



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: 24th 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 23.02.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-फ़रवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड 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 23rd February 2024, is available at the NLDC website.

धन्यवाद,

ग्रिड कंट्रोल ऑफ इंडिया लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 24-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)	53305	62672	51890	21662	2518	192047
Peak Shortage (MW)	115	1342	0	309	109	1875
Energy Met (MU)	1193	1492	1335	459	48	4527
Hydro Gen (MU)	113	33	63	21	9	239
Wind Gen (MU)	11	78	40	-	-	129
Solar Gen (MU)*	154.12	83.44	137.22	2.23	0.74	378
Energy Shortage (MU)	1.55	9.67	0.00	1.13	0.27	12.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	62601	72153	65828	22330	2687	222003
Time Of Maximum Demand Met	10:30	10:42	11:47	18:37	17:46	10:30

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	0.35	9.12	9.47	79.02	11.51

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	9390	0	170.0	84.3	0.5	274	0.00
	Haryana	8178	0	156.4	109.0	-0.6	260	0.59
	Rajasthan	16965	0	320.1	99.8	-3.7	137	0.00
	Delhi	4168	0	74.3	63.9	1.8	329	0.00
	UP	17917	0	329.2	69.1	0.5	1941	0.05
	Uttarakhand	2273	0	42.3	32.2	0.7	231	0.08
	HP	2107	0	36.8	31.3	0.8	143	0.02
	J&K(UT) & Ladakh(UT)	2827	0	56.6	52.2	0.1	269	0.81
	Chandigarh	242	0	3.6	3.7	0.0	21	0.00
	Railways NR ISTS	185	0	3.6	3.7	-0.1	29	0.00
WR	Chhattisgarh	5813	0	126.9	61.6	0.2	234	0.00
	Gujarat	19239	0	408.1	144.7	-3.9	628	0.00
	MP	14507	89	284.6	175.1	1.7	931	9.67
	Maharashtra	27758	0	599.4	169.7	-1.7	1117	0.00
	Goa	695	0	13.2	14.0	-0.9	190	0.00
	DNHDDPDCL	1261	0	29.2	29.6	-0.4	51	0.00
	AMNSIL	815	0	18.3	8.6	0.1	248	0.00
	BALCO	523	0	12.5	12.3	0.2	519	0.00
	Andhra Pradesh	12843	0	238.8	97.2	0.9	1029	0.00
	Telangana	15031	0	288.3	152.3	-0.4	739	0.00
SR	Karnataka	16325	0	316.0	136.5	0.5	1223	0.00
	Kerala	4520	0	92.9	68.2	0.9	367	0.00
	Tamil Nadu	18299	0	389.1	207.6	4.7	771	0.00
	Puducherry	432	0	9.8	9.2	0.1	53	0.00
	Bihar	4446	0	87.0	72.5	2.1	420	0.00
ER	DVC	3340	0	71.6	-57.3	-0.7	289	0.00
	Jharkhand	1654	0	30.0	22.2	-1.4	174	1.13
	Odisha	5303	0	112.0	40.2	-0.6	250	0.00
	West Bengal	7436	0	156.2	23.5	-2.2	418	0.00
	Sikkim	117	0	1.9	2.1	-0.1	18	0.00
	Railways ER ISTS	18	0	0.1	0.1	0.0	2	0.00
	Assam	159	0	3.1	2.9	0.1	33	0.00
NER	Assam	1584	0	27.4	22.3	-0.4	125	0.22
	Manipur	205	0	3.0	3.0	0.0	29	0.05
	Meghalaya	337	0	6.4	5.6	-0.2	67	0.00
	Mizoram	134	0	2.2	1.8	0.1	35	0.00
	Nagaland	145	0	2.4	2.2	0.0	13	0.00
	Tripura	228	0	3.4	3.2	-0.3	29	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.0	-11.9	-21.0	-22.9
Day Peak (MW)	-624.0	-512.4	-1048.0	-1212.5

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	181.9	-257.7	266.8	-198.5	7.5	0.0
Actual(MU)	164.0	-257.5	288.0	-211.4	10.4	-6.5
OD/U/D(MU)	-17.9	0.2	21.2	-12.9	2.9	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7752	11434	5438	3152	768	28543	56
State Sector	7481	8372	4011	2557	219	22639	44
Total	15232	19805	9449	5709	987	51182	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	733	1584	747	738	10	3812	78
Lignite	31	20	46	0	0	96	2
Hydro	113	33	63	21	9	239	5
Nuclear	32	44	52	0	0	127	3
Gas, Naptha & Diesel	10	25	6	0	24	65	1
RES (Wind, Solar, Biomass & Others)	189	166	215	5	1	575	12
Total	1107	1871	1128	764	44	4914	100

Share of RES in total generation (%)	17.03	8.86	19.05	0.62	1.71	11.69
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.09	12.95	29.20	3.40	21.56	19.13

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.016
Based on State Max Demands	1.024

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	222003	10:30	214
Non-Solar hr	194903	18:58	1822

