

## 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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 04<sup>th</sup> 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 03.01.2024.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 03-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 03<sup>rd</sup> 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: 04-Jan-2024

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at	59160	59901	45134	19121	2578	185894
19:00 hrs; from RLDCs)		0	0	12/0	26	1204
Peak Shortage (MW)	0	U	U	1268	36	1304
Energy Met (MU)	1214	1421	1143	414	47	4239
Hydro Gen (MU)	99	42	54	16	10	221
Wind Gen (MU)	20	52	57	-	-	129
Solar Gen (MU)*	96.70	50.43	93.58	2.56	1.11	244
Energy Shortage (MU)	6.72	0.00	0.00	8.26	0.47	15.45
Maximum Demand Met During the Day (MW)	62059	72003	57623	20325	2739	210795
(From NLDC SCADA)	02059	72003	5/023	20325	2/39	210785
Time Of Maximum Demand Met	12:22	10:23	09:44	17:37	17:44	10:54

B. Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.054 0.32 78.52 9.35 10.00 12.13

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the day (MW)	maximum Demand (MW)	(MU)	Schedule (MU)	(MU)	(MW)	Shortage (MU)
	Punjab	8161	0	154.1	63.7	0.2	396	0.00
	Haryana	8621	0	156.9	96.7	-0.4	151	0.00
	Rajasthan	17088	0	322.4	122.0	-1.2	205	3.65
	Delhi	5250	0	84.9	76.8	-1.0	247	0.00
NR	UP	19713	0	345.1	119.6	-1.8	1492	2.18
	Uttarakhand	2288	0	42.7	32.6	0.1	160	0.40
	HP	2105	0	36.9	30.4	0.4	231	0.11
	J&K(UT) & Ladakh(UT)	2956	0	63.1	58.4	-0.2	215	0.38
	Chandigarh	288	0	4.7	4.5	0.2	82	0.00
	Railways_NR ISTS	168	0	3.5	3.2	0.2	37	0.00
	Chhattisgarh	4816	0	98.8	40.1	0.1	513	0.00
	Gujarat	20260	0	384.5	155.3	-0.2	396	0.00
	MP	16652	0	307.3	192.9	-5.6	435	0.00
WR	Maharashtra	27314	0	557.1	183.6	-3.3	865	0.00
	Goa	701	0	13.9	13.5	-0.1	67	0.00
	DNHDDPDCL	1253	0	28.5	28.6	-0.1	53	0.00
	AMNSIL	816	0	18.5	9.3	-0.2	238	0.00
	BALCO	522	0	12.4	12.5	-0.1	8	0.00
	Andhra Pradesh	10992	0	202.5	75.1	-0.6	483	0.00
	Telangana	13035	0	237.8	106.3	-0.2	554	0.00
SR	Karnataka	15019	0	271.5	112.4	-0.2	884	0.00
	Kerala	4251	0	85.8	68.1	0.7	407	0.00
	Tamil Nadu	16138	0	336.7	208.9	-1.0	528	0.00
	Puducherry	401	me Demand (MW)         (MU)         Schedule (MU)         (DU)         (DU)         (DU)         (AU)         (DU)         (AU)         (DU)         (AU)         (DU)         (D	31	0.00			
	Bihar	4621	165	86.8	75.9	-1.0	292	5.49
	DVC	3205	0	70.5	-51.5	-0.8	295	0.00
	Jharkhand	1695	275	30.8	22.4	-1.2	371	2.77
ER	Odisha	4508	0	87.8	28.4		288	0.00
	West Bengal	6676	0	135.8	19.2		290	0.00
	Sikkim	119	0	1.9	1.9	0.0	37	0.00
	Railways_ER ISTS	16	0	0.1	0.1	0.0	12	0.00
	Arunachal Pradesh	160	0	2.9			23	0.00
	Assam	1536	0	26.5	21.1	0.3	94	0.00
	Manipur	228	20	3.2		0.1	39	0.18
NER	Meghalaya	331	36	6.3	5.2	-0.2	45	0.29
	Mizoram	136	0	2.1	1.7	-0.2	9	0.00
	Nagaland	145	0	2.4		0.0	18	0.00
	Tripura	229	0	3.8	3.0	-0.3	2	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-8.9	-6.1	-21.2	-15.1
Day Peak (MW)	-728.0	-323.0	-904.0	-769.0

