

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: 15th 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 14.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th December 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 15-Dec-2021 WR 55000 NR 51391 TOTAL SR ER NER Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs) 39216 Peak Shortage (MW) 320 0 771 1091 Energy Met (MU) Hydro Gen (MU) 1034 1267 871 374 44 3591 109 38 91 39 12 289 Wind Gen (MU) Solar Gen (MU)* 52 70.15 6 61.86 4.92 52638 4.76 0.26 34.77 Energy Shortage (MU)
Maximum Demand Met During the Day (MW) (From NLDC SCADA)
Time Of Maximum Demand Met (From NLDC SCADA) 0.00 0.00 6.03 18404 0.00 10.95 41999 171075 60266 2587 10:24 10:28 B. Frequency Profile (%) Region All India FVI < 49.7 49.7 - 49.8 49.8 - 49.9 < 49.9 49.9 - 50.05 > 50.05 0.061 0.09 3.06 10.08 70.89 C. Power Supply Position in States | Max.Demand | Shortage during | Energy Met | Drawal | OD(+)/UD(-) | Max OD | Energy

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortage
		day(MW)	Demand(MW)	(MC)	(MU)	(MC)	(14144)	(MU)
	Punjab	6807	0	135.4	75.6	-0.6	94	0.20
	Haryana	7066	0	133.5	94.1	0.2	227	0.00
	Rajasthan	15114	0	269.9	94.2	1.9	271	0.00
	Delhi	3823	0	64.0	54.1	-2.2	317	0.00
NR	UP	17190	0	295.1	105.5	0.1	668	0.00
	Uttarakhand	2105	0	39.0	27.0	0.4	189	0.07
	HP	1840	0	34.1	26.3	0.2	112	0.00
	J&K(UT) & Ladakh(UT)	2988	250	59.9	53.8	0.9	239	4.65
	Chandigarh	206	0	3.4	3.8	-0.4	20	0.00
	Chhattisgarh	3676	0	79.4	29.2	-0.6	216	0.00
	Gujarat	16860	0	353.2	185.7	-1.0	510	0.00
	MP	14949	0	292.0	177.2	-0.2	677	0.00
WR	Maharashtra	23771	0	486.0	140.8	5.5	509	0.00
	Goa	607	0	12.4	11.9	-0.1	53	0.00
	DD	331	0	7.3	7.0	0.3	73	0.00
	DNH	829	0	19.1	18.8	0.3	88	0.00
	AMNSIL	793	0	17.7	8.6	0.1	256	0.00
	Andhra Pradesh	7859	0	164.8	72.6	0.5	932	0.00
	Telangana	9294	0	176.9	67.5	-0.7	544	0.00
SR	Karnataka	9025	0	170.9	31.0	-1.4	426	0.00
	Kerala	3745	0	76.2	48.8	0.1	218	0.00
	Tamil Nadu	13302	0	275.2	154.3	-0.1	631	0.00
	Puducherry	353	0	7.2	7.6	-0.4	25	0.00
	Bihar	4245	0	74.2	62.9	-0.2	426	0.53
	DVC	3146	60	65.2	-41.9	-2.3	307	1.81
	Jharkhand	1393	168	25.6	20.4	-0.3	280	3.69
ER	Odisha	4933	0	96.2	31.6	0.5	544	0.00
	West Bengal	6057	0	111.4	-10.3	1.2	550	0.00
	Sikkim	111	0	1.8	0.8	1.0	81	0.00
	Arunachal Pradesh	126	0	2.4	2.3	0.0	26	0.00
	Assam	1439	0	24.2	18.5	-0.3	107	0.00
	Manipur	235	0	3.2	3.1	0.1	30	0.00
NER	Meghalaya	373	0	6.7	5.8	-0.1	49	0.00
	Mizoram	128	0	1.8	1.6	-0.2	12	0.00
	Nagaland	157	0	2.5	2.3	0.1	15	0.00
	Tripura	222	0	3.6	2.2	-0.4	20	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.5	-3.0	-15.6
Day Peak (MW)	337.0	-394.4	-818.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	265.1	-147.9	56.9	-168.7	-5.3	0.0
Actual(MU)	263.0	-136.2	42.1	-166.4	-5.4	-2.8
O/D/U/D(MU)	-2.0	11.7	-14.7	2,2	0.0	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7187	14313	7732	3880	350	33462	41
State Sector	12886	19151	10641	4538	11	47226	59
Total	20073	33463	18373	8418	361	80687	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	536	1225	484	516	12	2773	76
Lignite	19	15	39	0	0	73	2
Hydro	109	38	91	39	12	289	8
Nuclear	27	33	69	0	0	130	4
Gas, Naptha & Diesel	15	11	9	0	30	65	2
RES (Wind, Solar, Biomass & Others)	93	95	150	5	0	343	9
Total	799	1417	841	561	54	3673	100
							1
Share of RES in total generation (%)	11.59	6.73	17.78	0.84	0.48	9.33	
Share of Non-fossil fuel (Hydro Nuclear and RES) in total generation(%)	28 60	11.72	36.86	7 88	21.78	20.73	