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: 24-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	-	1	49	0.0	1.0	-1.0
3	765 kV	GAYA-VARANASI	2	0	1239	0.0	23.9	-23.9
4	765 kV	SASARAM-FATEHPUR	1	0	707	0.0	14.1	-14.1
5	765 kV	GAYA-BALIA	1	0	609	0.0	9.3	-9.3
6	400 kV	PUSAULI-VARANASI	1	34	38	0.0	0.2	-0.2
7	400 kV	PUSAULI-ALI-AHARAD	1	2	80	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	598	0.0	6.1	-6.1
9	400 kV	PATNA-BALIA	2	0	667	0.0	19.2	-19.2
10	400 kV	NAUBATPUR-BALIA	2	0	340	0.0	6.4	-6.4
11	400 kV	BIHARSHARIFF-BALIA	2	78	215	0.0	1.3	-1.3
12	400 kV	MOTIHARI-GORAKHPUR	2	0	565	0.0	9.8	-9.8
13	400 kV	BIHARSHARIFF-VARANASI	2	0	497	0.0	8.6	-8.6
14	220 kV	SAHPURI-KARAMNANA	1	0	80	0.0	1.4	-1.4
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16	132 kV	GARWALAR-RIHAND	1	30	0	0.4	0.0	0.4
17	132 kV	KARMANASA-SAHPURI	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	101.8	-101.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1095	0	14.2	0.0	14.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	0	1368	0.0	20.7	-20.7
3	765 kV	JHARSUGUDA-DURG	2	0	643	0.0	12.1	-12.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	651	0.0	11.6	-11.6
5	400 kV	RANIGUMPTI	2	0	466	0.0	7.9	-7.9
6	220 kV	BIJHPADAR-RAIGARH	1	0	161	0.0	2.9	-2.9
7	220 kV	BIJHPADAR-KORBA	2	97	90	0.0	0.3	-0.3
ER-WR						14.2	55.3	-41.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	640	0.0	14.7	-14.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2008	0.0	43.6	-43.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	3132	0.0	63.9	-63.9
4	400 kV	TALCHER-I/C	2	255	235	1.2	0.0	1.2
5	220 kV	BALIMELA-UPPER-SILFERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	122.2	-122.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	7	0.4	0.0	0.4
2	400 kV	ALIPURDUAR-BONGAIGAON	2	726	172	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	124	35	1.1	0.0	1.1
ER-NER						7.2	0.0	7.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	703	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	1491	0.0	36.2	-36.2
2	HVDC	VINDHYACHAL B/B	2	427	0	7.7	0.0	7.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1455	0.0	22.2	-22.2
4	765 kV	GWALIOR-AGRA	2	0	1928	0.0	20.4	-20.4
5	765 kV	GWALIOR-PHAGI	2	0	1555	0.0	19.8	-19.8
6	765 kV	JABALPUR-ORAI	2	0	812	0.0	14.7	-14.7
7	765 kV	GWALIOR-ORAI	1	721	0	12.3	0.0	12.3
8	765 kV	SALTA-ORAI	1	0	1101	0.0	20.1	-20.1
9	765 kV	BANASKANTHA-CHITTOGARH	2	841	675	7.7	1.2	6.6
10	765 kV	VINDHYACHAL-VARANASI	2	728	1203	0.0	3.2	-3.2
11	400 kV	ZERDA-KANKROLI	1	154	115	1.5	0.2	1.3
12	400 kV	ZERDA-BHNMAL	1	541	200	4.5	0.7	3.8
13	400 kV	VINDHYACHAL-RIHAND	1	489	0	10.8	0.0	10.8
14	400 kV	BAPP-SHILALPUR	2	583	157	6.7	0.2	6.5
15	220 kV	BHANUPURA-RANPUR	1	83	129	0.6	0.5	0.0
16	220 kV	BHANUPURA-MORAK	1	0	30	0.0	0.0	0.0
17	220 kV	MEHGAON-AURAIYA	1	139	0	1.9	0.0	1.9
18	220 kV	MALANPUR-AURAIYA	1	88	7	1.0	0.0	1.0
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
WR-NR						56.5	139.4	-82.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1011	0.0	11.7	-11.7
2	HVDC	RAIGARH-PUGAUR	2	0	5018	0.0	95.1	-95.1
3	765 kV	SOLAPUR-RAICHUR	2	369	1898	1.0	24.0	-23.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3076	0.0	51.4	-51.4
5	765 kV	WARORA-WARANGAL(NEW)	2	0	3057	0.0	54.3	-54.3
6	400 kV	KOLHAPUR-KUDGI	2	1388	0	19.8	0.0	19.8
7	220 kV	KOLHAPUR-CHIKODI	2	83	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	70	0.0	1.7	-1.7
9	220 kV	XELDEM-AMBEWADI	1	0	113	2.0	0.0	2.0
WR-SR						22.8	238.2	-215.5

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)	-216	64	-67	-1.60
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-306	184	-56	-1.33
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-320	-111	-201	-4.81
	NER	132kV GELEPHU-SALAKATI	-33	0	-19	-0.46
	NER	132kV MOTANGA-RANGIA	24	0	9	0.22
NEPAL	NR	NEPAL IMPORT (FROM UP)	-74	0	-22	-0.52
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-74	0	-61	-1.46
	ER	NEPAL IMPORT (FROM BIHAR)	-155	-14	-66	-1.59
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-357	-46	-348	-8.35
	ER	BHERAMARA B/B HVDC (B'DESH)	-924	-544	-774	-18.57
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1213	812	-954	-22.89
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-124	0	-101	-2.42

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 24-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	11.32	0.00	0.00	0.00	0.01	0.00	0.00	11.33
Nepal	0.25	0.00	9.36	0.00	0.00	0.00	0.00	0.00	0.00	9.61
Bangladesh	18.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.54
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.79	0.00	20.68	0.00	0.00	0.00	0.01	0.00	0.00	39.48

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	0.00	0.40
Nepal	0.00	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	0.00
Myanmar	0.00	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	0.00	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	-11.32	0.00	0.00	0.00	-0.01	0.00	0.00	-10.93
Nepal	-0.25	0.00	-9.36	0.00	0.00	0.00	0.00	0.00	0.00	-9.61
Bangladesh	-18.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.54
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-18.39	0.00	-20.68	0.00	0.00	0.00	-0.01	0.00	0.00	-39.08