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

	NR	WR	SR	$\mathbf{E}\mathbf{R}$	NER	TOTAL
Schedule(MU)	273.4	-280.5	155.6	-150.3	1.9	0.0
Actual(MU)	269.8	-281.8	167.1	-160.7	0.7	-4.8
O/D/U/D(MU)	-3.5	-1.3	11.5	-10.4	-1.1	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6454	7931	5438	5961	340	26123	48
State Sector	8541	11037	5615	3254	281	28727	52
Total	14995	18967	11053	9215	621	54850	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	727	1623	682	637	16	3684	79
Lignite	30	11	58	0	0	99	2
Hydro	99	42	54	16	10	221	5
Nuclear	26	52	76	0	0	155	3
Gas, Naptha & Diesel	15	23	7	0	25	71	2
RES (Wind, Solar, Biomass & Others)	140	106	178	4	1	430	9
Total	1037	1858	1055	657	52	4660	100
Share of RES in total generation (%)	13.51	5.73	16.90	0.64	2.12	9.23	]
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.62	10.81	29.22	3.14	20.42	17.30	

H.	All	India	Demand 1	Diversity	Factor
D.		D	134-	<b>D</b>	1

Based on Regional Max Demands	1.018
Based on State Max Demands	1.055
•	

I. All India Peak	Demand	and	shortage	at Solar	and l	Non-Solar Hour
	3.7	1	- 117	1/3 / ***		

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	210785	10:54	2199
Non-Solar hr	193675	17:47	1599

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

<sup>\*\*</sup>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

 $<sup>*</sup>Source: RLDCs \ for \ solar \ connected \ to \ ISTS; SLDCs \ for \ embedded \ solar. \ Limited \ visibility \ of \ embedded \ solar \ data.$ 

