

## 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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

दिनांक: 17<sup>th</sup> Dec 2021

- 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 16.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16<sup>th</sup> December 2021, is available at the NLDC website.

धन्यवाद,

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



Report for previous day Date of Reporting: 17-Dec-2021

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	52074	55468	39964	18192	2572	168270
Peak Shortage (MW)	250	0	0	427	0	677
Energy Met (MU)	1045	1272	887	381	45	3630
Hydro Gen (MU)	112	34	82	31	13	271
Wind Gen (MU)	9	85	44	-	-	139
Solar Gen (MU)*	57.42	34.11	99.09	4.73	0.28	196
Energy Shortage (MU)	5.37	0.00	0.00	6.50	0.00	11.87
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52746	61366	43080	18234	2691	172941
Γime Of Maximum Demand Met (From NLDC SCADA)	11:16	10:56	08:23	18:59	17:32	11:00
B. Frequency Profile (%)			·			
Pagion EVI	- 40.7	40.7 40.9	40.0 40.0	- 40.0	40.0 50.05	· 50.05

		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)	(MIC)	(MU)	(NIC)	(14144)	(MU)
	Punjab	6851	0	133.4	76.0	-0.4	209	0.20
	Haryana	7146	0	133.8	93.4	0.1	143	0.48
	Rajasthan	15150	0	271.2	80.6	1.0	379	0.00
	Delhi	3926	0	67.0	55.4	-1.0	247	0.00
NR	UP	16961	0	300.6	98.1	-1.4	422	0.00
	Uttarakhand	2147	0	39.9	26.0	0.7	164	0.00
	HP	1915	0	34.9	27.5	0.2	223	0.04
	J&K(UT) & Ladakh(UT)	2785	250	60.4	53.6	1.7	465	4.65
	Chandigarh	223	0	3.6	3.8	-0.2	26	0.00
	Chhattisgarh	3709	0	80.9	28.0	0.7	307	0.00
	Gujarat	17354	0	351.4	178.1	-1.6	744	0.00
	MP	15005	0	295.4	178.0	0.7	615	0.00
WR	Maharashtra	23750	0	485.6	137.6	-2.1	656	0.00
	Goa	610	0	12.6	11.9	0.1	77	0.00
	DD	329	0	7.3	7.0	0.3	40	0.00
	DNH	848	0	19.4	19.2	0.2	50	0.00
	AMNSIL	868	0	19.5	6.1	-0.2	236	0.00
	Andhra Pradesh	8225	0	166.7	76.5	-0.1	455	0.00
	Telangana	9430	0	176.0	63.8	0.2	680	0.00
SR	Karnataka	9387	0	177.9	36.0	-1.4	511	0.00
	Kerala	3783	0	76,5	50,3	0.3	195	0.00
	Tamil Nadu	14041	0	282.7	163.4	1.5	760	0.00
	Puducherry	351	0	6.9	7.4	-0.6	40	0.00
	Bihar	4183	0	75.6	64.0	-0.1	196	0.08
	DVC	3104	156	66.4	-46.4	-0.4	491	2.35
	Jharkhand	1511	271	25.9	21.2	-0.9	237	4.07
ER	Odisha	4764	0	96.4	30.1	0.0	464	0.00
	West Bengal	5971	0	114.1	-4.6	0.5	270	0.00
	Sikkim	116	0	2.1	1.8	0.3	67	0.00
	Arunachal Pradesh	131	0	2.2	2.3	-0.2	35	0.00
	Assam	1483	0	24.7	18.1	-0.1	65	0.00
NER	Manipur	234	0	3.2	3.3	-0.1	34	0.00
	Meghalaya	397	0	7.3	5.7	0.2	35	0.00
	Mizoram	124	0	1.9	1.6	-0.1	10	0.00
	Nagaland	157	0	2.5	2.3	0.1	15	0.00
	Trinura	225	ů	3.5	2.0	-0.5	19	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.0	-2.9	-13.4
Day Peak (MW)	320.0	-218.8	-808.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.7	-149.2	68.7	-160.2	-5.1	0.0
Actual(MU)	236.4	-144.2	65.0	-153.5	-6.0	-2.4
O/D/U/D(MU)	-9.4	5.0	-3.7	6.7	-0.9	-2.4

