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: 30th 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 29.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 29-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 29th 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: 30-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)	52951	52145	40909	18383	2525	166913
Peak Shortage (MW)	550	0	0	40	37	627
Energy Met (MU)	1043	1234	950	372	43	3642
Hydro Gen (MU)	105	40	82	33	12	272
Wind Gen (MU)	20	93	48	-	-	160
Solar Gen (MU)*	37.29	30.88	86.88	4.64	0.12	160
Energy Shortage (MU)	11.20	0.00	0.00	0.12	0.65	11.97
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55189	60880	46637	18868	2574	177815
Time Of Maximum Demand Met (From NLDC SCADA)	10:21	10:50	13:03	18:24	17:46	09:50

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	0.040	0.00	1.09	6.20	7.29	75.19	17.52

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	6276	0	124.0	65.6	-1.0	68	0.00
	Haryana	6657	0	135.6	100.0	0.2	188	0.00
	Rajasthan	13813	0	264.2	98.1	1.6	515	0.00
	Delhi	4376	0	70.6	54.5	-1.2	354	0.00
	UP	18185	0	312.1	104.4	0.4	796	0.00
	Uttarakhand	2188	0	41.8	23.8	0.4	163	0.00
	HP	1876	0	35.0	28.9	0.3	223	0.00
	J&K(UT) & Ladakh(UT)	3017	550	55.0	51.0	-0.5	457	11.20
	Chandigarh	255	0	4.2	4.1	0.1	30	0.00
WR	Chhattisgarh	4076	0	87.3	34.5	-0.1	217	0.00
	Gujarat	16250	0	335.1	73.7	-0.6	476	0.00
	MP	15234	0	298.0	173.5	-2.4	454	0.00
	Maharashtra	23181	0	459.0	177.1	-3.1	724	0.00
	Goa	458	0	10.2	9.8	-0.2	43	0.00
	DD	332	0	7.3	7.2	0.2	26	0.00
	DNH	829	0	19.0	18.8	0.2	50	0.00
	AMNSIL	827	0	18.4	10.7	0.1	273	0.00
SR	Andhra Pradesh	8601	0	166.0	73.9	-0.9	398	0.00
	Telangana	10946	0	204.0	84.2	-1.8	820	0.00
	Karnataka	11859	0	216.3	81.4	0.5	697	0.00
	Kerala	3680	0	72.2	54.3	0.4	337	0.00
	Tamil Nadu	14238	0	284.9	170.3	-0.3	957	0.00
	Puducherry	334	0	6.5	6.9	-0.4	31	0.00
ER	Bihar	4921	0	86.7	86.0	-0.6	332	0.00
	DVC	3035	0	65.7	-40.1	-0.1	245	0.00
	Jharkhand	1489	0	27.9	22.7	-1.9	24	0.12
	Odisha	3906	0	72.8	0.6	-0.4	353	0.00
	West Bengal	6331	0	116.1	17.0	0.3	372	0.00
	Sikkim	144	0	2.4	1.9	0.5	47	0.00
NER	Arunachal Pradesh	122	1	2.3	2.2	0.0	50	0.01
	Assam	1392	28	24.0	19.5	0.5	103	0.60
	Manipur	214	2	3.0	3.6	-0.5	37	0.01
	Meghalaya	377	0	6.6	4.0	0.0	44	0.00
	Mizoram	112	2	1.6	1.5	-0.2	16	0.01
	Nagaland	129	1	2.3	2.1	0.1	21	0.02
	Tripura	217	0	3.4	2.6	-0.4	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.2	-11.5	-15.7
Day Peak (MW)	323.0	-646.2	-931.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	284.0	-311.7	131.2	-106.0	2.6	0.0
Actual(MU)	276.6	-314.7	135.4	-104.8	3.2	-4.3
O/D/U/D(MU)	-7.4	-3.0	4.2	1.2	0.7	-4.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4910	10365	8662	2970	539	27445
State Sector	11838	16599	11137	4472	11	44056
Total	16748	26963	19799	7442	550	71502

