

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

Ref: POSOCO/NLDC/SO/Daily PSP Report

То,

दिनांक: 23rd Dec 2021

- 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 22.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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: 23-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)	55027	56748	40764	19513	2523	174575
Peak Shortage (MW)	889	0	0	335	0	1224
Energy Met (MU)	1092	1282	918	399	45	3736
Hydro Gen (MU)	109	35	87	29	11	270
Wind Gen (MU)	1	9	12		-	22
Solar Gen (MU)*	61.17	40.34	99.96	4.87	0.24	207
Energy Shortage (MU)	6.56	0.00	0.00	6.77	0.00	13.33
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55876	62578	45954	19853	2693	181349
Time Of Maximum Demand Met (From NLDC SCADA)	18:25	10:59	08:28	18:15	17:31	10:21
3. Frequency Profile (%)						
Pagion EVI	- 40.7	40.7 40.0	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)	(MC)	(MU)	(MC)	(1111)	(MU)
	Punjab	7185	0	136.0	75.5	-1.0	137	0.00
	Haryana	7288	0	139.0	76.3	0.8	136	0.27
	Rajasthan	14908	0	277.4	86.5	1.2	372	1.44
	Delhi	4424	0	71.9	61.6	-2.2	496	0.00
NR	UP	18587	0	324.6	95.7	0.2	235	0.00
	Uttarakhand	2223	0	42,2	29.0	-0.2	130	0.00
	HP	1889	0	34.9	27.1	0.3	305	0.20
	J&K(UT) & Ladakh(UT)	3027	150	61.9	56.2	0.5	322	4.65
	Chandigarh	241	0	4.0	4.2	-0.2	22	0.00
	Chhattisgarh	3926	0	82.7	31.1	0.0	166	0.00
	Gujarat	17023	0	353.2	199.7	0.5	534	0.00
	MP	15589	0	300.5	193.5	-0.3	548	0.00
WR	Maharashtra	23840	0	489.5	140.5	-4.4	589	0.00
	Goa	561	0	11.8	10.9	0.3	36	0.00
	DD	332	0	7.4	7.1	0.3	39	0.00
	DNH	850	0	19.4	19.4	0.0	115	0.00
	AMNSIL	780	0	17.3	7.9	-0.2	257	0.00
	Andhra Pradesh	8851	0	168.8	77.8	-0.1	391	0.00
	Telangana	9963	0	185.5	67.7	0.8	676	0.00
SR	Karnataka	10637	0	193.9	47.7	-0.4	719	0.00
	Kerala	3765	0	74.4	53.7	-0.6	234	0.00
	Tamil Nadu	14107	0	288.5	193.7	-0.2	591	0.00
	Puducherry	353	0	7.0	7.2	-0.3	25	0.00
	Bihar	4776	0	82.7	70.3	0.1	300	0.00
	DVC	3190	0	66.9	-47.5	-1.7	289	2.02
	Jharkhand	1434	0	27.3	21.6	0.0	185	4.75
ER	Odisha	5401	0	106.2	51.6	0.2	469	0.00
	West Bengal	6178	0	113.6	-13.1	0.0	222	0.00
	Sikkim	120	0	2.0	1.7	0.3	53	0.00
	Arunachal Pradesh	142	0	2.3	2.2	0.0	29	0.00
	Assam	1473	0	24.4	18.0	0.0	157	0.00
	Manipur	226	0	3.2	3.3	0.0	24	0.00
NER	Meghalaya	389	0	7.3	5.9	0.0	44	0.00
	Mizoram	131	0	1.9	1.7	-0.2	12	0.00
	Nagaland	145	0	2.6	2.2	0.3	24	0.00
	Trinura	227	0	3.5	3.0	-0.4	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.1	-5.7	-13.6
Day Peak (MW)	279.0	-570.9	-824.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	228.8	-151.9	90.5	-164.8	-2.6	0.0
Actual(MU)	213.3	-144.4	97.1	-165.2	-2.9	-2.2
O/D/U/D(MU)	-15.5	7.5	6.6	-0.4	-0.3	-2.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6452	12553	7332	2460	380	29177	42
State Sector	9081	16493	10951	4058	112	40694	58
Total	15533	29046	18283	6518	492	69871	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	641	1297	498	554	13	3004	79
Lignite	22	12	39	0	0	72	2
Hydro	109	35	87	29	11	270	7
Nuclear	33	33	70	0	0	135	4
Gas, Naptha & Diesel	15	13	6	0	28	62	2
RES (Wind, Solar, Biomass & Others)	88	51	138	5	0	281	7
Total	907	1439	837	588	53	3825	100
Share of RES in total generation (%)	9.69	3.51	16.47	0.82	0.46	7.36	
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	25.31	8.20	35.12	5.76	21.67	17.96	

