)	6	78	75	-	-	159
Solar Gen (MU)*	146.05	73.06	141.53	5.48	0.99	367
Energy Shortage (MU)	0.52	0.00	0.00	1.80	0.75	3.07
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61936	72871	62106	21980	2809	218656
Time Of Maximum Demand Met	10:30	10:45	09:27	18:23	18:05	10:31

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	0.051	0.00	0.45	9.72	10.17	72.86	16.97

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	8368	0	160.4	73.2	-0.6	133	0.00
	Haryana	7896	0	153.3	111.8	-0.5	158	0.00
	Rajasthan	17355	0	324.3	121.6	-2.0	237	0.00
	Delhi	4130	0	68.6	60.6	-0.2	308	0.00
	UP	18029	0	329.5	82.3	-0.5	283	0.00
	Uttarakhand	2322	0	41.9	29.6	0.0	137	0.00
	HP	2013	0	34.7	30.1	-0.2	110	0.22
	J&K(UT) & Ladakh(UT)	2765	0	58.1	55.0	-1.0	106	0.30
	Chandigarh	218	0	3.7	3.8	-0.1	28	0.00
Railways NR ISTS	180	0	3.6	3.5	0.1	20	0.00	
WR	Chhattisgarh	5615	0	121.2	55.5	-0.3	212	0.00
	Gujarat	20416	0	417.0	139.7	0.2	621	0.00
	MP	15071	0	294.6	182.2	-3.2	496	0.00
	Maharashtra	28014	0	599.4	190.4	-2.8	774	0.00
	Goa	716	0	13.4	14.2	-0.9	34	0.00
	DNHDDPDCL	1276	0	29.4	29.4	0.0	35	0.00
	AMNSIL	909	0	19.9	9.8	0.2	275	0.00
	BALCO	520	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	12089	0	226.1	78.9	-1.3	542	0.00
	Telangana	14454	0	273.7	143.1	-1.0	589	0.00
	Karnataka	15548	0	302.2	132.7	-1.5	619	0.00
	Kerala	4424	0	90.9	72.3	1.1	401	0.00
	Tamil Nadu	16973	0	361.6	176.8	0.8	760	0.00
	Puducherry	453	0	9.5	9.5	-0.1	45	0.00
ER	Bihar	4432	0	86.4	72.3	1.8	232	0.10
	DVC	3228	0	67.5	-50.0	-1.9	257	0.00
	Jharkhand	1520	0	29.1	21.5	-1.8	305	1.70
	Odisha	5239	0	111.3	25.8	-0.5	341	0.00
	West Bengal	7128	0	153.1	11.4	-2.2	360	0.00
	Sikkim	115	0	1.9	2.0	-0.1	12	0.00
	Railways ER ISTS	12	0	0.2	0.2	0.0	4	0.00
NER	Arunachal Pradesh	170	0	3.0	2.7	0.2	57	0.00
	Assam	1560	0	27.5	21.9	0.0	130	0.57
	Manipur	216	0	3.0	3.0	0.0	41	0.18
	Meghalaya	350	0	6.5	5.8	-0.2	46	0.00
	Mizoram	142	0	2.3	1.7	0.0	36	0.00
	Nagaland	149	0	2.5	2.3	0.0	32	0.00
	Tripura	246	0	4.1	3.5	-0.1	33	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-6.2	-12.1	-19.2	-28.0
Day Peak (MW)	-624.0	-560.5	-1034.0	-1379.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	230.8	-258.2	192.4	-176.2	11.1	0.0
Actual(MU)	219.1	-251.4	202.8	-190.8	11.6	-8.8
O/D/U/D(MU)	-11.7	6.8	10.4	-14.7	0.4	-8.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7937	10024	6049	4972	762	29744	55
State Sector	9306	7642	4771	2127	219	24064	45
Total	17242	17665	10820	7099	981	53807	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	690	1602	732	700	10	3733	78
Lignite	30	21	53	0	0	104	2
Hydro	99	34	44	21	7	204	4
Nuclear	31	34	52	0	0	117	2
Gas, Naptha & Diesel	11	16	6	0	25	58	1
RES (Wind, Solar, Biomass & Others)	175	155	252	7	1	591	12
Total	1037	1862	1138	728	43	4808	100

Share of RES in total generation (%)	16.84	8.34	22.17	1.01	2.37	12.29
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.46	12.02	30.57	3.90	19.04	19.01

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
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	218656	10:31	201
Non-Solar hr	195047	18:52	173

