

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: 14th Dec 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 13.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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: 14-Dec-2021 NR WR SR ER NER TOTAL Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs) 50184 17818 2521 Peak Shortage (MW) 448 0 528 976 Energy Met (MU) 1010 1254 853 371 44 3532 115 34 91 37 12 288 Wind Gen (MU) Solar Gen (MU)* 60 8 52.98 4.63 0.26 33.92 76.13 168 Energy Shortage (MU) 6.85 0.00 0.00 4.08 0.00 10.93 Maximum Demand Met During the Day (MW) (From NLDC SCADA)
Time Of Maximum Demand Met (From NLDC SCADA) 51271 60411 41049 18655 168533 2626 12:20 10:58 09:58 10:38 B. Frequency Profile (%) < 49.7 49.7 - 49.8 49.8 - 49.9 49.9 - 50.05 < 49.9 > 50.05 Region All India 0.047 0.00 1.05 10.48 70.91 C. Power Supply Position in States Max.Demand)D(+)/UD(-Energy Met Drawal Max OD Shortage during Energy Region States Met during the maximu Schedule (MU) (MU) (MW) (MU) dav(MW) Demand(MW) (MU) 135.0 Punjab -1.2 Haryana 6920 126.7 89.5 1.0 215 0.77 Rajasthan 14881 264.8 88.7 470 1.43 1.0 Delhi 53.0 NR 16568 285.1 96.4 UP 0 375 0.00 Uttarakhand 2024 26.0 25.1 52.8 нР 1850 0 33.5 0.3 161 0.00 J&K(UT) & Ladakh(UT) 2917 300 59.2 1.3 4.65 379 Chandigarh 204 -0.4 0.00 34.0 78.8 Chhattisgarh 3629 0 0.3 259 0.00 Gujarat 17303 355.0 195.9 0.00 MP 14795 287.1 176.2 -1.4 581 0.00 wr Maharashtra 731 23060 477.4 141.2 0.00 4.0 Goa 599 323 0 12.3 11.6 0.1 0.00 DD 0 7.0 7.0 0.0 22 0.00DNH 836 19.1 19.1 0.0 0.00 AMNSIL 749 17.0 7.8 0.2 298 0.00 Andhra Pradesh 7837 162.2 0.0 0.00 Telangana 9195 173.8 64.9 -0.7 352 0.00 27.1 SR 9177 0 165.7 630 Karnataka -1.6 0.00 3827 13346 45.9 Kerala Tamil Nadu 543 268.1 148.7 -0.7 0.00 Puducherry Bihar 4271 72.2 61.8 -0.5 168 0.00 DVC 3325 66.6 -39.6 -0.7 253 1.41 Jharkhand 1514 21.5 -0.8 ER 95.9 Odisha 4833 36.4 0.5 0.00 West Bengal 108.5 6173 -11.3 Sikkim 114 1.0 0.5 0.00 Arunachal Pradesh 2.5 122 0 0.1 34 0.00 2.2 Assam 1443 0 23.7 18.6 -0.6 106 0.00 Manipur 0 3.2 0.0 0.00 NER 5.8 0.00 Meghalaya Mizoram 124 1.6 1.6 -0.2 0.00 0.1 0.00 **Nagaland** 145 16 0.00 D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve) Bhutan 7.0 Nepal -2.4 Bangladesh -351.2 -815.0 $E.\ Import/Export\ by\ Regions\ (in\ MU)\ -\ Import(+ve)/Export(-ve);\ OD(+)/UD(-)$ TOTAL WR SR ER NER NR Schedule(MU) Actual(MU) O/D/U/D(MU) -134.4 57.1 -173.6 0.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7687	14228	8232	3220	350	33717	42
