



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: 22nd 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 21.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रीड निष्पादन रिपोर्ट रांभांप्रेके 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 21st February 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 22-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)	52879	63056	51372	21653	2406	191366
Peak Shortage (MW)	0	0	0	305	0	305
Energy Met (MU)	1117	1504	1307	457	48	4434
Hydro Gen (MU)	120	32	53	20	9	234
Wind Gen (MU)	13	119	30	-	-	162
Solar Gen (MU)*	136.29	76.78	128.85	5.96	0.77	349
Energy Shortage (MU)	0.19	1.85	0.00	2.83	0.22	5.09
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	57525	72474	64298	22508	2696	215966
Time Of Maximum Demand Met	10:11	10:25	09:42	07:44	18:02	10:22

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	0.044	0.00	0.36	9.43	9.79	78.39	11.82

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	7834	0	150.5	53.3	0.0	209	0.00
	Haryana	7175	0	144.7	92.8	1.0	233	0.00
	Rajasthan	16644	0	312.4	113.1	-4.4	284	0.00
	Delhi	4144	0	73.3	63.5	1.5	298	0.00
	UP	17357	0	297.2	60.3	-1.4	284	0.00
	Uttarakhand	2283	35	41.7	29.5	1.0	270	0.12
	HP	1967	0	35.2	30.0	0.1	72	0.00
	J&K(UT) & Ladakh(UT)	2770	0	54.6	48.5	-1.6	69	0.07
	Chandigarh	237	0	3.7	3.8	-0.1	45	0.00
Railways NR ISTS	190	0	4.0	3.7	0.3	32	0.00	
WR	Chhattisgarh	5715	0	124.5	61.3	0.3	251	0.00
	Gujarat	19826	0	410.7	146.1	-0.3	503	0.00
	MP	14592	0	290.4	171.7	-2.1	734	1.85
	Maharashtra	28456	0	605.3	179.2	-3.5	917	0.00
	Goa	688	0	12.8	14.1	-1.4	58	0.00
	DNHDDPDCL	1285	0	29.6	29.5	0.1	52	0.00
	AMNSIL	872	0	18.5	8.8	0.0	293	0.00
	BALCO	523	0	12.4	12.5	-0.1	10	0.00
SR	Andhra Pradesh	12691	0	232.1	94.2	1.5	799	0.00
	Telangana	14973	0	283.6	154.7	-0.6	634	0.00
	Karnataka	16345	0	312.8	137.4	-0.6	874	0.00
	Kerala	4648	0	95.2	71.1	1.8	646	0.00
	Tamil Nadu	17618	0	373.9	202.1	2.0	703	0.00
	Puducherry	427	0	9.6	9.1	-0.1	38	0.00
ER	Bihar	4363	0	79.3	68.0	-0.2	497	1.16
	DVC	3318	0	70.0	-51.5	-0.6	287	0.00
	Jharkhand	1577	0	30.1	22.3	-1.5	212	1.67
	Odisha	5301	0	115.6	28.8	-1.7	309	0.00
	West Bengal	7575	0	160.2	17.4	-2.1	296	0.00
	Sikkim	123	0	2.0	2.1	0.0	22	0.00
Railways ER ISTS	17	0	0.2	0.2	0.0	0	0.00	
NER	Arunachal Pradesh	159	0	2.9	2.9	-0.1	34	0.00
	Assam	1526	0	27.5	22.1	0.1	170	0.17
	Manipur	207	0	2.9	3.0	-0.1	45	0.05
	Meghalaya	358	0	6.5	5.5	-0.2	22	0.00
	Mizoram	133	0	2.0	1.8	-0.2	6	0.00
	Nagaland	141	0	2.2	2.3	-0.2	11	0.00
Tripura	226	0	4.4	3.3	0.2	33	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.5	-12.8	-20.2	-26.0
Day Peak (MW)	-511.0	-579.4	-1028.0	-1275.2

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	151.5	-241.7	277.0	-195.6	8.8	0.0
Actual(MU)	141.8	-237.9	308.6	-225.7	8.6	-4.7
O/D/U/D(MU)	-9.7	3.8	31.6	-30.1	-0.3	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8160	12394	6808	4452	838	32652	57
State Sector	8656	9554	3861	2147	219	24436	43
Total	16816	21948	10669	6599	1057	57088	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	690	1547	733	751	10	3730	77
Lignite	31	20	42	0	0	92	2
Hydro	120	32	53	20	9	234	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	8	30	3	0	25	67	1
RES (Wind, Solar, Biomass & Others)	173	198	194	8	1	575	12
Total	1053	1867	1076	780	45	4821	100

Share of RES in total generation (%)	16.46	10.62	18.00	1.08	1.71	11.92
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.88	14.51	27.74	3.68	21.99	19.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.038

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215966	10:22	0
Non-Solar hr	196539	18:56	168

