

## National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

## POWER SYSTEM OPERATION CORPORATION LIMITED पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम) B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016 बी-9, क़तुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

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दिनांक: 22<sup>nd</sup> Jan 2021

Ref: POSOCO/NLDC/SO/Daily PSP Report

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

- 2. 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 21.01.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-जनवरी -2021 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 21<sup>st</sup> January 2021, is available at the NLDC website.

धन्यवाद,

## पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day
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)	51542	53340	42891	18962	2568	169303
Peak Shortage (MW)	920	0	0	0	25	945
Energy Met (MU)	1038	1277	1014	390	43	3762
Hydro Gen (MU)	101	49	81	38	9	278
Wind Gen (MU)	5	18	12	-	-	35
Solar Gen (MU)*	40.85	34.89	97.23	4.46	0.06	177
Energy Shortage (MU)	12.85	0.08	0.00	0.00	1.24	14.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54469	61963	51897	19088	2643	185706
Time Of Maximum Demand Met (From NLDC SCADA)	09:28	10:40	10:01	19:33	17:56	10:00

**B.** Frequency Profile (%) Region FVI < 49.7 49.7 - 49.8 49.8 - 49.9 49.9 - 50.05 > 50.05 < 49.9 All India 0.029 0.00 0.25 3.17 3.43 75.87 20.71

**C. Power Supply Position in States** 

* 1 0 W 01 15 W P	pry i osition 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	6831	0	131.2	51.9	-1.1	116	0.00
	Haryana	6769	0	134.2	84.1	0.0	193	0.00
	Rajasthan	13865	0	263.8	85.4	-1.0	281	0.00
	Delhi	4618	0	73.3	62.9	-1.2	265	0.00
NR	UP	17226	0	301.2	88.2	-0.7	380	0.22
	Uttarakhand	2312	0	42.0	24.6	0.7	186	0.23
	HP	1849	0	32.6	27.5	-0.1	190	0.00
	J&K(UT) & Ladakh(UT)	2785	600	55.6	50.7	-0.7	223	12.40
	Chandigarh	250	0	4.0	3.9	0.1	47	0.00
	Chhattisgarh	4304	0	93.9	45.4	-0.1	218	0.08
	Gujarat	16978	0	352.5	115.1	1.3	459	0.00
	MP	14982	0	290.7	177.9	-1.5	380	0.00
WR	Maharashtra	23831	0	486.3	160.8	-3.3	630	0.00
	Goa	511	0	10.6	10.2	0.1	62	0.00
	DD	340	0	7.6	7.3	0.3	28	0.00
	DNH	849	0	19.6	19.6	0.0	37	0.00
	AMNSIL	766	0	16.0	9.6	0.0	269	0.00
	Andhra Pradesh	9370	0	185.6	74.9	1.4	469	0.00
	Telangana	12853	0	244.3	113.5	1.1	520	0.00
SR	Karnataka	12076	0	224.4	88.6	1.7	1031	0.00
	Kerala	3744	0	75.3	49.4	1.3	252	0.00
	Tamil Nadu	13457	0	277.5	158.6	2.2	790	0.00
	Puducherry	360	0	7.3	7.3	-0.1	30	0.00
	Bihar	4990	0	89.0	82.1	0.3	531	0.00
	DVC	2981	0	66.6	-41.6	0.2	144	0.00
	Jharkhand	1479	0	26.2	19.9	-3.0	496	0.00
ER	Odisha	3943	0	74.5	-0.1	-1.2	412	0.00
	West Bengal	6806	0	131.9	6.8	0.1	39	0.00
	Sikkim	113	0	1.7	1.9	-0.2	376	0.00
	Arunachal Pradesh	142	2	2.3	2.5	-0.3	34	0.01
	Assam	1445	12	23.3	17.5	0.6	164	1.20
	Manipur	236	3	2.7	3.1	-0.4	38	0.01
NER	Meghalaya	374	0	6.9	4.6	0.2	86	0.00
	Mizoram	120	2	1.6	1.7	-0.4	24	0.01
	Nagaland	137	1	2.2	1.9	0.1	16	0.01
	Tripura	219	2	3.5	2.4	-0.3	52	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.1	-12.1	-19.0
Day Peak (MW)	237.0	-606.6	-994.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.8	-233.7	114.1	-128.9	0.7	0.0
Actual(MU)	242.3	-247.8	126.8	-124.9	-1.7	-5.3
O/D/U/D(MU)	-5.5	-14.1	12.7	3.9	-2.4	-5.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6386	13163	6552	2455	599	29154	45
State Sector	8665	13613	9167	4242	11	35697	55
Total	15051	26775	15719	6697	610	64852	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	583	1373	578	509	7	3050	79
Lignite	26	9	37	0	0	72	2
Hydro	101	49	81	38	9	278	7
Nuclear	13	24	41	0	0	78	2
Gas, Naptha & Diesel	24	30	12	0	29	95	2
RES (Wind, Solar, Biomass & Others)	73	53	148	4	0	279	7
Total	819	1538	898	551	46	3852	100
Share of RES in total generation (%)	8.87	3.47	16.51	0.81	0.13	7.24	•
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	22.85	8.19	30.10	7.67	20.54	16.49	•

