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: 08th 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 07.12.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 7th 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:** **08-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)	47414	50920	34985	17074	2430	152823
Peak Shortage (MW)	500	0	0	127	41	668
Energy Met (MU)	945	1220	806	342	42	3355
Hydro Gen (MU)	113	40	79	44	13	288
Wind Gen (MU)	9	31	48	-	-	88
Solar Gen (MU)*	28.46	31.92	62.73	4.32	0.09	128
Energy Shortage (MU)	10.36	0.00	0.00	0.38	0.65	11.39
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48873	58713	40269	17556	2479	162580
Time Of Maximum Demand Met (From NLDC SCADA)	09:34	10:41	10:00	17:56	18:05	09:44

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	0.044	0.00	1.18	7.33	8.51	72.59	18.90

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	6397	0	127.4	74.0	-1.7	78	0.00
	Haryana	6304	0	127.1	104.5	0.6	233	0.00
	Rajasthan	13181	0	248.2	71.7	1.1	411	0.00
	Delhi	3570	0	61.9	50.0	1.2	249	0.00
	UP	14791	0	259.4	85.8	-0.1	706	0.00
	Uttarakhand	1994	0	36.2	24.8	1.7	298	0.36
	HP	1656	0	29.8	24.0	-0.9	120	0.00
	J&K(UT) & Ladakh(UT)	2618	500	52.3	47.4	0.2	275	10.00
	Chandigarh	198	0	3.2	3.3	-0.1	29	0.00
WR	Chhattisgarh	3656	0	78.7	32.1	-0.8	217	0.00
	Gujarat	16374	0	349.4	73.1	4.0	538	0.00
	MP	14368	0	284.8	178.7	-1.4	515	0.00
	Maharashtra	22583	0	454.8	146.8	-3.3	546	0.00
	Goa	505	0	10.0	10.0	-0.1	32	0.00
	DD	335	0	7.2	7.0	0.2	29	0.00
	DNH	798	0	18.0	18.0	-0.1	79	0.00
	AMNSIL	807	0	17.5	3.1	-0.1	249	0.00
SR	Andhra Pradesh	7111	0	147.4	76.6	0.2	470	0.00
	Telangana	8397	0	163.9	49.7	0.6	752	0.00
	Karnataka	10413	0	185.2	51.5	0.0	541	0.00
	Kerala	3451	0	69.4	48.7	0.7	271	0.00
	Tamil Nadu	12078	0	233.5	155.1	-1.0	759	0.00
	Puducherry	336	0	6.5	6.9	-0.4	15	0.00
ER	Bihar	4193	0	73.2	73.1	-1.3	180	0.00
	DVC	2987	0	62.9	-44.3	0.1	312	0.00
	Jharkhand	1402	127	23.9	20.4	-1.6	191	0.38
	Odisha	3729	0	67.4	-0.4	-1.1	340	0.00
	West Bengal	6106	0	113.2	5.6	-0.3	445	0.00
	Sikkim	122	0	1.7	1.7	0.0	33	0.00
NER	Arunachal Pradesh	115	1	2.1	2.3	-0.2	11	0.01
	Assam	1399	12	23.3	18.9	0.3	109	0.60
	Manipur	213	2	3.0	3.2	-0.2	42	0.02
	Meghalaya	340	0	6.2	3.9	0.0	37	0.00
	Mizoram	107	1	1.6	1.5	-0.1	42	0.01
	Nagaland	126	2	2.1	1.8	0.1	24	0.01
	Tripura	214	6	3.5	2.7	-0.1	36	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	10.0	-5.3	-13.5
Day Peak (MW)	507.0	-395.7	-792.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.2	-267.8	141.5	-139.1	1.3	0.0
Actual(MU)	254.8	-261.9	139.7	-142.2	0.2	-9.4
O/D/U/D(MU)	-9.4	5.9	-1.7	-3.0	-1.1	-9.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6966	12165	12492	3240	689	35551
State Sector	13176	14232	13687	4022	11	45128
Total	20142	26397	26179	7262	700	80679

