

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

ાવન

दिनांक: 16th January 2024

To,

- 1. 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 15.01.2024.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-Jan-2024

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	60960	58345	38603	20831	2438	181177
Peak Shortage (MW)	195	0	0	844	44	1083
Energy Met (MU)	1267	1408	1029	450	44	4198
Hydro Gen (MU)	95	35	41	21	11	202
Wind Gen (MU)	4	37	30	-	-	71
Solar Gen (MU)*	115.89	65.11	113.28	5.12	1.10	301
Energy Shortage (MU)	4.26	0.00	0.00	3.34	0.38	7.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	65117	72026	54170	21887	2509	212774
Time Of Maximum Demand Met	11:09	10:21	09:27	18:12	17:41	10:28

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	0.034	0.00	0.00	4.11	4.11	78.80	17.09

C. Power Supply Position in States

Region States		Max.Demand Met during the	Shortage during maximum	Energy Met	Drawal Schedule	OD(+)/UD(-)	Max OD	Energy Shortage (MU)
Region	States	day (MW)	Demand (MW)	(MU)	(MU)	(MU)	(MW)	
	Punjab	8353	0	158.9	62.4	-0.6	288	0.00
	Haryana	9103	0	159.9	94.6	-0.8	82	1.71
	Rajasthan	17273	0	322.6	117.0	-1.1	151	0.46
	Delhi	5454	0	90.1	75.5	0.3	275	0.00
NR	UP	20668	0	379.3	124.9	0.5	821	0.00
	Uttarakhand	2287	70	44.9	35.0	0.0	248	0.68
	HP	2030	0	36.3	31.4	0.2	104	0.32
	J&K(UT) & Ladakh(UT)	3052	170	65.9	59.9	1.8	427	1.09
	Chandigarh	334	0	5.4	5.1	0.4	97	0.00
	Railways_NR ISTS	177	0	3.5	3.2	0.3	53	0.00
	Chhattisgarh	5175	0	106.4	44.1	-0.8	202	0.00
	Gujarat	18638	0	361.8	165.5	0.2	953	0.00
	MP	16720	0	302.2	182.1	-4.4	604	0.00
WR	Maharashtra	27196	0	564.8	181.4	0.6	659	0.00
	Goa	669	0	13.1	13.3	-0.6	56	0.00
	DNHDDPDCL	1227	0	27.6	27.4	0.2	112	0.00
	AMNSIL	913	0	20.1	9.9	0.2	255	0.00
	BALCO	519	0	12.4	12.5	-0.1	(MW) 288 82 151 275 821 248 104 427 97 53 202 953 604 659 56 112	0.00
	Andhra Pradesh	10988	0	194.5	69.4	-2.0	459	0.00
	Telangana	13057	0	236.6	108.4	0.6	674	0.00
SR	Karnataka	14846	0	263.4	118.5	-2.3	912	0.00
	Kerala	4173	0	81.8	63.9	1.1	485	0.00
	Tamil Nadu	12413	0	245.7	135.8	-1.1	400	0.00
	Puducherry	310	0	7.0	6.9	-0.5	9	0.00
	Bihar	5525	349	102.9	95.9	1.0	329	1.13
	DVC	3351	0	71.6	-46.5	0.2		0.00
	Jharkhand	1698	41	31.2	22.8	-1.6	225	2.22
ER	Odisha	4962	0	101.9	20.8	-1.2		0.00
	West Bengal	6731	0	140.1	24.7	-3.8	228	0.00
	Sikkim	114	0	1.8	2.0	-0.2	4	0.00
	Railways_ER ISTS	12	0	0.1	0.1	0.0	3	0.00
	Arunachal Pradesh	168	0	2.4	2.7	-0.5		0.00
	Assam	1313	0	24.0	19.3	-0.3		0.00
	Manipur	203	12	3.0	2.9	0.1		0.14
NER	Meghalaya	373	0	6.2	5.1	-0.2		0.24
. 122	Mizoram	152	0	2.2	1.6	-0.2		0.00
	Nagaland	155	0	2.2	2.2	-0.1		0.00
	Tripura	237	0	4.0	3.3	-0.1		0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-12.1	-8.8	-21.4	-17.4
Day Peak (MW)	-1086.8	-366.0	-1046.0	-904.8

