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: 09th 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 08.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 8th 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: 09-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)	47612	51420	36884	17216	2448	155580
Peak Shortage (MW)	500	0	0	39	58	597
Energy Met (MU)	961	1237	811	344	42	3394
Hydro Gen (MU)	113	40	66	40	13	272
Wind Gen (MU)	4	28	55	-	-	86
Solar Gen (MU)*	32.75	30.01	72.34	4.36	0.10	140
Energy Shortage (MU)	10.02	0.00	0.00	0.12	0.56	10.70
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49268	59150	40169	17746	2528	163935
Time Of Maximum Demand Met (From NLDC SCADA)	10:23	10:45	09:26	19:00	17:44	10:45

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	0.026	0.00	0.00	0.88	0.88	75.78	23.34

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	6497	0	126.1	74.4	-1.6	102	0.00
	Haryana	6363	0	132.2	107.6	0.6	172	0.00
	Rajasthan	13200	0	252.3	81.6	1.5	260	0.00
	Delhi	3516	4	62.1	45.2	-0.2	195	0.02
	UP	14933	0	264.0	92.1	0.5	540	0.00
	Uttarakhand	1992	0	37.2	24.8	0.1	185	0.00
	HP	1659	0	30.5	24.8	-0.9	99	0.00
	J&K(UT) & Ladakh(UT)	2639	500	53.1	47.4	-0.6	210	10.00
	Chandigarh	190	0	3.2	3.3	-0.1	11	0.00
WR	Chhattisgarh	3593	0	80.1	32.9	-0.8	208	0.00
	Gujarat	16273	0	350.7	71.1	3.1	445	0.00
	MP	14570	0	287.9	179.9	-2.3	527	0.00
	Maharashtra	22951	0	465.0	151.3	-0.5	788	0.00
	Goa	513	0	10.4	10.4	-0.1	31	0.00
	DD	327	0	6.5	6.8	-0.2	112	0.00
	DNH	797	0	18.2	18.1	0.1	48	0.00
	AMNSIL	846	0	18.0	3.7	0.0	236	0.00
SR	Andhra Pradesh	7245	0	147.8	68.3	0.0	506	0.00
	Telangana	8553	0	165.3	51.3	0.4	503	0.00
	Karnataka	9980	0	180.0	52.8	0.4	566	0.00
	Kerala	3501	0	69.6	51.3	0.9	176	0.00
	Tamil Nadu	12038	0	241.3	161.6	-1.5	507	0.00
	Puducherry	339	0	6.5	7.1	-0.6	20	0.00
ER	Bihar	4160	0	73.1	72.6	-0.9	383	0.00
	DVC	3073	0	63.4	-43.8	0.2	339	0.00
	Jharkhand	1451	39	24.2	20.7	-1.5	240	0.12
	Odisha	3735	0	69.1	1.0	-1.1	315	0.00
	West Bengal	6063	0	112.1	7.4	-0.3	511	0.00
	Sikkim	122	0	1.7	1.8	-0.1	10	0.00
NER	Arunachal Pradesh	121	2	2.2	2.2	0.0	11	0.01
	Assam	1408	15	22.9	19.2	-0.5	140	0.50
	Manipur	229	1	3.1	3.4	-0.3	24	0.01
	Meghalaya	354	0	6.4	4.2	-0.1	32	0.00
	Mizoram	114	0	1.6	1.5	-0.1	30	0.01
	Nagaland	144	1	2.2	1.9	0.1	26	0.01
	Tripura	212	2	3.4	3.0	-0.3	25	0.02

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	9.7	-5.9	-13.5
Day Peak (MW)	512.0	-428.9	-790.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	273.1	-291.9	135.5	-116.9	0.1	0.0
Actual(MU)	266.4	-280.2	125.0	-119.8	-1.2	-9.9
O/D/U/D(MU)	-6.7	11.7	-10.5	-3.0	-1.4	-9.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	13625	10972	3090	689	35341
State Sector	12726	13572	12617	4022	11	42948
Total	19692	27197	23589	7112	700	78289

