

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, क़ुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 24th 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
- 3. 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
- 4. कार्यकारी निदेशक, ऊ. पू. क्षे. भा. प्रे. के., डोंगतिएह, लोअर नोंग्रह , लापलंग, शिलोंग 793006 Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 5. 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 23.01.2024.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जनवरी-2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा॰भा॰प्रे॰के॰ की वेबसाइट पर उप्लब्ध 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 January 2024, is available at the NLDC website.

धन्यवाद.

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



Report for previous day

A. Power Supply Position at All India and Regional level

Date of Reporting: 24-Jan-2024

A. Fower Supply Fosition at An initia and Regional level									
	NR	WR	SR	ER	NER	TOTAL			
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	59523	62295	47738	20511	2575	192642			
Peak Shortage (MW)	1776	0	0	1478	120	3374			
Energy Met (MU)	1290	1473	1187	443	48	4441			
Hydro Gen (MU)	95	52	65	24	10	246			
Wind Gen (MU)	10	46	42	-	-	98			
Solar Gen (MU)*	92.86	62.90	119.51	4.68	1.05	281			
Energy Shortage (MU)	28.38	0.45	0.00	9.35	1.20	39.38			
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65588	73857	58387	21266	2651	217114			
Time Of Maximum Demand Met	12:27	10:49	09:56	12:42	17:58	11:29			

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	0.042	0.00	0.34	9.04	9.37	76.83	13.79

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)
	Punjab	9197	0	168.2	54.9	-0.2	308	0.00
	Haryana	9315	0	165.5	102.4	1.2	233	6.82
	Rajasthan	17020	0	322.3	122.9	1.2	309	14.10
	Delhi	5391	0	91.4	79.9	0.1	369	0.00
NR	UP	21036	51	385.3	117.9	-0.5	500	0.79
	Uttarakhand	2483	0	47.2	33.9	1.1	247	1.34
	HP	2152	0	37.4	31.3	1.0	217	1.12
	J&K(UT) & Ladakh(UT)	3021	0	63.7	58.8	0.8	341	4.21
	Chandigarh	332	0	5.7	5.1	0.6	109	0.00
	Railways_NR ISTS	167	0	3.0	3.0	0.0	47	0.00
	Chhattisgarh	4941	0	102.5	49.5	0.5	334	0.00
	Gujarat	20527	0	400.2	142.7	-1.7	540	0.00
	MP	16927	0	325.3	198.1	-3.4	777	0.45
WR	Maharashtra	27966	0	572.5	164.8	0.9	945	0.00
	Goa	660	0	13.0	12.6	-0.1	90	0.00
	DNHDDPDCL	1260	0	28.4	28.3	0.1	46	0.00
	AMNSIL	836	0	18.2	8.6	0.1	258	0.00
	BALCO	525	0	12.4	12.4	0.0	13	0.00
	Andhra Pradesh	12105	0	220.8	87.4	0.7	831	0.00
	Telangana	13396	0	255.8	133.6	1.3	804	0.00
SR	Karnataka	15446	0	286.3	128.4	1.4	854	0.00
	Kerala	4287	0	87.5	67.2	1.0	303	0.00
	Tamil Nadu	16134	0	328.0	177.1	-2.7	402	0.00
	Puducherry	422	0	8.9	8.8	-0.1	46	0.00
	Bihar	4961	0	95.7	85.7	-1.3	572	5.75
	DVC	3353	0	70.6	-46.8	-2.2	308	0.00
	Jharkhand	1658	160	32.2	22.1	0.3	365	3.61
ER	Odisha	4917	0	92.9	9.9	-0.6	493	0.00
	West Bengal	7183	0	150.0	20.7	-2.1	353	0.00
	Sikkim	122	0	2.0	2.1	-0.1	17	0.00
	Railways_ER ISTS	6	0	0.1	0.1	-0.1	2	0.00
	Arunachal Pradesh	176	0	3.0	2.8	0.2	84	0.00
	Assam	1464	86	27.0	21.1	0.8	167	1.11
	Manipur	221	0	3.0	2.8	0.3	52	0.09
NER	Meghalaya	353	0	6.4	4.8	-0.2	65	0.00
	Mizoram	158	0	2.3	1.6	-0.2	15	0.00
	Nagaland	151	0	2.2	2.2	-0.1	27	0.00
	Tripura	241	0	4.1	3.3	0.1	16	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.5	-9.5	-19.4	-28.6
Day Peak (MW)	-590.6	-619.0	-1035.0	-1476.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	293.4	-292.1	152.3	-160.1	6.6	0.0
Actual(MU)	305.3	-320.2	163.4	-165.3	6.9	-10.0
O/D/U/D(MU)	11.9	-28.2	11.2	-5.2	0.3	-10.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8268	9652	3938	5482	651	27990	53
State Sector	6501	8887	6775	2466	281	24909	47
Total	14768	18539	10713	7948	932	52900	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)									
	NR	WR	SR	ER	NER	All India	% Share		
Coal	786	1638	716	668	11	3820	79		
Lignite	33	19	56	0	0	109	2		
Hydro	95	52	65	24	10	246	5		
Nuclear	26	40	68	0	0	134	3		
Gas, Naptha & Diesel	17	49	6	0	25	98	2		
RES (Wind, Solar, Biomass & Others)	126	111	197	7	1	443	9		
Total	1085	1909	1108	699	47	4849	100		
							•		
Share of RES in total generation (%)	11.63	5.83	17.77	1.00	2.22	9.13			
Share of Non-fossil fuel (Hydro,Nuclear and RES)	22.05	10.74	20.77	4.44	22.40	16.06			
in total generation(%)	22.85	10.64	29.76	4.44	22.49	16.96			