		INTER-R	REGIONAL EXCH	IANGES		Import=(+ve) /Export Date of Reporting:	t =(-ve) for NET (MU) 04-Jan-2024
Sl No Voltage Level		No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of El	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC 3 765 kV	PUSAULI B/B GAYA-VARANASI	2	0	49 1128	0.0	1.2 18.6	-1.2 -18.6
4 765 kV 5 765 kV	SASARAM-FATEHPUR GAYA-BALIA	1 1	0	615 798	0.0	10.2 13.5	-10.2 -13.5
6 400 kV 7 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	55 0	29 106	0.5 0.0	0.0 1.6	0.5 -1.6
8 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	827	0.0	11.0	-11.0
9 400 kV 10 400 kV	PATNA-BALIA NAUBATPUR-BALIA	2 2	0	493 519	0.0	9.9 9.3	-9.9 -9.3
11 400 kV 12 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	0	401 494	0.0	5.3 8.3	-5.3 -8.3
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	0	516 137	0.0	8.5 1.7	-8.5 -1.7
15 132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.1	0.0	0.1
16 132 kV 17 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	1 1	30 0	0	0.4	0.0	0.4 0.0
18 132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 1.0	98.9	0.0 -97.9
Import/Export of El	R (With WR)  JHARSUGUDA-DHARAMJAIGARH	4	837	309	3.2	0.0	3.2
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	776	896	0.0	2.8	-2.8
3 765 kV 4 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	2 4	0	1183 670	0.0 0.0	22.7 10.9	-22.7 -10.9
5 400 kV 6 220 kV	RANCHI-SIPAT BUDHIPADAR-RAIGARH	2	142 7	345 114	0.0	2.3	-2.3 -1.2
7 220 kV	BUDHIPADAR-KORBA	2	102	123 ER-WR	0.0 3.2	0.4 40.4	-0.4 -37.2
Import/Export of E		_					
1 HVDC 2 HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	19 1292	0.0 0.0	0.0 31.3	0.0 -31.3
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 629	3148 0	0.0 13.6	55.6 0.0	-55.6 13.6
5 220 kV	BALIMELA-UPPER-SILERRU	1	0	0 ER-SR	0.0	0.0 86.9	0.0 -86.9
Import/Export of E							
1 400 kV 2 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	251 789	0	2.6 10.0	0.0	2.6 10.0
3 220 kV	ALIPURDUAR-SALAKATI	2	138	0 ER-NER	1.9 14.5	0.0	1.9 14.5
Import/Export of N	ER (With NR)  BISWANATH CHARIALI-AGRA	2	663	0 NER-NR	16.2 16.2	0.0	16.2 16.2
Import/Export of W		1					
1 HVDC 2 HVDC	CHAMPA-KURUKSHETRA VINDHYACHAL B/B	2	1 180	1 197	0.0 4.2	0.0 0.6	0.0 3.6
3 HVDC 4 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1452 3014	0.0	36.3 46.2	-36.3 -46.2
5 765 kV 6 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2 2	0	2427 1381	0.0	41.6 40.9	-41.6 -40.9
7 765 kV	GWALIOR-ORAI	1	1143	0	18.4	0.0	18.4
8 765 kV 9 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	2	0 1177	1348 762	0.0 10.8	26.3 1.4	-26.3 9.4
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 156	3297 141	0.0 1.4	48.7 0.2	-48.7 1.2
12 400 kV 13 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	469 983	332	2.8 22.4	1.1	1.7 22.4
14 400 kV	RAPP-SHUJALPUR	2	128	697	0.2	5.7 2.5	-5.5
15 220 kV 16 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	1	0	145 30	0.0 0.0	1.3	-2.5 -1.3
17 220 kV 18 220 kV	MEHGAON-AURAIYA MALANPUR-AURAIYA	1	99 74	23 44	0.8	0.0	0.7 0.2
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1 2	0	0	0.0	0.0	0.0
Import/Export of W	/D (With CD)			WR-NR	61.3	253.0	-191.7
1 HVDC	BHADRAWATI B/B		0	1013	0.0	16.5	-16.5
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1170	4009 1919	0.0 2.4	46.5 11.1	-46.5 -8.7
4 765 kV 5 765 kV	WARDHA-NIZAMABAD WARORA-WARANGAL(NEW)	2 2	0	2965 2907	0.0	38.3 38.2	-38.3 -38.2
6 400 kV	KOLHAPUR-KUDGI	2	1380	0	19.0	0.0	19.0
7 220 kV 8 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9 220 kV	XELDEM-AMBEWADI	1	0	119 WR-SR	2.2	0.0 150.6	2.2 -127.1
	II	NTERNATIONAL EX	CHANGES			Import	(+ve)/Export(-ve)
State	Region	400kV MANGDECHHU-	Name ALIPURDUAR 1,2&3 i.e.	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
	ER	ALIPURDUAR RECEIP HEP 4*180MW) 400kV TALA-BINAGUR MALBASE - BINAGUR	I 1,2,4 (& 400kV	-233 226	-226	-112 -65	-2.69 -1.56
BHUTAN	ER	RECEIPT (from TALA I 220kV CHUKHA-BIRPA MALBASE - BIRPARA)	HEP 6*170MW) RA 1&2 (& 220kV	-221	-77	-166	-3.98
	NER	(from CHUKHA HEP 4*) 132kV GELEPHU-SALA	84MW)	-33	0	-20	-0.49
	NER	132kV MOTANGA-RAN	GIA	-20	9	-5	-0.13
	NR	132kV MAHENDRANAO	GAR-TANAKPUR(NHPC)	-68	0	-49	-1.17
NEPAL	ER	NEPAL IMPORT (FROM	M BIHAR)	0	0	0	0.00
	ER	400kV DHALKEBAR-M	UZAFFARPUR 1&2	-323	0	-204	-4.89
	ER	BHERAMARA B/B HVE	OC (B'DESH)	-799	-599	-795	-19.09
BANGLADESH	ER (Isolated from Indian Grid)		HANPUR (B'DESH) D/C	-769	-408	-628	-15.06
	NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-105	0	-90	-2.16

## CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 04-Jan-2024

-ve : Export / +ve : Import

Export From India (in MU)

Export From II					T-GNA				
	GNA		COLLECTIVE						
Country	(ISGS/PPA)	BILATERAL		IDAM			RTM		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.00	0.00	10.22	0.00	0.00	0.08	0.00	0.00	10.30
Nepal	0.22	0.00	3.59	0.00	0.00	1.16	0.00	0.00	4.97
Bangladesh	18.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.98
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	19.20	0.00	13.81	0.00	0.00	1.24	0.00	0.00	34.25

Import by India(in MU)

Net from India(in MU)

		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57
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	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57

T-GNA COLLECTIVE **GNA** (ISGS/PPA) IDAM BILATERAL RTM TOTAL Country TOTAL IEX PXIL HPX IEX PXIL HPX 0.57 0.00 -10.22 -0.08 0.000.00 Bhutan 0.000.00-9.73 -0.22 0.00 -3.59 0.00 0.00 -1.16 0.00 0.00-4.97 Nepal

Bangladesh -18.98 0.000.000.000.000.000.000.00-18.98 0.00 0.000.00 0.000.000.000.00 0.000.00Myanmar **Total Net** -18.63 0.00-13.81 0.00 -1.24 0.00 0.00-33.68 0.00