

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: 01st February 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 31.01.2024.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31st January 2024, is available at the NLDC website.

धन्यवाद,

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



Date of Reporting: 01-Feb-2024

10:44

18:40

Report for previous day

A. Power Supply Position at All India and Regional level

NR WR ER NER TOTAL SR Demand Met during Evening Peak hrs(MW) (at 55369 61672 48829 20818 2571 189259 19:00 hrs; from RLDCs) Peak Shortage (MW) 430 345 950 119 1844 0 Energy Met (MU) 1201 1500 1219 452 49 4421 Hydro Gen (MU) 88 50 51 22 9 220 Wind Gen (MU) 54 7 30 91 Solar Gen (MU)* 107.13 56.30 126.83 5.14 0.79 296 Energy Shortage (MU) 6.29 7.63 22.74 6.67 0.00 2.15 Maximum Demand Met During the Day (MW) 62879 73740 60804 21573 2609 220092 (From NLDC SCADA)

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	0.031	0.00	0.00	3.24	3.24	78.10	18.66

10:39

09:44

18:15

10:40

C. Power Supply Position in States

Time Of Maximum Demand Met

		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	6750	0	140.0	36.6	-0.6	303	0.00
	Haryana	7748	0	144.6	89.0	-1.4	234	1.45
	Rajasthan	17486	0	325.0	129.1	-1.0	272	3.41
	Delhi	5296	0	88.7	79.6	1.0	459	0.00
NR	UP	17985	0	351.6	115.7	-0.8	407	0.00
	Uttarakhand	2343	210	47.0	32.1	1.0	210	0.74
	HP	1941	0	36.9	32.2	0.1	153	0.00
	J&K(UT) & Ladakh(UT)	2917	0	59.0	58.0	-2.8	187	0.69
	Chandigarh	297	0	4.9	4.8	0.1	69	0.00
	Railways_NR ISTS	185	0	3.4	3.4	0.0	43	0.00
	Chhattisgarh	5334	0	109.7	45.6	0.0	355	0.00
	Gujarat	20572	0	407.9	151.6	-0.2	458	0.00
	MP	17043	79	323.9	206.1	0.1	850	6.67
WR	Maharashtra	28384	0	586.0	179.3	2.3	1463	0.00
	Goa	667	0	12.8	12.7	-0.4	75	0.00
	DNHDDPDCL	1259	0	29.2	29.2	0.0	41	0.00
	AMNSIL	835	0	18.4	9.1	0.0	293	0.00
	BALCO	523	0	12.5	12.5	0.0	6	0.00
	Andhra Pradesh	12029	0	221.5	88.9	0.0	682	0.00
	Telangana	13511	0	254.8	124.6	-0.4	870	0.00
SR	Karnataka	15668	0	293.0	119.1	-1.7	721	0.00
	Kerala	4340	0	85.8	68.7	0.9	188	0.00
	Tamil Nadu	17035	0	354.8	184.5	3.5	1427	0.00
	Puducherry	418	0	9.2	8.9	-0.2	25	0.00
	Bihar	4813	330	94.2	85.2	-2.9	386	5.10
	DVC	3393	0	71.0	-47.5	-1.2	342	0.00
	Jharkhand	1611	91	31.3	22.6	-0.9	255	2.54
ER	Odisha	4875	0	98.7	10.4	-0.7	350	0.00
	West Bengal	7245	0	154.2	27.5	-2.2	364	0.00
	Sikkim	126	0	2.1	2.2	-0.1	19	0.00
	Railways_ER ISTS	6	0	0.1	0.1	0.0	1	0.00
	Arunachal Pradesh	181	0	3.1	2.9	0.2	82	0.00
	Assam	1413	109	26.8	24.1	0.6	203	1.76
	Manipur	221	10	3.1	2.8	0.3	46	0.39
NER	Meghalaya	349	0	6.8	5.1	0.0	327	0.00
	Mizoram	158	0	2.5	1.7	-0.2	27	0.00
	Nagaland	145	0	2.2	2.3	-0.1	35	0.00
	Tripura	228	0	4.0	3.7	-0.2	33	0.00

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

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-7.3	-11.3	-20.9	-19.1
Day Peak (MW)	-603.0	-588.0	-1073.0	-1322.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.0	-273.9	162.8	-143.7	9.7	0.0
Actual(MU)	241.8	-287.0	176.8	-148.8	10.4	-6.8
O/D/U/D(MU)	-3.2	-13.2	14.0	-5.1	0.6	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7371	9014	4638	5582	533	27137	52
State Sector	7821	10257	4235	2297	380	24988	48
Total	15192	19270	8873	7879	912	52126	100

