



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रीड 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: 11th 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 10.02.2024.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड 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 10th February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 11-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)	55971	62491	49133	21111	2644	191350
Peak Shortage (MW)	175	338	0	232	111	856
Energy Met (MU)	1185	1499	1256	444	48	4432
Hydro Gen (MU)	95	41	44	21	9	210
Wind Gen (MU)	13	70	91	-	-	173
Solar Gen (MU)*	149.28	73.41	127.43	2.96	1.12	354
Energy Shortage (MU)	4.14	6.84	0.00	1.76	1.45	14.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	61973	72968	61373	21910	2843	216992
Time Of Maximum Demand Met	10:09	10:45	15:19	18:48	17:57	10:13

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	0.030	0.00	0.00	2.42	2.42	79.53	18.05

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	8445	0	162.6	86.9	-0.7	145	0.00
	Haryana	7793	169	152.0	94.3	0.4	225	2.05
	Rajasthan	17542	0	323.7	116.7	-3.3	195	0.00
	Delhi	4573	0	74.8	60.7	-0.2	310	0.00
	UP	18564	0	328.3	74.1	-0.3	357	0.00
	Uttarakhand	2367	80	41.6	33.1	0.4	107	0.41
	HP	2003	0	35.6	31.2	-0.5	186	0.63
	J&K(UT) & Ladakh(UT)	2923	0	58.7	55.0	-0.5	299	1.05
	Chandigarh	254	0	4.1	4.4	-0.3	26	0.00
Railways NR ISTS	170	0	3.6	3.5	0.1	25	0.00	
WR	Chhattisgarh	5534	6	120.2	58.8	-0.2	424	0.69
	Gujarat	20209	0	406.7	156.9	-2.7	385	0.00
	MP	16418	508	311.4	188.9	-2.3	959	6.15
	Maharashtra	27933	0	587.2	183.3	-1.7	838	0.00
	Goa	712	0	13.2	14.0	-0.9	71	0.00
	DNHDDPDCL	1274	0	29.4	29.5	-0.1	42	0.00
	AMNSIL	882	0	18.6	9.4	-0.1	256	0.00
	BALCO	525	0	12.5	12.5	0.0	9	0.00
SR	Andhra Pradesh	11804	0	224.4	73.3	-3.4	379	0.00
	Telangana	14398	0	276.8	130.0	-0.8	746	0.00
	Karnataka	16001	0	301.0	137.0	-0.2	835	0.00
	Kerala	4242	0	87.0	71.0	1.5	386	0.00
	Tamil Nadu	16935	0	357.6	173.1	-3.4	529	0.00
	Puducherry	421	0	9.3	9.0	-0.3	17	0.00
ER	Bihar	5197	0	93.8	84.8	-3.0	192	0.02
	DVC	3304	0	70.6	-48.9	0.5	214	0.00
	Jharkhand	1754	188	31.3	23.3	-0.9	179	1.74
	Odisha	4551	0	94.0	16.9	-1.4	441	0.00
	West Bengal	7430	0	152.7	28.9	-2.0	303	0.00
	Sikkim	116	0	2.0	2.0	0.0	18	0.00
Railways ER ISTS	17	0	0.1	0.1	0.0	3	0.00	
NER	Arunachal Pradesh	186	0	3.1	3.0	0.1	55	0.00
	Assam	1547	111	27.8	21.6	0.8	135	1.33
	Manipur	220	0	3.0	2.9	0.1	56	0.12
	Meghalaya	354	0	6.4	5.1	-0.1	47	0.00
	Mizoram	145	0	2.0	1.8	0.2	35	0.00
	Nagaland	155	0	2.1	2.4	-0.3	21	0.00
Tripura	261	0	3.4	3.7	-0.3	50	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-14.0	-11.2	-24.2	-26.1
Day Peak (MW)	-592.0	-512.5	-1055.0	-1375.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.4	-235.2	164.6	-151.9	8.1	0.0
Actual(MU)	201.5	-231.0	175.5	-161.2	9.2	-5.9
O/D/U/D(MU)	-12.9	4.2	10.9	-9.3	1.1	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8097	9532	4539	4702	731	27601	50
State Sector	9176	11639	4791	2179	255	28039	50
Total	17272	21171	9330	6881	986	55640	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	706	1579	733	667	11	3695	77
Lignite	28	17	53	0	0	98	2
Hydro	95	41	44	21	9	210	4
Nuclear	32	35	52	0	0	118	2
Gas, Naptha & Diesel	14	30	7	0	24	74	2
RES (Wind, Solar, Biomass & Others)	186	145	272	5	1	609	13
Total	1061	1846	1160	693	44	4804	100

Share of RES in total generation (%)	17.50	7.87	23.45	0.68	2.56	12.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.51	11.97	31.76	3.78	22.48	19.54

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.046

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	216992	10:13	1162
Non-Solar hr	195876	18:56	1764