State Sector	12886	19071	10431	3878	11	46276	58
Total	20573	33298	18663	7098	361	79992	100
	20070	00270	10000	7070		.,,,,=	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	513	1215	455	528	12	2724	75
Lignite	20	15	36	0	0	72	2
Hydro	115	34	91	37	12	288	8
Nuclear	27	33	69	0	0	129	4
Gas, Naptha & Diesel	15	10	9	0	30	64	2
RES (Wind, Solar, Biomass & Others)	86	83	163	5	0	337	9
Total	777	1390	824	570	54	3615	100
					1		1
Share of RES in total generation (%)	11.11	5.96	19.84	0.81	0.48	9.34	1
Share of Non-fossil fuel (Hydro Nuclear and RES) in total generation(%)	20.44	10.74	30.27	7 33	21.82	20.80	ĺ

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

Based on Regional Max Demands	1.033
Based on State Max Demands	1.092
The state of the s	

^{*}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: 14-Dec-2021 |
| Export (MU) | NET (MU) |

Section Comparison Compar	nrt (MU) NET (MU) 12.3	Export (MU) 12.3 0.0 15.0 10.4 11.7 1.5 1.8 10.1 26.4	0.0 0.0 0.0	502	0 2			t/Export of ER (No
	12.3	12.3 0.0 15.0 10.4 11.7 1.5 1.8 10.1 26.4	0.0 0.0 0.0	502	0 2	+		t/Export of ER (No Impor
HYDE ALPREDIALAGIA 2	0.0 0.0 15.0 -15.0 10.4 -10.4 11.7 -1.1.7 1.5 -1.5 1.8 -1.8 10.1 -10.1 26.4 -26.4 8.8 -8.8 9.8 -9.8 7.1 -7.1 1.7 -1.7 0.0 0.1 0.0 0.4 0.0 0.0 0.0 0.0 0.0 2.2 9.7 -9.7 2.2 2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4	0.0 15.0 10.4 11.7 1.5 1.8 10.1 26.4	0.0	0	2		** RH 13K)		
1	0.0 0.0 15.0 -15.0 10.4 -10.4 11.7 -1.1.7 1.5 -1.5 1.8 -1.8 10.1 -10.1 26.4 -26.4 8.8 -8.8 9.8 -9.8 7.1 -7.1 1.7 -1.7 0.0 0.1 0.0 0.4 0.0 0.0 0.0 0.0 0.0 2.2 9.7 -9.7 2.2 2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4	0.0 15.0 10.4 11.7 1.5 1.8 10.1 26.4	0.0	0	2				
1	10.4	10.4 11.7 1.5 1.8 10.1 26.4		1010					_
1	11.7	11.7 1.5 1.8 10.1 26.4				_	GAYA-VARANASI	765 kV	
1	1.5	1.5 1.8 10.1 26.4					GAYA-BALIA	765 kV	
B	10.1 -10.1	10.1 26.4			12				6
D	26.4	26.4				_	PUSAULI -ALLAHABAD	400 kV	
10	8.8 -8.8 -9.8 -9.8 -9.8 -9.8 -9.8 -9.8 -					+			
12 200 140 150 151 152	7.1								10
13 129 V PUSALLESAHEPURE	1.7								
132 132	0.0 0.1 0.0 0.4 0.0 0.0 0.0 0.0 10.5 -116.0 0.0 2.2 9.7 -9.7 2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4					+			
16 1234 V KARMANASA-GAILPURE	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0						132 kV	
Total Name	0.0 0.0 16.5 -116.0 0.0 2.2 9.7 -9.7 2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4								
Total Property P	116.5 -116.0 0.0 2.2 9.7 -9.7 2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4					-			
