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, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 1st Jan 2021

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 31.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 01-जनवरी -2021 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 1st January 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: 01-Jan-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)	53378	51158	39539	18555	2539	165169
Peak Shortage (MW)	870	0	0	149	48	1067
Energy Met (MU)	1039	1235	928	381	44	3627
Hydro Gen (MU)	105	53	94	36	12	300
Wind Gen (MU)	31	113	61	-	-	205
Solar Gen (MU)*	30.11	27.60	63.83	4.42	0.14	126
Energy Shortage (MU)	12.42	0.10	0.00	0.45	0.59	13.56
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53023	61479	46103	19644	2591	177625
Time Of Maximum Demand Met (From NLDC SCADA)	11:06	10:43	11:40	19:11	17:24	11:42

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	0.050	0.00	1.42	11.16	12.58	77.07	10.35

C. Power Supply Position in States

Region	States	Max.Demand Met during the day(MW)	Shortage during maximum Demand(MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	6014	0	120.2	64.2	-1.1	83	1.15
	Haryana	6574	0	133.0	98.6	-0.2	142	0.00
	Rajasthan	13784	0	263.9	94.2	0.9	336	0.00
	Delhi	4634	0	76.0	63.1	1.2	595	0.00
	UP	17968	170	308.7	101.1	-2.8	326	0.07
	Uttarakhand	2203	0	41.8	24.4	0.4	120	0.00
	HP	1880	0	34.2	28.7	0.0	235	0.00
	J&K(UT) & Ladakh(UT)	2919	550	56.4	48.6	1.9	561	11.20
	Chandigarh	273	0	4.4	4.2	0.2	24	0.00
WR	Chhattisgarh	4084	28	87.7	33.7	0.6	391	0.10
	Gujarat	16758	0	337.0	64.2	2.0	901	0.00
	MP	15447	0	300.8	172.2	0.7	387	0.00
	Maharashtra	23125	0	453.7	164.2	4.2	721	0.00
	Goa	488	0	10.4	9.6	0.3	45	0.00
	DD	315	0	7.1	6.9	0.2	40	0.00
	DNH	808	0	18.8	18.7	0.1	42	0.00
	AMNSIL	848	0	19.2	11.0	0.4	258	0.00
SR	Andhra Pradesh	8934	0	162.6	73.1	0.6	541	0.00
	Telangana	11316	0	208.6	91.2	-0.8	780	0.00
	Karnataka	11331	0	212.3	75.7	-1.0	643	0.00
	Kerala	3531	0	72.9	50.5	-0.5	247	0.00
	Tamil Nadu	12899	0	264.8	152.2	-1.1	555	0.00
	Puducherry	347	0	6.7	7.0	-0.3	39	0.00
ER	Bihar	5003	0	87.2	86.8	-1.2	208	0.00
	DVC	3109	0	66.7	-41.1	-0.3	282	0.00
	Jharkhand	1597	149	27.2	22.3	-2.2	128	0.45
	Odisha	4404	0	81.1	10.9	0.0	533	0.00
	West Bengal	6281	0	116.9	15.3	0.1	571	0.00
	Sikkim	128	0	2.1	1.9	0.2	47	0.00
NER	Arunachal Pradesh	133	1	2.2	2.3	-0.3	39	0.01
	Assam	1423	22	24.3	19.2	0.1	102	0.55
	Manipur	248	2	3.1	3.5	-0.4	29	0.01
	Meghalaya	386	0	6.8	4.3	0.1	51	0.00
	Mizoram	105	2	1.6	1.6	-0.4	44	0.01
	Nagaland	142	1	2.3	2.3	-0.2	23	0.01
	Tripura	217	0	3.7	3.0	-0.4	59	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.1	-11.7	-16.1
Day Peak (MW)	353.0	-617.0	-934.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	279.4	-315.0	127.5	-94.8	2.0	-0.9
Actual(MU)	273.6	-323.6	129.2	-88.7	1.5	-8.0
O/D/U/D(MU)	-5.8	-8.6	1.8	6.1	-0.6	-7.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4910	11133	8662	2810	539	28053
State Sector	11278	16636	12207	5282	11	45413
Total	16188	27768	20869	8092	550	73467

