

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: 08th 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 07.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 08-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)	57003	63009	50577	20342	2689	193620
Peak Shortage (MW)	273	0	0	344	61	678
Energy Met (MU)	1168	1523	1260	442	49	4443
Hydro Gen (MU)	93	47	50	22	9	220
Wind Gen (MU)	26	68	44	-	-	138
Solar Gen (MU)*	119.49	63.91	132.53	5.32	0.64	322
Energy Shortage (MU)	3.22	4.17	0.00	2.34	0.79	10.52
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	59668	74453	61627	21737	2711	216413
Time Of Maximum Demand Met	09:57	10:40	09:44	18:39	18:45	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	0.037	0.00	0.00	3.10	3.10	75.44	21.46

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	8039	0	152.7	52.9	0.4	287	0.00
	Haryana	7553	0	147.4	86.6	-0.9	150	1.26
	Rajasthan	17242	0	313.0	107.7	-2.8	237	0.00
	Delhi	4764	0	82.3	68.9	0.4	305	0.00
	UP	18859	0	319.1	79.4	-0.5	340	0.00
	Uttarakhand	2328	195	44.4	34.0	0.3	171	0.86
	HP	2080	0	38.3	32.8	0.6	229	0.00
	J&K(UT) & Ladakh(UT)	3020	0	62.7	57.7	-0.1	249	1.10
	Chandigarh	287	0	4.7	4.7	0.0	47	0.00
Railways NR ISTS	184	0	3.6	3.4	0.2	58	0.00	
WR	Chhattisgarh	5408	15	118.3	57.6	0.4	310	0.47
	Gujarat	20391	0	405.2	172.3	-0.3	800	0.00
	MP	16127	0	312.3	201.2	-1.4	654	3.70
	Maharashtra	28969	0	611.2	194.8	-3.2	785	0.00
	Goa	712	0	13.2	14.0	-1.1	24	0.00
	DNHDDPDCL	1304	0	30.0	29.8	0.2	38	0.00
	AMNSIL	926	0	20.4	7.8	0.2	294	0.00
	BALCO	521	0	12.5	12.5	0.0	8	0.00
SR	Andhra Pradesh	12450	0	233.7	84.6	-1.0	524	0.00
	Telangana	14276	0	274.5	132.7	-0.3	705	0.00
	Karnataka	16223	0	301.1	147.8	-0.8	1401	0.00
	Kerala	4383	0	87.8	72.9	0.8	264	0.00
	Tamil Nadu	16774	0	354.0	179.8	-1.0	619	0.00
	Puducherry	399	0	9.1	9.0	-0.4	15	0.00
ER	Bihar	5024	0	89.9	78.3	-0.4	271	0.09
	DVC	3290	0	70.0	-48.2	-0.3	270	0.00
	Jharkhand	1587	194	30.8	22.6	-1.2	235	2.26
	Odisha	4543	0	95.2	13.1	-1.6	282	0.00
	West Bengal	7101	0	154.1	26.9	-1.9	245	0.00
	Sikkim	124	0	2.1	2.1	0.0	22	0.00
Railways ER ISTS	6	0	0.1	0.1	0.0	2	0.00	
NER	Arunachal Pradesh	179	0	3.2	3.0	0.1	38	0.00
	Assam	1509	61	28.1	21.9	1.3	179	0.62
	Manipur	205	0	2.7	2.8	-0.1	40	0.17
	Meghalaya	363	0	6.6	5.3	-0.1	105	0.00
	Mizoram	149	0	2.5	1.7	0.1	49	0.00
	Nagaland	134	0	2.2	2.3	0.0	24	0.00
Tripura	231	0	4.0	3.6	0.1	46	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.0	-11.7	-22.1	-19.7
Day Peak (MW)	-665.6	553.8	-1068.0	-1123.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	195.7	-225.3	194.0	-173.5	9.1	0.0
Actual(MU)	193.8	-232.8	217.8	-195.0	8.9	-7.4
O/D/U/D(MU)	-1.9	-7.6	23.8	-21.5	-0.2	-7.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8184	9625	4988	4262	721	27780	54
State Sector	7141	10117	3561	2269	239	23326	46
Total	15324	19742	8549	6531	960	51106	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	720	1582	725	694	11	3732	77
Lignite	29	13	60	0	0	102	2
Hydro	93	47	50	22	9	220	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	16	61	7	0	25	108	2
RES (Wind, Solar, Biomass & Others)	169	135	230	8	1	543	11
Total	1058	1877	1124	723	46	4828	100

Share of RES in total generation (%)	15.96	7.20	20.48	1.07	1.40	11.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.75	11.85	29.54	4.06	21.80	18.38

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.017
Based on State Max Demands	1.051

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216413	10:23	875
Non-Solar hr	199178	18:52	494

