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: 28th 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 27.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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: 28-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)	47891	49639	36570	17326	2469	153895
Peak Shortage (MW)	800	0	0	0	29	829
Energy Met (MU)	983	1222	885	357	44	3490
Hydro Gen (MU)	108	36	64	32	12	251
Wind Gen (MU)	26	74	23	-	-	124
Solar Gen (MU)*	33.30	31.04	97.07	4.49	0.07	166
Energy Shortage (MU)	11.26	0.00	0.00	0.00	0.64	11.90
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52350	59727	44253	17998	2527	172944
Time Of Maximum Demand Met (From NLDC SCADA)	09:31	10:31	09:59	19:41	17:32	10:39

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	0.022	0.00	0.00	1.17	1.17	82.57	16.26

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	5660	0	110.4	67.2	-3.5	75	0.00
	Haryana	6126	0	120.4	94.0	0.3	197	0.00
	Rajasthan	13806	0	255.7	85.1	-0.9	516	0.00
	Delhi	4041	0	65.1	48.2	0.0	271	0.00
	UP	17571	0	304.8	97.9	-1.3	564	0.06
	Uttarakhand	2146	0	38.8	20.4	0.9	251	0.00
	HP	1718	0	31.2	26.4	-0.7	242	0.00
	J&K(UT) & Ladakh(UT)	2850	550	53.5	50.0	-1.0	135	11.20
	Chandigarh	219	0	3.6	3.6	0.0	18	0.00
WR	Chhattisgarh	3995	0	86.3	37.0	-1.5	220	0.00
	Gujarat	16150	0	333.7	78.5	1.2	898	0.00
	MP	15041	0	297.1	179.6	-2.9	546	0.00
	Maharashtra	22471	0	450.3	179.1	-0.7	603	0.00
	Goa	439	0	9.3	9.2	-0.3	35	0.00
	DD	304	0	7.0	6.7	0.3	24	0.00
	DNH	793	0	18.6	18.4	0.2	35	0.00
	AMNSIL	861	0	19.2	11.0	0.4	283	0.00
SR	Andhra Pradesh	8668	0	162.3	82.9	0.3	933	0.00
	Telangana	10255	0	192.1	84.7	-0.6	533	0.00
	Karnataka	10687	0	199.5	81.8	0.3	636	0.00
	Kerala	3237	0	63.8	54.4	0.2	225	0.00
	Tamil Nadu	12567	0	260.8	163.1	-0.2	503	0.00
	Puducherry	300	0	6.1	6.4	-0.3	37	0.00
ER	Bihar	4929	0	86.0	83.8	0.9	687	0.00
	DVC	2988	0	64.3	-36.0	-1.5	210	0.00
	Jharkhand	1446	0	27.3	23.0	-2.8	0	0.00
	Odisha	3720	0	67.3	-1.6	-0.8	289	0.00
	West Bengal	5642	0	110.0	0.1	0.1	600	0.00
	Sikkim	133	0	2.1	1.7	0.4	52	0.00
NER	Arunachal Pradesh	137	1	2.2	2.2	-0.2	39	0.01
	Assam	1362	8	24.1	19.1	1.6	125	0.60
	Manipur	234	2	3.0	3.5	-0.5	27	0.01
	Meghalaya	355	0	6.9	4.3	0.2	49	0.00
	Mizoram	115	1	1.7	1.5	-0.2	29	0.01
	Nagaland	139	2	2.8	2.3	0.4	15	0.01
	Tripura	214	1	3.4	2.8	-0.5	37	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.3	-10.8	-15.6
Day Peak (MW)	324.0	-614.7	-926.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	245.0	-289.3	152.2	-110.3	2.4	0.0
Actual(MU)	228.0	-273.7	153.8	-114.6	2.7	-3.9
O/D/U/D(MU)	-17.0	15.6	1.6	-4.3	0.3	-3.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4530	10545	7692	1970	289	25025
State Sector	10058	15476	12417	4222	11	42183
Total	14588	26020	20109	6192	300	67209