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	464	1301	359	445	8	2577
Lignite	24	13	22	0	0	59
Hydro	113	40	79	44	13	288
Nuclear	28	33	60	0	0	120
Gas, Naptha & Diesel	16	50	13	0	26	105
RES (Wind, Solar, Biomass & Others)	64	64	145	4	0	278
Total	708	1501	678	494	46	3427

Share of RES in total generation (%)	9.06	4.27	21.45	0.88	0.19	8.11
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.87	9.14	41.86	9.81	27.55	20.03

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.064

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: 08-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	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	0	1170	0.0	14.0	-14.0
4	765 kV	SASARAM-FATEHPUR	1	0	424	0.0	4.1	-4.1
5	765 kV	GAYA-BALIA	1	0	547	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	219	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	171	0.0	2.6	-2.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	900	0.0	11.3	-11.3
9	400 kV	PATNA-BALIA	4	0	1321	0.0	18.5	-18.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	437	0.0	5.1	-5.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	415	0.0	6.2	-6.2
12	400 kV	BIHARSHARIFF-VARANASI	2	2	383	0.0	2.5	-2.5
13	220 kV	PUSAULI-SAHUPURI	1	69	32	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	84.4	-83.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	842	0	5.5	0.0	5.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	633	423	4.3	0.0	4.3
3	765 kV	JHARSUGUDA-DURG	2	101	182	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	55	372	0.0	3.2	-3.2
5	400 kV	RANCHI-SIPAT	2	197	172	1.0	0.0	1.0
6	220 kV	BUDHIPADAR-RAIGARH	1	24	100	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	88	98	0.2	0.0	0.2
					ER-WR	11.0	5.7	5.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	493	0.0	11.3	-11.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2009	0.0	45.7	-45.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2624	0.0	46.5	-46.5
4	400 kV	TALCHER-I/C	2	0	1263	0.0	25.2	-25.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	103.5	-103.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	320	0	4.3	0.0	4.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	483	0	6.4	0.0	6.4
3	220 kV	ALIPURDUAR-SALAKATI	2	76	5	0.9	0.0	0.9
					ER-NER	11.5	0.0	11.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	473	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	47.1	-47.1
2	HVDC	VINDHYACHAL B/B	-	193	52	4.1	0.1	4.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2098	0.0	41.6	-41.6
4	765 kV	GWALIOR-AGRA	2	0	2757	0.0	47.1	-47.1
5	765 kV	PHAGI-GWALIOR	2	0	1671	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	2	0	1093	0.0	34.7	-34.7
7	765 kV	GWALIOR-ORAI	1	688	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1445	0.0	28.5	-28.5
9	765 kV	CHITORGARH-BANASKANTHA	2	161	833	0.0	4.6	-4.6
10	400 kV	ZERDA-KANKROLI	1	104	158	0.0	0.4	-0.4
11	400 kV	ZERDA -BHINMAL	1	114	391	0.0	3.9	-3.9
12	400 kV	VINDHYACHAL -RIHAND	1	974	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	74	375	0.1	2.8	-2.7
14	220 kV	BHANPURA-RANPUR	1	15	151	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.3	0.5	-0.2
16	220 kV	MEHGAON-AURAIYA	1	135	7	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	54	28	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	40.1	235.7	-195.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	15.7	-15.7
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	12.5	-12.5
3	765 kV	SOLAPUR-RAICHUR	2	589	1986	0.0	19.1	-19.1
4	765 kV	WARDHA-NIZAMABAD	2	147	1788	0.0	20.8	-20.8
5	400 kV	KOLHAPUR-KUDGI	2	646	0	7.3	0.0	7.3
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	8.1	68.1	-60.0

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)	171	0	158	3.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	233	0	215	5.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	70	0	41	1.0
	NER	132KV-GEYLEGPHU - SALAKATI	20	2	8	0.2
	NER	132kV Motanga-Rangia	13	2	-4	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-50	0	-41	-1.0
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-259	-82	-175	-4.2
	ER	132KV-BIHAR - NEPAL	-87	-1	-7	-0.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-684	-300	-474	-11.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-44	-1.1