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: 31st Dec 2020

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 30.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-दिसम्बर -2020 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 30th December 2020, 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: 31-Dec-2020**

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)	54199	51692	40761	19076	2583	168311
Peak Shortage (MW)	550	0	0	0	24	574
Energy Met (MU)	1058	1230	956	379	44	3666
Hydro Gen (MU)	104	50	90	34	13	292
Wind Gen (MU)	24	120	69	-	-	212
Solar Gen (MU)*	34.95	29.16	91.73	4.62	0.14	161
Energy Shortage (MU)	11.98	0.10	0.00	0.00	0.54	12.62
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55062	60430	49605	19427	2586	182888
Time Of Maximum Demand Met (From NLDC SCADA)	10:37	09:48	09:25	18:21	17:47	09:48

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	0.042	0.00	0.24	9.77	10.01	77.16	12.82

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	6386	0	124.7	64.5	-0.9	159	0.33
	Haryana	6693	0	135.9	100.0	0.8	298	0.29
	Rajasthan	13803	0	265.9	99.6	0.1	434	0.00
	Delhi	4608	0	76.0	59.2	1.1	339	0.01
	UP	18126	0	316.6	106.5	-0.7	589	0.15
	Uttarakhand	2218	0	42.3	24.4	0.8	192	0.00
	HP	1892	31	34.9	28.4	0.9	248	0.00
	J&K(UT) & Ladakh(UT)	2772	550	57.2	49.1	3.5	383	11.20
	Chandigarh	272	0	4.6	4.2	0.4	45	0.00
WR	Chhattisgarh	4024	0	86.2	35.6	-0.1	308	0.00
	Gujarat	15976	0	330.7	61.8	-0.8	860	0.00
	MP	15547	0	300.2	170.5	-2.2	298	0.00
	Maharashtra	23403	0	458.1	172.5	-1.0	889	0.00
	Goa	480	0	10.3	9.7	0.0	31	0.10
	DD	328	0	6.8	6.7	0.1	29	0.00
	DNH	835	0	19.1	18.8	0.3	46	0.00
	AMNSIL	861	0	18.2	10.8	-0.2	278	0.00
SR	Andhra Pradesh	8885	0	165.9	75.1	-0.3	307	0.00
	Telangana	11019	0	206.9	86.0	-0.2	670	0.00
	Karnataka	12102	0	216.7	80.3	-0.8	646	0.00
	Kerala	3706	0	74.5	50.2	0.0	271	0.00
	Tamil Nadu	13811	0	285.1	158.9	0.4	560	0.00
	Puducherry	355	0	7.0	7.0	-0.1	53	0.00
ER	Bihar	4855	0	86.4	86.7	-1.7	198	0.00
	DVC	3131	0	65.0	-40.4	-0.6	74	0.00
	Jharkhand	1574	0	27.6	23.0	-2.6	244	0.00
	Odisha	4428	0	81.6	8.4	0.5	322	0.00
	West Bengal	6271	0	115.9	13.8	0.6	49	0.00
	Sikkim	141	0	2.3	1.9	0.3	364	0.00
NER	Arunachal Pradesh	138	1	2.3	2.3	-0.2	36	0.01
	Assam	1423	22	24.0	19.3	0.0	92	0.50
	Manipur	248	2	3.1	3.5	-0.5	29	0.01
	Meghalaya	386	0	6.8	4.1	0.3	35	0.00
	Mizoram	120	2	1.6	1.6	-0.4	18	0.01
	Nagaland	143	1	2.4	2.2	0.0	25	0.01
	Tripura	217	0	3.5	2.7	-0.4	32	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.2	-11.3	-15.7
Day Peak (MW)	301.0	-635.7	-935.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	289.1	-326.2	134.5	-100.2	2.8	0.0
Actual(MU)	283.9	-333.1	132.3	-96.8	2.7	-11.0
O/D/U/D(MU)	-5.2	-6.9	-2.2	3.4	-0.1	-11.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4910	10633	8912	2970	539	27963
State Sector	12538	17099	11937	5072	11	46656
Total	17448	27731	20849	8042	550	74620