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	461	1341	383	437	7	2628
Lignite	23	11	16	0	0	51
Hydro	113	40	66	40	13	272
Nuclear	28	33	60	0	0	120
Gas, Naptha & Diesel	25	52	13	0	28	117
RES (Wind, Solar, Biomass & Others)	65	59	159	4	0	287
Total	714	1536	696	481	48	3474
Share of RES in total generation (%)	9.04	3.83	22.83	0.90	0.21	8.25
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.72	8.60	40.82	9.23	26.75	19.52

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	1.060

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: 09-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	300	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	1061	0.0	14.0	-14.0
4	765 kV	SASARAM-FATEHPUR	1	19	374	0.0	3.4	-3.4
5	765 kV	GAYA-BALIA	1	0	542	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	217	0.0	4.5	-4.5
7	400 kV	PUSAULI -ALLAHABAD	1	0	145	0.0	5.5	-5.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	880	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	4	0	901	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	463	0.0	5.4	-5.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	349	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	6	343	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	64	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	82.9	-82.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	794	255	6.1	0.0	6.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	626	217	6.2	0.0	6.2
3	765 kV	JHARSUGUDA-DURG	2	41	330	0.0	2.1	-2.1
4	400 kV	JHARSUGUDA-RAIGARH	4	138	191	0.0	1.6	-1.6
5	400 kV	RANCHI-SIPAT	2	194	88	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	45	120	0.0	1.2	-1.2
7	220 kV	BUDHIPADAR-KORBA	2	119	46	0.5	0.0	0.5
					ER-WR	14.7	4.9	9.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	12.6	-12.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1991	0.0	44.3	-44.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2698	0.0	43.3	-43.3
4	400 kV	TALCHER-I/C	2	0	1514	0.0	14.5	-14.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	100.3	-100.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	304	0	4.7	0.0	4.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	463	0	7.1	0.0	7.1
3	220 kV	ALIPURDUAR-SALAKATI	2	70	11	1.0	0.0	1.0
					ER-NER	12.7	0.0	12.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2003	0.0	51.6	-51.6
2	HVDC	VINDHYACHAL B/B	-	193	202	1.1	1.3	-0.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	43.9	-43.9
4	765 kV	GWALIOR-AGRA	2	0	2876	0.0	51.2	-51.2
5	765 kV	PHAGI-GWALIOR	2	0	1703	0.0	20.3	-20.3
6	765 kV	JABALPUR-ORAI	2	0	1001	0.0	35.2	-35.2
7	765 kV	GWALIOR-ORAI	1	757	0	11.9	0.0	11.9
8	765 kV	SATNA-ORAI	1	0	1441	0.0	29.4	-29.4
9	765 kV	CHITORGARH-BANASKANTHA	2	167	736	0.0	5.5	-5.5
10	400 kV	ZERDA-KANKROLI	1	95	151	0.0	0.3	-0.3
11	400 kV	ZERDA -BHINMAL	1	33	437	0.0	4.2	-4.2
12	400 kV	VINDHYACHAL -RIHAND	1	967	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	20	416	0.0	4.1	-4.1
14	220 kV	BHANPURA-RANPUR	1	0	168	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.8	-0.7
16	220 kV	MEHGAON-AURAIYA	1	115	4	0.4	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	75	24	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	36.9	249.7	-212.8
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	16.0	-16.0
2	HVDC	RAIGARH-PUGALUR	2	0	997	0.0	9.5	-9.5
3	765 kV	SOLAPUR-RAICHUR	2	730	2592	0.0	19.6	-19.6
4	765 kV	WARDHA-NIZAMABAD	2	209	2102	0.0	19.4	-19.4
5	400 kV	KOLHAPUR-KUDGI	2	598	101	5.6	0.0	5.6
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	6.5	64.5	-58.0

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)	170	0	160	3.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	244	0	211	5.1
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	67	0	32	0.8
	NER	132KV-GEYLEGPHU - SALAKATI	19	2	8	0.2
	NER	132kV Motanga-Rangia	11	2	-6	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-42	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-241	-97	-188	-4.5
	ER	132KV-BIHAR - NEPAL	-136	-1	-14	-0.3
	ER	BHERAMARA HVDC(BANGLADESH)	-686	-300	-475	-11.4

BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	52	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-44	-1.1