H.	All	India	Demai	nd Di	versity	Factor
•	_	_			_	

Based on Regional Max Demands	1.021
Based on State Max Demands	1.061

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

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	217114	11:29	2252
Non-Solar hr	197598	18:45	4639

 $Diversity\ factor = Sum\ of\ regional\ or\ state\ maximum\ demands\ /\ All\ India\ maximum\ demand$

^{**}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

 $[*]Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 24-Jan-2024

Sl No Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	24-Jan-2024 NET (MU)
Import/Export of ER (Tion of circuit	Mar Import (M ())	man Esport (M111)	import (iize)		1,21 (.12)
1 HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC 3 765 kV	PUSAULI B/B GAYA-VARANASI	2	0	49 845	0.0	1.3 15.3	-1.3 -15.3
4 765 kV	SASARAM-FATEHPUR	1	0	514	0.0	10.3	-10.3
5 765 kV 6 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0 10	852 36	0.0	15.3 0.4	-15.3 -0.4
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	59 807	0.0	0.8 10.4	-0.8 -10.4
9 400 kV	PATNA-BALIA	2	0	572	0.0	10.8	-10.8
10 400 kV 11 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0	604 406	0.0	11.3 6.0	-11.3 -6.0
12 400 kV	MOTIHARI-GORAKHPUR	2	0	571	0.0	9.3	-9.3
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	0	406 137	0.0	7.0 1.7	-7.0 -1.7
15 132 kV 16 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0 0.5	0.0	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 ER-NR	0.0	0.0 99.7	0.0 -99.2
Import/Export of ER (221.11	0.0		-5512
1 765 kV 2 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	0 757	1591 725	0.0	22.0 4.5	-22.0 -4.5
3 765 kV	JHARSUGUDA-DURG	2	0	761	0.0	14.7	-14.7
4 400 kV 5 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	0 111	707 274	0.0	9.0 5.6	-9.0 -5.6
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	5 16	148 188	0.0	1.6 1.8	-1.6 -1.8
7 220 KV	DUDHIFADAK-KUKBA	2	10	ER-WR	0.0	59.1	-59.1
Import/Export of ER (_			142	
1 HVDC 2 HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	625	0.0	14.3 0.0	-14.3 0.0
3 765 kV	ANGUL-SRIKAKULAM	2	0	2814	0.0	47.9	-47.9
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2 1	1934 0	0	44.6 0.0	0.0	44.6 0.0
Towns and /FI				ER-SR	0.0	62.2	-62.2
Import/Export of ER (V	With NER) BINAGURI-BONGAIGAON	2	172	68	1.3	0.1	1.2
2 400 kV	ALIPURDUAR-BONGAIGAON	2	607	7	6.6	0.0	6.6
3 220 kV	ALIPURDUAR-SALAKATI	2	100	0 ER-NER	1.2 9.1	0.0 0.1	1.2 9.0
Import/Export of NER							
1 HVDC	BISWANATH CHARIALI-AGRA	2	662	0 NER-NR	16.3 16.3	0.0	16.3 16.3
Import/Export of WR (With NR)			NER-NR	10.3	0.0	10.3
1 HVDC	CHAMPA-KURUKSHETRA	2	0	3002	0.0	68.5	-68.5
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	98	80 1451	0.8	0.6 32.3	0.2 -32.3
4 765 kV 5 765 kV	GWALIOR-AGRA	2 2	0	2483 2096	0.0	37.4 35.9	-37.4
6 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2 2	0	1182	0.0	34.7	-35.9 -34.7
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	1091 0	0 1132	18.3 0.0	0.0 22.1	18.3 -22.1
9 765 kV	BANASKANTHA-CHITORGARH	2	809	469	7.6	0.9	6.7
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 150	3009 140	0.0 1.2	44.4 0.5	-44.4 0.8
