



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: 09th 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 08.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 09-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)	55006	62959	50269	20301	2704	191239
Peak Shortage (MW)	1306	976	0	826	62	3170
Energy Met (MU)	1163	1516	1270	444	49	4441
Hydro Gen (MU)	92	38	50	21	8	210
Wind Gen (MU)	11	123	41	-	-	175
Solar Gen (MU)*	135.97	69.95	128.97	6.02	1.00	342
Energy Shortage (MU)	4.74	4.68	0.00	2.94	0.36	12.72
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	60756	73726	62404	21785	2814	217272
Time Of Maximum Demand Met	09:55	10:57	11:50	18:02	17:38	09:58

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	0.041	0.00	0.24	5.69	5.94	73.85	20.22

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	8270	0	156.7	62.5	0.3	250	0.00
	Haryana	7557	0	144.7	89.0	-1.8	251	1.80
	Rajasthan	17381	0	316.1	114.7	-1.9	228	0.00
	Delhi	4701	0	80.9	66.1	-0.2	279	0.00
	UP	18594	0	314.1	72.0	-0.5	578	0.00
	Uttarakhand	2374	0	44.1	34.5	-0.7	154	0.63
	HP	2060	0	36.1	31.8	-0.3	150	0.37
	J&K(UT) & Ladakh(UT)	2888	0	62.4	57.9	0.2	291	1.94
	Chandigarh	282	0	4.5	4.7	-0.2	19	0.00
Railways NR ISTS	177	0	3.7	3.4	0.2	39	0.00	
WR	Chhattisgarh	5620	57	119.4	57.0	-1.2	811	0.72
	Gujarat	19994	0	404.8	142.8	-0.3	861	0.00
	MP	16376	0	312.3	200.2	-0.6	750	3.96
	Maharashtra	28298	0	604.7	189.3	-0.3	425	0.00
	Goa	711	0	13.3	14.0	-0.9	220	0.00
	DNHDDPDCL	1294	0	29.9	29.8	0.1	107	0.00
	AMNSIL	871	0	18.7	5.5	0.2	292	0.00
	BALCO	522	0	12.5	12.5	0.0	525	0.00
SR	Andhra Pradesh	12367	0	232.2	87.3	-1.0	413	0.00
	Telangana	14331	0	277.2	132.8	-0.5	483	0.00
	Karnataka	16001	0	306.1	144.6	0.8	949	0.00
	Kerala	4411	0	88.8	70.9	1.6	330	0.00
	Tamil Nadu	17153	0	356.1	178.9	-0.6	546	0.00
	Puducherry	416	0	9.3	8.9	-0.2	48	0.00
ER	Bihar	4439	0	91.3	81.2	-2.1	340	1.10
	DVC	3334	0	69.3	-48.2	-0.9	370	0.00
	Jharkhand	1691	0	30.7	23.1	-1.8	306	1.84
	Odisha	4581	0	97.6	15.9	-0.5	262	0.00
	West Bengal	7327	0	152.8	28.6	-1.9	273	0.00
	Sikkim	128	0	2.1	2.0	0.1	26	0.00
Railways ER ISTS	16	0	0.2	0.1	0.1	1	0.00	
NER	Arunachal Pradesh	184	0	3.3	2.8	0.5	64	0.00
	Assam	1528	62	27.8	22.0	0.4	138	0.25
	Manipur	228	0	2.9	2.8	0.1	48	0.11
	Meghalaya	344	0	6.6	5.4	-0.2	37	0.00
	Mizoram	152	0	2.0	1.7	-0.4	15	0.00
	Nagaland	146	0	2.3	2.3	0.0	23	0.00
Tripura	232	0	4.3	3.6	0.6	101	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.1	-11.7	-22.0	-28.0
Day Peak (MW)	-683.3	-645.0	-1054.0	-1397.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	200.7	-256.6	202.6	-156.6	9.8	0.0
Actual(MU)	189.3	-263.8	227.2	-166.5	11.4	-2.4
O/D/U/D(MU)	-11.4	-7.2	24.6	-9.9	1.6	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8184	10817	4988	4862	696	29547	54
State Sector	8226	10547	3561	2269	255	24857	46
Total	16409	21364	8549	7131	951	54404	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	710	1553	738	672	10	3683	77
Lignite	31	15	51	0	0	97	2
Hydro	92	38	50	21	8	210	4
Nuclear	32	40	52	0	0	123	3
Gas, Naptha & Diesel	17	53	7	0	25	101	2
RES (Wind, Solar, Biomass & Others)	140	196	225	8	1	569	12
Total	1021	1894	1122	702	44	4783	100

Share of RES in total generation (%)	13.65	10.34	20.04	1.17	2.26	11.90
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.80	14.49	29.14	4.24	20.83	18.89

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.044

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217272	9:58	1379
Non-Solar hr	196989	18:35	1719

