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: 11th 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 10.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10–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 10th 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:** **11-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)	47613	50841	38028	17489	2469	156440
Peak Shortage (MW)	500	0	0	60	47	607
Energy Met (MU)	953	1248	832	342	44	3419
Hydro Gen (MU)	123	41	70	37	12	283
Wind Gen (MU)	23	21	49	-	-	92
Solar Gen (MU)*	31.94	36.57	99.78	4.23	0.09	173
Energy Shortage (MU)	10.38	0.00	0.00	0.18	0.52	11.08
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49291	60805	39941	17611	2547	165424
Time Of Maximum Demand Met (From NLDC SCADA)	09:41	10:41	09:53	18:02	17:41	09:41

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	0.029	0.00	0.00	0.59	0.59	68.67	30.74

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	6522	0	125.4	74.4	-1.4	66	0.00
	Haryana	6376	0	128.7	97.5	0.0	252	0.00
	Rajasthan	13410	0	252.2	71.9	-1.2	583	0.00
	Delhi	3492	0	62.6	45.2	0.5	206	0.00
	UP	14961	0	262.5	88.4	0.4	471	0.38
	Uttarakhand	1979	0	37.0	22.7	0.4	125	0.00
	HP	1654	0	29.9	24.2	-0.9	110	0.00
	J&K(UT) & Ladakh(UT)	2708	500	52.1	47.0	0.1	267	10.00
	Chandigarh	198	0	3.2	3.3	-0.1	11	0.00
WR	Chhattisgarh	3617	0	80.2	26.8	-0.5	215	0.00
	Gujarat	16320	0	350.0	74.0	3.0	770	0.00
	MP	14626	0	288.9	184.1	-2.5	647	0.00
	Maharashtra	23537	0	475.4	157.6	-5.3	602	0.00
	Goa	520	0	10.7	10.8	-0.1	64	0.00
	DD	342	0	7.3	7.1	0.2	185	0.00
	DNH	805	0	18.6	18.4	0.2	271	0.00
	AMNSIL	790	0	17.1	3.1	0.3	331	0.00
SR	Andhra Pradesh	7270	0	150.1	65.1	0.1	331	0.00
	Telangana	8828	0	170.8	57.7	1.0	550	0.00
	Karnataka	9809	0	183.9	62.1	-0.5	949	0.00
	Kerala	3490	0	70.3	51.3	1.3	199	0.00
	Tamil Nadu	12714	0	250.3	156.1	0.5	654	0.00
	Puducherry	331	0	6.9	7.2	-0.3	27	0.00
ER	Bihar	4256	0	73.45	73.6	-0.1	345	0.00
	DVC	2929	0	61.4	-38.4	-0.9	270	0.00
	Jharkhand	1468	0	24.19	20.5	-1.9	180	0.18
	Odisha	3659	0	67.8	3.4	-0.3	375	0.00
	West Bengal	6212	0	113.32	10.5	1.4	550	0.00
	Sikkim	116	0	1.7	1.9	-0.2	15	0.00
NER	Arunachal Pradesh	120	2	2.4	2.3	0.1	21	0.01
	Assam	1436	17	24.4	19.6	0.6	110	0.48
	Manipur	233	1	3.1	3.4	-0.3	30	0.01
	Meghalaya	354	0	6.5	4.1	0.1	39	0.00
	Mizoram	109	1	1.6	1.4	-0.1	26	0.01
	Nagaland	136	1	2.3	1.9	0.2	16	0.01
	Tripura	217	2	3.6	3.3	-0.2	55	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.5	-6.6	-13.9
Day Peak (MW)	439.0	-416.8	-823.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	259.2	-282.0	134.1	-112.3	1.0	0.0
Actual(MU)	238.8	-255.9	129.8	-122.6	1.7	-8.3
O/D/U/D(MU)	-20.4	26.1	-4.4	-10.3	0.7	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	13185	10882	2740	539	34311
State Sector	12956	12659	12827	4772	11	43225
Total	19922	25844	23709	7512	550	77536

