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 Oct 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 12.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-अक्टूबर-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 October 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-Oct-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)	52178	49695	35230	22764	2967	162834
Peak Shortage (MW)	1210	0	0	0	12	1222
Energy Met (MU)	1154	1132	789	480	56	3611
Hydro Gen (MU)	193	37	107	114	22	473
Wind Gen (MU)	4	34	83	-	-	121
Solar Gen (MU)*	40.83	25.93	61.31	4.70	0.12	133
Energy Shortage (MU)	2.0	0.0	0.0	0.0	0.0	2.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53498	50510	35503	22969	3006	163181
Time Of Maximum Demand Met (From NLDC SCADA)	19:22	18:33	12:27	20:41	18:31	19:11

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	0.024	0.00	0.00	1.40	1.40	77.50	21.10

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	8171	0	167.0	123.8	-0.8	120	0.0
	Haryana	7578	200	163.6	140.0	2.8	333	1.3
	Rajasthan	11498	0	241.8	82.9	-0.7	386	0.0
	Delhi	4149	0	86.7	70.4	-0.5	154	0.0
	UP	19514	0	376.4	154.9	1.5	440	0.6
	Uttarakhand	1867	0	37.3	21.3	0.3	114	0.0
	HP	1440	0	29.3	13.0	-0.2	80	0.0
	J&K(UT) & Ladakh(UT)	2478	0	47.5	29.6	2.9	491	0.0
	Chandigarh	216	0	4.1	4.1	0.0	21	0.0
WR	Chhattisgarh	3602	0	83.9	16.9	-1.3	193	0.0
	Gujarat	17185	0	375.7	72.3	2.2	693	0.0
	MP	10466	0	233.0	143.2	-0.6	387	0.0
	Maharashtra	18530	0	387.8	136.4	-3.7	1046	0.0
	Goa	437	0	9.0	8.7	-0.3	44	0.0
	DD	334	0	7.4	7.1	0.3	36	0.0
	DNH	812	0	18.8	18.7	0.1	39	0.0
	AMNSIL	785	0	16.8	1.2	0.4	294	0.0
SR	Andhra Pradesh	7129	0	145.4	59.5	-0.9	410	0.0
	Telangana	7009	0	142.6	42.0	-0.4	512	0.0
	Karnataka	7553	0	149.8	45.8	-0.4	438	0.0
	Kerala	3135	0	63.7	43.2	-0.2	169	0.0
	Tamil Nadu	13436	0	280.0	145.5	-4.2	542	0.0
	Puducherry	386	0	7.7	8.0	-0.3	56	0.0
ER	Bihar	5852	0	114.7	111.1	-1.8	221	0.0
	DVC	3111	0	67.1	-47.3	0.4	225	0.0
	Jharkhand	1567	0	30.2	23.3	-1.4	128	0.0
	Odisha	4274	0	92.9	8.8	0.4	316	0.0
	West Bengal	8353	0	174.0	66.6	3.5	530	0.0
	Sikkim	90	0	1.3	1.4	-0.1	16	0.0
NER	Arunachal Pradesh	127	2	2.4	2.3	0.2	25	0.0
	Assam	1941	7	35.6	31.8	0.2	102	0.0
	Manipur	208	1	2.7	2.6	0.2	33	0.0
	Meghalaya	299	0	5.7	1.4	-0.2	54	0.0
	Mizoram	97	3	1.5	1.0	0.1	11	0.0
	Nagaland	136	2	2.5	2.4	-0.1	9	0.0
	Tripura	304	1	5.4	6.8	0.4	76	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	35.0	-2.2	-25.0
Day Peak (MW)	1611.0	-270.8	-1074.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	354.0	-323.1	57.8	-90.2	1.5	0.0
Actual(MU)	366.8	-336.5	35.5	-68.2	1.2	-1.2
O/D/U/D(MU)	12.8	-13.4	-22.3	22.0	-0.3	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6550	13113	10112	1760	275	31810
State Sector	12869	15551	13606	5795	112	47932
Total	19419	28663	23718	7555	387	79742

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	483	1248	378	466	10	2585
Lignite	27	12	19	0	0	58
Hydro	193	37	107	114	22	473
Nuclear	27	20	69	0	0	116
Gas, Naptha & Diesel	22	100	14	0	28	163
RES (Wind, Solar, Biomass & Others)	55	60	181	5	0	301
Total	807	1477	767	585	61	3696