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	507	1303	409	461	6	2686
Lignite	22	11	34	0	0	67
Hydro	108	36	64	32	12	251
Nuclear	23	33	65	0	0	121
Gas, Naptha & Diesel	28	26	13	0	28	95
RES (Wind, Solar, Biomass & Others)	88	107	156	5	0	356
Total	776	1515	741	497	46	3576
Share of RES in total generation (%)	11.36	7.04	21.08	0.91	0.15	9.95
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.23	11.58	38.47	7.35	25.62	20.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.048

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: 28-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	1057	0.0	12.5	-12.5
4	765 kV	SASARAM-FATEHPUR	1	40	313	0.0	2.5	-2.5
5	765 kV	GAYA-BALIA	1	0	542	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.3	-4.3
7	400 kV	PUSAULI -ALLAHABAD	1	0	109	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	49	878	0.0	8.0	-8.0
9	400 kV	PATNA-BALIA	4	0	1140	0.0	13.2	-13.2
10	400 kV	BIHARSHARIFF-BALIA	2	0	421	0.0	4.9	-4.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	355	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFF-VARANASI	2	84	308	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	80	40	0.7	0.0	0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	1.1	67.1	-66.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1081	0	11.6	0.0	11.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1031	235	8.6	0.0	8.6
3	765 kV	JHARSUGUDA-DURG	2	170	238	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	0	569	0.0	6.7	-6.7
5	400 kV	RANCHI-SIPAT	2	290	141	1.7	0.0	1.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	152	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	45	72	0.0	0.1	-0.1
					ER-WR	21.9	10.8	11.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	481	0.0	11.0	-11.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1994	0.0	47.9	-47.9
3	765 kV	ANGUL-SRIKAKULAM	2	30671	2882	0.0	52.6	-52.6
4	400 kV	TALCHER-I/C	2	0	979	0.0	7.8	-7.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	111.4	-111.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	242	89	2.2	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	396	108	3.4	0.0	3.4
3	220 kV	ALIPURDUAR-SALAKATI	2	62	30	0.4	0.0	0.4
					ER-NER	6.0	0.0	6.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	490	0	9.3	0.0	9.3
					NER-NR	9.3	0.0	9.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2006	0.0	33.4	-33.4
2	HVDC	VINDHYACHAL B/B	-	0	56	0.0	1.2	-1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1461	0.0	34.9	-34.9
4	765 kV	GWALIOR-AGRA	2	0	2772	0.0	42.8	-42.8
5	765 kV	PHAGI-GWALIOR	2	0	1759	0.0	23.2	-23.2
6	765 kV	JABALPUR-ORAI	2	0	1053	0.0	33.5	-33.5
7	765 kV	GWALIOR-ORAI	1	704	0	11.8	0.0	11.8
8	765 kV	SATNA-ORAI	1	0	1430	0.0	27.7	-27.7
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1039	0.0	9.4	-9.4
10	400 kV	ZERDA-KANKROLI	1	100	140	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	170	349	0.0	2.2	-2.2
12	400 kV	VINDHYACHAL -RIHAND	1	969	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	211	436	0.5	2.9	-2.3
14	220 kV	BHANPURA-RANPUR	1	23	163	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.9	-0.7
16	220 kV	MEHGAON-AURAIYA	1	138	0	0.9	0.0	0.9
17	220 kV	MALANPUR-AURAIYA	1	132	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	37.5	215.0	-177.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	17.7	-17.7
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	16.5	-16.5
3	765 kV	SOLAPUR-RAICHUR	2	463	2127	0.0	27.4	-27.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2644	0.0	38.7	-38.7
5	400 kV	KOLHAPUR-KUDGI	2	1083	0	14.0	0.0	14.0
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	40	1.5	0.0	1.5
					WR-SR	15.6	100.3	-84.8

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)	127	95	110	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	140	137	138	3.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	33	0	3	0.1
	NER	132KV-GEYLEGPHU - SALAKATI	21	6	-10	-0.2
	NER	132kV Motanga-Rangia	3	0	-2	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-63	0	-54	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-268	-206	-257	-6.2
	ER	132KV-BIHAR - NEPAL	-284	-3	-137	-3.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-822	-341	-571	-13.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-40	-1.0