F. Generation Outage(MW)

r. Generation Outage(MW)								
	NR	WR	SR	ER	NER	TOTAL	% Share	
Central Sector	6987	15023	7942	3020	380	33352	43	
State Sector	11601	18126	10493	3218	11	43448	57	
Total	18588	33148	18435	6238	391	76799	100	

G. Sourcewise generation (MU)

0.20mm							
	NR	WR	SR	ER	NER	All India	% Share
Coal	567	1224	465	521	13	2790	75
Lignite	23	13	37	0	0	73	2
Hydro	112	34	82	31	13	271	7
Nuclear	28	33	69	0	0	130	3
Gas, Naptha & Diesel	15	12	9	0	29	65	2
RES (Wind, Solar, Biomass & Others)	92	121	173	5	0	390	10
Total	836	1436	835	557	56	3719	100
Share of RES in total generation (%)	11.02	8.39	20.66	0.85	0.50	10.49	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	27.68	13.02	38.77	6.45	24.10	21.28	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Rosed on State May Demands	1.082

Based on State Max Demands

1,082

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)

							Date of Reporting:	=(-ve) for NET (MU) 17-Dec-2021
Sl	Veltage I suel	Line Details	No. of Circuit	Man Immant (MW)	Max Export (MW)	Invest (MII)	Export (MU)	NET (MU)
No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MC)	NEI (MU)
	rt/Export of ER (			1 0	•	0.0	0.0	0.0
2	HVDC HVDC	ALIPURDUAR-AGRA PUSAULI B/B	2	0 2	0	0.0	0.0	0.0
3		GAYA-VARANASI	2	ő	1030	0.0	12.2	-12.2
4		SASARAM-FATEHPUR	ī	Ö	700	0.0	8.9	-8.9
5		GAYA-BALIA	1	0	651	0.0	11.3	-11.3
6	400 kV	PUSAULI-VARANASI	1	0	54	0.0	1.0	-1.0
7 8	400 kV 400 kV	PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1	0	84	0.0	1.7 10.8	-1.7
9	400 kV	PATNA-BALIA	4	0	740 1263	0.0	22.1	-10.8 -22.1
10		BIHARSHARIFF-BALIA	2	Ö	503	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	378	0.0	6.4	-6.4
12	400 kV	BIHARSHARIFF-VARANASI	2	0	380	0.0	5.9	-5.9
13		PUSAULI-SAHUPURI SONE NAGAR-RIHAND	1	0	93	0.0	0.6	-0.6
15		GARWAH-RIHAND	1	25	0	0.0	0.0	0.0
16		KARMANASA-SAHUPURI	î	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	1	0	19	0.0	0.1	-0.1
Ļ-		Wild Wills			ER-NR	0.3	87.6	-87.3
	rt/Export of ER (	JHARSUGUDA-DHARAMJAIGARH	4	021	700	1.0	0.0	1.0
1	765 kV			821	798	1.2	7.8	1.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	25	938	0.0		-7.8
3	765 kV	JHARSUGUDA-DURG	2	130	264	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	231	373	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	84	325	0.0	1.9	-1.9
6	220 kV	BUDHIPADAR-RAIGARH	1	7	154	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	74	40	0.4	0.0	0.4
T	et/Evnt PD	With CD)			ER-WR	1.6	14.7	-13.2
1mpo	rt/Export of ER (\) HVDC	JEYPORE-GAZUWAKA B/B	2.	187	0	4.9	0.0	4.9
2		TALCHER-KOLAR BIPOLE	2	0	1985	0.0	39.0	-39.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2938	0.0	53.6	-53.6
4	400 kV	TALCHER-I/C	2	853	996	1.9	0.0	1.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0 ER-SR	0.0	0.0 92.7	0.0
Impo	rt/Eyport of FR (	With NED)			ER-SK	4.9	92.7	-87.8