H. All India Demand Diversity Factor

Based on Regional Max Demands

Dased on Regional Max Demands	1.023
Based on State Max Demands	1.044

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

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

## INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 22-Jan-2021

							Date of Reporting:	22-Jan-2021
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
No Impo	rt/Export of ER (			1 , , ,	1 \ /	•	1	
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
3	HVDC 765 kV	PUSAULI B/B GAYA-VARANASI	2	0	251 974	0.0	6.2 12.9	-6.2 -12.9
4	765 kV	SASARAM-FATEHPUR	1	0	387	0.0	5.5	-12.9 -5.5
5	765 kV	GAYA-BALIA	1	0	590	0.0	8.5	-8.5
7	400 kV 400 kV	PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	201 117	0.0	4.1 1.9	-4.1 -1.9
8	400 KV 400 kV	MUZAFFARPUR-GORAKHPUR	2	0	723	0.0	9.8	-1.9 -9.8
9	400 kV	PATNA-BALIA	4	0	1255	0.0	14.7	-14.7
10 11	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	0	531 345	0.0	7.3 5.2	-7.3 -5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	265	0.0	2.9	-2.9
13	220 kV	PUSAULI-SAHUPURI	1	57	77	0.0	0.1	-0.1
14 15	132 kV 132 kV	SONE NAGAR-RIHAND GARWAH-RIHAND	1 1	20	0	0.0 0.4	0.0	0.0 0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0	0.0 79.1	<u>0.0</u> -78.7
Impo	rt/Export of ER (	With WR)			EK-NK	0.4	/9.1	-/8./
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	666	0	8.6	0.0	8.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	760	410	2.8	0.0	2.8
3	765 kV	JHARSUGUDA-DURG	2	77	248	0.0	3.3	-3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	58	457	0.0	5.2	-5.2
5	400 kV	RANCHI-SIPAT	2	274	127	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	99	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	28	0 ER-WR	0.7 13.2	0.0 10.4	2.8
Impor	rt/Export of ER (				•			
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	9.9	-9.9 20.2
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1978 2728	0.0	39.3 50.4	-39.3 -50.4
4	400 kV	TALCHER-I/C	2	42	651	0.0	5.6	-5.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0 ED CD	0.0	0.0	0.0
Imno	rt/Export of ER (	With NER)			ER-SR	0.0	99.5	-99.5
1	400 kV	BINAGURI-BONGAIGAON	2	339	38	3.5	0.0	3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	545	14	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	96	13 ER-NER	1.0 10.1	0.0	1.0 10.1
Impo	rt/Export of NER	(With NR)			DK I(DK	10.1	0.0	10.1
1	HVDC	BISWANATH CHARIALI-AGRA	2	486	0 NED ND	9.4	0.0	9.4