G. Sourcewise generation (Gross) (MU)

G. Sourcewise generation (Gross) (MO)							
	NR	WR	SR	ER	NER	All India	% Share
Coal	740	1639	754	661	11	3805	79
Lignite	34	15	70	0	0	119	2
Hydro	88	50	51	22	9	220	5
Nuclear	31	40	52	0	0	123	3
Gas, Naptha & Diesel	16	48	6	0	22	92	2
RES (Wind, Solar, Biomass & Others)	136	114	187	7	1	445	9
Total	1045	1906	1119	690	43	4804	100
							•
Share of RES in total generation (%)	13.02	5.96	16.70	1.02	1.82	9.25	
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.50	10.70	25.95	4.24	24.67	16.46	

H.	All	India	De	mand	Diver	sity]	Factor
7	-	_	•		1		•

11. All fildia Demand Diversity Factor						
Based on Regional Max Demands	1.006					
Based on State Max Demands	1.023					

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	220092	10:44	1756
Non-Solar hr	194664	18:43	1806

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: 01-Feb-2024

Sl No Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	01-Feb-2024 NET (MU)
Import/Export of ER (Tion of circuit	Mar Import (M ())	man Emport (m2111)	Import (iiie)		1,21 (1,10)
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	49 729	0.0	1.3 12.4	-1.3 -12.4
4 765 kV	SASARAM-FATEHPUR	1	0	472	0.0	9.3	-9.3
5 765 kV 6 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0 25	748 59	0.0	12.6 0.4	-12.6 -0.4
7 400 kV 8 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	12 8	73 582	0.0	0.8 5.9	-0.8 -5.9
9 400 kV	PATNA-BALIA	2	0	480	0.0	8.4	-8.4
10 400 kV 11 400 kV	NAUBATPUR-BALIA BIHARSHARIFF-BALIA	2 2	0	509 354	0.0	9.1 6.6	-9.1 -6.6
12 400 kV	MOTIHARI-GORAKHPUR	2	0	416	0.0	6.3	-6.3
13 400 kV 14 220 kV	BIHARSHARIFF-VARANASI SAHUPURI-KARAMNASA	2	0	396 125	0.0	7.1 1.7	-7.1 -1.7
15 132 kV 16 132 kV	NAGAR UNTARI-RIHAND GARWAH-RIHAND	1	0 30	0	0.0	0.0	0.0 0.6
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 81.9	0.0 -81.3
Import/Export of ER (221111	0.0		-01.5
1 765 kV 2 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	4 2	0 692	1403 545	0.0 3.2	20.9	-20.9 3.2
3 765 kV	JHARSUGUDA-DURG	2	0	755	0.0	14.9	-14.9
4 400 kV 5 400 kV	JHARSUGUDA-RAIGARH RANCHI-SIPAT	4 2	0 69	745 285	0.0	13.5 4.9	-13.5 -4.9
6 220 kV 7 220 kV	BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	1 2	0	160 185	0.0	2.5 2.1	-2.5 -2.1
7 220 KV	DUDHIFADAK-KUKBA	2	U	ER-WR	3.2	58.8	-55.6
Import/Export of ER (_				
1 HVDC 2 HVDC	JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0	515 3	0.0	11.3 0.0	-11.3 0.0
3 765 kV	ANGUL-SRIKAKULAM	2 2	0 1919	2852	0.0	52.0 0.0	-52.0
4 400 kV 5 220 kV	TALCHER-I/C BALIMELA-UPPER-SILERRU	1	1919	0	43.9 0.0	0.0	43.9 0.0
Town and Fig. 1. A STORY OF				ER-SR	0.0	63.3	-63.3
Import/Export of ER (V	With NER) BINAGURI-BONGAIGAON	2	180	97	0.8	0.3	0.6
2 400 kV	ALIPURDUAR-BONGAIGAON	2	582	71	4.8	0.0	4.8
3 220 kV	ALIPURDUAR-SALAKATI	2	97	26 ER-NER	0.6 6.3	0.0	0.6 6.0
Import/Export of NER							
1 HVDC	BISWANATH CHARIALI-AGRA	2	701	0 NER-NR	16.7 16.7	0.0	16.7 16.7
Import/Export of WR (With NR)			HER-HR	10.7	0.0	10.7
1 HVDC	CHAMPA-KURUKSHETRA	2	0	3000	0.0	47.1 0.0	-47.1
2 HVDC 3 HVDC	VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	246 0	0 1262	6.1 0.0	31.5	6.1 -31.5
4 765 kV 5 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2 2	0	2284 1906	0.0	30.5 30.3	-30.5 -30.3
6 765 kV	JABALPUR-ORAI	2	0	1101	0.0	30.4	-30.4
7 765 kV 8 765 kV	GWALIOR-ORAI SATNA-ORAI	1	1072 0	0 1052	17.7 0.0	0.0 20.2	17.7 -20.2
9 765 kV	BANASKANTHA-CHITORGARH	2	887	523	10.7	0.9	9.9
10 765 kV 11 400 kV	VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	0 156	2824 106	0.0 1.4	39.0 0.2	-39.0 1.1
12 400 kV 13 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	519 489	259 0	3.0 10.9	1.2 0.0	1.8 10.9
13 400 kV 14 400 kV	RAPP-SHUJALPUR	2	286	440	1.0	2.9	-1.8
15 220 kV 16 220 kV	BHANPURA-RANPUR BHANPURA-MORAK	1	138	117 30	0.8	0.5 1.6	0.3 -1.6
17 220 kV	MEHGAON-AURAIYA	1	118	1	1.2	0.0	1.2
18 220 kV 19 132 kV	MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	87 0	22 0	0.7	0.0	0.7
20 132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Import/Export of WR ((With SR)			WR-NR	53.5	236.1	-182.6
1 HVDC	BHADRAWATI B/B		0	1013	0.0	22.4	-22.4
2 HVDC 3 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	0 1134	4513 2423	0.0 4.0	77.9 15.5	-77.9 -11.5
4 765 kV	WARDHA-NIZAMABAD	2	0	2531	0.0	32.2	-32.2
5 765 kV 6 400 kV	WARORA-WARANGAL(NEW) KOLHAPUR-KUDGI	2 2	0 1525	2540 0	0.0 17.9	35.5 0.0	-35.5 17.9
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 1	0	0 98	0.0 1.8	0.0	0.0 1.8
				WR-SR	23.7	183.6	-159.9
	IN	TERNATIONAL EX	CHANGES			Import	+ve)/Export(-ve) Energy Exchange
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	-246	-9	-137	-3.28
	ER	MALBASE - BINAGURI RECEIPT (from TALA H 220kV CHUKHA-BIRPA	I) i.e. BINAGURI EP 6*170MW)	-254	176	-23	-0.55
BHUTAN	ER	MALBASE - BIRPARA) i (from CHUKHA HEP 4*8	.e. BIRPARA RECEIPT	-228	-20	-134	-3.21
	NER	132kV GELEPHU-SALA	KATI	-27	0	-22	-0.52
	NER	132kV MOTANGA-RANG	GIA	28	0	10	0.24
	NR	NEPAL IMPORT (FROM	I UP)	-80	0	-11	-0.27
NEPAL	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)		-80	0	-60	-1.44
	ER	NEPAL IMPORT (FROM	I BIHAR)	-139	-5	-29	-0.70
	ER	400kV DHALKEBAR-MU	UZAFFARPUR 1&2	-449	-30	-370	-8.88
	ER	BHERAMARA B/B HVD	C (B'DESH)	-944	-432	-762	-18.28
BANGLADESH	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAI	HANPUR (B'DESH) D/C	-1322	-457	-796	-19.11
	NER	132kV COMILLA-SURA	JMANI NAGAR 1&2	-129	0	-108	-2.59

