



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: 05th 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 04.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 04-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 04th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 05-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)	43147	59111	43230	20371	2536	168395
Peak Shortage (MW)	0	0	0	0	80	80
Energy Met (MU)	1082	1460	1159	427	48	4176
Hydro Gen (MU)	92	35	37	19	8	190
Wind Gen (MU)	5	45	56	-	-	106
Solar Gen (MU)*	66.56	61.57	125.32	2.89	0.97	257
Energy Shortage (MU)	0.58	0.00	0.00	1.13	0.79	2.50
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	56729	73410	57136	21660	2640	206344
Time Of Maximum Demand Met	11:31	10:45	09:41	18:03	17:45	11:46

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	0.067	0.02	2.90	7.27	10.20	70.03	19.78

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	6989	0	136.9	41.8	0.5	310	0.00
	Haryana	6102	0	121.6	73.3	-1.7	195	0.00
	Rajasthan	7976	0	287.3	115.1	-8.1	198	0.00
	Delhi	4861	0	75.7	65.4	-1.7	203	0.00
	UP	17179	0	312.1	93.7	-1.9	243	0.00
	Uttarakhand	2203	0	42.7	30.8	0.3	157	0.23
	HP	1935	13	34.9	30.9	-0.5	107	0.01
	J&K(UT) & Ladakh(UT)	3048	0	63.2	61.0	-2.3	138	0.34
	Chandigarh	250	0	4.4	4.5	-0.1	39	0.00
Railways NR ISTS	191	0	3.5	3.6	-0.1	42	0.00	
WR	Chhattisgarh	5352	0	111.3	47.0	0.1	315	0.00
	Gujarat	20482	0	395.7	171.0	0.8	850	0.00
	MP	16542	0	313.3	198.2	-4.4	730	0.00
	Maharashtra	27443	0	568.1	175.5	-1.5	878	0.00
	Goa	607	0	11.3	11.7	-0.9	53	0.00
	DNHDDPDCL	1217	0	28.3	28.4	-0.1	33	0.00
	AMNSIL	887	0	19.5	10.6	-0.5	265	0.00
	BALCO	523	0	12.5	12.5	0.0	11	0.00
SR	Andhra Pradesh	12105	0	224.4	77.8	-2.3	309	0.00
	Telangana	13276	0	251.8	118.9	-0.9	745	0.00
	Karnataka	14820	0	275.2	130.9	-0.7	809	0.00
	Kerala	4042	0	80.0	71.1	0.1	141	0.00
	Tamil Nadu	14866	0	319.3	155.9	-4.3	764	0.00
	Puducherry	368	0	8.6	8.2	-0.2	30	0.00
ER	Bihar	5067	0	92.9	86.4	-1.2	340	0.71
	DVC	3163	0	70.3	-39.4	-0.2	306	0.00
	Jharkhand	1705	0	30.2	23.9	-1.6	227	0.43
	Odisha	4496	0	94.7	14.2	-2.5	394	0.00
	West Bengal	6394	0	136.7	14.2	-2.6	373	0.00
	Sikkim	102	0	1.7	1.8	-0.1	11	0.00
	Railways ER ISTS	16	0	0.1	0.1	0.0	8	0.00
NER	Arunachal Pradesh	173	0	3.2	3.0	0.1	35	0.00
	Assam	1437	0	26.7	20.7	1.1	158	0.62
	Manipur	211	0	3.2	3.0	0.2	43	0.17
	Meghalaya	355	0	7.0	5.8	0.0	53	0.00
	Mizoram	136	0	2.4	1.6	0.1	6	0.00
	Nagaland	144	0	2.4	2.3	0.1	21	0.00
	Tripura	223	0	3.0	3.3	-0.9	28	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.7	-13.4	-22.1	-17.3
Day Peak (MW)	-603.0	-573.8	-1053.0	-773.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	231.5	-238.1	156.6	-158.8	8.6	0.0
Actual(MU)	229.6	-230.5	162.1	-178.3	9.8	-7.3
O/D/U/D(MU)	-1.9	7.5	5.4	-19.5	1.1	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8071	8702	5088	4472	906	27239	52
State Sector	7466	9182	5551	2374	281	24853	48
Total	15537	17884	10639	6846	1187	52093	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	672	1596	684	667	10	3629	80
Lignite	32	13	57	0	0	102	2
Hydro	92	35	37	19	8	190	4
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	15	23	5	0	25	68	1
RES (Wind, Solar, Biomass & Others)	93	110	238	5	1	447	10
Total	935	1817	1072	691	44	4560	100

Share of RES in total generation (%)	9.97	6.07	22.15	0.68	2.20	9.81
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.23	10.24	30.42	2.81	20.20	16.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.002

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	206344	11:46	190
Non-Solar hr	181371	18:52	0

