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: 10th 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 09.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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: 10-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)	47399	51159	37496	17783	2508	156345
Peak Shortage (MW)	500	0	0	0	45	545
Energy Met (MU)	961	1243	826	343	43	3416
Hydro Gen (MU)	122	41	71	40	13	287
Wind Gen (MU)	15	17	45	-	-	78
Solar Gen (MU)*	31.79	29.36	77.63	4.37	0.10	143
Energy Shortage (MU)	10.24	0.00	0.00	0.00	0.56	10.80
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49391	59737	40164	17854	2579	164725
Time Of Maximum Demand Met (From NLDC SCADA)	10:15	10:52	09:27	19:06	17:59	10:31

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	0.031	0.00	0.00	2.84	2.84	75.10	22.06

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	6662	0	126.6	74.0	-2.0	72	0.00
	Haryana	6613	0	133.1	103.3	0.8	258	0.00
	Rajasthan	13214	0	253.4	85.7	0.1	356	0.00
	Delhi	3604	0	62.6	45.9	0.0	334	0.00
	UP	14688	0	261.9	87.4	0.9	457	0.24
	Uttarakhand	1963	0	36.6	22.9	-0.3	116	0.00
	HP	1695	0	30.8	24.4	-0.6	88	0.00
	J&K(UT) & Ladakh(UT)	2661	500	52.3	47.3	-0.7	255	10.00
	Chandigarh	204	0	3.3	3.2	0.1	20	0.00
WR	Chhattisgarh	3652	0	80.9	29.5	0.2	272	0.00
	Gujarat	16052	0	346.7	68.2	2.6	461	0.00
	MP	14640	0	289.9	182.2	0.1	797	0.00
	Maharashtra	23138	0	472.6	154.1	-1.3	708	0.00
	Goa	523	0	10.7	10.7	0.0	121	0.00
	DD	340	0	7.5	7.2	0.3	312	0.00
	DNH	804	0	18.4	18.0	0.4	104	0.00
	AMNSIL	872	0	16.0	1.7	0.6	401	0.00
SR	Andhra Pradesh	7254	0	148.4	68.0	0.2	473	0.00
	Telangana	8681	0	173.5	53.9	6.6	521	0.00
	Karnataka	9718	0	178.4	59.1	0.4	814	0.00
	Kerala	3560	0	72.5	51.3	0.9	209	0.00
	Tamil Nadu	12373	0	246.8	160.2	-0.3	530	0.00
	Puducherry	345	0	6.8	7.3	-0.5	43	0.00
ER	Bihar	4217	0	73.6	71.5	0.8	270	0.00
	DVC	3033	0	61.5	-42.8	-0.7	342	0.00
	Jharkhand	1440	0	23.9	20.7	-1.8	152	0.00
	Odisha	3770	0	67.9	-0.2	-0.6	310	0.00
	West Bengal	6325	0	114.6	12.3	-0.2	426	0.00
	Sikkim	121	0	1.8	1.9	-0.1	15	0.00
NER	Arunachal Pradesh	122	1	2.3	2.3	0.0	14	0.01
	Assam	1498	22	23.8	19.4	0.4	105	0.50
	Manipur	230	1	3.1	3.4	-0.3	28	0.01
	Meghalaya	343	0	6.4	4.2	0.0	21	0.00
	Mizoram	119	1	1.7	1.5	-0.1	22	0.02
	Nagaland	133	1	2.3	1.9	0.2	19	0.02
	Tripura	215	2	3.3	3.1	-0.4	24	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	8.9	-6.1	-13.7
Day Peak (MW)	417.0	-443.7	-807.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	268.9	-284.6	134.7	-120.1	1.1	0.0
Actual(MU)	256.1	-268.0	132.5	-129.0	0.9	-7.5
O/D/U/D(MU)	-12.8	16.6	-2.2	-8.9	-0.2	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	13625	11382	2740	689	35401
State Sector	13116	12339	12827	4022	11	42315
Total	20082	25964	24209	6762	700	77716