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: 08-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	942	0.0	17.3	-17.3
4	765 kV	SASARAM-FATEHPUR	1	0	556	0.0	11.2	-11.2
5	765 kV	GAYA-BALIA	1	0	580	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	22	26	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	0	71	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	57	595	0.0	6.2	-6.2
9	400 kV	PATNA-BALIA	2	0	492	0.0	18.8	-18.8
10	400 kV	NAUBATPUR-BALIA	2	0	293	0.0	4.2	-4.2
11	400 kV	BIHARSHARIF-BALIA	2	109	180	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	527	0.0	8.7	-8.7
13	400 kV	BIHARSHARIF-VARANASI	2	0	290	0.0	5.4	-5.4
14	220 kV	SAHUPURI-KARAMNANA	1	8	119	0.0	1.4	-1.4
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	85.1	-84.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	150	1304	0.0	12.6	-12.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	169	1086	0.0	11.9	-11.9
3	765 kV	JHARSUGUDA-DURG	2	0	708	0.0	14.0	-14.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	844	0.0	14.6	-14.6
5	400 kV	RANCHI-SIPAT	2	29	391	0.0	4.8	-4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	150	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	50	109	0.0	0.7	-0.7
ER-WR						0.0	60.7	-60.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	485	0.0	11.6	-11.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2015	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2904	0.0	52.7	-52.7
4	400 kV	TALCHER-I/C	2	408	260	6.1	0.0	6.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	102.8	-102.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	155	97	0.7	0.0	0.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	523	78	5.0	0.0	5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	94	19	1.1	0.0	1.1
ER-NER						6.8	0.0	6.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	704	0	16.7	0.0	16.7
NER-NR						16.7	0.0	16.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1994	0.0	48.5	-48.5
2	HVDC	VINDHYACHAL B/B	-	268	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1451	0.0	28.8	-28.8
4	765 kV	GWALIOR-AGRA	2	21	2205	0.0	22.6	-22.6
5	765 kV	GWALIOR-PHAGI	2	0	2012	0.0	26.5	-26.5
6	765 kV	JABALPUR-ORAI	2	0	1004	0.0	21.0	-21.0
7	765 kV	GWALIOR-ORAI	1	1053	0	16.6	0.0	16.6
8	765 kV	SATNA-ORAI	1	0	1040	0.0	18.3	-18.3
9	765 kV	BANASKANTHA-CHITORGARH	2	1310	1076	14.1	2.3	11.8
10	765 kV	VINDHYACHAL-VARANASI	2	234	2212	0.0	20.2	-20.2
11	400 kV	ZERDA-KANKROLI	1	242	163	2.2	0.4	1.9
12	400 kV	ZERDA -BHINMAL	1	610	315	4.8	0.9	4.0
13	400 kV	VINDHYACHAL -RIHAND	1	497	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUALPUR	2	563	389	3.2	2.1	1.1
15	220 kV	BHANPURA-RANPUR	1	54	155	0.2	1.2	-1.0
16	220 kV	BHANPURA-MORAK	1	0	30	0.9	0.5	0.5
17	220 kV	MEHGAON-AURAIYA	1	99	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	73	17	0.8	0.0	0.8
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						62.3	193.3	-131.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	22.0	-22.0
2	HVDC	RAIGARH-PUGALUR	2	0	5009	0.0	88.7	-88.7
3	765 kV	SOLAPUR-RAICHUR	2	1093	1587	5.2	11.8	-6.6
4	765 kV	WARDHA-NIZAMABAD	2	190	2293	0.1	32.9	-32.8
5	765 kV	WARORA-WARANGAL(NEW)	2	39	2411	0.0	35.8	-35.8
6	400 kV	KOLHAPUR-KUDGI	2	1546	0	20.8	0.0	20.8
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	116	2.3	0.0	2.3
WR-SR						28.4	191.1	-162.7

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)	-220	59	-125	-3.00
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-253	165	-57	-1.36
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-238	-71	-170	-4.09
	NER	132kV GELEPHU-SALAKATI	-31	1	-19	-0.46
	NER	132kV MOTANGA-RANGIA	-38	0	-4	-0.09
NEPAL	NR	NEPAL IMPORT (FROM UP)	-79	0	-26	-0.62
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-79	0	-59	-1.41
	ER	NEPAL IMPORT (FROM BIHAR)	119	1	-32	-0.76
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	435	1	-371	-8.91
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-930	-547	-808	-19.40
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1123	-609	-823	-19.74
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-114	-2.74

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 08-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	10.60	0.00	0.00	1.01	0.00	0.00	11.61
Nepal	0.26	0.00	8.70	0.00	0.00	0.10	0.00	0.00	9.06
Bangladesh	19.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.59	0.00	19.30	0.00	0.00	1.11	0.00	0.00	40.00

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	-10.60	0.00	0.00	-1.01	0.00	0.00	-11.17
Nepal	-0.26	0.00	-8.70	0.00	0.00	-0.10	0.00	0.00	-9.06
Bangladesh	-19.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.33
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.15	0.00	-19.30	0.00	0.00	-1.11	0.00	0.00	-39.56