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: 05-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	1116	0.0	15.8	-15.8
4	765 kV	SASARAM-FATEHPUR	1	0	584	0.0	9.1	-9.1
5	765 kV	GAYA-BALIA	1	0	746	0.0	11.5	-11.5
6	400 kV	PUSAULI-VARANASI	1	29	60	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALLAHABAD	1	12	77	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	683	0.0	7.0	-7.0
9	400 kV	PATNA-BALIA	2	0	689	0.0	13.2	-13.2
10	400 kV	NAUBATPUR-BALIA	2	0	360	0.0	6.1	-6.1
11	400 kV	BIHARSHARIF-BALIA	2	0	326	0.0	3.7	-3.7
12	400 kV	MOTIHARI-GORAKHPUR	2	0	576	0.0	9.0	-9.0
13	400 kV	BIHARSHARIF-VARANASI	2	0	330	0.0	4.8	-4.8
14	220 kV	SAHUPURI-KARAMNANA	1	0	113	0.0	1.5	-1.5
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	83.9	-83.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1126	0.0	17.2	-17.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	555	851	0.0	6.5	-6.5
3	765 kV	JHARSUGUDA-DURG	2	0	716	0.0	13.3	-13.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	794	0.0	13.4	-13.4
5	400 kV	RANCHI-SIPAT	2	121	266	0.0	3.2	-3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	71	115	0.0	0.4	-0.4
ER-WR						0.0	56.2	-56.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	504	0.0	11.4	-11.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1237	0.0	30.0	-30.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2551	0.0	50.1	-50.1
4	400 kV	TALCHER-I/C	2	683	0	14.3	0.0	14.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	91.5	-91.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	141	30	0.8	0.0	0.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	454	0	4.9	0.0	4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	73	0	0.9	0.0	0.9
ER-NER						6.6	0.0	6.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	701	0	17.3	0.0	17.3
NER-NR						17.3	0.0	17.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3012	0.0	57.4	-57.4
2	HVDC	VINDHYACHAL B/B	-	439	0	3.4	0.0	3.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	494	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	2464	0.0	28.9	-28.9
5	765 kV	GWALIOR-PHAGI	2	0	2331	0.0	31.2	-31.2
6	765 kV	JABALPUR-ORAI	2	0	1135	0.0	27.2	-27.2
7	765 kV	GWALIOR-ORAI	1	1122	0	17.5	0.0	17.5
8	765 kV	SATNA-ORAI	1	0	1069	0.0	18.8	-18.8
9	765 kV	BANASKANTHA-CHITORGARH	2	933	376	9.9	0.4	9.5
10	765 kV	VINDHYACHAL-VARANASI	2	0	2502	0.0	33.1	-33.1
11	400 kV	ZERDA-KANKROLI	1	176	88	1.3	0.3	1.0
12	400 kV	ZERDA -BHINMAL	1	248	262	1.5	1.0	0.5
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	11.1	0.0	11.1
14	400 kV	RAPP-SHUJALPUR	2	253	517	0.9	3.5	-2.5
15	220 kV	BHANPURA-RANPUR	1	139	183	0.6	1.4	-0.8
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	93	21	1.2	0.0	1.1
18	220 kV	MALANPUR-AURAIYA	1	67	32	0.7	0.1	0.6
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						48.0	216.7	-168.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	508	0.0	11.2	-11.2
2	HVDC	RAIGARH-PUGALUR	2	0	4011	0.0	57.0	-57.0
3	765 kV	SOLAPUR-RAICHUR	2	1215	1354	5.2	10.1	-4.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2385	0.0	33.4	-33.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2373	0.0	34.5	-34.5
6	400 kV	KOLHAPUR-KUDGI	2	1609	0	20.9	0.0	20.9
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	107	2.1	0.0	2.1
WR-SR						28.2	146.3	-118.1

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)	-212	54	-107	-2.56
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-230	172	-81	-1.94
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-220	-46	-142	-3.41
	NER	132kV GELEPHU-SALAKATI	-28	-2	-19	-0.45
	NER	132kV MOTANGA-RANGIA	-44	1	-13	-0.30
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-49	-1.17
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-64	-1.53
	ER	NEPAL IMPORT (FROM BIHAR)	-175	0	-60	-1.43
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-399	-223	-384	-9.22
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-539	-819	-19.65
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-773	-560	-719	-17.25
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-131	0	-104	-2.50

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 05-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	9.79	0.00	0.00	0.25	0.00	0.00	10.04
Nepal	0.25	0.00	10.34	0.00	0.00	0.00	0.00	0.00	10.59
Bangladesh	19.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.86	0.00	20.13	0.00	0.00	0.25	0.00	0.00	40.24

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Nepal	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.22
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	0.43	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.65

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	0.43	0.00	-9.79	0.00	0.00	-0.25	0.00	0.00	-9.61
Nepal	-0.25	0.00	-10.34	0.00	0.00	0.22	0.00	0.00	-10.37
Bangladesh	-19.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-19.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-19.43	0.00	-20.13	0.00	0.00	-0.03	0.00	0.00	-39.59