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: 18-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	1127	0.0	19.1	-19.1
4	765 kV	SASARAM-FATEHPUR	1	0	631	0.0	11.5	-11.5
5	765 kV	GAYA-BALIA	1	0	618	0.0	9.4	-9.4
6	400 kV	PUSAULI-VARANASI	1	29	48	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	78	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	37	693	0.0	6.1	-6.1
9	400 kV	PATNA-BALIA	2	0	585	0.0	15.5	-15.5
10	400 kV	NAUBATPUR-BALIA	2	0	297	0.0	5.0	-5.0
11	400 kV	BIHARSHARIFF-BALIA	2	47	319	0.0	3.2	-3.2
12	400 kV	MOTIHARI-GORAKHPUR	2	0	524	0.0	8.6	-8.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	381	0.0	6.0	-6.0
14	220 kV	SAHUPURI-KARAMNANA	1	0	111	0.0	1.6	-1.6
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	88.4	-87.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	592	222	4.8	0.0	4.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1195	0.0	16.5	-16.5
3	765 kV	JHARSUGUDA-DURG	2	0	684	0.0	12.9	-12.9
4	400 kV	JHARSUGUDA-RAIGARH	4	0	738	0.0	13.4	-13.4
5	400 kV	RANCHI-SIPAT	2	0	403	0.0	6.0	-6.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	187	0.0	3.3	-3.3
7	220 kV	BUDHIPADAR-KORBA	2	43	100	0.0	0.5	-0.5
ER-WR						4.8	52.6	-47.8
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	2001	0.0	37.9	-37.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	3012	0.0	60.1	-60.1
4	400 kV	TALCHER-I/C	2	676	200	6.9	0.0	6.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	106.8	-106.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.0	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	616	111	4.2	0.0	4.2
3	220 kV	ALIPURDUAR-SALAKATI	2	126	2	1.1	0.0	1.1
ER-NER						5.3	0.0	5.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	0	16.9	0.0	16.9
NER-NR						16.9	0.0	16.9
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3009	0.0	59.7	-59.7
2	HVDC	VINDHYACHAL B/B	-	223	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	22.9	-22.9
4	765 kV	GWALIOR-AGRA	2	0	1973	0.0	26.4	-26.4
5	765 kV	GWALIOR-PHAGI	2	0	1972	0.0	28.1	-28.1
6	765 kV	JABALPUR-ORAI	2	0	922	0.0	20.4	-20.4
7	765 kV	GWALIOR-ORAI	1	1147	0	17.5	0.0	17.5
8	765 kV	SATNA-ORAI	1	0	1042	0.0	19.5	-19.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1145	949	8.2	4.6	3.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	1720	0.0	22.8	-22.8
11	400 kV	ZERDA-KANKROLI	1	149	164	1.0	0.6	0.4
12	400 kV	ZERDA -BHINMAL	1	583	432	3.9	2.5	1.4
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	603	206	4.9	0.6	4.3
15	220 kV	BHANPURA-RANPUR	1	76	79	0.3	0.5	-0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17	220 kV	MEHGAON-AURAIYA	1	105	0	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	70	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						56.4	208.6	-152.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	3507	0.0	49.9	-49.9
3	765 kV	SOLAPUR-RAICHUR	2	894	1550	2.3	16.7	-14.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2637	0.0	43.0	-43.0
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2737	0.0	45.2	-45.2
6	400 kV	KOLHAPUR-KUDGI	2	1522	0	21.8	0.0	21.8
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	2.3	0.0	2.3
WR-SR						26.5	173.2	-146.7

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)	-214	36	-20	-0.49
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	281	-222	-14	-0.34
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-347	-114	-214	-5.14
	NER	132kV GELEPHU-SALAKATI	-27	0	-19	-0.45
	NER	132kV MOTANGA-RANGIA	19	0	8	0.20
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-41	-0.99
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-62	-1.49
	ER	NEPAL IMPORT (FROM BIHAR)	-128	0	-64	-1.52
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-432	-73	-336	-8.07
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-923	-637	-708	-16.99
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1379	-1007	-1166	-27.99
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-111	0	-93	-2.22

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 18-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	11.89	0.00	0.00	0.00	0.00	0.00	11.89
Nepal	0.26	0.00	9.28	0.00	0.00	0.00	0.00	0.00	9.54
Bangladesh	16.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.87
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.13	0.00	21.17	0.00	0.00	0.00	0.00	0.00	38.30

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.81
Nepal	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.12
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	0.81	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.93

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	0.81	0.00	-11.89	0.00	0.00	0.00	0.00	0.00	-11.08
Nepal	-0.26	0.00	-9.28	0.00	0.00	0.12	0.00	0.00	-9.42
Bangladesh	-16.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-16.87
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-16.32	0.00	-21.17	0.00	0.00	0.12	0.00	0.00	-37.37