



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: 27th 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 26.01.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 26-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 26th January 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: 27-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)	58553	55874	42957	21238	2534	181156
Peak Shortage (MW)	0	747	0	211	0	958
Energy Met (MU)	1276	1398	1128	441	48	4291
Hydro Gen (MU)	92	52	34	24	9	211
Wind Gen (MU)	12	65	59	-	-	136
Solar Gen (MU)*	96.98	67.03	123.66	2.61	0.91	291
Energy Shortage (MU)	5.25	4.02	0.00	2.92	0.36	12.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	68258	67887	57363	22191	2595	215128
Time Of Maximum Demand Met	11:06	10:46	12:53	18:25	17:37	11:44

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	0.040	0.00	0.00	5.15	5.15	74.81	20.04

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	9065	0	164.8	61.8	-1.1	287	0.00	
	Haryana	7965	0	147.5	91.2	-2.6	172	0.00	
	Rajasthan	17429	0	328.6	127.1	-2.5	296	4.48	
	Delhi	4847	0	78.7	65.5	-1.4	333	0.00	
	UP	22174	0	405.9	141.3	-0.6	370	0.00	
	Uttarakhand	2354	0	42.5	28.2	0.0	242	0.08	
	HP	1880	0	33.5	29.4	-0.3	109	0.00	
	J&K(UT) & Ladakh(UT)	3019	0	66.8	62.6	0.5	400	0.69	
	Chandigarh	277	0	4.7	4.9	-0.2	24	0.00	
	Railways NR ISTS	193	0	3.2	3.3	-0.1	22	0.00	
WR	Chhattisgarh	4795	0	98.9	38.8	0.8	495	0.00	
	Gujarat	19566	0	387.0	130.0	-1.0	642	0.00	
	MP	17817	435	329.0	206.3	1.0	1148	4.02	
	Maharashtra	24175	0	517.4	150.6	-1.8	538	0.00	
	Goa	586	0	10.8	11.5	-1.2	46	0.00	
	DNHDDPDCL	1218	0	23.7	24.0	-0.3	28	0.00	
	AMNSIL	803	0	18.4	9.5	-0.1	243	0.00	
	BALCO	524	0	12.5	12.5	0.0	9	0.00	
	SR	Andhra Pradesh	11823	0	209.3	84.8	-0.4	603	0.00
		Telangana	13464	0	250.7	127.8	-0.7	619	0.00
Karnataka		14750	0	273.0	118.7	-2.9	746	0.00	
Kerala		3910	0	79.6	67.1	0.8	242	0.00	
Tamil Nadu		14388	0	307.8	157.6	-2.7	540	0.00	
Puducherry		380	0	8.0	8.4	-0.4	29	0.00	
ER		Bihar	5625	0	103.1	92.3	-0.9	404	1.40
		DVC	3313	0	69.0	36.9	-2.4	228	0.00
		Jharkhand	1754	0	32.5	24.3	-1.4	327	1.52
		Odisha	4794	0	98.2	11.7	-1.3	349	0.00
	West Bengal	6362	0	136.9	21.4	-2.6	155	0.00	
	Sikkim	98	0	1.7	1.9	-0.3	1	0.00	
	Railways ER ISTS	15	0	0.1	0.1	0.0	6	0.00	
	NER	Arunachal Pradesh	174	0	3.2	2.9	0.2	74	0.00
		Assam	1393	0	26.2	21.0	0.4	117	0.00
		Manipur	228	10	3.0	2.9	0.1	46	0.36
Meghalaya		355	0	6.5	5.3	-0.3	40	0.00	
Mizoram		151	0	2.4	1.6	-0.1	16	0.00	
Nagaland		157	0	2.4	2.3	0.0	32	0.00	
Tripura		228	0	3.9	3.2	-0.3	35	0.00	

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-5.5	-12.6	-17.3	-27.4
Day Peak (MW)	-492.0	-673.1	-1049.0	-1344.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	313.1	-301.5	126.7	-146.6	8.3	0.0
Actual(MU)	314.9	-307.7	128.7	-149.9	8.5	-5.6
OD/UD(MU)	1.8	-6.3	2.0	-3.3	0.2	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8474	10134	3558	4612	541	27319	53
State Sector	5216	9532	5646	3849	281	24524	47
Total	13690	19665	9204	8461	822	51842	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	749	1547	684	649	10	3638	78
Lignite	31	20	65	0	0	116	2
Hydro	92	52	34	24	9	211	4
Nuclear	26	41	69	0	0	136	3
Gas, Naptha & Diesel	19	32	6	0	25	81	2
RES (Wind, Solar, Biomass & Others)	132	135	212	5	1	485	10
Total	1049	1825	1070	677	45	4667	100

Share of RES in total generation (%)	12.61	7.39	19.82	0.68	2.03	10.40
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation (%)	23.89	12.50	29.39	3.39	22.16	17.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.030

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215128	11:44	629
Non-Solar hr	191122	6:59	464