1	9.7 -9.7 2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4			ER-NR					
2	9.7 -9.7 2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4								
3	2.2 -2.2 4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4					-			
4 400 kV HARSUGUDA-RAIGARH 4 3 417 0.0 4.5	4.5 -4.5 3.2 -3.2 1.8 -1.8 0.4 -0.4					+			
S 400 kV RANCHI-SIPAT	3.2 -3.2 1.8 -1.8 0.4 -0.4								
6 220 kV BUDHIPADAR RAIGARH 1 0 160 0.0 0.4	1.8 -1.8 0.4 -0.4								
Total Continue	0.4 -0.4								
FE-WR 2.2 21.7						+			
1 HVDC BEYFORE-GAZIUWAKA BER 2 442 0 8.7 0.0 32.9	21.7 -19.5								
2 HVDC TALCHER-KOLAR BPOLE 2 0 1978 0.0 32.9				-					
3 765 kV ANCILL-SRIRAKULAM 2 0 2787 0.0 48.5						+			2
4 400 kV TALCHER-I/C 2 832 6.34 7.2 0.0 0.0	48.5 -48.5	48.5							3
BRSR S,7 S1.4	0.0 7.2		7.2	634	832	Ţ	TALCHER-I/C	400 kV	4
Import/Export of ER (With NER) 1				ER-SD	1 2		BALIMELA-UPPER-SILERRU	220 kV	5
1 400 kV RINAGURIBONGAIGAON 2 0 354 0.0 4.7	•		0.7	EK-3K			With NER)	t/Export of ER (Impor
3 220 kV ALIPURDUAR-SALAKATI 2 7 73 0.0 0.7						Ţ	BINAGURI-BONGAIGAON	400 kV	1
Import/Export of NER (With NR)					149	+			
Import/Export of NER (With NR)									
NERNR		10.0							Impor
Import/Export of WR (With NR) 1					0		BISWANATH CHARIALI-AGRA	HVDC	1
Color	-12.2	1	0.0	1124 114			(With NR)	t/Export of WR (Impor
3						_			
4 765 kV GWALIOR-AGRA 2 0 1872 0.0 25.5							MINDRA-MOHINDERGARH	HVDC	
S 765 kV GWALIOR-PHAGI 2 0 2539 0.0 40.0							GWALIOR-AGRA	765 kV	
T	40.0 -40.0		0.0	2539			GWALIOR-PHAGI	765 kV	5
S									
9									
11	0.0 19.8	0.0	19.8	0	1373		BANASKANTHA-CHITORGARH	765 kV	9
12						_			
13						+			
1	0.0 18.7	0.0	18.7	0	981		VINDHYACHAL -RIHAND	400 kV	13
1						Τ.	RAPP-SHUJALPUR	400 kV	
17 220 kV MEHGAON-AURAHYA 1 137 0 1.5 0.0 18 220 kV MALANPUR-AURAHYA 1 92 0 2.4 0.0 19 132 kV GWALIOR-SAWAH MADHOPUR 1 0 0 0.0 0.0 0.0 20 132 kV RAIGHAT-LALITPUR 2 0 0 0 0.0 0.0 0.0						+			
18 220 kV MALANPURAURAIYA 1 92 0 2.4 0.0 19 132 kV GWALIOR-SAWAI MADHOPUR 1 0 0 0.0 0.0 20 132 kV RAJIGHAT-LALITPUR 2 0 0 0.0 0.0 1mport/Export of WR (With SR)	0.0 1.5	0.0			137	土	MEHGAON-AURAIYA	220 kV	17
20 132 kV RAIGHAT-LALITPUR 2 0 0 0.0 0.0 0.0							MALANPUR-AURAIYA	220 kV	
WR-NR 70,1 205.8							GWALIOR-SAWAI MADHOPUR	132 kV	
Import/Export of WR (With SR) 1 HVDC BHDRAWATI B/B - 987 623 6.6 9.3									
2 HVDC RAIGARII-PUGALUR 2 962 1001 0.0 3.6 3.768 kV SOLAPUR-RAIGHUR 2 1191 1391 3.8 7.8 4 765 kV WARDHA-NIZAMABAD 2 40 2365 0.0 27.0 5 400 kV WARDHA-NIZAMABAD 2 40 2365 0.0 27.0 5 400 kV KOLHAPUR-KUDGI 2 1608 0 23.0 0.0 0.0 0.0 0.0 7 220 kV KOLHAPUR-CHIKODI 2 0 0 0.0					1				Impor