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

E. Import By Regions (in Fig.) - Import (+vc)/Export (-vc), OD(+)/OD(-)									
	NR	WR	SR	ER	NER	TOTAL			
Schedule(MU)	295.9	-248.8	84.3	-134.5	3.0	0.0			
Actual(MU)	292.1	-247.0	84.6	-137.0	1.8	-5.5			
O/D/II/D(MII)	2.0	17	0.4	2.6	1.2	5.5			

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	8467	9594	4218	4766	417	27462	51
State Sector	7101	9882	5415	3935	281	26614	49
Total	15568	19476	9633	8701	698	54075	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MU)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	747	1575	673	650	11	3655	80
Lignite	29	21	58	0	0	108	2
Hydro	95	35	41	21	11	202	4
Nuclear	26	25	73	0	0	124	3
Gas, Naptha & Diesel	20	18	6	0	26	71	2
RES (Wind, Solar, Biomass & Others)	143	106	169	7	1	426	9
Total	1061	1779	1020	678	48	4586	100
Share of RES in total generation (%)	13.51	5.93	16.56	1.07	2.27	9.29	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.93	9.28	27.75	4.13	24.28	16.41	

H. All India Demand Diversity Factor	
D1 D1-M D1-	

H. All India Demand Diversity Factor					
Based on Regional Max Demands	1.013				
Based on State Max Demands	1.036				

I. All India Peak	Demand an	d shortage at Solar and	Non-Solar Hour
	,	117 (7 5777)	

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	212774	10:28	687
Non-Solar hr	187915	17:00	377

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 -> 06:00 to 18:00hrs 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: 16-Jan-2024