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	520	1320	459	463	7	2769
Lignite	29	12	32	0	0	72
Hydro	104	50	90	34	13	292
Nuclear	24	21	40	0	0	85
Gas, Naptha & Diesel	28	24	13	0	26	91
RES (Wind, Solar, Biomass & Others)	88	151	198	5	0	442
Total	793	1578	832	502	46	3751
Share of RES in total generation (%)	11.16	9.55	23.81	0.92	0.31	11.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.28	14.06	39.48	7.78	27.87	21.82

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.045

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: 31-Dec-2020

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	6.6	-6.6
3	765 kV	GAYA-VARANASI	2	0	1105	0.0	14.6	-14.6
4	765 kV	SASARAM-FATEHPUR	1	15	332	0.0	3.1	-3.1
5	765 kV	GAYA-BALIA	1	0	562	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	186	0.0	3.5	-3.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	261	0.0	2.5	-2.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	828	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	4	0	1200	0.0	16.5	-16.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	498	0.0	6.1	-6.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	325	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	18	174	0.0	0.7	-0.7
13	220 kV	PUSAULI-SAHUPURI	1	73	55	1.7	0.0	1.7
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	2.1	75.7	-73.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1350	32	17.9	0.0	17.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	803	215	7.6	0.0	7.6
3	765 kV	JHARSUGUDA-DURG	2	238	392	0.0	1.4	-1.4
4	400 kV	JHARSUGUDA-RAIGARH	4	240	309	0.0	1.1	-1.1
5	400 kV	RANCHI-SIPAT	2	285	113	3.9	0.0	3.9
6	220 kV	BUDHIPADAR-RAIGARH	1	0	157	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	73	34	0.4	0.0	0.4
					ER-WR	29.8	4.6	25.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	535	0.0	9.5	-9.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	42.4	-42.4
3	765 kV	ANGUL-SRIKAKULAM	2	30492	2625	0.0	46.7	-46.7
4	400 kV	TALCHER-I/C	2	302	843	0.0	6.5	-6.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.6	-98.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	222	102	2.8	0.1	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	366	114	4.1	0.0	4.1
3	220 kV	ALIPURDUAR-SALAKATI	2	59	32	0.6	0.0	0.6
					ER-NER	7.5	0.1	7.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	10.8	0.0	10.8
					NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2007	0.0	49.1	-49.1
2	HVDC	VINDHYACHAL B/B	-	45	56	0.8	0.5	0.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1929	0.0	42.7	-42.7
4	765 kV	GWALIOR-AGRA	2	0	3026	0.0	51.5	-51.5
5	765 kV	PHAGI-GWALIOR	2	0	1659	0.0	22.1	-22.1
6	765 kV	JABALPUR-ORAI	2	0	1094	0.0	37.8	-37.8
7	765 kV	GWALIOR-ORAI	1	697	0	11.1	0.0	11.1
8	765 kV	SATNA-ORAI	1	0	1471	0.0	29.5	-29.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1516	0.0	21.8	-21.8
10	400 kV	ZERDA-KANKROLI	1	31	211	0.0	2.1	-2.1
11	400 kV	ZERDA -BHINMAL	1	94	415	0.0	4.0	-4.0
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	28	563	0.0	4.8	-4.8
14	220 kV	BHANPURA-RANPUR	1	0	200	0.0	2.9	-2.9
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.8	-1.8
16	220 kV	MEHGAON-AURAIYA	1	112	0	0.5	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	60	16	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	36.7	270.4	-233.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.0	-16.0
2	HVDC	RAIGARH-PUGALUR	2	0	1502	0.0	16.0	-16.0
3	765 kV	SOLAPUR-RAICHUR	2	566	2130	0.0	26.3	-26.3
4	765 kV	WARDHA-NIZAMABAD	2	0	2468	0.0	37.2	-37.2
5	400 kV	KOLHAPUR-KUDGI	2	1456	0	20.5	0.0	20.5
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	46	0.8	0.0	0.8
					WR-SR	21.3	95.5	-74.2

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)	134	0	118	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	121	0	104	2.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	15	0	-5	-0.1
	NER	132KV-GEYLEGPHU - SALAKATI	24	7	13	0.3
	NER	132kV Motanga-Rangia	7	1	1	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-56	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-285	-220	-255	-6.1
	ER	132KV-BIHAR - NEPAL	-290	-19	-161	-3.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-830	-346	-575	-13.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-40	-1.0