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: 13th 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 12.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	46583	49266	38574	17079	2443	153945
Peak Shortage (MW)	500	0	0	0	44	544
Energy Met (MU)	894	1133	859	349	43	3277
Hydro Gen (MU)	123	39	65	41	13	282
Wind Gen (MU)	4	38	41	-	-	83
Solar Gen (MU)*	32.43	17.20	102.83	3.92	0.09	156
Energy Shortage (MU)	10.00	0.00	0.00	0.00	0.73	10.73
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46583	54498	40944	17605	2509	156343
Time Of Maximum Demand Met (From NLDC SCADA)	19:00	10:46	08:45	17:59	17:28	10:40

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	0.028	0.00	0.03	2.97	3.01	76.91	20.08

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	5692	0	106.7	70.2	-2.0	186	0.00
	Haryana	6119	0	118.9	92.9	0.1	172	0.00
	Rajasthan	12651	0	242.5	81.4	0.3	469	0.00
	Delhi	3297	0	58.4	44.7	0.3	247	0.00
	UP	14820	0	258.2	88.5	0.0	489	0.00
	Uttarakhand	1787	0	35.3	22.0	-0.6	213	0.00
	HP	1511	0	28.6	23.0	-1.1	201	0.00
	J&K(UT) & Ladakh(UT)	2547	500	42.4	38.5	-3.1	308	10.00
	Chandigarh	184	0	3.1	3.2	-0.1	10	0.00
WR	Chhattisgarh	3595	0	79.1	22.6	-0.2	288	0.00
	Gujarat	15188	0	325.1	70.6	4.0	729	0.00
	MP	11058	0	219.5	132.9	-0.1	954	0.00
	Maharashtra	22300	0	456.2	153.2	-3.3	605	0.00
	Goa	461	0	9.5	9.5	0.0	44	0.00
	DD	334	0	7.6	7.1	0.4	38	0.00
	DNH	800	0	18.5	18.1	0.4	62	0.00
	AMNSIL	829	0	17.3	5.5	1.0	311	0.00
SR	Andhra Pradesh	7485	0	151.6	66.2	0.3	442	0.00
	Telangana	9097	0	171.9	61.4	1.6	596	0.00
	Karnataka	10302	0	192.9	70.9	1.1	924	0.00
	Kerala	3545	0	72.5	53.7	1.4	203	0.00
	Tamil Nadu	12804	0	262.8	172.0	0.2	554	0.00
	Puducherry	350	0	6.9	7.3	-0.4	23	0.00
ER	Bihar	4208	0	74.9	73.4	0.2	464	0.00
	DVC	2981	0	62.2	-35.2	1.1	258	0.00
	Jharkhand	1521	0	25.3	22.1	-1.4	84	0.00
	Odisha	3906	0	70.1	10.2	0.9	512	0.00
	West Bengal	6223	0	114.1	12.6	0.1	520	0.00
	Sikkim	143	0	2.0	1.9	0.2	40	0.00
NER	Arunachal Pradesh	118	1	2.1	2.1	0.0	21	0.01
	Assam	1404	6	23.9	19.3	0.4	84	0.69
	Manipur	215	3	3.2	3.4	-0.3	21	0.01
	Meghalaya	352	2	6.5	4.0	0.0	31	0.00
	Mizoram	104	1	1.7	1.2	0.1	43	0.01
	Nagaland	134	1	2.4	1.9	0.3	24	0.01
	Tripura	233	1	3.4	2.7	-0.2	53	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.8	-5.4	-12.6
Day Peak (MW)	525.0	-316.8	-788.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	246.4	-270.7	133.1	-108.1	-0.6	0.0
Actual(MU)	235.3	-269.8	133.1	-104.6	-0.5	-6.5
O/D/U/D(MU)	-11.1	0.9	0.1	3.5	0.0	-6.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7035	15745	9672	2380	539	35370
State Sector	13196	14493	12737	5642	11	46078
Total	20231	30237	22409	8022	550	81448