Sl No Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	16-Jan-2024 NET (MU)
Import/Export of ER (Tion of circuit	Man Import (M111)	man Emport (mr vv)	Import (IIIC)		1,21 (,120)
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	49 828	0.0	1.3 12.4	-1.3 -12.4
4 765 kV	SASARAM-FATEHPUR	1	0	448	0.0	6.9	-6.9
5 765 kV 6 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0 25	891 41	0.0	15.5 0.2	-15.5 -0.2
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	75 802	0.0	1.0 8.9	-1.0 -8.9
9 400 kV	PATNA-BALIA	2	0	686	0.0	12.1	-12.1
10 400 kV 11 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0	735 424	0.0	12.6 5.9	-12.6 -5.9
12 400 kV	MOTIHARI-GORAKHPUR	2	0	600	0.0	8.9	-8.9
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	0	347 143	0.0	3.3 1.7	-3.3 -1.7
15 132 kV 16 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.1 0.4	0.0	0.1 0.4
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 90.5	0.0 -90.0
Import/Export of ER (221.11	0.0		-5010
1 765 kV 2 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	326 998	1051 234	0.0 7.6	9.9	-9.9 7.6
3 765 kV	JHARSUGUDA-DURG	2	0	615	0.0	12.3	-12.3
4 400 kV 5 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	0 208	554 147	0.0	7.8 0.2	-7.8 -0.2
6 220 kV	BUDHIPADAR-RAIGARH	1	3	133	0.0	1.7 0.0	-1.7
7 220 kV	BUDHIPADAR-KORBA	2	95	82 ER-WR	0.5 8.1	32.0	0.5 -23.9
Import/Export of ER (
1 HVDC 2 HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	330 1855	0.0	7.3 36.4	-7.3 -36.4
3 765 kV	ANGUL-SRIKAKULAM	2	0	2387	0.0	38.8	-38.8
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	2 1	620	99	8.2 0.0	0.0	8.2 0.0
				ER-SR	0.0	82.5	-82.5
Import/Export of ER (V	With NER) BINAGURI-BONGAIGAON	2	258	107	2.3	0.0	2.3
2 400 kV	ALIPURDUAR-BONGAIGAON	2	867	87	9.2	0.0	9.2
3 220 kV	ALIPURDUAR-SALAKATI	2	99	7 ER-NER	0.6 12.1	0.0	0.6 12.1
Import/Export of NER				ER-NEK			12.1
1 HVDC	BISWANATH CHARIALI-AGRA	2	662	0 NED ND	14.9	0.0	14.9
Import/Export of WR (With NR)			NER-NR	14.9	0.0	14.9
1 HVDC	CHAMPA-KURUKSHETRA	2	0	4513	0.0	56.1	-56.1
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	90	483 1913	2.0	1.7 25.0	0.3 -25.0
4 765 kV	GWALIOR-AGRA	2	0	3140	0.0	47.0	-47.0
5 765 kV 6 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2 2	0	1295 1318	0.0	20.7 31.6	-20.7 -31.6
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	953 0	0 1302	13.0 0.0	0.0 23.9	13.0 -23.9
9 765 kV	BANASKANTHA-CHITORGARH	2	901	751	9.3	0.7	8.6
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 148	3713 145	0.0 1.0	60.3 0.2	-60.3 0.8
12 400 kV	ZERDA -BHINMAL	1	477	418	2.7	1.6	1.1
13 400 kV 14 400 kV	VINDHYACHAL -RIHAND RAPP-SHUJALPUR	1 2	976 71	0 689	21.4 0.1	0.0 5.1	21.4 -5.0
15 220 kV	BHANPURA-RANPUR	1	168	61	1.5	0.1	1.4
16 220 kV 17 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 80	30 29	0.0	1.1 0.0	-1.1 0.6
18 220 kV 19 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	53	51 0	0.2	0.2	0.0
20 132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Immont/Ermont of WD (With CD)			WR-NR	51.8	275.4	-223.6
Import/Export of WR (BHADRAWATI B/B		0	307	0.0	7.2	-7.2
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1569	606 1546	0.0 11.7	14.5 8.7	-14.5 3.0
4 765 kV	WARDHA-NIZAMABAD	2	315	2412	0.2	27.2	-27.0
5 765 kV 6 400 kV	WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI	2 2	0 1606	2467	0.0 23.2	26.8	-26.8 23.2
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	0 123	0.0 2.1	0.0	0.0 2.1
		·		WR-SR	37.2	84.5	-47.3
	IN	TERNATIONAL EX	CHANGES			Import(+ve)/Export(-ve)
State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	400kV MANGDECHHU-ALIPURDUAR RECEIPT HEP 4*180MW)	(from MANGDECHU	0	0	0	-3.39
	ER	400kV TALA-BINAGURI MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA)	I) i.e. BINAGURI EP 6*170MW)	0	0	0	-3.87
BHUTAN	ER	MALBASE - BIRPARA) i (from CHUKHA HEP 4*8	.e. BIRPARA RECEIPT	0	0	0	-4.10
	NER	132kV GELEPHU-SALA	KATI	-42	-17	-31	-0.74
	NER	132kV MOTANGA-RANG	GIA	-19	12	-1	-0.04
	NR	NEPAL IMPORT (FROM	I UP)	-70	0	0	0.00
NEPAL	NR	132kV MAHENDRANAG	AR-TANAKPUR(NHPC)	-70	0	-53	-1.27
	ER	NEPAL IMPORT (FROM	1 BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	-366	-94	-313	-7.52
	ER	BHERAMARA B/B HVD	C (B'DESH)	-921	-587	-795	-19.07
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAI	HANPUR (B'DESH) D/C	-905	-554	-725	-17.39
	NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-125	0	-97	-2.32

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 16-Jan-2024

Export From India (in MU)

Export From II	(m 1/20)				T-GNA				
Country	GNA (ISGS/PPA)	COLLECTIVE							
		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	11.25	0.00	0.00	0.07	0.00	0.00	11.32
Nepal	0.26	0.00	7.04	0.00	0.00	0.00	0.00	0.00	7.30
Bangladesh	18.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.99
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.25	0.00	18.29	0.00	0.00	0.07	0.00	0.00	37.61

Import by India(in MU)

Myanmar **Total Net**

		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							7
Country		BILATERAL	IDAM			RTM			TOTAL
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49
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	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49

Net from India(in MU) -ve : Export / +ve : Import T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM BILATERAL RTM TOTAL Country TOTAL IEX PXIL HPX IEX PXIL HPX 0.49 0.00 -11.25 -0.07 0.000.00 -10.83 Bhutan 0.000.00-0.26 0.00 -7.04 0.00 0.00 0.000.00 0.00-7.30 Nepal -18.99 Bangladesh 0.000.000.000.000.000.000.00-18.99 0.00 0.000.00 0.000.000.00 0.000.00

0.00

0.00

-0.07

0.00

0.00

-37.12

0.00

0.00

-18.29

-18.76