Share of RES in total generation (%)	6.87	4.03	23.63	0.81	0.20	8.14
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.19	7.90	46.48	20.28	36.15	24.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
Based on State Max Demands	1.067

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-Oct-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	1201	0.0	25.0	-25.0
2	HVDC	PUSAULI B/B	-	4	297	0.0	7.1	-7.1
3	765 kV	GAYA-VARANASI	2	23	502	0.0	5.8	-5.8
4	765 kV	SASARAM-FATEHPUR	1	356	105	3.8	0.0	3.8
5	765 kV	GAYA-BALIA	1	0	457	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	268	0.0	5.4	-5.4
7	400 kV	PUSAULI -ALLAHABAD	1	68	133	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	538	0.0	5.7	-5.7
9	400 kV	PATNA-BALIA	4	0	787	0.0	12.6	-12.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	272	0.0	3.6	-3.6
11	400 kV	MOTIHARI-GORAKHPUR	2	0	270	0.0	4.8	-4.8
12	400 kV	BIHARSHARIFF-VARANASI	2	266	118	2.9	0.0	2.9
13	220 kV	PUSAULI-SAHUPURI	1	85	115	0.0	1.8	-1.8
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	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	7.1	82.1	-75.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	257	1093	0.0	2.4	-2.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1630	0	24.2	0.0	24.2
3	765 kV	JHARSUGUDA-DURG	2	170	187	0.9	0.0	0.9
4	400 kV	JHARSUGUDA-RAIGARH	4	436	0	5.5	0.0	5.5
5	400 kV	RANCHI-SIPAT	2	530	0	8.8	0.0	8.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	132	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	196	0	2.8	0.0	2.8
					ER-WR	42.1	4.4	37.7
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	428	0.0	9.2	-9.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1337	0.0	27.4	-27.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	1749	0.0	26.9	-26.9
4	400 kV	TALCHER-I/C	2	1065	8	14.2	0.0	14.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	63.5	-63.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	534	0.0	6.6	-6.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	6	423	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	136	0.0	2.2	-2.2
					ER-NER	0.0	13.7	-13.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5
					NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	73.5	-73.5
2	HVDC	VINDHYACHAL B/B	-	183	499	2.0	6.9	-4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	48.4	-48.4
4	765 kV	GWALIOR-AGRA	2	0	3099	0.0	59.3	-59.3
5	765 kV	PHAGI-GWALIOR	2	0	1413	0.0	26.2	-26.2
6	765 kV	JABALPUR-ORAI	2	0	1200	0.0	46.0	-46.0
7	765 kV	GWALIOR-ORAI	1	545	0	10.0	0.0	10.0
8	765 kV	SATNA-ORAI	1	0	1607	0.0	34.5	-34.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	832	0.0	10.7	-10.7
10	400 kV	ZERDA-KANKROLI	1	41	123	0.0	0.8	-0.8
11	400 kV	ZERDA -BHINMAL	1	88	217	0.0	1.8	-1.8
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	468	0.0	8.0	-8.0
14	220 kV	BHANPURA-RANPUR	1	0	146	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.2	-2.2
16	220 kV	MEHGAON-AURAIYA	1	96	0	0.1	0.1	0.0
17	220 kV	MALANPUR-AURAIYA	1	47	25	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	35.5	320.6	-285.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.4	-7.4
2	HVDC	RAIGARH-PUGALUR	2	0	993	0.0	17.8	-17.8
3	765 kV	SOLAPUR-RAICHUR	2	1541	929	6.8	0.0	6.8
4	765 kV	WARDHA-NIZAMABAD	2	477	1032	0.0	6.0	-6.0
5	400 kV	KOLHAPUR-KUDGI	2	736	0	9.5	0.0	9.5
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	91	1.6	0.0	1.6
					WR-SR	17.9	31.2	-13.3

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)	474	434	436	10.5
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	708	0	657	15.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	317	261	270	6.5
	NER	132KV-GEYLEGPHU - SALAKATI	43	33	-39	-0.9
	NER	132kV Motanga-Rangia	69	54	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-51	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	-54	0	-11	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-166	-16	-61	-1.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-909	-904	-906	-21.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-68	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	83	0	-68	-1.6