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	518	1318	472	465	7	2780
Lignite	27	11	28	0	0	66
Hydro	105	53	94	36	12	300
Nuclear	24	21	40	0	0	85
Gas, Naptha & Diesel	25	26	13	0	28	90
RES (Wind, Solar, Biomass & Others)	90	142	164	4	0	400
Total	787	1570	811	505	47	3721
Share of RES in total generation (%)	11.38	9.03	20.27	0.88	0.30	10.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.68	13.72	36.77	8.04	26.68	21.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.068

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.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 01-Jan-2021

Sl No	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	PUSAULI B/B	-	0	249	0.0	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	1141	0.0	15.2	-15.2
4	765 kV	SASARAM-FATEHPUR	1	19	316	0.0	2.8	-2.8
5	765 kV	GAYA-BALIA	1	0	556	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	181	0.0	3.6	-3.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	131	0.0	2.2	-2.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	801	0.0	7.9	-7.9
9	400 kV	PATNA-BALIA	4	0	1254	0.0	16.9	-16.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	538	0.0	5.8	-5.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	339	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	39	215	0.0	0.4	-0.4
13	220 kV	PUSAULI-SAHUPURI	1	75	41	0.5	0.0	0.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	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
					ER-NR	0.9	75.0	-74.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1543	0	19.3	0.0	19.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	686	326	5.6	0.0	5.6
3	765 kV	JHARSUGUDA-DURG	2	163	192	0.0	0.6	-0.6
4	400 kV	JHARSUGUDA-RAIGARH	4	337	288	0.0	0.2	-0.2
5	400 kV	RANCHI-SIPAT	2	280	115	2.1	0.0	2.1
6	220 kV	BUDHIPADAR-RAIGARH	1	11	148	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	83	46	0.6	0.0	0.6
					ER-WR	27.6	2.6	25.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	542	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2462	0.0	39.1	-39.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2608	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	698	674	0.3	0.0	0.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	96.7	-96.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	249	0	5.1	0.0	5.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	401	0	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	66	3	0.8	0.0	0.8
					ER-NER	11.3	0.0	11.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.3	0.0	11.3
					NER-NR	11.3	0.0	11.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	54.1	-54.1
2	HVDC	VINDHYACHAL B/B	-	190	0	4.6	0.0	4.6
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1928	0.0	43.6	-43.6
4	765 kV	GWALIOR-AGRA	2	0	2881	0.0	46.0	-46.0
5	765 kV	PHAGI-GWALIOR	2	0	1701	0.0	24.2	-24.2
6	765 kV	JABALPUR-ORAI	2	0	1094	0.0	37.5	-37.5
7	765 kV	GWALIOR-ORAI	1	942	0	14.6	0.0	14.6
8	765 kV	SATNA-ORAI	1	0	1668	0.0	31.1	-31.1
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1428	0.0	20.4	-20.4
10	400 kV	ZERDA-KANKROLI	1	28	228	0.0	1.8	-1.8
11	400 kV	ZERDA -BHINMAL	1	146	407	0.0	2.9	-2.9
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	110	479	0.2	4.4	-4.2
14	220 kV	BHANPURA-RANPUR	1	0	160	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	124	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	73	11	1.6	0.0	1.6
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	44.2	269.7	-225.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	13.1	-13.1
2	HVDC	RAIGARH-PUGALUR	2	0	1491	0.0	13.6	-13.6
3	765 kV	SOLAPUR-RAICHUR	2	270	2256	0.0	28.8	-28.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2737	0.0	39.2	-39.2
5	400 kV	KOLHAPUR-KUDGI	2	1449	0	19.5	0.0	19.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	47	1.8	0.0	1.8
					WR-SR	21.3	94.6	-73.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	129	0	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	167	118	131	3.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	21	6	8	0.2
	NER	132KV-GEYLEGPHU - SALAKATI	27	7	14	0.3
	NER	132kV Motanga-Rangia	9	0	-1	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-56	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-254	-183	-249	-6.0
	ER	132KV-BIHAR - NEPAL	-302	-16	-182	-4.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-832	-348	-588	-14.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-41	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	51	0	-41	-1.0