

National Load Despatch Centre राष्ट्रीय भार प्रेषण केंद्र

POWER SYSTEM OPËRATION 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

दिनांक: 21st Dec 2020

Ref: POSOCO/NLDC/SO/Daily PSP Report

To,

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 20.12.2020.

महोदय/Dear Sir,

आई॰ई॰जी॰सी॰-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-दिसम्बर -2020 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 20th December 2020, 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:** 21-Dec-2020

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	49768	49013	35191	17425	2449	153846
Peak Shortage (MW)	550	0	0	0	22	572
Energy Met (MU)	1004	1171	837	346	41	3398
Hydro Gen (MU)	108	36	49	30	12	235
Wind Gen (MU)	8	68	71	-	-	147
Solar Gen (MU)*	31.82	31.70	79.90	4.69	0.03	148
Energy Shortage (MU)	11.21	0.00	0.00	0.00	1.30	12.51
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52123	57396	42225	18362	2451	166632
Time Of Maximum Demand Met (From NLDC SCADA)	10:48	10:41	09:43	18:33	18:04	10:33

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.032	0.00	0.01	1.74	1.75	69.68	28.58

C. Power Supply Position in States

		Max.Demand	Shortage during	Energy Met	Drawal	OD(+)/UD(-)	Max OD	Energy
Region	States	Met during the	maximum	(MU)	Schedule	(MU)	(MW)	Shortag
		day(MW)	Demand(MW)	(MC)	(MU)	(MC)	(1/1///)	(MU)
	Punjab	6404	0	126.4	64.1	-1.9	57	0.00
	Haryana	6219	0	124.9	91.0	0.3	152	0.00
	Rajasthan	13396	0	252.0	88.3	1.0	349	0.00
	Delhi	4023	0	64.2	49.2	-2.1	239	0.00
NR	UP	17352	0	309.6	98.2	0.6	458	0.01
	Uttarakhand	2049	0	38.5	26.2	-0.2	89	0.00
	HP	1712	0	30.9	24.7	0.2	270	0.00
	J&K(UT) & Ladakh(UT)	2749	550	54.3	49.6	0.0	330	11.20
	Chandigarh	211	0	3.6	3.5	0.1	27	0.00
	Chhattisgarh	3819	0	83.1	28.9	-0.3	351	0.00
	Gujarat	15625	0	323.2	69.6	1.2	688	0.00
	MP	14494	0	277.0	166.6	-1.8	458	0.00
WR	Maharashtra	21511	0	435.3	147.8	-1.4	663	0.00
	Goa	455	0	9.3	9.0	0.2	52	0.00
	DD	300	0	6.2	6.1	0.2	24	0.00
	DNH	773	0	18.1	18.1	-0.1	49	0.00
	AMNSIL	834	0	18.5	10.2	0.7	291	0.00
	Andhra Pradesh	7883	0	154.8	75.8	0.2	431	0.00
	Telangana	9632	0	184.2	76.2	-0.5	843	0.00
SR	Karnataka	10624	0	192.5	66.9	0.1	1040	0.00
	Kerala	3198	0	62.6	52.8	0.9	287	0.00
	Tamil Nadu	11085	0	236.4	147.0	-3.3	390	0.00
	Puducherry	293	0	6.1	6.7	-0.6	9	0.00
	Bihar	4903	0	81.7	81.0	-0.4	444	0.00
	DVC	3157	0	64.9	-34.9	0.9	561	0.00
	Jharkhand	1467	0	26.0	20.8	-1.9	34	0.00
ER	Odisha	3898	0	66.5	-2.0	-0.6	347	0.00
	West Bengal	5722	0	105.3	2.9	0.8	542	0.00
	Sikkim	124	0	2.0	1.7	0.3	35	0.00
_	Arunachal Pradesh	116	2	2.2	2.1	-0.1	23	0.01
	Assam	1345	16	22.0	17.9	-0.2	103	1.00
	Manipur	222	2	2.7	3.4	-0.7	23	0.02
NER	Meghalaya	366	2	6.8	4.5	0.2	45	0.25
	Mizoram	118	0	1.7	1.5	-0.2	21	0.01
	Nagaland	132	1	2.2	1.8	0.2	26	0.01
	Tripura	224	1	3.3	1.5	-0.2	45	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.9	-9.6	-15.2
Day Peak (MW)	306.0	-550.0	-910.0

