

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: 16th 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

- 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 15.12.2021.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th December 2021, is available at the NLDC website.

धन्यवाद,

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



Report for previous day A. Power Supply Position at All India and Regional level Date of Reporting: 16-Dec-2021

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	51431	55378	39749	17774	2538	166870
Peak Shortage (MW)	250	0	0	613	0	863
Energy Met (MU)	1038	1267	877	375	45	3602
Hydro Gen (MU)	112	39	86	38	11	286
Wind Gen (MU)	6	82	53			141
Solar Gen (MU)*	56.27	33.22	77.09	4.28	0.27	171
Energy Shortage (MU)	5.36	0.00	0.00	10.62	0.00	15.98
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52490	60121	42554	17919	2640	170945
Time Of Maximum Demand Met (From NLDC SCADA)	10:28	10:47	08:16	18:17	17:16	10:26

B. Frequency Profile (%)
Region
All India

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energ
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shorta
		dav(MW)	Demand(MW)	(MC)	(MU)	(NIC)	(14144)	(MU
	Punjab	6517	0	131.9	71.4	-0.3	156	0.56
	Haryana	7186	0	134.3	92.6	1.6	257	0.00
	Rajasthan	14748	0	270.6	82.6	1.9	336	0.00
	Delhi	3985	0	66.3	55.4	-1.2	220	0.00
NR	UP	17061	0	301.0	113.5	-1.4	618	0.00
	Uttarakhand	2066	0	38.9	26.4	-0.1	168	0.15
	HP	1940	0	34.9	27.0	0.1	300	0.00
	J&K(UT) & Ladakh(UT)	2938	250	57.1	53.8	-1.6	349	4.65
	Chandigarh	220	0	3.5	3.7	-0.2	44	0.00
	Chhattisgarh	3697	0	79.6	27.5	0.2	277	0.0
	Gujarat	16595	0	349.7	177.6	0.2	591	0.00
	MP	14954	0	293.3	178.1	-0.2	647	0.0
WR	Maharashtra	23848	0	485.6	139.6	3.3	910	0.0
	Goa	610	0	12.8	12.1	0.1	62	0.0
	DD	336	0	7.4	7.2	0.2	24	0.0
	DNH	849	0	19.2	19.0	0.2	79	0.00
	AMNSIL	868	0	19.2	8.8	0.0	289	0.00
	Andhra Pradesh	8051	0	166.4	77.8	0.0	585	0.00
	Telangana	9310	0	175.0	63.7	-1.3	517	0.00
SR	Karnataka	9410	0	174.2	31.6	2.1	465	0.00
	Kerala	3818	0	76.7	50.6	-0.1	139	0.00
	Tamil Nadu	13665	0	277.7	158.1	0.2	688	0.00
	Puducherry	357	0	7.1	7.3	-0.2	28	0.00
	Bihar	4059	0	75.8	63.0	0.7	437	2.50
	DVC	3180	60	64.2	-41.8	-2.4	362	1.73
	Jharkhand	1327	128	24.5	19.3	-0.3	294	6.39
ER	Odisha	4984	0	96.3	33.3	0.1	443	0.00
	West Bengal	6051	0	112.3	-6.4	2.1	554	0.0
	Sikkim	108	0	2.2	1.4	0.8	74	0.00
I	Arunachal Pradesh	126	0	2.1	2.2	-0.2	29	0.00
	Assam	1448	0	24.7	18.3	-0.1	102	0.00
	Manipur	229	0	3.2	3.2	0.0	31	0.00
NER	Meghalaya	389	0	6.9	5.8	-0.1	43	0.00
	Mizoram	125	0	1.7	1.6	-0.2	12	0.00
	Nagaland	155	0	2.5	2.3	0.1	19	0.00
	Trinura	223	0	3.5	2.2	-0.4	23	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.2	-3.2	-15.4
Day Peak (MW)	439.0	-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)	246.5	-148.2	58.0	-151.4	-4.8	0.0
Actual(MU)	246.8	-144.4	47.3	-147.1	-5.1	-2.6
O/D/U/D(MU)	0.3	3.8	-10.7	4.3	-0.2	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6987	15183	7942	3880	350	34342	42
State Sector	13781	18969	10431	3378	11	46569	58
Total	20768	34151	18373	7258	361	80910	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	556	1220	484	503	13	2776	75
Lignite	20	13	37	0	0	71	2
Hydro	112	39	86	38	11	286	8
Nuclear	28	33	69	0	0	130	4
Gas, Naptha & Diesel	14	10	9	0	30	63	2
RES (Wind, Solar, Biomass & Others)	87	117	158	4	0	367	10
Total	818	1432	844	545	54	3693	100
						,	,
Share of RES in total generation (%)	10.68	8.14	18.73	0.78	0.50	9.93]
Share of Non-fossil fuel (Hydro Nuclear and RES) in total generation(%)	27 77	13 17	37 12	7.75	21 11	21 10	1