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	524	1337	472	467	7	2806
Lignite	26	12	39	0	0	77
Hydro	105	40	82	33	12	272
Nuclear	24	29	49	0	0	102
Gas, Naptha & Diesel	29	25	13	0	25	92
RES (Wind, Solar, Biomass & Others)	87	125	175	5	0	392
Total	794	1567	830	504	45	3740
Share of RES in total generation (%)	10.98	7.96	21.10	0.92	0.27	10.47
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	27.11	12.36	36.89	7.43	27.68	20.45

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
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: 30-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	248	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	1028	0.0	13.0	-13.0
4	765 kV	SASARAM-FATEHPUR	1	43	288	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	536	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	197	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	117	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	777	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	1143	0.0	16.1	-16.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	478	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	338	0.0	5.4	-5.4
12	400 kV	BIHARSHARIFF-VARANASI	2	70	128	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	1	73	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	0.3	0.0	0.3
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	0.8	70.6	-69.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1083	274	9.7	0.0	9.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	924	241	7.6	0.0	7.6
3	765 kV	JHARSUGUDA-DURG	2	220	199	0.0	2.5	-2.5
4	400 kV	JHARSUGUDA-RAIGARH	4	162	350	0.0	2.4	-2.4
5	400 kV	RANCHI-SIPAT	2	312	96	2.6	0.0	2.6
6	220 kV	BUDHIPADAR-RAIGARH	1	0	157	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	55	26	0.4	0.0	0.4
					ER-WR	20.2	7.1	13.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1986	0.0	45.4	-45.4
3	765 kV	ANGUL-SRIKAKULAM	2	14486	4702	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	252	808	0.0	4.4	-4.4
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	101.5	-101.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	227	111	2.1	0.0	2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	350	131	3.5	0.0	3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	55	35	0.5	0.0	0.5
					ER-NER	6.1	0.0	6.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	0	9.6	0.0	9.6
					NER-NR	9.6	0.0	9.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2002	0.0	64.3	-64.3
2	HVDC	VINDHYACHAL B/B	-	190	56	3.3	0.0	3.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1741	0.0	27.4	-27.4
4	765 kV	GWALIOR-AGRA	2	0	3019	0.0	49.7	-49.7
5	765 kV	PHAGI-GWALIOR	2	0	1575	0.0	21.7	-21.7
6	765 kV	JABALPUR-ORAI	2	0	1084	0.0	36.4	-36.4
7	765 kV	GWALIOR-ORAI	1	649	0	11.0	0.0	11.0
8	765 kV	SATNA-ORAI	1	0	1467	0.0	29.2	-29.2
9	765 kV	CHITORGARH-BANASKANTHA	2	53	1598	0.0	19.8	-19.8
10	400 kV	ZERDA-KANKROLI	1	110	241	0.0	2.0	-2.0
11	400 kV	ZERDA -BHINMAL	1	131	408	0.0	4.5	-4.5
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	88	591	0.1	5.0	-4.9
14	220 kV	BHANPURA-RANPUR	1	0	206	0.0	2.8	-2.8
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.6
16	220 kV	MEHGAON-AURAIYA	1	122	0	0.6	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	70	23	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	39.1	264.4	-225.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	16.8	-16.8
2	HVDC	RAIGARH-PUGALUR	2	0	992	0.0	13.1	-13.1
3	765 kV	SOLAPUR-RAICHUR	2	448	2347	0.0	27.5	-27.5
4	765 kV	WARDHA-NIZAMABAD	2	0	2473	0.0	37.0	-37.0
5	400 kV	KOLHAPUR-KUDGI	2	1211	0	16.9	0.0	16.9
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	45	0.8	0.0	0.8
					WR-SR	17.7	94.4	-76.7

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)	124	118	118	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	139	135	138	3.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	25	0	2	0.0
	NER	132KV-GEYLEGPHU - SALAKATI	25	7	13	0.3
	NER	132kV Motanga-Rangia	8	2	2	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-63	0	-56	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-290	-175	-261	-6.3
	ER	132KV-BIHAR - NEPAL	-293	-15	-162	-3.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-824	-342	-570	-13.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-50	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-32	-0.8