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

			ER	NER	TOTAL
Schedule(MU) 27	0.0 -260.6	116.1	-128.1	2.7	0.0
Actual(MU) 26	3.8 -249.0	97.4	-122.5	3.4	-7.0
O/D/U/D(MU) -6	5.2 11.6	-18.7	5.6	0.7	-7.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7016	13825	8722	2170	902	32635
State Sector	10236	16081	12917	5232	11	44476
Total	17252	29905	21639	7402	913	77111
	•	•		•	,	,

G. Sourcewise generation (MII)

G. Sourcewise generation (MU)						
	NR	WR	SR	ER	NER	All India
Coal	513	1233	406	462	6	2621
Lignite	19	12	32	0	0	63
Hydro	108	36	49	30	12	235
Nuclear	28	29	59	0	0	116
Gas, Naptha & Diesel	24	24	12	0	24	84
RES (Wind, Solar, Biomass & Others)	69	101	187	5	0	361
Total	762	1434	745	497	42	3480
Share of RES in total generation (%)	9.02	7.02	25.12	0.94	0.07	10.38
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.95	11.51	39.56	6.99	29.02	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.059

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: 21-Dec-2020

Sl	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Date of Reporting: Export (MU)	21-Dec-2020 NET (MU)
No Impoi	rt/Export of ER (l With NR)				<u>-</u>		. ,
1 2		ALIPURDUAR-AGRA PUSAULI B/B	2	0	0 299	0.0	0.0 7.5	-7.5
3	765 kV	GAYA-VARANASI	2	0	1213	0.0	17.1	-17.1
5		SASARAM-FATEHPUR GAYA-BALIA	1	53	337 644	0.0	3.5 10.8	-3.5 -10.8
6	400 kV	PUSAULI-VARANASI	1	0	221	0.0	4.4	-4.4
8		PUSAULI -ALLAHABAD MUZAFFARPUR-GORAKHPUR	1 2	0	157 884	0.0	2.9 10.5	-2.9 -10.5
9	400 kV	PATNA-BALIA	4	0	1337	0.0	19.5	-19.5
10 11		BIHARSHARIFF-BALIA MOTIHARI-GORAKHPUR	2 2	0	374 385	0.0	5.5 6.6	-5.5 -6.6
12		BIHARSHARIFF-VARANASI	2	46	418	0.0	3.4	-3.4
13 14		PUSAULI-SAHUPURI	1	57	64	0.2	0.0	0.2
15		SONE NAGAR-RIHAND GARWAH-RIHAND	1	20	0	0.0	0.0	0.4
16 17		KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
1/	132 KV	KARMANASA-CHANDAULI	1	U	ER-NR	0.0	0.0 91.7	0.0 -91.1
	rt/Export of ER (1 0=4	1010	0.0	1 0.6	0.6
2	765 kV 765 kV	JHARSUGUDA-DHARAMJAIGARH NEW RANCHI-DHARAMJAIGARH	2	276 889	1219 353	5.5	9.6	-9.6 5.5
3	765 kV	JHARSUGUDA-DURG	2	17	417	0.0	5.9	-5.9
4	400 kV	JHARSUGUDA-RAIGARH	4	37	634	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	280	188	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	178	0.0	2.5	-2.5
7	220 kV	BUDHIPADAR-KORBA	2	57	148 ER-WR	6.8	1.4 27.4	-1.4 -20.5
Impo	rt/Export of ER (•			
1 2		JEYPORE-GAZUWAKA B/B TALCHER-KOLAR BIPOLE	2 2	0 16	335 1630	0.0	5.3 3.5	-5.3 -3.5
3	765 kV	ANGUL-SRIKAKULAM	2	30384	2848	0.0	49.5	-49.5
5		TALCHER-I/C BALIMELA-UPPER-SILERRU	2	1825	300	31.1 0.0	0.0	31.1 0.0
•			1 1	1 1	ER-SR	0.0	58.3	-58.3
