

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 23rd Nov 2021

To,

- 1. कार्यकारी निदेशक, पु.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. प्. 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 22.11.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक २२-नवंबर-२०२१ 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 November 2021, is available at the NLDC website.

धन्यवाद,

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



Date of Reporting: 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)	45708	54592	37848	19078	2451	159677			
Peak Shortage (MW)	450	0	0	392	0	842			
Energy Met (MU)	920	1230	782	380	44	3355			
Hydro Gen (MU)	115	35	106	52	13	321			
Wind Gen (MU)	12	62	9	-	-	84			
Solar Gen (MU)*	60.90	35.29	83.66	4.20	0.14	184			
Energy Shortage (MU)	5.01	0.00	0.00	2.47	0.00	7.48			
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47427	55980	39689	19218	2531	163674			
Time Of Maximum Demand Met (From NLDC SCADA)	18:36	10:55	18:29	17:51	17:17	18:31			
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 0.030	0.00	0.07	4.49	4.56	76.62	18.82			

C. Power Supply Position in States Max.Demand Shortage during Energy Met Drawal OD(+)/UD(-) Max OD Energy Region States Met during the Schedule maximum Shortage (MU) (MU) dav(MW) Demand(MW) (MU) (MU) 112.5 Punjab Haryana 6019 115.0 83.6 -0.4 144 0.00 -1.4 -0.4 0.1 Delhi 3463 60.9 50.4 198 0.00 UP Uttarakhand 15457 1872 274.1 34.4 110.8 23.4 NR 732 213 1.16 0.00 30.1 54.7 20.4 48.9 1684 -0.1 0.00 J&K(UT) & Ladakh(UT) 2888 250 0.2 420 3.45 Chandigarh Chhattisgarh 181 3519 3.0 75.1 0.00 0.00 346.3 Gujarat 16268 196.0 534 0.00 0.0 173.8 WR Maharashtra 22447 481.0 166.2 -6.1 825 0.00 616 DD7.5 347 0.3 0.00 DNH AMNSIL 847 19.5 19.5 836 18.0 9.0 0.2 272 0.00 Andhra Pradesh Telangana 7526 6936 147.7 142.4 59.7 44.4 -0.2 0.3 0.00 0.00 622 SR Karnataka 147.9 1138 0.00 71.7 31.0 -0.5 0.00 219 Kerala Tamil Nadu Puducherry 13466 264.5 151.0 1.0 0.00 Bihar 4123 71.6 61.8 -1.1 215 0.00 Jharkhand 1542 27.0 -0.7 179 ER Odisha 4853 94.9 33.0 -0.7 0.00 West Bengal 119.2 383 6811 11.3 0.4 0.00 Sikkim Arunachal Pradesh 117 132 1.8 2.2 1.7 2.1 0.1 0.00 0 -0.1 0.00 18.2 3.0 5.0 Assam 1424 24.1 2.9 0.1 0.00 0.00 Manipur 210 -0.1 NER Meghalaya Mizoram 6.9 1.7 0.1 0.00 Nagaland 139 0 0.0 0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	12.8	1.6	-18.4
Day Peak (MW)	640.0	122.0	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	191.8	-88.8	82.6	-180.3	-5.1	0.0
Actual(MU)	179.7	-91.5	90.9	-179.8	-4.3	-5.0
O/D/U/D(MU)	-12.1	-2.6	8.3	0.6	0.8	-5.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6310	16025	11832	1800	409	36375	44
State Sector	13325	19252	11401	3208	11	47196	56
Total	19635	35277	23233	5008	420	83571	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	489	1151	396	536	11	2583	75
Lignite	24	11	31	0	0	66	2
Hydro	115	35	106	52	13	321	9
Nuclear	27	32	45	0	0	103	3
Gas, Naptha & Diesel	14	8	9	0	28	59	2
RES (Wind, Solar, Biomass & Others)	93	98	117	4	0	313	9
Total	761	1335	705	592	53	3445	100
Share of RES in total generation (%)	12.21	7.37	16.62	0.71	0.27	9.08	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	30.80	12.35	38.11	9.44	25.16	21.39	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.007
Based on State Max Demands	1.043

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

Import=(+ve) /Export =(-ve) for NET (MU)