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.085

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: 16-Dec-2021

		,	,			Date of Reporting:	16-Dec-2021
Sl Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER ((With NR)						
1 HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2 HVDC 3 765 kV	PUSAULI B/B	-	2	0	0.0	0.0	0.0
3 765 kV 4 765 kV	GAYA-VARANASI SASARAM-FATEHPUR	1	0	1008 700	0.0	13.6 9.1	-13.6 -9.1
5 765 kV	GAYA-BALIA	i	0	644	0.0	12.2	-12.2
6 400 kV	PUSAULI-VARANASI	1	19	78	0.0	1.4	-1.4
7 400 kV	PUSAULI -ALLAHABAD	1	0	127	0.0	1.6	-1.6
8 400 kV 9 400 kV	MUZAFFARPUR-GORAKHPUR PATNA-BALIA	2	0	758 1307	0.0	9.9 23.0	-9.9 -23.0
10 400 kV	BIHARSHARIFF-BALIA	2	0	537	0.0	7.1	-23.0 -7.1
11 400 kV	MOTIHARI-GORAKHPUR	2	ŏ	421	0.0	6.9	-6.9
12 400 kV	BIHARSHARIFF-VARANASI	2	0	380	0.0	6.3	-6.3
13 220 kV	PUSAULI-SAHUPURI	1	0	102	0.0	1.6	-1.6
14 132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15 132 kV 16 132 kV	GARWAH-RIHAND KARMANASA-SAHUPURI	+	25 0	0	0.3	0.0 0.0	0.3
17 132 kV	KARMANASA-SAHUI URI KARMANASA-CHANDAULI	i	Ö	0	0.0	0.0	0.0
		•	v	ER-NR	0,3	92.6	-92.4
Import/Export of ER (•				,	
1 765 kV	JHARSUGUDA-DHARAMJAIGARH	4	861	459	7.4	0.0	7.4
2 765 kV	NEW RANCHI-DHARAMJAIGARH	2	73	1063	0.0	7.6	-7.6
3 765 kV	JHARSUGUDA-DURG	2	194	159	0.3	0.0	0.3
4 400 kV	JHARSUGUDA-RAIGARH	4	243	338	0.0	0.4	-0.4
5 400 kV	RANCHI-SIPAT	2	89	335	0.0	2.0	-2.0
6 220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	1.6	-1.6
7 220 kV	BUDHIPADAR-KORBA	2	89	67	0.3	0.0	0.3
				ER-WR	8.0	11.6	-3.6
Import/Export of ER (
1 HVDC	JEYPORE-GAZUWAKA B/B	2	496	0	10.2	0.0	10.2
2 HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	40.3	-40.3
3 765 kV 4 400 kV	ANGUL-SRIKAKULAM TALCHER-I/C	2	0	3075	2.5	56.8 0.0	-56.8 2.5
4 400 kV 5 220 kV	BALIMELA-UPPER-SILERRU	1	869 2	988 0	2.5 0.0	0.0	2.5 0.0
3 220 KY	D.IDAHELA-OITEA-SILERRU	, 1	. 4	ER-SR	10.2	97.1	-86.9
Import/Export of ER ((With NER)						50.7
1 400 kV	BINAGURI-BONGAIGAON	2	28	206	0.0	2.5	-2.5
2 400 kV	ALIPURDUAR-BONGAIGAON	2	17	300	0.0	3.8	-3.8
3 220 kV	ALIPURDUAR-SALAKATI	2	4	57 ER-NER	0.0	0.6	-0.6
Import/Export of NER	(With NR)			ER-NER	0.0	6.9	-6.9
	BISWANATH CHARIALI-AGRA	2	0	503	0.0	12.0	-12.0
1 IIII	DISWARATH CHARLEFAGRA			NER-NR	0.0	12.0	-12.0
Import/Export of WR	(With NR)						
1 HVDC	CHAMPA-KURUKSHETRA	2	0	3006	0.0	54.0	-54.0
2 HVDC	VINDHYACHAL B/B		206	0	5.5	0.0	5.5
