

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, कृतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

दिनांक: 20th Dec 2021

Ref: POSOCO/NLDC/SO/Daily PSP Report

Τo,

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 19.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-दिसंबर-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 19th December 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: 20-Dec-2021 NR WR SR ER NER TOTAL Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs) 49838 52109 Peak Shortage (MW) 250 O 231 481 Energy Met (MU) 1017 1215 838 368 44 3481 Hydro Gen (MU) 107 29 66 29 10 241 Wind Gen (MU) 6 68.13 4.72 0.28 Solar Gen (MU)* 103.87 41.86 219 Energy Shortage (MU) 16.65 0.00 0.00 2.60 0.00 19.25 Maximum Demand Met During the Day (MW) (From NLDC SCADA) 53287 58928 41381 18730 169689 2506 18:30 Time Of Maximum Demand Met (From NLDC SCADA) 10:36 11:01 09:40 10:51 B. Frequency Profile (%) < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 Region All India 0.047 0.00 0.00 C. Power Supply Position in States Max.Demand Energy Met OD(+)/UD(-Drawal Max OD Shortage during Energy Shortage Region States Met during the maximum Schedule (MU) (MU) (MW) (MU) dav(MW) Demand(MW) (MU) 129.5 -0.9 Punjab 297 Haryana 6674 125.4 78.6 0.6 133 0.00 15198 268.0 82.2 347 Rajasthan 0.4 0.00 Delhi 55.1 NR 17361 102.1 UP 0 306.6 -1.4 408 0.00 Uttarakhand 0.00 26.6 нР 1821 0 32.9 26.0 -0.8 197 0.00 J&K(UT) & Ladakh(UT) 45.0 250 48.7 16.65 2426 -1.4 125 218 3743 Chandigarh 0.00 Chhattisgarh 0 81.1 30.2 -0.1 238 0.00 Gujarat 16348 329.4 167.2 0.00 MP 15238 287.0 179.2 -1.9 551 0.00 wr Maharashtra 463.6 134.7 -0.7 0 909 0.00 22811 Goa 485 0 10.1 9.8 5.5 -0.3 31 0.00 DD 293 0 5.5 0.0 21 0.00DNH 815 18.9 18.8 0.1 0.00 AMNSIL 854 18.9 8.8 0.0 283 0.00 8405 Andhra Pradesl 160.4 0.00 1.0 Telangana 9246 174.6 68.5 0.9 578 0.00 SR 9152 0 30.1 1015 Karnataka 168.6 -1.2 0.00 3414 Kerala 168 Tamil Nadu 11945 258.6 149.4 0.8 630 0.00 Puducherry 301 Bihar 4524 0 78.0 70.6 0.6 560 0.00 DVC 3157 66.0 320 2.19 -42.2-1.3 Jharkhand 1678 31.1 21.1 -0.3 0.42 ER Odisha 4911 0 88.7 31.6 -0.2 555 0.00 West Bengal 5418 103.0 -18.3 351 0.00 Sikkim 1.7 -0.2 0.00 Arunachal Pradesh 2.2 98 126 0 2.2 -0.1 0.00 Assam 1375 0 23.4 17.0 -0.2 0.00 Manipur 219 0 3.2 3.3 0.0 0.00 NER 0.00 Meghalaya Mizoram 118 0 1.7 1.5 -0.1 0.00 0.1 0.00 **Nagaland** 128 2.3 0.00 D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) Bhutan Nepal -4.9 Bangladesh -16.7 -855.0 $E.\ Import/Export\ by\ Regions\ (in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)$ TOTAL WR SR ER NER NR Schedule(MU) Actual(MU) O/D/U/D(MU) 227.8 -131.3 68.4 -162.2 0.0 F. Generation Outage(MW) TOTAL % Share Central Sector State Sector 6422 14728 2010 31272 43236 10741 17746 11031 3708 11 Total G. Sourcewise generation (MU) All India 2637 NER % Share Coal Lignite Hydro Nuclear Gas, Naptha & Diesel RES (Wind, Solar, Biomass & Others) 100 834 133 1345 424 3564 12 100 0 49 Total 788 Share of RES in total generation (%) 11.95 9.92 23.54 0.86 0.57 11.88

