

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: 24th Dec 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 23.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-२०१० की धारा स.-५.५.१ के प्रावधान के अनुसार, दिनांक २३-दिसंबर-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 23rd 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: 24-Dec-2021

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)	54410	56961	40881	20214	2610	175076
Peak Shortage (MW)	1110	0	0	486	0	1596
Energy Met (MU)	1083	1294	932	408	45	3762
Hydro Gen (MU)	109	36	90	31	11	277
Wind Gen (MU)	3	15	14	-		32
Solar Gen (MU)*	36.02	38.06	105.60	4.43	0.27	184
Energy Shortage (MU)	8.59	0.34	0.00	5.28	0.06	14.27
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55820	62635	46521	20597	2654	181379
Time Of Maximum Demand Met (From NLDC SCADA)	11:15	11:03	08:13	18:53	17:33	10:28
B. Frequency Profile (%)						
n .	40 =	40 = 40.0	40.0 40.0	40.0	40.0 50.05	#0.0#

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energ
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		dav(MW)	Demand(MW)	(MC)	(MU)	(MC)	(14144)	(MU)
	Punjab	6773	0	130.2	67.5	-2.0	88	0.10
	Haryana	7344	0	136.2	75.9	-0.2	199	0.00
	Rajasthan	14778	225	281.2	87.1	4.4	528	3.76
	Delhi	4339	0	72.0	60.4	-0.4	286	0.00
NR	UP	18522	0	323.1	94.3	-0.5	292	0.00
	Uttarakhand	2309	0	42.9	29.0	0.9	165	0.08
	HP	1899	0	34.5	27.7	-0.2	181	0.00
	J&K(UT) & Ladakh(UT)	2862	300	58.6	55.3	-1.8	397	4.65
	Chandigarh	246	0	4.0	4.1	-0.1	28	0.00
	Chhattisgarh	3991	0	83.8	36.2	1.8	827	0.11
	Gujarat	17131	0	360.2	202.0	0.6	634	0.23
	MP	15486	0	302.0	193.9	-1.2	473	0.00
WR	Maharashtra	24405	0	492.4	138.0	-3.6	582	0.00
	Goa	578	0	12.0	10.9	0.5	41	0.00
	DD	333	0	7.3	7.2	0.1	36	0.00
	DNH	842	0	19.6	19.3	0.3	72	0.00
	AMNSIL	795	0	16.2	7.7	-0.4	291	0.00
	Andhra Pradesh	8979	0	170.3	72.9	0.2	400	0.00
	Telangana	10144	0	186.7	67.2	0.6	610	0.00
SR	Karnataka	11276	0	200.5	54.1	-0.5	609	0.00
	Kerala	3744	0	74.8	52.7	-0.4	289	0.00
	Tamil Nadu	14262	0	293.0	190.3	0.7	567	0.00
	Puducherry	348	0	7.0	7.3	-0.3	27	0.00
	Bihar	4977	0	81.7	71.2	-0.5	242	0.00
	DVC	3254	0	68.6	-46.1	0.1	438	2.00
	Jharkhand	1520	108	29.9	20.2	0.1	225	3.28
ER	Odisha	5705	0	113.0	56.5	-1.3	468	0.00
	West Bengal	6237	0	112.8	-4.3	1.1	277	0.00
	Sikkim	126	0	2.0	1.8	0.2	61	0.00
	Arunachal Pradesh	140	0	2.3	2.2	0.0	35	0.00
	Assam	1487	0	24.8	18.1	0.2	114	0.00
	Manipur	236	0	3.1	3.0	0.1	40	0.06
NER	Meghalaya	394	0	7.5	5.7	0.2	54	0.00
	Mizoram	138	0	1.8	1.7	-0.2	16	0.00
	Nagaland	135	0	2.3	2.1	0.2	12	0.00
	Trinura	220	0	3.5	3.5	-0.3	15	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.4	-6.1	-16.4
Day Peak (MW)	343.0	-496.6	-831.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	227.4	-149.5	78.1	-154.8	-1.2	0.0
Actual(MU)	213.9	-145.1	86.3	-154.6	-1.8	-1.3
O/D/U/D(MU)	-13.5	4.5	8.2	0.2	-0.6	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5582	12053	6422	2370	380	26807	39
State Sector	8586	17331	10753	4558	112	41339	61
Total	14168	29383	17175	6928	492	68145	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	648	1311	510	552	14	3035	79
Lignite	23	12	38	0	0	73	2
Hydro	109	36	90	31	11	277	7
Nuclear	33	33	69	0	0	135	4
Gas, Naptha & Diesel	15	12	8	0	26	61	2
RES (Wind, Solar, Biomass & Others)	64	54	145	4	0	268	7
Total	892	1458	860	588	51	3849	100
			1		1	1	,
Share of RES in total generation (%)	7.18	3.71	16.90	0.76	0.53	6.97]
Share of Non-fossil fuel (Hydro Nuclear and RES) in total generation(%)	23.03	8 46	35 41	6.07	21 97	17.67	1