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	450	1272	381	448	7	2558
Lignite	24	18	25	0	0	67
Hydro	122	41	71	40	13	287
Nuclear	28	33	48	0	0	109
Gas, Naptha & Diesel	25	105	13	0	27	170
RES (Wind, Solar, Biomass & Others)	75	59	158	4	0	297
Total	724	1528	696	493	47	3487

Share of RES in total generation (%)	10.39	3.86	22.70	0.88	0.21	8.51
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.02	8.67	39.84	9.07	27.81	19.85

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.061

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: 10-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	-	2	299	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	1042	0.0	14.1	-14.1
4	765 kV	SASARAM-FATEHPUR	1	0	403	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	485	0.0	7.7	-7.7
6	400 kV	PUSAULI-VARANASI	1	5	303	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	27	158	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	712	0.0	9.2	-9.2
9	400 kV	PATNA-BALIA	4	0	1199	0.0	17.8	-17.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	380	0.0	4.8	-4.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	339	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	35	319	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	56	36	0.4	0.0	0.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.6	0.0	0.6
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	1.0	78.3	-77.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	634	670	0.2	0.0	0.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	538	175	3.4	0.0	3.4
3	765 kV	JHARSUGUDA-DURG	2	12	234	0.0	2.8	-2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	133	345	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	183	115	0.5	0.0	0.5
6	220 kV	BUDHIPADAR-RAIGARH	1	12	101	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	96	62	0.5	0.0	0.5
					ER-WR	4.6	6.7	-2.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	482	0.0	8.5	-8.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1999	0.0	45.6	-45.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2665	0.0	43.9	-43.9
4	400 kV	TALCHER-I/C	2	0	893	0.0	14.1	-14.1
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.0	-98.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	281	19	4.0	0.0	4.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	437	2	5.9	0.0	5.9
3	220 kV	ALIPURDUAR-SALAKATI	2	69	30	0.7	0.0	0.7
					ER-NER	10.7	0.0	10.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	469	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	46.6	-46.6
2	HVDC	VINDHYACHAL B/B	-	0	202	0.0	4.9	-4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	43.0	-43.0
4	765 kV	GWALIOR-AGRA	2	0	2671	0.0	46.8	-46.8
5	765 kV	PHAGI-GWALIOR	2	0	1206	0.0	16.0	-16.0
6	765 kV	JABALPUR-ORAI	2	0	966	0.0	33.6	-33.6
7	765 kV	GWALIOR-ORAI	1	655	0	10.5	0.0	10.5
8	765 kV	SATNA-ORAI	1	0	1338	0.0	27.2	-27.2
9	765 kV	CHITORGARH-BANASKANTHA	2	28	1073	0.0	9.1	-9.1
10	400 kV	ZERDA-KANKROLI	1	100	206	0.0	0.5	-0.5
11	400 kV	ZERDA -BHINMAL	1	97	420	0.0	2.7	-2.7
12	400 kV	VINDHYACHAL -RIHAND	1	955	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	101	502	0.0	3.4	-3.4
14	220 kV	BHANPURA-RANPUR	1	6	170	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.8	-0.6
16	220 kV	MEHGAON-AURAIYA	1	116	0	0.5	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	74	16	1.1	0.0	1.1
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	34.5	236.5	-202.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	23.6	-23.6
2	HVDC	RAIGARH-PUGALUR	2	0	1500	0.0	21.9	-21.9
3	765 kV	SOLAPUR-RAICHUR	2	1135	2314	0.0	17.3	-17.3
4	765 kV	WARDHA-NIZAMABAD	2	795	1658	0.0	14.0	-14.0
5	400 kV	KOLHAPUR-KUDGI	2	740	57	8.4	0.0	8.4
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	9.3	76.7	-67.5

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	0	151	3.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	203	180	193	4.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	51	0	27	0.6
	NER	132KV-GEYLEGPHU - SALAKATI	17	3	8	0.2
	NER	132kV Motanga-Rangia	-8	-1	-5	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-53	0	-45	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-264	-92	-192	-4.6
	ER	132KV-BIHAR - NEPAL	-127	-1	-16	-0.4

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-703	-311	-489	-11.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-42	-1.0