



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: 26th January 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 25.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 25-जनवरी-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 25th January 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 26-Jan-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)	58012	61540	47512	20221	2625	189910
Peak Shortage (MW)	2475	1370	0	1388	151	5384
Energy Met (MU)	1309	1476	1207	443	48	4483
Hydro Gen (MU)	94	56	60	26	9	245
Wind Gen (MU)	14	39	34	-	-	88
Solar Gen (MU)*	107.47	69.08	116.85	2.05	0.94	296
Energy Shortage (MU)	19.65	9.14	0.00	10.05	1.57	40.41
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	67208	73293	60860	21251	2627	222327
Time Of Maximum Demand Met	11:31	10:37	09:56	10:39	18:22	11:30

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	0.038	0.00	0.36	9.89	10.25	76.68	13.07

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	9058	0	172.5	62.4	1.8	344	0.00
	Haryana	9353	0	164.4	102.8	0.6	271	8.70
	Rajasthan	17503	0	330.9	120.4	-1.5	182	7.57
	Delhi	5520	0	92.0	80.4	-0.6	338	0.00
	UP	20536	0	391.8	115.8	0.1	625	0.00
	Uttarakhand	2475	80	47.8	33.1	0.4	291	1.42
	HP	2116	3	37.8	31.7	1.5	377	0.01
	J&K(UT) & Ladakh(UT)	3016	120	63.2	56.6	2.4	602	1.95
	Chandigarh	326	0	5.5	4.9	0.6	101	0.00
Railways NR ISTS	193	0	3.2	2.9	0.3	64	0.00	
WR	Chhattisgarh	4852	0	97.6	41.0	-1.3	200	0.00
	Gujarat	21017	0	414.1	145.0	-0.3	396	0.00
	MP	16749	352	324.1	203.9	1.4	958	9.14
	Maharashtra	27560	0	567.4	163.8	-0.5	687	0.00
	Goa	651	0	11.5	12.4	-1.4	86	0.00
	DNHDDPDCL	1289	0	29.4	29.5	-0.1	44	0.00
	AMNSIL	868	0	19.5	9.6	0.0	261	0.00
	BALCO	524	0	12.5	12.5	0.0	10	0.00
SR	Andhra Pradesh	12216	0	225.8	91.1	-1.2	591	0.00
	Telangana	13537	0	256.4	130.7	-0.1	818	0.00
	Karnataka	15589	0	289.9	119.7	-0.3	836	0.00
	Kerala	4229	0	85.4	65.2	1.5	461	0.00
	Tamil Nadu	16614	0	340.7	178.9	1.2	1408	0.00
	Puducherry	424	0	8.8	8.8	0.0	59	0.00
ER	Bihar	5215	242	98.8	87.3	-0.7	323	6.66
	DVC	3361	0	70.7	-39.5	-1.2	385	0.00
	Jharkhand	1651	135	31.5	21.9	0.7	245	3.39
	Odisha	4578	0	91.6	6.7	-2.4	281	0.00
	West Bengal	7070	0	148.5	20.1	-2.4	114	0.00
	Sikkim	120	0	2.0	2.1	0.0	20	0.00
Railways ER ISTS	6	0	0.1	0.1	0.0	3	0.00	
NER	Arunachal Pradesh	175	0	3.0	2.8	0.1	55	0.00
	Assam	1434	151	26.7	21.2	0.4	125	1.21
	Manipur	224	10	3.1	2.8	0.3	44	0.36
	Meghalaya	351	0	6.5	4.9	-0.1	62	0.00
	Mizoram	155	0	2.3	1.6	-0.2	18	0.00
	Nagaland	143	0	2.2	2.2	-0.1	25	0.00
	Tripura	237	0	3.9	3.4	-0.2	19	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-4.4	-11.3	-20.7	-30.3
Day Peak (MW)	-475.5	-668.0	-1056.0	-1384.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	298.1	-296.8	155.7	-164.1	7.1	0.0
Actual(MU)	297.4	-311.1	166.2	-165.0	6.7	-5.8
O/D/U/D(MU)	-0.7	-14.4	10.5	-0.9	-0.4	-5.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8294	10194	4118	5272	676	28554	53
State Sector	6016	10242	5936	2789	281	25263	47
Total	14310	20435	10054	8061	957	53817	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	785	1625	746	667	12	3835	79
Lignite	31	21	58	0	0	109	2
Hydro	94	56	60	26	9	245	5
Nuclear	26	41	70	0	0	137	3
Gas, Naptha & Diesel	19	55	6	0	25	106	2
RES (Wind, Solar, Biomass & Others)	146	113	181	4	1	444	9
Total	1100	1910	1121	697	47	4876	100

Share of RES in total generation (%)	13.23	5.91	16.16	0.56	2.04	9.12
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.12	10.95	27.73	4.28	21.68	16.93

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.013
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	222327	11:30	659
Non-Solar hr	199032	17:00	3161