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

Based on State Max Demands 1.071

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

Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)

28.57

1.030

14.54

40.78

6.13

20.57

22.41

^{*}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: 20-Dec-2021

							Date of Reporting:			
SI	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)		
Impo	rt/Export of ER (V	Vith NR)	l	_	_		1			
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0		
3		PUSAULI B/B GAYA-VARANASI		0	932	0.0	0.0 10.5	0.0 -10.5		
4		SASARAM-FATEHPUR	ĩ	0	555	0.0	7.7	-7.7		
5	765 kV	GAYA-BALIA	1	0	573	0.0	10.2	-10.2		
7		PUSAULI-VARANASI	1	58 7	89 147	0.0	0.2 19.3	-0.2		
8	400 kV 400 kV	16.65 MUZAFFARPUR-GORAKHPUR	2	0	147 778	0.0	9.5	-1.6 -9.5		
9	400 kV	PATNA-BALIA	4	0	1390	0.0	21.9	-21.9		
10		BIHARSHARIFF-BALIA	2	0	405 520	0.0	5.1 8.1	-5.1		
12		MOTIHARI-GORAKHPUR BIHARSHARIFF-VARANASI	2	0	290	0.0	4.4	-8.1 -4.4		
13		PUSAULI-SAHUPURI	ĩ	Ŏ	213	0.0	1.4	-1.4		
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0		
15 16		GARWAH-RIHAND KARMANASA-SAHUPURI	1	25 0	0	0.3	0.0	0.3		
17		KARMANASA-SAHUI UKI KARMANASA-CHANDAULI	i	0	0	0.0	0.0	0.0		
ER-NR 0.3 80.5 -80.2										
					(00	0.6	1 00	0.6		
1		JHARSUGUDA-DHARAMJAIGARH	4	746	698	0.6	0.0	0.6		
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	111	1007	0.0	8.0	-8.0		
3	765 kV 400 kV	JHARSUGUDA-DURG JHARSUGUDA-RAIGARH	4	35	372	0.0	4.5 4.1	-4.5		
5			2	166 87	441 361	0.0	2.3	-4.1 -2.3		
		RANCHI-SIPAT					2.0			
7		BUDHIPADAR-RAIGARH BUDHIPADAR-KORBA	2	63	153 32	0.0	0.0	-2.0 0.3		
	220 KV	BUDHIFADAR-KUKBA	2	0.5	ER-WR	0.9	20.9	-20.0		
Import/Export of ER (With SR)										
1	HVDC	JEYPORE-GAZUWAKA B/B	2	393	0	7.6	0.0	7.6		
3	HVDC 765 kV	TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1969 3093	0.0	35.4 53.0	-35.4 -53.0		
4	400 kV	TALCHER-I/C	2	1081	644	2.0	0.0	2.0		
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0		
Incom			· ·		ER-SR	7.6	88.4	-80.8		
Impo	rt/Export of ER (V 400 kV	BINAGURI-BONGAIGAON	2	38	333	0.0	4.4	-4.4		
2		ALIPURDUAR-BONGAIGAON	2	65	474	0.0	6.1	-6.1		
3		ALIPURDUAR-SALAKATI	2	4	88	0.0	1.0	-1.0		
Impo	rt/Evport of NED	(With NR)			ER-NER	0.0	11.6	-11.6		
Import/Export of NER (With NR) 1										
					NER-NR	0.0	12.2	-12.2		
	rt/Export of WR (2400	0.0	40.7	40.7		
2		CHAMPA-KURUKSHETRA VINDHYACHAL B/B	- 4	0 448	2499 0	0.0 8.4	49.7 0.0	-49.7 8.4		