Imno	rt/Export of WR	(With NR)			NER-NR	9.4	0.0	9.4
1	HVDC	CHAMPA-KURUKSHETRA	2	0	751	0.0	40.7	-40.7
2	HVDC	VINDHYACHAL B/B	-	239	0	6.0	0.0	6.0
3	HVDC 765 kV	MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1741 2794	0.0	43.5 41.1	-43.5 -41.1
5	765 kV	PHAGI-GWALIOR	2	0	1422	0.0	23.0	-23.0
6	765 kV	JABALPUR-ORAI	2	0	1221	0.0	36.3	-36.3
7 8	765 kV 765 kV	GWALIOR-ORAI SATNA-ORAI	1	808	0 1602	14.9 0.0	0.0 29.6	14.9 -29.6
9	765 kV	CHITORGARH-BANASKANTHA	2	628	663	3.2	0.0	3.2
10	400 kV	ZERDA-KANKROLI	1	195	77	2.1	0.0	2.1
11 12	400 kV 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	188 500	246	0.0 11.4	0.8	-0.8 11.4
13	400 kV	RAPP-SHUJALPUR	2	86	575	0.2	4.3	-4.2
14	220 kV	BHANPURA-RANPUR	1	23	200	0.0	0.0	0.0
15 16	220 kV 220 kV	BHANPURA-MORAK MEHGAON-AURAIYA	1	0 134	30	0.0 1.5	0.0 1.7	0.0 -0.1
17	220 kV	MALANPUR-AURAIYA	1	85	18	0.2	0.0	0.2
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0 WR-NR	0.0 39.5	0.7 221.7	-0.7 -182.2
Impo	rt/Export of WR				•			
1	HVDC	BHADRAWATI B/B	-	496 769	1009	0.0	7.9 6.1	<u>-7.9</u>
3	HVDC 765 kV	RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	594	995 2043	0.0	21.7	-6.1 -21.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2745	0.0	48.3	-48.3
5	400 kV	KOLHAPUR-KUDGI	2	1466	0	20.5	0.0	20.5
7	220 kV 220 kV	KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	39	0.7	0.0	0.7
					WR-SR	21.2	84.0	-62.8
				NATIONAL EXCHA				Energy Exchange
	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	(MU)
				IU-ALIPURDUAR 1&2		-		
		ER	i.e. ALIPURDUAR RE MANGDECHU HEP 4		125	0	118	2.8
			400kV TALA-BINAGU	URI 1,2,4 (& 400kV				
		ER	MALBASE - BINAGU	,	132	0	107	2.6
			RECEIPT (from TAL) 220kV CHUKHA-BIR				+	
	BHUTAN	ER	MALBASE - BIRPAR	A) i.e. BIRPARA	17	8	-10	-0.2
			RECEIPT (from CHU	<u>кна пер 4°84MW)</u>			+	
		NER	132KV-GEYLEGPHU	- SALAKATI	-26	0	16	0.4
							+	
	NER 132kV Motanga-Rangia		ia	-10	-1	5	0.1	
-			1207777		+		+	
		NR	132KV-TANAKPUR(N MAHENDRANAGAR		-82	0	-74	-1.8
				. ,				
		ER	400KV-MUZAFFARPUR - DHALKEBAR DC		-264	-147	-238	-5.7
			MOZM FAM OR - DHALREDAR DC					
	NEPAL	ER	132KV-BIHAR - NEPAL		-261	-117	-191	-4.6
		ER	BHERAMARA HVDC	C(BANGLADESH)	-886	-452	-701	-16.8
R	ANGLADESH	NER	132KV-SURAJMANI		54	0	-44	-1.1
"		, , , ,	COMILLA(BANGLA)	DESH)-1		•		111
		NER	132KV-SURAJMANI		54	0	-44	-1.1
		NEK	COMILLA(BANGLA)	DESH)-2	54	<b>U</b>	-44	-1.1
		•	-		<u>.                                      </u>		_	