	rt/Export of ER (\) 400 kV	With NER) BINAGURI-BONGAIGAON	2	195	55	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2 2	319	56	2.9	0.0	2.9
3		ALIPURDUAR-SALAKATI	2	49	19	0.3	0.0	0.3
Impor	rt/Export of NER				ER-NER	5.2	0.0	5.2
1		BISWANATH CHARIALI-AGRA	2	488	0	9.3	0.0	9.3
Impor	rt/Export of WR ((With NR)			NER-NR	9.3	0.0	9.3
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	40.2	-40.2
3		VINDHYACHAL B/B MUNDRA-MOHINDERGARH	2	242	0 1742	5.0 0.0	0.0 43.5	5.0 -43.5
4	765 kV	GWALIOR-AGRA	2	0	2742	0.0	45.4	-45.4
5 6	765 kV 765 kV	PHAGI-GWALIOR JABALPUR-ORAI	2 2	0	1475 1115	0.0	22.7 38.6	-22.7 -38.6
7	765 kV	GWALIOR-ORAI	1	839	0	13.8	0.0	13.8
8		SATNA-ORAI CHITORGARH-BANASKANTHA	1 2	0 371	1364 766	0.0 0.4	26.9 7.6	-26.9 -7.2
10	400 kV	ZERDA-KANKROLI	1	76	129	0.0	0.6	-0.6
11 12		ZERDA -BHINMAL VINDHYACHAL -RIHAND	1	966	346	0.0 22.1	4.2 0.0	-4.2 22.1
13	400 kV	RAPP-SHUJALPUR	2	42	518	0.0	5.4	-5.4
14 15		BHANPURA-RANPUR BHANPURA-MORAK	1	2 11	185 0	0.0 0.2	2.1 1.0	-2.1 -0.9
16		MEHGAON-AURAIYA	1	124	0	0.7	0.0	0.7
17		MALANPUR-AURAIYA	1	74	19	1.6	0.0	1.6
18 19	132 kV 132 kV	GWALIOR-SAWAI MADHOPUR RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
T	ut/Ermont of WD	(With CD)			WR-NR	43.7	238.2	-194.5
1mpoi	rt/Export of WR (HVDC	BHADRAWATI B/B	-	0	1016	0.0	15.2	-15.2
2		RAIGARH-PUGALUR	2	0	998	0.0	29.9	-29.9
3		SOLAPUR-RAICHUR WARDHA-NIZAMABAD	2 2	1156 115	2235 2367	0.0	18.5 28.3	-18.5 -28.3
5	400 kV	KOLHAPUR-KUDGI	2	1344	0	16.1	0.0	16.1
7		KOLHAPUR-CHIKODI PONDA-AMBEWADI	2 1	0 1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	38	0.7	0.0	0.7
			ER (MIETE)	NATIONAL PROTES	WR-SR	16.8	91.9	-75.1
	Ctata	Dard		NATIONAL EXCHAI		N/1: /N/1997\	A war (B ATT)	Energy Exchange
<u> </u>	State	Region		Name U-ALIPURDUAR 1&2	Max (MW)	Min (MW)	Avg (MW)	(MU)
		ER	i.e. ALIPURDUAR RE		130	0	128	3.1
			MANGDECHU HEP 4 400kV TALA-BINAGU	*180MW)				
		ER	MALBASE - BINAGU	RI) i.e. BINAGURI	156	154	154	3.7
			RECEIPT (from TALA 220kV CHUKHA-BIR					
	BHUTAN	ER	MALBASE - BIRPAR	A) i.e. BIRPARA	30	0	4	0.1
			RECEIPT (from CHU	KHA HEP 4*84MW)				
		NER	132KV-GEYLEGPHU	- SALAKATI	-23	-5	13	0.3
		NER	132kV Motanga-Rangi	a	13	1	-7	-0.2
			132KV-TANAKPUR(N	VH) -				
		NR	MAHENDRANAGAR		-62	0	-56	-1.4
			400000 3 4000 1	IID DIII. 1 2700 1 5 5 5	242	400	22.	
		ER	400Kv-MUZAFFARP	UR - DHALKEBAR DC	-262	-180	-234	-5.6
	NEPAL	ER	132KV-BIHAR - NEP	AT.	-226	-1	-110	-2.6
	THE AL	EK	154A T-DIHAK - NEP	···	-220	-1	-110	-2.0
		ER	BHERAMARA HVDC	(BANGLADESH)	-804	-416	-549	-13.2
					337	.10		2012
B	ANGLADESH	NER	132KV-SURAJMANI I		53	0	-41	-1.0
			COMILLA(BANGLAI					
		NER	132KV-SURAJMANI I COMILLA(BANGLAI		53	0	-41	-1.0
			OMELAIDANGLAI					