

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPERATION CORPORATION LIMITED पॉवर 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

दिनांक: 23rd 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 22.01.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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 Date of Reporting:

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	52871	53400	43530	19053	2582	171436
Peak Shortage (MW)	900	0	0	0	27	927
Energy Met (MU)	1054	1283	1035	394	45	3811
Hydro Gen (MU)	101	55	88	36	12	292
Wind Gen (MU)	24	28	17	-	-	69
Solar Gen (MU)*	37.19	34.15	89.14	4.66	0.17	165
Energy Shortage (MU)	12.77	0.00	0.00	0.00	0.85	13.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55125	62396	51519	19115	2620	187300
Time Of Maximum Demand Met (From NLDC SCADA)	10:39	11:26	11:33	18:30	17:36	10:28

B. Frequency Profile (%)
Region
All India

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		dav(MW)	Demand(MW)	(IVIC)	(MU)	(MC)	(14144)	(MU)
	Punjab	6656	0	128.0	51.5	-1.3	41	0.00
	Haryana	6833	0	136.7	83.6	1.4	195	0.24
	Rajasthan	14054	0	265.6	71.7	0.7	598	0.00
	Delhi	4854	0	77.1	65.6	-1.0	272	0.03
NR	UP	17623	0	310.3	92.4	-0.4	349	0.00
	Uttarakhand	2372	0	42.8	25.3	1.3	234	0.10
	HP	1890	0	33.5	27.5	0.6	222	0.00
	J&K(UT) & Ladakh(UT)	2811	600	56.1	50.9	-0.1	245	12.40
	Chandigarh	263	0	4.1	3.9	0.2	53	0.00
	Chhattisgarh	4391	0	94.2	43.8	1.0	290	0.00
	Gujarat	16944	0	353.5	116.7	-0.3	520	0.00
	MP	15206	0	294.2	186.0	-0.5	768	0.00
WR	Maharashtra	23829	0	486.7	154.4	-2.5	535	0.00
	Goa	492	0	10.3	10.3	-0.3	41	0.00
	DD	343	0	7.8	7.4	0.4	27	0.00
	DNH	832	Ö	19.4	19.5	-0.1	53	0.00
	AMNSIL	769	0	16.9	10.5	-0.1	241	0.00
	Andhra Pradesh	9432	0	184.6	75.6	0.6	478	0.00
	Telangana	13157	0	251.0	124.8	0.7	717	0.00
SR	Karnataka	12009	0	228.0	88.6	0.1	662	0.00
	Kerala	3683	0	76.1	49.7	1.1	252	0.00
	Tamil Nadu	13795	0	287.5	169.6	1.0	804	0.00
	Puducherry	372	0	7.5	7.7	-0.2	27	0.00
	Bihar	4865	0	91.2	83.3	1.5	351	0.00
	DVC	3058	0	69.2	-41.3	1.3	321	0.00
	Jharkhand	1442	0	26.4	19.8	-2.2	205	0.00
ER	Odisha	4009	0	75.3	-0.6	0.4	398	0.00
	West Bengal	6583	0	130.3	7.5	-1.7	248	0.00
	Sikkim	122	0	1.9	1.9	0.0	24	0.00
	Arunachal Pradesh	144	2	2.3	2.8	-0.6	26	0.01
	Assam	1450	15	24.5	19.8	0.2	139	0.80
	Manipur	237	3	2.7	3.5	-0.8	35	0.01
NER	Meghalaya	393	0	6.7	4.6	0.0	49	0.00
LILIK	Mizoram	121	2	1.7	1.6	-0.3	27	0.00
	Nagaland	138	1	2.2	2.0	0.0	26	0.02
	Tripura	220	2	4.6	3.2	-0.4	22	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.8	-12.7	-13.8
Day Peak (MW)	299.0	-640.6	-829.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	242.2	-240.9	131.5	-132.2	-0.6	0.1
Actual(MU)	243.0	-254.3	137.4	-133.2	0.3	-6.8
O/D/U/D(MU)	0.8	-13.4	5.9	-1.0	0.9	-6.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6056	12863	5872	2455	564	27809	43
State Sector	9000	13728	9557	4452	11	36747	57
Total	15056	26590	15429	6907	575	64556	100

G. Sourcewise generation (MU)

0.200 ()							
	NR	WR	SR	ER	NER	All India	% Share
Coal	588	1372	591	514	7	3072	79
Lignite	21	9	36	0	0	66	2
Hydro	101	55	88	36	12	292	7
Nuclear	15	24	40	0	0	79	2
Gas, Naptha & Diesel	23	31	11	0	29	95	2
RES (Wind, Solar, Biomass & Others)	88	63	145	5	0	302	8
Total	836	1554	912	554	49	3906	100
Share of RES in total generation (%)	10.58	4.05	15.94	0.84	0.35	7.72	1
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.36	9.14	30.02	7.30	25.56	17.22	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.044

Diversity factor = Sum of regional or state maximum demands / All India maximum demand
*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