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: 22-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	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	0	1300	0.0	22.8	-22.8
4	765 kV	SASARAM-FATEHPUR	1	0	734	0.0	13.8	-13.8
5	765 kV	GAYA-BALIA	1	0	556	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	33	33	0.0	0.0	0.0
7	400 kV	PUSAULI-ALLAHABAD	1	0	80	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	566	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	2	0	683	0.0	20.1	-20.1
10	400 kV	NAUBATPUR-BALIA	2	0	351	0.0	6.5	-6.5
11	400 kV	BIHARSHARIFF-BALIA	2	82	158	0.0	1.5	-1.5
12	400 kV	MOTIHARI-GORAKHPUR	2	0	552	0.0	9.6	-9.6
13	400 kV	BIHARSHARIFF-VARANASI	2	0	463	0.0	8.4	-8.4
14	220 kV	SAHUPURI-KARAMNANA	1	0	102	0.0	1.8	-1.8
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	101.1	-100.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	744	363	2.0	0.0	2.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1618	0.0	24.9	-24.9
3	765 kV	JHARSUGUDA-DURG	2	0	712	0.0	14.3	-14.3
4	400 kV	JHARSUGUDA-RAIGARH	4	0	799	0.0	14.9	-14.9
5	400 kV	RANCHI-SIPAT	2	0	508	0.0	8.0	-8.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	199	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	62	117	0.0	0.5	-0.5
ER-WR						2.0	65.3	-63.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	658	0.0	14.8	-14.8
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2003	0.0	42.0	-42.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	3096	0.0	60.2	-60.2
4	400 kV	TALCHER-I/C	2	675	215	3.2	0.0	3.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	117.0	-117.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	8	1.2	0.1	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	511	34	6.5	0.0	6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	88	6	0.9	0.0	0.9
ER-NER						8.6	0.1	8.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	701	0	16.6	0.0	16.6
NER-NR						16.6	0.0	16.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1491	0.0	29.2	-29.2
2	HVDC	VINDHYACHAL B/B	-	432	0	12.1	0.0	12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	980	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	335	1929	0.2	15.4	-15.1
5	765 kV	GWALIOR-PHAGI	2	272	1527	0.4	18.4	-18.0
6	765 kV	JABALPUR-ORAI	2	67	260	0.0	4.8	-4.8
7	765 kV	GWALIOR-ORAI	1	892	0	13.2	0.0	13.2
8	765 kV	SATNA-ORAI	1	0	1180	0.0	18.7	-18.7
9	765 kV	BANASKANTHA-CHITORGARH	2	710	698	5.3	1.8	3.5
10	765 kV	VINDHYACHAL-VARANASI	2	372	1506	0.0	8.2	-8.2
11	400 kV	ZERDA-KANKROLI	1	167	78	1.6	0.1	1.5
12	400 kV	ZERDA -BHINMAL	1	541	184	3.9	0.7	3.2
13	400 kV	VINDHYACHAL -RIHAND	1	488	0	10.9	0.0	10.9
14	400 kV	RAPP-SHUJALPUR	2	665	175	7.1	0.2	6.9
15	220 kV	BHANPURA-RANPUR	1	84	76	0.4	0.4	0.1
16	220 kV	BHANPURA-MORAK	1	0	30	1.7	0.0	1.7
17	220 kV	MEHGAON-AURAIYA	1	116	0	1.8	0.0	1.8
18	220 kV	MALANPUR-AURAIYA	1	82	8	1.1	0.0	1.1
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						59.7	122.1	-62.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1013	0.0	20.7	-20.7
2	HVDC	RAIGARH-PUGALUR	2	0	6033	0.0	120.5	-120.5
3	765 kV	SOLAPUR-RAICHUR	2	248	1921	0.2	21.0	-20.9
4	765 kV	WARDHA-NIZAMABAD	2	0	3055	0.0	50.6	-50.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2957	0.0	50.0	-50.0
6	400 kV	KOLHAPUR-KUDGI	2	1291	0	19.4	0.0	19.4
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	2.2	0.0	2.2
9	220 kV	XELDEM-AMBEWADI	1	0	116	2.2	0.0	2.2
WR-SR						24.0	262.9	-238.9

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)	-208	116	-24	-0.57
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-257	146	-75	-1.79
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-251	-59	-207	-4.96
	NER	132kV GELEPHU-SALAKATI	32	0	-21	-0.50
	NER	132kV MOTANGA-RANGIA	31	0	12	0.29
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-50	-1.20
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-62	-1.50
	ER	NEPAL IMPORT (FROM BIHAR)	-122	-4	-41	-0.97
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-457	-138	-378	-9.08
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-922	-628	-753	-18.06
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1275	-810	-1082	-25.97
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-106	0	-89	-2.14

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 22-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	11.88	0.00	0.00	0.31	0.00	0.00	12.19
Nepal	0.19	0.00	9.52	0.00	0.00	0.00	0.00	0.00	9.71
Bangladesh	18.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.13
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.32	0.00	21.40	0.00	0.00	0.31	0.00	0.00	40.03

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
		IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40
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	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40

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	0.40	0.00	-11.88	0.00	0.00	-0.31	0.00	0.00	-11.79
Nepal	-0.19	0.00	-9.52	0.00	0.00	0.00	0.00	0.00	-9.71
Bangladesh	-18.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.13
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.92	0.00	-21.40	0.00	0.00	-0.31	0.00	0.00	-39.63