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Rosed on State May Demands	1.071

Based on State Max Demands

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: 23-Dec-2021

							Date of Reporting:	23-Dec-2021
Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
No Impo	rt/Export of ER (*****		
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
3		PUSAULI B/B		3	0 799	0.0	0.0 12.9	0.0 -12.9
4		GAYA-VARANASI SASARAM-FATEHPUR	1	0	566	0.0	10.4	-10.4
- 5	765 kV	GAYA-BALIA	1	0	509	0.0	9.0	-9.0
7		PUSAULI-VARANASI PUSAULI -ALLAHABAD	1	0	102 138	0.0	2.0 1.8	-2.0 -1.8
8		MUZAFFARPUR-GORAKHPUR	2	Ŏ	742	0.0	10.3	-10.3
9	400 kV	PATNA-BALIA	4	0	1289	0.0	23.3	-23.3
10	400 kV 400 kV	BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2	0	350 484	0.0	5.7 8.0	-5.7 -8.0
12		BIHARSHARIFF-VARANASI	2	Ŏ	351	0.0	5.1	-5.1
13		PUSAULI-SAHUPURI	1	6	147	0.0	1.7	-1.7
14		SONE NAGAR-RIHAND GARWAH-RIHAND	1	0 25	0	0.0	0.0	0.0
16		KARMANASA-SAHUPURI	î	0	Ö	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0 ED ND	0.0	0.0	0.0
Impo	rt/Export of ER (With WR)			ER-NR	0.3	90.2	-89.9
1		JHARSUGUDA-DHARAMJAIGARH	4	447	264	1.6	0.0	1.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	5	982	0.0	9.8	-9.8
3	765 kV	JHARSUGUDA-DURG	2	57	297	0.0	2.8	-2.8
4		JHARSUGUDA-RAIGARH	4	167	258	0.0	1.6	-1.6
5		RANCHI-SIPAT	2	35	247	0.0	1.6	-1.6
6		BUDHIPADAR-RAIGARH	1	104	22	1.0	0.0	1.0
7	220 kV	BUDHIPADAR-KORBA	2	112	0 ED WD	1.9	0.0	1.9
Impo	rt/Export of ER (V	With SR)			ER-WR	4.5	15.9	-11.4
1	HVDC	JEYPORE-GAZUWAKA B/B	2	393	549	0.0	6.6	-6.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	45.8	-45.8
4		ANGUL-SRIKAKULAM TALCHER-I/C	2 2	0 329	2534 905	0.0	41.0 7.1	-41.0 -7.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	329	0	0.0	0.0	0.0
T					ER-SR	0.0	93.4	-93.4
Impo 1	rt/Export of ER (V 400 kV	With NER) BINAGURI-BONGAIGAON	2	0	291	0.0	3.8	-3.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	392	0.0	4.6	-3.8 -4.6
3		ALIPURDUAR-SALAKATI	2	0	70 ED NED	0.0	0.8	-0.8
Impo	rt/Export of NER	(With NR)			ER-NER	0.0	9.2	-9.2
_1	HVDC	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.1	-12.1
			•		NER-NR	0.0	12.1	-12.1
Impo 1	rt/Export of WR (HVDC	With NR) CHAMPA-KURUKSHETRA	2	0	3008	0.0	54.1	-54.1