3 HVDC 4 765 kV	MUNDRA-MOHINDERGARH	2 2	0	254	0.0	6.2 27.4	-6.2
4 765 kV 5 765 kV	GWALIOR-AGRA GWALIOR-PHAGI	2	0	1717 2312	0.0	33.7	-27.4 -33.7
6 765 kV	JABALPUR-ORAI	2	0	1191	0.0	22.8	-22.8
7 765 kV	GWALIOR-ORAI	1	840	0	12.4	0.0	12.4
8 765 kV	SATNA-ORAI	1	0	1273	0.0	22.5	-22.5
9 765 kV	BANASKANTHA-CHITORGARH	2	1100	0	13.5	0.0	13.5
10 765 kV	VINDHYACHAL-VARANASI	2	0	2098	0.0	37.0	-37.0
11 400 kV 12 400 kV	ZERDA-KANKROLI	1	222 181	0 199	3.1	0.0	3.1
12 400 kV 13 400 kV	ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	958	0	1.3 21.5	0.0	1.3 21.5
14 400 kV	RAPP-SHUJALPUR	2	147	402	0.3	2.5	-2.2
15 220 kV	BHANPURA-RANPUR	1	69	64	0.6	0.2	0.5
16 220 kV	BHANPURA-MORAK	1	0	30	1.5	0.0	1.5
17 220 kV	MEHGAON-AURAIYA	1	132	0	1.2	0.0	1.2
18 220 kV 19 132 kV	MALANPUR-AURAIYA	1	87 0	0	2.0	0.0	2.0
19 132 kV 20 132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20 1 132 KV	RAJGHAT-LALITPUR	. 4	. 0	WR-NR	63.0	206.3	-143.3
Import/Export of WR	(With SR)				V.J.V	. 2000	-1700
1 HVDC	BHADRAWATI B/B	-	987	0	14.1	0.0	14.1
2 HVDC	RAIGARH-PUGALUR	2	1740	0	17.7	0.0	17.7
3 765 kV	SOLAPUR-RAICHUR	2	604	1587	1.0	15.2	-14.3
4 765 kV 5 400 kV	WARDHA-NIZAMABAD KOLHAPUR-KUDGI	2	0 1433	2897 0	0.0 21.2	45.3 0.0	-45.3 21.2
6 220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7 220 kV	PONDA-AMBEWADI	1	Ŏ	Ö	0.0	0.0	0.0
8 220 kV	XELDEM-AMBEWADI	1	Ö	94	1.8	0.0	1.8
				WR-SR	55.7	60.6	-4.8
	IN	TERNATIONAL EX	CHANGES	-		Import(+ve)/Export(-ve)
State	Region	Line	Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange
,t	Mcgivii			(172 77)	(172 77)	5 ((MII)
	ER	400kV MANGDECHE 1,2&3 i.e. ALIPURDU		100	e	79	1.9
	EK	MANGDECHU HEP 4	(*180MW)	106	0	17	1.9
		400kV TALA-BINAG	URI 1,2,4 (& 400kV				
	ER	MALBASE - BINAGU	RI) i.e. BINAGURI	299	154	174	4.2
		RECEIPT (from TAL. 220kV CHUKHA-BIR	A HEP (6*170MW)				
BHUTAN	ER	MALBASE - BIRPAR		17	0	-1	0.0
3110 1311	EA	RECEIPT (from CHU		1,			0.0
	NER	132kV GELEPHU-SA	LAKATI	5	0	1	0.0
	NER	132kV MOTANGA-R	ANGIA	12	0	5	0.1
			<u> </u>				
	1	132kV MAHENDRAN	AGAR-				
	NR	TANAKPUR(NHPC)		0	0	0	0.0
	 						
NEPAL	ER	NEPAL IMPORT (FR	OM BIHAR)	-114	-20	-22	-0.5
	<u> </u>						***
		4001 17 1011					
	ER	400kV DHALKEBAR	MUZAFFARPUR 1&2	-280	0	-112	-2.7
}	1	1					
	ER	BHERAMARA B/B H	VDC (BANGLADESH)	-721	-480	-558	-13.4
					20.20		
BANGT APPOIN		132kV COMILLA-SU	RAJMANI NAGAR			64	-
BANGLADESH	NER	1&2		-97	0	-84	-2.0
1	1	ı				ı	