H. All India Demand Diversity Factor

Based on Regional Wax Demands	1.028
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

			INTER-F	REGIONAL EXCH	IANGES		Import=(+ve) /Export Date of Reporting:	
Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Impor	rt/Export of ER (V		2	0	501	0.0	12.4	12.4
2		ALIPURDUAR-AGRA PUSAULI B/B	-	2	501	0.0	0.0	-12.4 0.0
3		GAYA-VARANASI SASARAM-FATEHPUR	2	0	1213 636	0.0	18.0 9.3	-18.0 -9.3
5		GAYA-BALIA	1	0	637	0.0	7.2	-7.2
7		PUSAULI-VARANASI	1	15	101	0.0	1.5	-1.5
8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	2	6	121 668	0.0	9.0	-1.2 -9.0
9		PATNA-BALIA	4	0	1542	0.0	26.1 8.8	-26.1
10 11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	0	541 518	0.0	8.0	-8.8 -8.0
12	400 kV	BIHARSHARIFF-VARANASI	2	0	380	0.0	6.6	-6.6
13 14		PUSAULI-SAHUPURI SONE NAGAR-RIHAND	1	0	115 0	0.0	1.6 0.0	-1.6 0.0
15	132 kV	GARWAH-RIHAND	î	25	0	0.2	0.0	0.2
16 17		KARMANASA-SAHUPURI KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
			1		ER-NR	0.2	109.5	-109.3
Impor 1	rt/Export of ER (\ 765 kV		4	710	570	26	0.0	27
2	765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	2	719 0	578 1121	0.0	10.2	2.6 -10.2
3	765 kV	JHARSUGUDA-DURG	2	103	164	0.0	0.9	-0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	178	353	0.0	2.7	-2.7
5		RANCHI-SIPAT	2	61	358	0.0	4.4	-4.4
6		BUDHIPADAR-RAIGARH	1	0	158	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	80	88 ER-WR	2.6	0.1 20.6	-0.1 -18.0
mpor	rt/Export of ER (V				ER-WR			
1	HVDC	JEYPORE-GAZUWAKA B/B	2	597	0	9.4	0.0	9.4
3		TALCHER-KOLAR BIPOLE ANGUL-SRIKAKULAM	2 2	0	1982 3033	0.0	28.4 54.7	-28.4 -54.7
4	400 kV	TALCHER-I/C	2	1354	217	12.9	0.0	12.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0 ER-SR	0.0 9.4	0.0 83.1	-73.7
mpor	rt/Export of ER (V							
1 2	400 kV 400 kV	BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2 2	0 151	285 207	0.0	4.6 1.7	-4.6 -1.7
3		ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2	20	56	0.0	0.6	-0.6
_					ER-NER	0.0	6.8	-6.8
mpor 1	rt/Export of NER HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
					NER-NR	0.0	12.0	-12.0