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: 11-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	1.1	-1.1
3	765 kV	GAYA-VARANASI	2	0	1239	0.0	20.1	-20.1
4	765 kV	SASARAM-FATEHPUR	1	0	560	0.0	10.9	-10.9
5	765 kV	GAYA-BALIA	1	0	690	0.0	6.0	-6.0
6	400 kV	PUSAULI-VARANASI	1	33	65	0.0	0.4	-0.4
7	400 kV	PUSAULI-ALLAHABAD	1	17	81	0.0	0.8	-0.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	156	670	0.0	5.6	-5.6
9	400 kV	PATNA-BALIA	2	0	545	0.0	9.1	-9.1
10	400 kV	NAUBATPUR-BALIA	2	0	274	0.0	4.4	-4.4
11	400 kV	BIHARSHARIF-BALIA	2	229	209	0.0	0.4	-0.4
12	400 kV	MOTIHARI-GORAKHPUR	2	0	553	0.0	8.2	-8.2
13	400 kV	BIHARSHARIF-VARANASI	2	0	328	0.0	4.9	-4.9
14	220 kV	SAHUPURI-KARAMNANA	1	9	112	0.0	1.3	-1.3
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	73.0	-72.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	279	1009	0.0	4.2	-4.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	264	997	0.0	12.0	-12.0
3	765 kV	JHARSUGUDA-DURG	2	0	509	0.0	11.2	-11.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	703	0.0	12.0	-12.0
5	400 kV	RANCHI-SIPAT	2	0	324	0.0	3.8	-3.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	162	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	88	118	0.0	0.1	-0.1
ER-WR						0.0	45.3	-45.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	527	0.0	11.1	-11.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	33.7	-33.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2713	0.0	52.2	-52.2
4	400 kV	TALCHER-I/C	2	671	186	11.0	0.0	11.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	97.0	-97.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	19	6	0.1	0.0	0.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	693	141	6.2	0.0	6.2
3	220 kV	ALIPURDUAR-SALAKATI	2	122	26	1.3	0.0	1.3
ER-NER						7.5	0.0	7.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	703	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	3013	0.0	71.4	-71.4
2	HVDC	VINDHYACHAL B/B	-	267	0	7.3	0.0	7.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	497	0.0	12.2	-12.2
4	765 kV	GWALIOR-AGRA	2	0	2323	0.0	26.9	-26.9
5	765 kV	GWALIOR-PHAGI	2	0	1984	0.0	27.6	-27.6
6	765 kV	JABALPUR-ORAI	2	6	1070	0.0	21.8	-21.8
7	765 kV	GWALIOR-ORAI	1	1055	0	17.7	0.0	17.7
8	765 kV	SATNA-ORAI	1	0	1084	0.0	18.5	-18.5
9	765 kV	BANASKANTHA-CHITORGARH	2	1325	519	12.2	1.1	11.1
10	765 kV	VINDHYACHAL-VARANASI	2	57	2210	0.0	21.0	-21.0
11	400 kV	ZERDA-KANKROLI	1	176	122	1.6	0.5	1.2
12	400 kV	ZERDA -BHINMAL	1	582	351	4.0	1.8	2.2
13	400 kV	VINDHYACHAL -RIHAND	1	490	0	11.0	0.0	11.0
14	400 kV	RAPP-SHUJALPUR	2	488	546	2.3	3.5	-1.2
15	220 kV	BHANPURA-RANPUR	1	31	141	0.1	1.2	-1.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.4	0.2
17	220 kV	MEHGAON-AURAIYA	1	100	0	1.3	0.0	1.3
18	220 kV	MALANPUR-AURAIYA	1	70	16	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						58.6	207.8	-149.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1010	0.0	14.8	-14.8
2	HVDC	RAIGARH-PUGALUR	2	0	5012	0.0	61.9	-61.9
3	765 kV	SOLAPUR-RAICHUR	2	1274	1344	4.4	11.0	-6.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2271	0.0	27.7	-27.7
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2421	0.0	37.4	-37.4
6	400 kV	KOLHAPUR-KUDGI	2	1563	0	20.1	0.0	20.1
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	124	2.3	0.0	2.3
WR-SR						26.8	152.7	-125.9

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)	-195	114	-114	-2.73
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-275	142	-227	-5.45
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-252	-130	-231	-5.54
	NER	132kV GELEPHU-SALAKATI	-27	0	-18	-0.44
NEPAL	NER	132kV MOTANGA-RANGIA	20	-6	7	0.17
	NR	NEPAL IMPORT (FROM UP)	-76	0	-50	-1.21
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-76	0	-58	-1.40
	ER	NEPAL IMPORT (FROM BIHAR)	-107	0	-25	-0.60
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-405	-14	-334	-8.02
	ER	BHERAMARA B/B HVDC (B'DESH)	-921	-441	-906	-21.74
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1375	-809	-1087	-26.09
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-134	0	-103	-2.47

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 11-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	11.69	0.00	0.00	0.48	0.00	0.00	12.17
Nepal	0.28	0.00	8.43	0.00	0.00	0.00	0.00	0.00	8.71
Bangladesh	18.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.72
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.00	0.00	20.12	0.00	0.00	0.48	0.00	0.00	39.60

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42
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	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.42

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	0.42	0.00	-11.69	0.00	0.00	-0.48	0.00	0.00	-11.75
Nepal	-0.28	0.00	-8.43	0.00	0.00	0.00	0.00	0.00	-8.71
Bangladesh	-18.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.72
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.58	0.00	-20.12	0.00	0.00	-0.48	0.00	0.00	-39.18