1	rt/Export of ER (\) 400 kV	BINAGURI-BONGAIGAON	2	54	252	0.0	2.5	-2.5
2		ALIPURDUAR-BONGAIGAON	2	87	350	0.0	3.0	-3.0
3	220 kV	ALIPURDUAR-SALAKATI	2	9	62	0.0	0.5	-0.5
-	400	(MEAL ND)			ER-NER	0.0	6.1	-6.1
Impo	rt/Export of NER HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
-	HVDC	DISWANATH CHARIALI-AGRA	4		NER-NR	0.0	12.1	-12.1
Impo	rt/Export of WR (	With NR)						
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3011	0.0	55.9	-55.9
2	HVDC	VINDHYACHAL B/B	2	207	0	5.4	0.0	5.4
3		MUNDRA-MOHINDERGARH GWALIOR-AGRA	2	0	255 1696	0.0	6.2 25.2	-6.2 -25.2
5		GWALIOR-PHAGI	2	0	2347	0.0	33.1	-25.2
6	765 kV	JABALPUR-ORAI	2	Ö	1169	0.0	22.8	-22.8
7	765 kV	GWALIOR-ORAI	1	891	0	13.8	0.0	13.8
8	765 kV	SATNA-ORAI	1	0	1270	0.0	20.9	-20.9
9	765 kV	BANASKANTHA-CHITORGARH	2 2	1093	94	13.4	0.0 37.3	13.4
10 11		VINDHYACHAL-VARANASI ZERDA-KANKROLI	1	0 203	2013	0.0 3.3	0.0	-37.3 3.3
12		ZERDA -BHINMAL	1	239	145	2.4	0.0	2.4
13	400 kV	VINDHYACHAL -RIHAND	1	978	0	21.8	0.0	21.8
14		RAPP-SHUJALPUR	2	240	385	0.8	2.1	-1.3
15		BHANPURA-RANPUR	1	69	72	0.6	0.2	0.3
16 17		BHANPURA-MORAK MEHGAON-AURAIYA	1	0 135	30	1.4 1.2	0.0	1.4 1.2
18	220 kV	MALANPUR-AURAIYA	i	90	0	2.2	0.0	2.2
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
Impo	rt/Export of WR (	With CD)			WR-NR	66.4	203.8	-137.5
1		BHADRAWATI B/B		598	515	4.3	2.5	1.8
2	HVDC	RAIGARH-PUGALUR	2	964	1001	2.7	0.0	2.7
3	765 kV	SOLAPUR-RAICHUR	2	1140	1571	3.5	12.4	-8.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2914	0.0	38.2	-38.2
6		KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2	1532	0	21.6 0.0	0.0	21.6 0.0
7		PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8		XELDEM-AMBEWADI	î	1	78	1.2	0.0	1.2
					WR-SR	33.2	53.2	-19.9
		IN	TERNATIONAL EX	CHANGES			Import	+ve)/Export(-ve)
1	State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
<u> </u>		8****	400kV MANGDECHI		(11211)	(11211)		(MI)
		ER	1.2&3 i.e. ALIPURDU		108	0	77	1.8
		Z.K	MANGDECHUHEP	4*180MW)	100			2.0
			400kV TALA-BINAG	URI 1,2,4 (& 400kV	4.00		101	
		ER	MALBASE - BINAGU RECEIPT (from TAL		168	154	164	3.9
1			220kV CHUKHA-BIR	PARA 1&2 (& 220kV			İ	
	BHUTAN	ER	MALBASE - BIRPAR		26	0	1	0.0
			RECEIPT (from CHU	KHA HEP 4*84MW)			<del>                                     </del>	
		NER	132kV GELEPHU-SA	LAKATI	5	-5	2	0.0
1			ļ				ļ	
		NER	132kV MOTANGA-R	ANGIA	9	2	5	0.1
		. ver	Jininga-k					0.1
			132kV MAHENDRAN	NAGAR-	2.5			
		NR	TANAKPUR(NHPC)		-36	0	-2	-0.1
							<b>†</b>	
	NEPAL	ER	NEPAL IMPORT (FF	ROM BIHAR)	119	0	19	0.5
							-	
		ER	400kV DHALKEBAR	-MUZAFFARPUR 1&2	-302	0	-139	-3.3
Ь						•	ļ	
1		ER	RHERAMADA R/D U	IVDC (BANGLADESH)	-721	-377	-485	-11.6
		EK	DIERAMARA D/B II	(DAMGLADESH)	-/21	-311	-403	-11.0
			132kV COMILLA-SU	RAJMANI NAGAR				
	LANCET COMM							
В	ANGLADESH	NER	1&2		-87	0	-74	-1.8