lmpor 1	rt/Export of WR (HVDC	With NR) CHAMPA-KURUKSHETRA	,	0	3018	0.0	47.8	-47.8
2		VINDHYACHAL B/B	-	205	0	5.5	0.0	5.5
3		MUNDRA-MOHINDERGARH GWALIOR-AGRA	2 2	0	449	0.0	8.2 25.6	-8.2 -25.6
5		GWALIOR-AGRA GWALIOR-PHAGI	2	0	1681 2524	0.0	38.6	-25.6 -38.6
6	765 kV	JABALPUR-ORAI	2	0	949	0.0	23.6	-23.6
7 8		GWALIOR-ORAI SATNA-ORAI	1	880	1310	13.5 0.0	0.0 22.4	13.5 -22.4
9	765 kV	BANASKANTHA-CHITORGARH	2	1228	0	16.9	0.0	16.9
10 11		VINDHYACHAL-VARANASI ZERDA-KANKROLI	2	237	1961 0	3.6	32.1	-32.1 3.6
12		ZERDA -BHINMAL	1	224	180	2.1	0.0	2.1
13		VINDHYACHAL -RIHAND	1 2	958	0	12.2	0.0	12.2
14 15		RAPP-SHUJALPUR BHANPURA-RANPUR	1	209 132	524 66	0.3 0.8	3.7 0.1	-3.3 0.7
16	220 kV	BHANPURA-MORAK	1	0	30	0.7	0.9	-0.2
17 18		MEHGAON-AURAIYA MALANPUR-AURAIYA	1	140 89	0	1.3 2.3	0.0	1.3
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	ő	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0 WR-NR	0.0 59.1	0.0 203.0	0.0 -143.9
mpor	rt/Export of WR (,,,,,,,,	37.1		-143.7
2		BHADRAWATI B/B RAIGARH-PUGALUR	2	987 1642	617	11.2 9.5	5.2 0.0	6.0 9.5
3	765 kV	SOLAPUR-RAICHUR	2	1642 612	606 1547	1.4	10.0	-8.6
4		WARDHA-NIZAMABAD	2	0	2822	0.0	41.0	-41.0
6	400 kV 220 kV	KOLHAPUR-KUDGI KOLHAPUR-CHIKODI	2 2	1474 0	0	22.3 0.0	0.0	22.3 0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1 1	0	94 WR-SR	1.4 45.8	0.0 56.2	1.4 -10.4
_		IN	TERNATIONAL EX	CHANGES				+ve)/Export(-ve)
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchang
	******	ER	400kV MANGDECHE 1,2&3 i.e. ALIPURDU	IU-ALIPURDUAR IAR RECEIPT (from	116	0	94	(MU) 2.3
		ER	MANGDECHU HEP 4 400kV TALA-BINAG MALBASE - BINAGU	URI 1,2,4 (& 400kV JRI) i.e. BINAGURI	177	169	172	4.1
	BHUTAN	ER	RECEIPT (from TAL 220kV CHUKHA-BIR MALBASE - BIRPAR	PARA 1&2 (& 220kV (A) i.e. BIRPARA	25	0	5	0.1
		NER	RECEIPT (from CHU 132kV GELEPHU-SA	KHA HEP 4*84MW)	7	0	1	0.0
		NER	132kV MOTANGA-R.	ANGIA	11	0	1	0.0
		NR	132kV MAHENDRAN TANAKPUR(NHPC)	AGAR-	0	0	0	0.0
	NEPAL	ER	NEPAL IMPORT (FR	ROM BIHAR)	-94	0	-19	-0.5
		ER	400kV DHALKEBAR	-MUZAFFARPUR 1&2	-300	23	-106	-2.5
		ER	BHERAMARA B/B H	IVDC (BANGLADESH)	-720	-440	-569	-13.7
		LA.						