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: 09-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	974	0.0	16.5	-16.5
4	765 kV	SASARAM-FATEHPUR	1	0	570	0.0	9.7	-9.7
5	765 kV	GAYA-BALIA	1	0	618	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	1	29	53	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	5	76	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	163	585	0.0	4.8	-4.8
9	400 kV	PATNA-BALIA	2	0	529	0.0	12.9	-12.9
10	400 kV	NAUBATPUR-BALIA	2	0	446	0.0	3.7	-3.7
11	400 kV	BIHARSHARIFF-BALIA	2	234	236	0.0	0.4	-0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	567	0.0	7.8	-7.8
13	400 kV	BIHARSHARIFF-VARANASI	2	6	335	0.0	3.3	-3.3
14	220 kV	SAHUPURI-KARAMNANA	1	3	106	0.0	1.2	-1.2
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-CHANDAULI	1	0	0	0.0	0.0	0.0
ER-NR						0.5	71.2	-70.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	458	783	0.0	3.4	-3.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	349	1185	0.0	10.5	-10.5
3	765 kV	JHARSUGUDA-DURG	2	0	686	0.0	12.7	-12.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	710	0.0	12.8	-12.8
5	400 kV	RANCHI-SIPAT	2	46	375	0.0	4.1	-4.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	96	117	0.4	0.0	0.4
ER-WR						0.4	45.4	-45.1
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	1642	0.0	37.5	-37.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2945	0.0	53.7	-53.7
4	400 kV	TALCHER-I/C	2	667	0	7.2	0.0	7.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	102.2	-102.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	152	85	0.6	0.4	0.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	503	62	3.9	0.0	3.9
3	220 kV	ALIPURDUAR-SALAKATI	2	84	21	0.7	0.0	0.7
ER-NER						5.3	0.4	4.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	704	0	17.0	0.0	17.0
NER-NR						17.0	0.0	17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	3015	0.0	50.2	-50.2
2	HVDC	VINDHYACHAL B/B	-	268	0	10.3	0.0	10.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	979	0.0	19.8	-19.8
4	765 kV	GWALIOR-AGRA	2	103	2434	0.1	23.0	-22.9
5	765 kV	GWALIOR-PHAGI	2	355	1759	0.3	21.5	-21.2
6	765 kV	JABALPUR-ORAI	2	0	873	0.0	17.0	-17.0
7	765 kV	GWALIOR-ORAI	1	976	0	14.3	0.0	14.3
8	765 kV	SATNA-ORAI	1	0	1244	0.0	19.0	-19.0
9	765 kV	BANASKANTHA-CHITORGARH	2	1254	1166	5.2	6.4	-1.2
10	765 kV	VINDHYACHAL-VARANASI	2	67	2218	0.0	23.3	-23.3
11	400 kV	ZERDA-KANKROLI	1	175	213	0.9	1.0	-0.1
12	400 kV	ZERDA -BHINMAL	1	644	455	3.3	3.0	0.3
13	400 kV	VINDHYACHAL -RIHAND	1	495	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUALPUR	2	632	441	3.8	2.0	1.9
15	220 kV	BHANPURA-RANPUR	1	26	139	0.1	1.3	-1.3
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.6	0.2
17	220 kV	MEHGAON-AURAIYA	1	94	2	1.2	0.0	1.2
18	220 kV	MALANPUR-AURAIYA	1	68	23	0.8	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						51.9	188.1	-136.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	17.4	-17.4
2	HVDC	RAIGARH-PUGALUR	2	0	6030	0.0	84.0	-84.0
3	765 kV	SOLAPUR-RAICHUR	2	777	2032	2.6	16.2	-13.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2663	0.0	37.5	-37.5
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2720	0.0	40.7	-40.7
6	400 kV	KOLHAPUR-KUDGI	2	1303	0	18.7	0.0	18.7
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	119	2.3	0.0	2.3
WR-SR						23.5	195.8	-172.2

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)	-236	59	-123	-2.94
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-258	161	-57	-1.37
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-235	-81	-172	-4.13
	NER	132kV GELEPHU-SALAKATI	-26	-1	-18	-0.42
	NER	132kV MOTANGA-RANGIA	-48	23	-9	-0.22
NEPAL	NR	NEPAL IMPORT (FROM UP)	-77	0	-25	-0.60
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-77	0	-62	-1.48
	ER	NEPAL IMPORT (FROM BIHAR)	-173	-3	-44	-1.05
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-472	0	-359	-8.61
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-926	-544	-808	-19.38
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1397	-902	-1167	-28.00
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-111	-2.66

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 09-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	11.43	0.00	0.00	0.41	0.00	0.00	11.84
Nepal	0.21	0.00	8.58	0.00	0.00	0.42	0.00	0.00	9.21
Bangladesh	19.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.36
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.57	0.00	20.01	0.00	0.00	0.83	0.00	0.00	40.41

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44

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	0.44	0.00	-11.43	0.00	0.00	-0.41	0.00	0.00	-11.40
Nepal	-0.21	0.00	-8.58	0.00	0.00	-0.42	0.00	0.00	-9.21
Bangladesh	-19.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.36
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.13	0.00	-20.01	0.00	0.00	-0.83	0.00	0.00	-39.97