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: 26-Jan-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	840	0.0	17.3	-17.3
4	765 kV	SASARAM-FATEHPUR	1	0	521	0.0	10.9	-10.9
5	765 kV	GAYA-BALIA	1	0	868	0.0	15.4	-15.4
6	400 kV	PUSAULI-VARANASI	1	6	48	0.0	0.5	-0.5
7	400 kV	PUSAULI-ALLAHABAD	1	0	51	0.0	0.7	-0.7
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	733	0.0	11.0	-11.0
9	400 kV	PATNA-BALIA	2	0	541	0.0	11.7	-11.7
10	400 kV	NAUBATPUR-BALIA	2	0	580	0.0	11.3	-11.3
11	400 kV	BIHARSHARIFF-BALIA	2	0	395	0.0	6.9	-6.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	509	0.0	9.2	-9.2
13	400 kV	BIHARSHARIFF-VARANASI	2	0	402	0.0	7.7	-7.7
14	220 kV	SAHUPURI-KARAMNANA	1	0	143	0.0	2.1	-2.1
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.6	0.0	0.6
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	105.8	-105.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1288	0.0	13.5	-13.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1147	589	3.6	0.0	3.6
3	765 kV	JHARSUGUDA-DURG	2	0	791	0.0	14.7	-14.7
4	400 kV	JHARSUGUDA-RAIGARH	4	0	624	0.0	11.0	-11.0
5	400 kV	RANCHI-SIPAT	2	226	223	0.0	1.2	-1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	5	127	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	0	221	0.0	2.7	-2.7
ER-WR						3.6	44.6	-40.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	503	0.0	11.4	-11.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	0	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2803	0.0	53.2	-53.2
4	400 kV	TALCHER-I/C	2	1426	0	35.4	0.0	35.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	64.6	-64.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	184	86	1.3	0.1	1.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	634	38	6.7	0.0	6.7
3	220 kV	ALIPURDUAR-SALAKATI	2	85	25	0.8	0.0	0.8
ER-NER						8.7	0.1	8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIAL-AGRA	2	660	0	15.7	0.0	15.7
NER-NR						15.7	0.0	15.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2000	0.0	47.9	-47.9
2	HVDC	VINDHYACHAL B/B	-	248	0	5.9	0.0	5.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1452	0.0	25.8	-25.8
4	765 kV	GWALIOR-AGRA	2	0	2731	0.0	40.0	-40.0
5	765 kV	GWALIOR-PHAGI	2	0	1995	0.0	34.3	-34.3
6	765 kV	JABALPUR-ORAI	2	0	1302	0.0	36.3	-36.3
7	765 kV	GWALIOR-ORAI	1	1085	0	17.8	0.0	17.8
8	765 kV	SATNA-ORAI	1	0	1084	0.0	20.5	-20.5
9	765 kV	BANASKANTHA-CHITORGARH	2	823	662	9.0	1.3	7.7
10	765 kV	VINDHYACHAL-VARANASI	2	0	2806	0.0	38.3	-38.3
11	400 kV	ZERDA-KANKROLI	1	151	153	0.9	0.5	0.4
12	400 kV	ZERDA -BHINMAL	1	436	397	2.4	1.6	0.7
13	400 kV	VINDHYACHAL -RIHAND	1	0	28	0.0	0.5	-0.5
14	400 kV	RAPP-SHUJALPUR	2	86	597	0.1	4.2	-4.1
15	220 kV	BHANPURA-RANPUR	1	147	125	0.8	0.4	0.4
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
17	220 kV	MEHGAON-AURAIYA	1	141	22	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	70	44	0.5	0.1	0.4
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						38.7	253.3	-214.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	306	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGALUR	2	0	3004	0.0	46.2	-46.2
3	765 kV	SOLAPUR-RAICHUR	2	738	2343	0.8	22.5	-21.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2720	0.0	39.2	-39.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2758	0.0	41.2	-41.2
6	400 kV	KOLHAPUR-KUDGI	2	1353	0	16.1	0.0	16.1
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	109	2.0	0.0	2.0
WR-SR						18.9	156.3	-137.3

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)	-264	-85	-155	-3.72
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	210	-162	18	0.43
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-117	54	-25	-0.59
	NER	132kV GELEPHU-SALAKATI	-39	21	-31	-0.74
	NER	132kV MOTANGA-RANGIA	-31	0	11	0.26
NEPAL	NR	NEPAL IMPORT (FROM UP)	-72	0	-43	-1.04
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-72	0	-62	-1.50
	ER	NEPAL IMPORT (FROM BIHAR)	-196	0	-26	-0.62
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-472	-63	-341	-8.18
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-928	-447	-759	-18.23
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1384	-1100	-1261	-30.26
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-128	0	-103	-2.48

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 26-Jan-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	7.12	0.00	0.00	0.00	0.00	0.00	7.12
Nepal	0.23	0.00	7.47	0.00	0.00	0.34	0.00	0.00	8.04
Bangladesh	18.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	18.39	0.00	14.59	0.00	0.00	0.34	0.00	0.00	33.32

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84
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	0.84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.84

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	0.84	0.00	-7.12	0.00	0.00	0.00	0.00	0.00	-6.28
Nepal	-0.23	0.00	-7.47	0.00	0.00	-0.34	0.00	0.00	-8.04
Bangladesh	-18.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-18.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-17.55	0.00	-14.59	0.00	0.00	-0.34	0.00	0.00	-32.48