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	427	1199	392	427	7	2452
Lignite	22	12	28	0	0	62
Hydro	123	39	65	41	13	282
Nuclear	28	28	57	0	0	114
Gas, Naptha & Diesel	23	48	12	0	28	111
RES (Wind, Solar, Biomass & Others)	66	57	179	4	0	306
Total	689	1383	734	472	48	3327

Share of RES in total generation (%)	9.58	4.11	24.41	0.83	0.19	9.20
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.52	8.97	41.14	9.47	27.94	21.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.037
Based on State Max Demands	1.076

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: 13-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	299	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	895	0.0	10.8	-10.8
4	765 kV	SASARAM-FATEHPUR	1	130	268	0.0	1.7	-1.7
5	765 kV	GAYA-BALIA	1	0	475	0.0	6.9	-6.9
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	2.6	-2.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	312	0.0	4.5	-4.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	20	726	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	1112	0.0	15.8	-15.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	378	0.0	4.2	-4.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	352	0.0	5.9	-5.9
12	400 kV	BIHARSHARIFF-VARANASI	2	107	280	0.0	1.3	-1.3
13	220 kV	PUSAULI-SAHUPURI	1	72	39	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	69.2	-68.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	439	153	4.6	0.0	4.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	570	383	5.9	0.0	5.9
3	765 kV	JHARSUGUDA-DURG	2	55	216	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	241	14	0.6	0.0	0.6
5	400 kV	RANCHI-SIPAT	2	187	146	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	19	90	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	116	23	1.1	0.0	1.1
					ER-WR	14.2	2.9	11.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	523	0.0	12.3	-12.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1983	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2562	0.0	44.1	-44.1
4	400 kV	TALCHER-I/C	2	438	903	0.0	8.2	-8.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	94.7	-94.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	263	27	3.1	0.0	3.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	414	39	5.8	0.0	5.8
3	220 kV	ALIPURDUAR-SALAKATI	2	65	20	0.7	0.0	0.7
					ER-NER	9.6	0.0	9.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	461	0	9.4	0.0	9.4
					NER-NR	9.4	0.0	9.4
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	36.6	-36.6
2	HVDC	VINDHYACHAL B/B	-	48	0	5.0	0.0	5.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1646	0.0	38.7	-38.7
4	765 kV	GWALIOR-AGRA	2	0	2745	0.0	47.9	-47.9
5	765 kV	PHAGI-GWALIOR	2	0	1650	0.0	23.7	-23.7
6	765 kV	JABALPUR-ORAI	2	0	1070	0.0	31.1	-31.1
7	765 kV	GWALIOR-ORAI	1	649	0	11.6	0.0	11.6
8	765 kV	SATNA-ORAI	1	0	1502	0.0	30.2	-30.2
9	765 kV	CHITORGARH-BANASKANTHA	2	41	706	0.0	7.6	-7.6
10	400 kV	ZERDA-KANKROLI	1	63	138	0.0	0.4	-0.4
11	400 kV	ZERDA -BHINMAL	1	0	383	0.0	4.1	-4.1
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	40	433	0.0	3.7	-3.7
14	220 kV	BHANPURA-RANPUR	1	0	226	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	107	0	0.4	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	71	22	1.0	0.0	1.0
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	40.3	227.6	-187.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	19.6	-19.6
2	HVDC	RAIGARH-PUGALUR	2	0	0	0.0	23.5	-23.5
3	765 kV	SOLAPUR-RAICHUR	2	592	2294	0.0	18.4	-18.4
4	765 kV	WARDHA-NIZAMABAD	2	190	2122	0.0	22.3	-22.3
5	400 kV	KOLHAPUR-KUDGI	2	642	0	11.7	0.0	11.7
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	43	0.8	0.0	0.8
					WR-SR	12.5	83.7	-71.3

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)	155	153	154	3.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	328	188	189	4.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	53	0	25	0.6
	NER	132KV-GEYLEGPHU - SALAKATI	-23	-5	13	0.3
	NER	132kV Motanga-Rangia	13	1	-7	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-56	0	-43	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-260	-152	-178	-4.3
	ER	132KV-BIHAR - NEPAL	-1	-1	-1	-0.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-678	-316	-441	-10.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-42	-1.0