Section Colored Colored Max Import (MV) Max Export (MV) Export (MU) Export (MU) NET (MU)							:	Import=(+ve) /Export Date of Reporting:	=(-ve) for NET (MU) 23-Nov-2021
		Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)		
1		_			-	F ()			1.22 ()
1	1	HVDC	ALIPURDUAR-AGRA	2					
1		HVDC	PUSAULI B/B						
		765 kV	SASARAM-FATEHPUR	ĩ				7.2	
Total	5		GAYA-BALIA	1		441			
B				1					
10	8			2				9.3	
1				4					
10				2					
10 153		400 kV	BIHARSHARIFF-VARANASI	2		366		3.9	
15 1314 13				1					
10 124 MASHANANSASHETIRI				1					
TRNS 0.3 876 476		132 kV	KARMANASA-SAHUPURI	î	0	0	0.0	0.0	0.0
	17	132 kV	KARMANASA-CHANDAULI	1	0			0.0	
1	Impor	rt/Export of ER (With WR)			ER-M	U.S	67.5	-0/.0
1	1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	0	1257	0.0	14.5	-14.5
	2					717	0.0		-4.6
S									
1									
1.7 204 BIDDITADAR-KORRA 2 132 0 1.7 3.1									
Import Information Infor									
	/	220 KV	BUDHIPADAR-KURBA	2	132				
HUNC	Impor								
1	1	HVDC	JEYPORE-GAZUWAKA B/B	2					
1				2 2					
S 2014Y BALMER LAPPER SILERE 1	4	400 kV	TALCHER-I/C	2	1067	624	1.0	0.0	1.0
	5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0			
1	Impor	rt/Export of ER (With NER)			ER-SK	0.0	102.5	-102.5
S	1	400 kV	BINAGURI-BONGAIGAON	2					
Import Information Infor		400 kV	ALIPURDUAR-BONGAIGAON						
ImportExport of NER (WHIS NE)									
ImportExport of WR (Wish NR)	Impor	rt/Export of NER	(With NR)						
ImportSpart of WR (With NR)	1	HVDC	BISWANATH CHARIALI-AGRA	2	1 0				
A	Impor	rt/Export of WR ((With NR)			HER-HR	0.0		
3	1	HVDC	CHAMPA-KURUKSHETRA	2					
4 765 1 1 1 1 2 0 1623 0.0 26.0 22.6 22.6 22.6 2	3			2					
S		765 kV	GWALIOR-AGRA	2					
7		765 kV	GWALIOR-PHAGI			2090	0.0		-34.1
S					986			0.0	
10				1	0			21.8	
11				2				0.0	
12				1			5.2		-35./ 5.2
14 400 kV RAPP-SHUJALPUR				1	413			0.0	
15 220 kV BHANYURA-MORAK 1 108 7 1.4 0.0 1.4 16 220 kV BHANYURA-MORAK 1 0 30 2.1 0.0 2.1 17 220 kV BHANYURA-MORAK 1 144 0 1.4 0.0 2.2 18 220 kV MHANYURA-MORAK 1 103 0 2.2 0.0 2.2 19 132 kV MALANYURA-MORAK 1 103 0 2.2 0.0 2.2 10 132 kV MALANYURA-BANYUR 1 103 0 0 2.2 0.0 0.0 10 122 kV MALANYURA-BANYUR 1 103 0 0 0.0 0.0 0.0 10 123 kV MALANYURA-BANYUR 2 0 0 0 0 0 0.0 0.0 10 123 kV RAGIGHAT-LAITITUR 2 0 0 0 0 0 0 0 0.0 10 10 10 10 10 10 10				1			21.8		
16 220 kV MERIGONACIGRATY									
18 220 kV MALANPUR-AUGANYA	16	220 kV	BHANPURA-MORAK		0		2.1		2.1
19 132 kV RAUGHATLALITPUR				1			1.4		1.4
NETERNATIONAL EXCHANGES 100 170.3 -89.4 180 170.3 -89.4 180 170.3 -89.4 180 170.3 -89.4 180 170.3 170.3 -89.4 180				i			0.0		0.0
Import(Export of WR (With SR) 1	20	132 kV	RAJGHAT-LALITPUR	2	0				
1 HVDC BHADRAWATEBB - 0 8 0.0 0.0 0.0 0.0	Impor	rt/Export of WR ((With SR)			WK-NK	89.9	179.3	-89.4