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1 080

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)

							Import=(+ve) /Export Date of Reporting:	24-Dec-2021
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
No	_		110. of Circuit	Max Import (M W)	max Export (mm)	Import (MC)		HEI (HE)
1mpo	ort/Export of ER (\) HVDC	ALIPURDUAR-AGRA	2.	1 0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B		2	Ö	0.0	0.0	0.0
3		GAYA-VARANASI	2	0	683	0.0	9.7	-9.7
4	765 kV	SASARAM-FATEHPUR	1	0	594	0.0	8.4 9.7	-8.4
6	765 kV 400 kV	GAYA-BALIA PUSAULI-VARANASI	1	0 10	568 185	0.0	1.9	-9.7 -1.9
7		PUSAULI -ALLAHABAD	i	9	162	0.0	1.4	-1.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	Ó	700	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	4	0	1176	0.0	21.8	-21.8
10		BIHARSHARIFF-BALIA	2	0	383	0.0	6.0	-6.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	442	0.0	6.9 4.2	-6.9
12	400 kV 220 kV	BIHARSHARIFF-VARANASI PUSAULI-SAHUPURI	1	0 12	267 172	0.0	1.8	-4.2 -1.8
14		SONE NAGAR-RIHAND	i	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	1	25	0	0.5	0.0	0.5
16		KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
Impo	ort/Export of ER (With WP)			ER-NR	0.5	80.8	-80.3
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	827	192	9.2	0.0	9.2
	765 kV	NEW RANCHI-DHARAMJAIGARH	2	149	965	0.0	8.1	-8.1
2								
3	765 kV	JHARSUGUDA-DURG	2	83	278	0.0	3.4	-3.4
4	400 kV	JHARSUGUDA-RAIGARH	4	142	419	0.0	2.9	-2.9
5	400 kV	RANCHI-SIPAT	2	86	307	0.0	2.9	-2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	89	97	0.0	0.3	-0.3
7	220 kV	BUDHIPADAR-KORBA	2	114	20	1.3	0.0	1.3
T	nt/Ennant SEE C	Wal CD)			ER-WR	10.4	17.5	-7.1
	ort/Export of ER (2	Ι Δ	540	0.0	12.4	12.4
2		JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2	0	549 1987	0.0	42.8	-12.4 -42.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2571	0.0	42.9	-42.9
4	400 kV	TALCHER-I/C	2	1748	980	0.0	1.4	-1.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	2	0	0.0	0.0	0.0
T		Wal MED			ER-SR	0.0	98.1	-98.1
	ort/Export of ER (1 ^	220	0.0	4.2	42
2		BINAGURI-BONGAIGAON ALIPURDUAR-BONGAIGAON	2	0	329 457	0.0	5.3	-4.2 -5.3
3		ALIPURDUAR-BONGAIGAON ALIPURDUAR-SALAKATI	2	0	81	0.0	1.1	-5.3 -1.1
					ER-NER	0.0	10.5	-10.5
Impo	ort/Export of NER							
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
T	out/Eron aut of WD /	Wist ND)			NER-NR	0.0	12.1	-12.1