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 01-Feb-2024

Export From India (in MU)

			T-GNA								
	GNA		COLLECTIVE								
Country	(ISGS/PPA)	BILATERAL	IDAM				RTM		TOTAL		
		TOTAL	IEX	PXIL	HPX	IEX	PXIL	HPX			
Bhutan	0.00	0.00	9.31	0.00	0.00	0.34	0.00	0.00	9.65		
Nepal	0.18	0.00	7.83	0.00	0.00	0.48	0.00	0.00	8.49		
Bangladesh	18.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	18.18		
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
Total Export	18.36	0.00	17.14	0.00	0.00	0.82	0.00	0.00	36.32		

Import by India(in MU)

Total Net

-17.92

0.00

-17.14

		T-GNA							
	GNA (ISGA/PPA)	COLLECTIVE							
Country		BILATERAL TOTAL	IDAM			RTM			TOTAL
			IEX	PXIL	HPX	IEX	PXIL	HPX	
Bhutan	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
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	0.44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44

-ve : Export / +ve : Import Net from India(in MU) T-GNA **GNA** COLLECTIVE (ISGS/PPA) IDAM TOTAL BILATERAL RTM Country TOTAL IEX PXIL HPX IEX PXIL HPX 0.44 0.00 -9.31 0.00-0.34 0.000.00 Bhutan 0.00-9.21 -0.18 0.00 -7.83 0.00 0.00 -0.48 0.00 0.00-8.49 Nepal -18.18 0.00Bangladesh 0.000.000.000.000.000.00-18.18 0.00 0.000.00 0.000.000.000.00 0.000.00Myanmar

0.00

-0.82

0.00

0.00

-35.88

0.00