3 765 kV SOLAPUR-RAICHUR 2 1070 2557 0.0 17.7 -17.7 4 765 kV WARDHA-NIZAMARAD 2 0 2475 0.0 31.6 -31.6 5 400 kV KOLHAPUR-KUDGI 2 884 102 9.7 0.1 9.7 6 220 kV KOLHAPUR-KUDGI 2 0 0 0 0.0 0.0 0.0 7 220 kV KOLHAPUR-KUDGI 1 0 9.5 1.8 0.0 0.0 8 220 kV XELDEM-AMBEWADI 1 0 9.5 1.8 0.0 0.0 0.0 9 220 kV XELDEM-AMBEWADI 1 0 9.5 1.8 0.0 1.8				-	0	8			0.0
4 765 kW WARDHA-NIZAMABAD 2 0 2475 0,0 31.6 -31.6 5 400 kW KOLHAPUR-KURGI 2 884 102 9.7 0.1 9.7 6 220 kW KOLHAPUR-KURGOI 2 0 0 0.0 0.0 0.0 7 220 kW ROLHAPUR-KURGOI 1 0 0 0 0.0 0.0 0.0 8 220 kW EQUAL AMBEWADI 1 0 0 0 0.0 0.0 0.0 9 5 1.8 0.0 1.8	2			2					
S									
7 220 kV PONDA-AMBEWADI 1 0 0 0 0 0 0 0 0 0	5	400 kV	KOLHAPUR-KUDGI	2	884	102	9.7	0.1	9.7
S 220 kV XELDEM-AMBEWADI									
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Excharges			XELDEM-AMBEWADI			95			
State Region Line Name Max (MW) Min (MW) Avg (MW) Energy Excha (MII)					**	WR-SR			
Line Name			IN	TERNATIONAL EX	CHANGES		•	Import	
A006V MANGDECHHU-ALIPURDUAR 198 0 165 4.0		State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
MANGDECHU HEP 4*9 \$00 MW \$400 KV TALA RINKS (GRIT 12.4 (2.400 KV \$100 KV TALA RINKS (GRIT 12.4) (2.400 KV \$100 KV TALA RINKS (GRIT 12.4) (2.400 KV \$100 KV TALA RINKS (GRIT 12.4) (2.200 KV \$100 KV TALA RINKS (GRIT 1.4) (2.200 KV THI KHA-BIRPARA \$100 KV TALA RINKS (GRIT 1.4) (2.200 KV THI KHA-BIRPARA \$100 KV TALA RINKS (GRIT 1.4) (2.200 KV THI KHA-BIRPARA \$100 KV TALA RINKS (GRIT 1.4) (2.200 K				400kV MANGDECHE 1,2&3 i.e. ALIPURDU	IU-ALIPURDUAR AR RECEIPT (from	, ,	· · · · · · · · · · · · · · · · · · ·		
RECEIPT (From TALA HEP (6*170MW) 220kV CHUKHIA-BIRPARA 162*1(8*220kV 220kV CHUKHIA-BIRPARA 162*1(8*220kV 220kV CMUKHIA-BIRPARA 162*1(8*220kV 49 0 25 0.6				MANGDECHU HEP 4 400kV TALA-BINAG	4*180MW) URI 1,2,4 (& 400kV			222	
NER				RECEIPT (from TAL/ 220kV CHUKHA-BIR	A HEP (6*170MW) PARA 1&2 (& 220kV				
NER		BHUTAN	ER			49	0	25	0.6
NR 132kV MAHENDRANAGAR- TANAKPUR(NHPC) 0 0 0 0 0.0 NEPAL ER NEPAL IMPORT (FROM BIHAR) 0 0 0 0 0.0 ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 122 28 65 1.6 ER BHERAMARA B/B HVDC (BANGLADESH) -745 499 -672 -16.1 BANCLADESH NEB 132kV COMILLA-SURAJMANINAGAR 100 0 0.3			NER	132kV GELEPHU-SA	LAKATI	11	-2	6	0.1
NE TANAKPUR(NHPC)			NER	132kV MOTANGA-RA	ANGIA	13	-8	5	0.1
ER 400kV DHALKEBAR-MUZAFFARPUR 1&2 122 28 65 1.6 ER BHERAMARA B/B HVDC (BANGLADESH) .745 .499 -672 -16.1 BANCHADESH NEB 132kV COMILLA-SURAJMANI NAGAR 100 0 .93 22			NR		AGAR-	0	0	0	0.0
ER BHERAMARA B/B HVDC (BANGLADESH) -745 -499 -672 -16.1 BANCHADESH NED 132kV COMILLA-SURAJMANI NAGAR 199 0 93 22		NEPAL	ER	NEPAL IMPORT (FR	OM BIHAR)	0	0	0	0.0
RANCI ADESH NED 132kV COMILLA-SURAJMANI NAGAR 100 0 03 22			ER	400kV DHALKEBAR	-MUZAFFARPUR 1&2	122	28	65	1.6
			ER	BHERAMARA B/B H	VDC (BANGLADESH)	-745	-499	-672	-16.1
	B.	ANGLADESH	NER		RAJMANI NAGAR	-109	0	-93	-2.2