3 765 kV SOLAPUR-RAICHUR 2 1191 1391 3.8 7.8 4 765 kV WARDHA-NIZAMABAD 2 40 2365 0.0 27.0 5 400 kV KOLHAPUR-KUNGH 2 1608 0 23.0 0.0 0.0 6 220 kV KOLHAPUR-CHIKODH 2 0 0 0.0 0.0 0.0 7 220 kV FONDA-AMBEWADH 1 0 0 0.0 0.0 0.0 8 220 kV XELDEM-AMBEWADH 1 0 94 1.7 0.0 0.0 WR-SR 35.1 47.7 1.0 2.0						-			1
4 765 kV WARDHA-NIZAMABAD 2 40 2365 0.0 27.0						╧			
Column	27.0 -27.0	27.0	0.0	2365	40	Ţ		765 kV	
7 220 kV PONDA-AMBEWADI 1 0 0 0.0 0.0 8 220 kV XELDEM-AMBEWADI 1 0 94 1.7 0.0 WR-SR 35.1 47.7 INTERNATIONAL EXCHANGES						+			
8 220 kV XELDEM-AMBEWADI 1 0 94 1,7 0.0 WR-SR 35,1 47,7						╧	PONDA-AMBEWADI	220 kV	
INTERNATIONAL EXCHANGES	0.0 1.7	0.0	1.7			1			8
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy	-12.0	47.7	35.1	WK-SR	MALENON NO.				
Max (MW) Min (MW) Avg (MW)	Import(+ve)/Export(-ve) Energy Exchang					INTE		a	
400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from 126 0 96 MANGDECHU HEP 4*18001W)	g (MW) Energy Exchange (MU)	Avg (MW)	Min (MW)	Max (MW)			Region	State	
MANGDECHU HEP 4*180MW)		04		100	GDECHHU-ALIPURDUAR	400	F.S.		
	96 2.3	96	0	126			ER		
400kV TALA-BINAGURI 1,2,4 (& 400kV	402				A-BINAGURI 1,2,4 (& 400kV	400			
ER MALBASE - BINAGURI ji.e. BINAGURI 200 149 183 RECEIPT (from TALA HEP (6*170MW)	183 4.4	183	149	200			ER		
220kV CHÜKHA-BIRPARA 1&2 (& 220kV		1			KHA-BIRPARA 1&2 (& 220kV	220			
BHUTAN ER MALBASE - BIRPARA) i.e. BIRPARA 46 0 10 RECEIPT (from CHUKHA HEP 4*84MW)	10 0.3	10	0	46			ER	BHUTAN	
NER 132kV GELEPHU-SALAKATI -5 0 0	0.0	0	0	-5	EPHU-SALAKATI	133	NER		
		1				+			
NER 132kV MOTANGA-RANGIA 14 2 3	3 0.1	3	2	14	ANGA-RANGIA	133	NER		
		 				+			
NR 132kV MAHENDRANAGAR- TANAKPUR(NHPC) 0 0 0	0.0	0	0	0			NR		
TAVARTURUHTU)		1			(mirt)	1 A			
NEPAL ER NEPAL IMPORT (FROM BIHAR) -94 0 -2	-2 -0.1	-2	0	-94	PORT (FROM BIHAR)	NF	ER	NEPAL	
		ļ	**						
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 -257 -12 -100	-100 -2.4	-100	-12	-257	LKEBAR-MUZAFFARPUR 1&2	40	ER		
-100		-100	-12	-207		7.01	ER		
ER BHERAMARA B/B HVDC (BANGLADESH) -715 0 -428				.715	RA R/R HVDC (RANCI ADECIA	RI	FD		
ER DIERGIGARA DID INTO C (DATGLADESII) -/15 U -426		-428	U	-/15		Br.	ER		
<u>_</u>	-428 -10.3	-428					1		ъ.
PANCI ADESH 132kV COMILLA-SURAJMANI NAGAR 400 0 27	-428 -10.3		_		ILLA-SURAJMANI NAGAR	133		NCI ADECT	B.A
BANGLADESH NER 132kV COMILLA-SURAJMANI NAGAR -100 0 -77	-428 -10.3		0	-100	ILLA-SURAJMANI NAGAR		NER	NGLADESH	