12 400 kV	ZERDA -BHINMAL	1	493	399	2.1	1.7	0.4
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	971 54	0 548	21.8 0.1	0.0 5.0	21.8 -5.0
15 220 kV 16 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	1	155 0	89 30	1.3 0.0	0.3 1.3	1.0 -1.3
17 220 kV	MEHGAON-AURAIYA	1	93	0	1.1	0.0	1.1
18 220 kV 19 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	68	21 0	0.5	0.1	0.4
20 132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Import/Export of WR ((With SR)			WR-NR	54.8	285.5	-230.8
1 HVDC	BHADRAWATI B/B		0	307	0.0	7.2	-7.2
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1387	4509 2222	0.0 5.3	75.9 16.7	-75.9 -11.4
4 765 kV	WARDHA-NIZAMABAD	2	0	2934	0.0	38.7	-38.7
5 765 kV 6 400 kV	WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI	2 2	0 1646	2848	0.0 19.5	36.0 0.0	-36.0 19.5
7 220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8 220 kV 9 220 kV	PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 116	0.0 2.1	0.0	0.0 2.1
				WR-SR	27.0	174.6	-147.6
	IN'	TERNATIONAL EXC	CHANGES			Import(+ve)/Export(-ve)
State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU- ALIPURDUAR RECEIPT HEP 4*180MW) 400kV TALA-BINAGURI	(from MANGDECHU	-267	-29	-156	-3.73
	ER	MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	I) i.e. BINAGURI EP 6*170MW)	-257	238	-30	-0.71
BHUTAN	ER	MALBASE - BIRPARA) i (from CHUKHA HEP 4*8	.e. BIRPARA RECEIPT	-236	-52	-157	-3.76
	NER	132kV GELEPHU-SALA	KATI	-30	-7	-16	-0.39
	NER	132kV MOTANGA-RANG	GIA	19	-4	5	0.12
	NR	NEPAL IMPORT (FROM	I UP)	0	0	0	0.83
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-72	0	-62	-1.50
	ER	NEPAL IMPORT (FROM	1 BIHAR)	-164	0	-26	-0.63
	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	-455	-31	-343	-8.22
	ER	BHERAMARA B/B HVD	C (B'DESH)	-917	-443	-709	-17.00
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAI	HANPUR (B'DESH) D/C	-1476	-854	-1193	-28.64
	NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-118	0	-100	-2.40

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 24-Jan-2024

Export From India (in MU)

Export From II	laia (iii ivic)				T. CNIA				l
					T-GNA				
	GNA		COLLECTIVE						
Country	(ISGS/PPA)	BILATERAL		IDAM			RTM		TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	10.14	0.00	0.00	0.58	0.00	0.00	10.72
Nepal	0.24	0.00	7.49	0.00	0.00	0.19	0.00	0.00	7.92
Bangladesh	17.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.01
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	17.25	0.00	17.63	0.00	0.00	0.77	0.00	0.00	35.65

Import by India(in MU)

Total Net

-16.79

0.00

-17.63

		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46
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	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.46

Net from India(in MU) -ve : Export / +ve : Import T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM TOTAL BILATERAL RTM Country TOTAL IEX PXIL HPX IEX PXIL HPX 0.46 0.00 -10.14 -0.58 0.000.00 Bhutan 0.000.00-10.26 -0.24 0.00 -7.49 0.00 0.00 -0.19 0.00 0.00-7.92 Nepal Bangladesh -17.01 0.000.00 0.000.000.000.000.00-17.01 0.00 0.000.00 0.000.000.000.00 0.000.00Myanmar

0.00

0.00

-0.77

0.00

0.00

-35.19