INTER-REGIONAL EXCHANGES

			INTER-F	REGIONAL EXCH	IANGES		Import=(+ve) /Export : Date of Reporting:	
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	23-Jan-2021 NET (MU)
No Impo	t/Export of ER (V		I or extent				port (MC)	((.)
1 2	HVDC	ALIPURDUAR-AGRA	2	0	0 249	0.0	0.0 6.0	0.0 -6.0
3	765 kV	PUSAULI B/B GAYA-VARANASI	2	0	883	0.0	12.5	-12.5
5		SASARAM-FATEHPUR GAYA-BALIA	1	0	303 536	0.0	4.6	-4.6 8.4
6		PUSAULI-VARANASI	i	0	194	0.0	8.4 2.5	-8.4 -2.5
7	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	261 738	0.0	3.6 9.1	-3.6 -9.1
9		PATNA-BALIA	4	0	1069	0.0	18.5	-18.5
10 11		BIHARSHARIFF-BALIA	2	0	417	0.0	6.7	-6.7
12		MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	19	345 269	0.0	5.8 2.7	-5.8 -2.7
13		PUSAULI-SAHUPURI	1	71	49	0.1	0.0	0.1
14 15		SONE NAGAR-RIHAND GARWAH-RIHAND	1	20	0	0.0	0.0	0.0
16	132 kV	KARMANASA-SAHUPURI	l i	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0 ER-NR	0.0 0.4	0.0 80.3	-79.9
	t/Export of ER (1	1				
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	2	747 491	99 403	7.3 2.4	0.0	7.3
3	765 kV 765 kV	NEW RANCHI-DHARAMJAIGARH JHARSUGUDA-DURG	2	30	247	0.0	3.3	-3.3
4		JHARSUGUDA-RAIGARH	4	89	388	0.0	4.1	-4.1
5		RANCHI-SIPAT	2	203	110	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	3	125	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	130	0	1.5	0.0	1.5
Impo	t/Export of ER (V	With SR)			ER-WR	13.1	9.3	3.8
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	537	0.0	12.4	-12.4
3		TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1991 2559	0.0	45.0 47.9	-45.0 -47.9
4	400 kV	TALCHER-I/C	2	0	638	0.0	11.3	-11.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1 1	0 ER-SR	0.0	0.0 105.2	0.0 -105.2
Impo	rt/Export of ER (V	With NER)			ER-3R		105.4	-105.4
1 2	400 kV	BINAGURI-BONGAIGAON	2 2	277 450	82 84	2.5 4.7	0.0	2.5 4.7
3	400 kV 220 kV	ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2 2	79	30	0.7	0.0	0.7
	ATT A CATED	(HER ND)			ER-NER	7.9	0.0	7.9
1 mpo	rt/Export of NER HVDC	BISWANATH CHARIALI-AGRA	2	483	0	8.8	0.0	8.8
					NER-NR	8.8	0.0	8.8
mpor	rt/Export of WR (HVDC	CHAMPA-KURUKSHETRA	2	0	1496	0.0	49.0	-49.0
2	HVDC	VINDHYACHAL B/B		240	0	6.0	0.0	6.0
3		MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	1738 2810	0.0	43.5 39.4	-43.5 -39.4
5		PHAGI-GWALIOR	2	0	1221	0.0	19.7	-19.7
7		JABALPUR-ORAI	2	0	1129	0.0	34.1	-34.1
8		GWALIOR-ORAI SATNA-ORAI	1	707	0 1487	13.6 0.0	0.0 28.7	13.6 -28.7
9	765 kV	CHITORGARH-BANASKANTHA	2	487	697	4.4	2.0	2.5
10 11		ZERDA-KANKROLI ZERDA -BHINMAL	1	220 362	91 298	0.2	0.0	2.4 0.2
12	400 kV	VINDHYACHAL -RIHAND	î	492	0	11.3	0.0	11.3
13 14		RAPP-SHUJALPUR BHANPURA-RANPUR	2	182 43	525 146	0.6	3.7 0.3	-3.1 -0.3
15		BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	143	0	1.3	1.8	-0.5
17 18		MALANPUR-AURAIYA GWALIOR-SAWAI MADHOPUR	1	95 0	14 0	0.9	0.2 0.0	0.8
19		RAJGHAT-LALITPUR	2	0	0	0.0	0.8	-0.8
mpo	t/Export of WR (With SR)			WR-NR	40.7	223.1	-182.4
1	HVDC	BHADRAWATI B/B		202	1016	0.0	10.0	-10.0
3		RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	144 644	992 1928	0.0	8.6 21.1	-8.6 -21.1
4	765 kV	WARDHA-NIZAMABAD	2	0	3015	0.0	49.7	-49.7
6		KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2	1475 0	0	21.2 0.0	0.0	21.2 0.0
7	220 kV	PONDA-AMBEWADI	ī	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	43 WR-SR	0.8	0.0	0.8
			INTER	NATIONAL EXCHA		22.0	89.3	-67.3
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
		ER	400kV MANGDECHI 1&2 i.e. ALIPURDUA	HU-ALIPURDUAR	118	0	113	(MU) 2.7
			MANGDECHU HEP 4 400kV TALA-BINAG	4*180MW) URI 1,2,4 (& 400kV			1	
		ER	MALBASE - BINAGU RECEIPT (from TAL 220kV CHUKHA-BIR	A HEP (6*170MW)	119	0	102	2.5
	BHUTAN	ER	MALBASE - BIRPAR RECEIPT (from CHU	(A) i.e. BIRPARA	15	0	-17	-0.4
		NER	132KV-GEYLEGPHU	J - SALAKATI	28	10	16	0.4
		NER	132kV Motanga-Rang	ia	19	1	8	0.2
		NR	132KV-TANAKPUR(I MAHENDRANAGAR		-81	0	-72	-1.7
		ER	400KV-MUZAFFARF	,	-300	-208	-275	-6.6
	NEPAL	ER	132KV-BIHAR - NEP	AL	-260	-60	-185	-4.4
		ER	BHERAMARA HVDO		-729	-356	-500	-12.0
			132KV-SURAJMANI		50	0	-37	-0.9
R	NGLADESH	NER						
В	ANGLADESH	NER NER	COMILLA(BANGLA 132KV-SURAJMANI COMILLA(BANGLA	NAGAR -	50	0	-37	-0.9