1mpo	ort/Export of WR (CHAMPA-KURUKSHETRA	2	1 0	3008	0.0	60.3	-60.3
2	HVDC	VINDHYACHAL B/B		227	486	0.0	1.9	-1.9
3		MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4		GWALIOR-AGRA	2	Ü	1471	0.0	18.5	-18.5
5		GWALIOR-PHAGI	2	0	2356	0.0	36.4	-36.4
6	765 kV	JABALPUR-ORAI	2	0	876	0.0	24.9	-24.9
7	765 kV	GWALIOR-ORAI	1	953	0	17.7	0.0 19.0	17.7
8	765 kV 765 kV	SATNA-ORAI BANASKANTHA-CHITORGARH	2	0 1739	1047 0	0.0 27.9	0.0	-19.0 27.9
10		VINDHYACHAL-VARANASI	2	0	2022	0.0	34.5	-34.5
11		ZERDA-KANKROLI	1	284	0	5.0	0.0	5.0
12		ZERDA -BHINMAL	1	301	10	3.6	0.0	3.6
13	400 kV	VINDHYACHAL -RIHAND	1	984	0	22.2	0.0	22.2
14		RAPP-SHUJALPUR	2	158	335	0.6	1.5 0.0	-0.9
15 16		BHANPURA-RANPUR BHANPURA-MORAK	1	0	30	0.0	0.7	0.0
17		MEHGAON-AURAIYA	i	157	0	1.6	0.0	1.6
18	220 kV	MALANPUR-AURAIYA	1	102	0	2,3	0.0	2.3
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
T	ort/Export of WR (Wal CD)			WR-NR	81.5	203.8	-122.3
11111111		BHADRAWATI B/B		1 0	1016	0.0	18.5	-18.5
2		RAIGARH-PUGALUR	2	721	606	0.0	3.5	-3.5
3	765 kV	SOLAPUR-RAICHUR	2	970	1281	4.6	6.6	-2.0
4	765 kV	WARDHA-NIZAMABAD	2	0	2397	0.0	28.2	-28.2
5		KOLHAPUR-KUDGI	2	1344	0	20.9	0.0	20.9
7		KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8		PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 62	0.0 1.1	0.0	0.0 1.1
	R 1				WR-SR	26.6	56.7	-30.1
F		IN	TERNATIONAL EX	CHANGES				+ve)/Export(-ve)
	64-4-	***		CILLIGIE	34 (2500)	3.6. (2.57)	Import	Energy Exchange
L	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	(MII)
			400kV MANGDECHI					
		ER	1,2&3 i.e. ALIPURDU		144	28	56	1.4
			MANGDECHU HEP 400kV TALA-BINAG	4*180MW) URI 1.2.4 (& 400kV			 	
		ER	MALBASE - BINAGI		178	161	175	4.2
			RECEIPT (from TAL	A HEP (6*170MW)	0	-01		
			220kV CHUKHA-BIR	RPARA 1&2 (& 220kV				
	BHUTAN	ER	MALBASE - BIRPAR RECEIPT (from CHU		13	0	-7	-0.2
			KECEIFI (IFOM CHU	KHA HEF 4°84MW)			† 	
		NER	132kV GELEPHU-SA	LAKATI	7	-6	1	0.0
						-	ļ	
			AND TO LOT AND A D					
		NER	132kV MOTANGA-R	ANGIA	11	-4	0	0.0
			132kV MAHENDRAN	NACAD-			İ	
1		NR	TANAKPUR(NHPC)		-71	0	-17	-0.4
1			aki ok(inift)				L	
1	NEPAL	ER	NEPAL IMPORT (FI	OM RIHAR)	-128	-12	-75	-1 0
1	MELAL	£K	AL IVITORI (FI	ол вилк)	-148	-14	-/3	-1.8
			İ				İ	
		ER	400kV DHALKEBAR	-MUZAFFARPUR 1&2	-298	0	-163	-3.9
			I				-611	-14.7
		FD		IVDC (BANGLADECIA)				
		ER	BHERAMARA B/B H	IVDC (BANGLADESH)	-738	-400	-011	-14.7
В	ANGLADESH	ER NER	132kV COMILLA-SU 1&2		-738 -93	-400	-71	-1.7