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: 27-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	901	0.0	17.0	-17.0
4	765 kV	SASARAM-FAITEHPUR	1	0	514	0.0	10.0	-10.0
5	765 kV	GAYA-BALIA	2	0	898	0.0	15.9	-15.9
6	400 kV	PUSAULI-VARANASI	1	24	39	0.0	0.3	-0.3
7	400 kV	PUSAULI-ALI-AHARAD	1	0	71	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	790	0.0	11.4	-11.4
9	400 kV	PATNA-BALIA	2	0	676	0.0	12.1	-12.1
10	400 kV	NAUBAITPUR-BALIA	2	0	719	0.0	13.4	-13.4
11	400 kV	BIHARSHARIEF-BALIA	2	0	408	0.0	6.9	-6.9
12	400 kV	MOTIHARI-GORAKHPUR	2	0	590	0.0	10.4	-10.4
13	400 kV	BIHARSHARIEF-VARANASI	2	0	440	0.0	7.9	-7.9
14	220 kV	SAHPURI-KARAMNANA	1	0	129	0.0	2.2	-2.2
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWALAR-RIHAND	1	30	0	0.5	0.0	0.5
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	109.6	-109.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	269	1113	0.0	10.2	-10.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	886	403	4.0	0.0	4.0
3	765 kV	JHARSUGUDA-DURG	2	0	725	0.0	12.1	-12.1
4	400 kV	JHARSUGUDA-RAIGARH	4	0	565	0.0	8.9	-8.9
5	400 kV	RANCHI-SIPAT	2	131	201	0.0	0.5	-0.5
6	220 kV	BIJHPADAR-RAIGARH	2	0	140	0.0	1.9	-1.9
7	220 kV	BIJHPADAR-KORBA	2	0	217	0.0	2.7	-2.7
ER-WR						4.0	36.3	-32.3
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	3	0.0	0.0	0.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2701	0.0	48.0	-48.0
4	400 kV	TALCHER-I/C	2	1911	0	41.6	0.0	41.6
5	220 kV	BALIMELA-UPPER-SILFERRU	1	0	0	0.0	0.0	0.0
ER-SR						0.0	59.4	-59.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	195	72	1.2	0.1	1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	644	15	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	100	29	0.7	0.0	0.7
ER-NE						7.7	0.1	7.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	664	0	16.4	0.0	16.4
NER-NR						16.4	0.0	16.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2501	0.0	46.5	-46.5
2	HVDC	VINDHYACHAL B/B	2	430	0	10.9	0.0	10.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1170	0.0	23.8	-23.8
4	765 kV	GWALIOR-AGRA	2	0	2894	0.0	41.7	-41.7
5	765 kV	GWALIOR-PHAGI	2	0	1991	0.0	32.3	-32.3
6	765 kV	JABALPUR-ORAI	2	0	1365	0.0	38.6	-38.6
7	765 kV	GWALIOR-ORAI	1	999	0	17.2	0.0	17.2
8	765 kV	SALMA-ORAI	1	0	1155	0.0	21.0	-21.0
9	765 kV	BANASKANTHA-CHITTOGARH	2	828	1139	5.5	6.8	-1.2
10	765 kV	VINDHYACHAL-VARANASI	2	0	2988	0.0	42.1	-42.1
11	400 kV	ZERDA-KANKROLI	1	106	272	0.6	1.6	-1.0
12	400 kV	ZERDA-BHNMAL	1	418	484	1.6	3.7	-2.2
13	400 kV	VINDHYACHAL -RIHAND	1	0	21	0.5	0.0	0.5
14	400 kV	BAPP-SHULALPUR	2	183	628	0.4	5.7	-5.3
15	220 kV	BHANPURA-RANPUR	1	128	139	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	89	16	1.4	0.0	1.4
18	220 kV	MALANPUR-AURAIYA	1	51	39	0.5	0.1	0.4
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						39.4	265.6	-226.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	306	0.0	7.2	-7.2
2	HVDC	RAIGARH-PUGAUR	2	0	3004	0.0	46.3	-46.3
3	765 kV	SOLAPUR-RAICHUR	2	1220	1845	3.9	15.7	-11.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2451	0.0	33.2	-33.2
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2517	0.0	34.0	-34.0
6	400 kV	KOLHAPUR-KUDGI	2	1537	0	17.1	0.0	17.1
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	108	2.0	0.0	2.0
WR-SR						23.0	136.4	-113.4

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)	-254	-46	-185	-4.44
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	226	-189	29	0.70
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-198	61	-54	-1.29
	NER	132kV GELEPHU-SALAKATI	-33	-13	-27	-0.64
	NER	132kV MOTANGA-RANGIA	21	-2	8	0.19
NEPAL	NR	NEPAL IMPORT (FROM UP)	-78	0	-2	-0.04
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-78	0	-68	-1.62
	ER	NEPAL IMPORT (FROM BIHAR)	-174	-6	-59	-1.41
BANGLADESH	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-499	-193	-398	-9.56
	ER	BHERAMARA B/B HVDC (B'DESH)	-929	-353	-628	-15.08
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1344	-904	-1143	-27.44
BANGLADESH	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-120	0	-93	-2.24

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 27-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	6.39	0.00	0.00	0.00	0.00	0.00	6.39
Nepal	0.24	0.00	8.76	0.00	0.00	0.28	0.00	0.00	9.28
Bangladesh	15.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	15.40	0.00	15.15	0.00	0.00	0.28	0.00	0.00	30.83

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL
		BILATERAL TOTAL	COLLECTIVE						
			IDAM			RTM			
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13
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	1.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.13

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	1.13	0.00	-6.39	0.00	0.00	0.00	0.00	0.00	-5.26
Nepal	-0.24	0.00	-8.76	0.00	0.00	-0.28	0.00	0.00	-9.28
Bangladesh	-15.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-15.16
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-14.27	0.00	-15.15	0.00	0.00	-0.28	0.00	0.00	-29.70