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	453	1268	386	444	7	2559
Lignite	23	19	23	0	0	65
Hydro	123	41	70	37	12	283
Nuclear	28	31	37	0	0	96
Gas, Naptha & Diesel	26	101	13	0	28	168
RES (Wind, Solar, Biomass & Others)	83	68	183	4	0	338
Total	735	1530	712	486	47	3509
Share of RES in total generation (%)	11.24	4.46	25.75	0.87	0.19	9.64
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.69	9.22	40.76	8.52	26.45	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
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: 11-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	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	0	824	0.0	10.8	-10.8
4	765 kV	SASARAM-FATEHPUR	1	16	427	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	466	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	1	0	303	0.0	5.7	-5.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	158	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	749	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	1154	0.0	18.1	-18.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	390	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	374	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	73	240	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	103	16	0.8	0.0	0.8
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	1.3	73.9	-72.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	806	753	0.7	0.0	0.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	629	439	4.1	0.0	4.1
3	765 kV	JHARSUGUDA-DURG	2	63	305	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	183	317	0.0	1.9	-1.9
5	400 kV	RANCHI-SIPAT	2	202	171	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	22	102	0.0	1.0	-1.0
7	220 kV	BUDHIPADAR-KORBA	2	117	44	0.8	0.0	0.8
					ER-WR	6.6	6.0	0.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	531	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2006	0.0	41.7	-41.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2608	0.0	45.2	-45.2
4	400 kV	TALCHER-I/C	2	233	1003	0.0	11.0	-11.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.2	-98.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	270	2	3.7	0.0	3.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	420	0	5.2	0.0	5.2
3	220 kV	ALIPURDUAR-SALAKATI	2	65	11	0.8	0.0	0.8
					ER-NER	9.7	0.0	9.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.8	0.0	11.8
					NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	44.1	-44.1
2	HVDC	VINDHYACHAL B/B	-	0	202	0.0	4.8	-4.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1919	0.0	41.8	-41.8
4	765 kV	GWALIOR-AGRA	2	0	2752	0.0	46.9	-46.9
5	765 kV	PHAGI-GWALIOR	2	0	1018	0.0	14.7	-14.7
6	765 kV	JABALPUR-ORAI	2	0	934	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	580	0	10.3	0.0	10.3
8	765 kV	SATNA-ORAI	1	0	1428	0.0	28.1	-28.1
9	765 kV	CHITORGARH-BANASKANTHA	2	95	963	0.0	8.4	-8.4
10	400 kV	ZERDA-KANKROLI	1	117	143	0.3	0.0	0.3
11	400 kV	ZERDA -BHINMAL	1	188	324	0.0	0.9	-0.9
12	400 kV	VINDHYACHAL -RIHAND	1	959	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	199	337	0.8	2.4	-1.6
14	220 kV	BHANPURA-RANPUR	1	30	139	0.1	1.5	-1.4
15	220 kV	BHANPURA-MORAK	1	11	0	0.5	0.4	0.1
16	220 kV	MEHGAON-AURAIYA	1	103	1	1.1	0.1	1.1
17	220 kV	MALANPUR-AURAIYA	1	66	23	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	36.3	225.4	-189.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	12.3	-12.3
2	HVDC	RAIGARH-PUGALUR	2	0	1191	0.0	19.3	-19.3
3	765 kV	SOLAPUR-RAICHUR	2	1262	2867	0.0	20.9	-20.9
4	765 kV	WARDHA-NIZAMABAD	2	173	2381	0.0	25.6	-25.6
5	400 kV	KOLHAPUR-KUDGI	2	831	0	11.4	0.0	11.4
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	45	0.8	0.0	0.8
					WR-SR	12.3	78.1	-65.8

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)	164	0	145	3.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	211	193	198	4.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	54	40	54	1.3
	NER	132KV-GEYLEGPHU - SALAKATI	19	3	9	0.2
	NER	132kV Motanga-Rangia	-10	0	-5	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-47	-1.1
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-248	-100	-195	-4.7
	ER	132KV-BIHAR - NEPAL	-111	-1	-32	-0.8

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-703	-308	-489	-11.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	60	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	60	0	-45	-1.1