2		VINDHYACHAL B/B		445	2	8.5	0.0	8.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	253	0.0	6.2	-6.2
4		GWALIOR-AGRA	2	0	1480	0.0	23.2 36.7	-23.2
6		GWALIOR-PHAGI JABALPUR-ORAI	2	0	2084 756	0.0	26.2	-36.7 -26.2
7	765 kV	GWALIOR-ORAI	1	1021	0	16.7	0.0	16.7
8		SATNA-ORAI	2	0	1028	0.0	20.8 0.0	-20.8
10	765 kV 765 kV	BANASKANTHA-CHITORGARH VINDHYACHAL-VARANASI	2	1457	0 2015	27.4 0.0	33.7	27.4 -33.7
11		ZERDA-KANKROLI	1	291	0	5.3	0.0	5.3
12		ZERDA -BHINMAL	1	360 978	11 0	4.4 21.9	0.0	4.4 21.9
14		VINDHYACHAL -RIHAND RAPP-SHUJALPUR	2	230	344	0.6	2.0	-1.4
15	220 kV	BHANPURA-RANPUR	1	0	0	0.0	0.0	0.0
16		BHANPURA-MORAK	1	0	30	1.6	0.0	1.5
17 18		MEHGAON-AURAIYA MALANPUR-AURAIYA	1	153 98	0	1.4 2.4	0.0	1.4 2.4
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0 WR-NR	0.0	0.0	0.0
Impo	rt/Export of WR (With SR)			WK-NK	90.2	203.0	-112.8
1	HVDC	BHADRAWATI B/B	-	591	1016	5.0	8.8	-3.8
3	HVDC	RAIGARH-PUGALUR	2	578	3508	0.0	28.9 6.9	-28.9
4		SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	1157 0	1188 2646	4.0 0.0	31.6	-2.9 -31.6
5	400 kV	KOLHAPUR-KUDGI	2	1502	0	22.9	0.0	22.9
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8		PONDA-AMBEWADI XELDEM-AMBEWADI	1	0	0 72	0.0 1.2	0.0	0.0 1.2
	ZZU R V	ALLES ENTANTES HADI			WR-SR	33.1	76.1	-42.9
		IN	TERNATIONAL EX	CHANGES				(+ve)/Export(-ve)
	State	Region		Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
\vdash	Smit	Region ER	400kV MANGDECHH 1,2&3 i.e. ALIPURDU.	IU-ALIPURDUAR	82	0 0	50	(MU) 1.2
		EK	MANGDECHU HEP 4 400kV TALA-BINAGU	4*180MW) URI 1,2,4 (& 400kV		0		1.2
		ER	MALBASE - BINAGU RECEIPT (from TALA 220kV CHUKHA-BIR	RI) i.e. BINAGURI A HEP (6*170MW)	169	0	140	3.4
	BHUTAN	ER	MALBASE - BIRPAR RECEIPT (from CHUI	A) i.e. BIRPARA	17	0	-21	-0.5
		NER	132kV GELEPHU-SAI		4	0	0	0.0
		NER	132kV MOTANGA-RA	ANGIA	7	0	1	0.0
		NR	132kV MAHENDRAN TANAKPUR(NHPC)	AGAR-	-63	0	-3	-0.1
	NEPAL	ER	NEPAL IMPORT (FR	OM BIHAR)	-148	-41	-79	-1.9
		ER	400kV DHALKEBAR-	MUZAFFARPUR 1&2	-360	15	-155	-3.7
		ER	BHERAMARA B/B H	VDC (BANGLADESH)	-732	-352	-493	-11.8
В	ANGLADESH	NER	132kV COMILLA-SUI 1&2	RAJMANI NAGAR	-92	0	-75	-1.8
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