3	HVDC	MUNDRA-MOHINDERGARH	2	0	255	0.0	6.2	-6.2		
4	765 kV	GWALIOR-AGRA	2	0	1585	0.0	23.7	-23.7		
5	765 kV 765 kV	GWALIOR-PHAGI JABALPUR-ORAI	2	0	1953 825	0.0	29.6 24.7	-29.6 -24.7		
7		GWALIOR-ORAI	1	929	0	16.1	0.0	-24.7 16.1		
8	765 kV	SATNA-ORAI	1	0	973	0.0	18.2	-18.2		
9		BANASKANTHA-CHITORGARH	2	1331	0	15.7	0.0	15.7		
10 11		VINDHYACHAL-VARANASI	2	239	2285 0	0.0 3.5	38.3 0.0	-38.3 3.5		
12		ZERDA-KANKROLI ZERDA -BHINMAL	i	259 251	96	2.3	0.0	2.3		
13	400 kV	VINDHYACHAL -RIHAND	1	974	0	21.5	0.0	21.5		
14		RAPP-SHUJALPUR	2	120	132	0.0	1.1	-1.1		
15		BHANPURA-RANPUR BHANPURA-MORAK	1	0	30	0.0 1.5	0.0 0.1	0.0 1.4		
17		MEHGAON-AURAIYA	1	149	0	1.3	0.0	1.3		
18		MALANPUR-AURAIYA	1	99	0	2.3	0.0	2.3		
19 20		GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	1	0	0	0.0	0.0	0.0		
20	132 KV	KAJGHAT-LALITI UK	2	0	WR-NR	0.0 72.6	191.6	0.0 -119.0		
Impo	rt/Export of WR (
1		BHADRAWATI B/B	:	990	515	6.6	5.8	0.7		
3		RAIGARH-PUGALUR SOLAPUR-RAICHUR	2 2	2408 1034	1002 1373	0.4	0.0 6.8	0.4 -6.8		
4		WARDHA-NIZAMABAD	2	0	2605	0.0	37.2	-37.2		
5	400 kV	KOLHAPUR-KUDGI	2	1409	0	21.4	0.0	21.4		
7		KOLHAPUR-CHIKODI PONDA-AMBEWADI	2	0	0	0.0	0.0	0.0		
8		XELDEM-AMBEWADI	1	1	102	1.1	0.0	1.1		
	-			· · · · · · · · · · · · · · · · · · ·	WR-SR	29.5	49.9	-20.4		
		IN	TERNATIONAL EX	CHANGES			Import(+ve)/Export(-ve)		
1	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange		
-			400kV MANGDECHH		(, , ,			(MU)		
BHUTAN		ER	1,2&3 i.e. ALIPURDU	AR RECEIPT (from	97	0	66	1.6		
			MANGDECHU HEP 4*180MW)							
		ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI		152	149	152	3.8		
			RECEIPT (from TALA HEP (6*170MW)					-10		
		ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV		11	0	-8	-0.2		
		r.K	MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)		11	J	-0	-0.2		
					-					
		NER	132kV GELEPHU-SALAKATI		8	0	3	0.1		
			132kV MOTANGA-RANGIA							
		NER			7	0	2	0.1		
			132kV MAHENDRANAGAR-							
NEPAL		NR	132kV MAHENDRANAGAR- TANAKPUR(NHPC)		-46	0	-8	-0.2		
			OK(MII C)							
		ER	NEPAL IMPORT (FROM BIHAR)		-146	0	-20	-0.5		
		ER	400kV DHALKEBAR-MUZAFFARPUR 1&2		289	53	-176	-4.2		
						- -		_		
		ER	BHERAMARA B/B H	VDC (BANGLADESIA	-736	-402	-614	-14.7		
BANGLADESH		r.K	The state of the s	(D.E. (OLADEOH)	-/30	+02	-014	-14./		
		\	132kV COMILLA-SUI	RAJMANI NAGAR	4	-	0.0			
		NER	1&2		-119	0	-82	-2.0		