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: 15th 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 14.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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:** **15-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)	54095	50152	36829	23267	3034	167377
Peak Shortage (MW)	170	0	0	0	78	248
Energy Met (MU)	1184	1160	757	484	56	3642
Hydro Gen (MU)	187	55	117	107	21	487
Wind Gen (MU)	17	83	183	-	-	283
Solar Gen (MU)*	37.72	23.31	59.54	4.50	0.13	125
Energy Shortage (MU)	0.2	0.0	0.0	0.0	1.5	1.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55242	49709	37866	23192	3090	166071
Time Of Maximum Demand Met (From NLDC SCADA)	19:14	18:34	20:40	19:01	18:18	18:56

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	0.021	0.00	0.00	1.13	1.13	79.10	19.77

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	7827	0	165.5	121.7	-1.1	142	0.0
	Haryana	7983	0	171.7	142.4	1.0	197	0.0
	Rajasthan	11509	0	242.7	91.0	2.6	523	0.0
	Delhi	4394	0	93.1	74.9	-0.1	158	0.0
	UP	20196	0	389.5	169.3	-2.0	272	0.2
	Uttarakhand	1853	0	38.7	23.2	0.5	140	0.0
	HP	1487	0	30.7	14.5	-0.3	61	0.0
	J&K(UT) & Ladakh(UT)	2638	0	48.3	32.9	2.3	503	0.0
	Chandigarh	210	0	4.1	4.2	0.0	12	0.0
WR	Chhattisgarh	3642	0	83.4	34.9	-0.1	282	0.0
	Gujarat	16959	0	373.9	67.5	3.6	548	0.0
	MP	10803	0	240.3	139.6	-2.0	384	0.0
	Maharashtra	18555	0	409.0	116.2	-6.4	702	0.0
	Goa	445	0	9.3	8.9	-0.2	47	0.0
	DD	345	0	7.7	7.5	0.2	24	0.0
	DNH	811	0	18.9	18.9	0.0	25	0.0
	AMNSIL	785	0	17.4	3.1	0.1	241	0.0
SR	Andhra Pradesh	7192	0	145.3	37.4	-1.0	596	0.0
	Telangana	5599	0	97.4	12.7	2.0	786	0.0
	Karnataka	6932	0	141.1	24.6	-6.8	517	0.0
	Kerala	3246	0	64.2	36.4	-0.3	190	0.0
	Tamil Nadu	14503	0	300.9	152.3	-4.5	471	0.0
	Puducherry	387	0	8.2	8.3	-0.1	51	0.0
ER	Bihar	5862	0	117.6	112.7	0.0	300	0.0
	DVC	3313	0	66.6	-51.5	0.6	250	0.0
	Jharkhand	1560	0	30.1	23.7	-1.9	120	0.0
	Odisha	4367	0	89.8	12.0	0.3	421	0.0
	West Bengal	8620	0	178.8	72.6	2.0	480	0.0
	Sikkim	90	0	1.4	1.3	0.0	20	0.0
NER	Arunachal Pradesh	121	1	2.3	2.2	0.1	23	0.0
	Assam	1991	52	36.5	33.2	0.3	155	1.5
	Manipur	213	1	2.7	2.6	0.2	36	0.0
	Meghalaya	327	0	5.7	1.6	-0.2	54	0.0
	Mizoram	93	1	1.7	0.9	0.5	24	0.0
	Nagaland	134	1	2.6	2.5	-0.1	12	0.0
	Tripura	307	3	4.9	6.8	0.3	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	33.4	-2.2	-25.3
Day Peak (MW)	1415.0	-247.1	-1093.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	380.4	-315.4	1.1	-69.2	3.1	0.0
Actual(MU)	396.3	-329.1	-28.1	-52.7	4.5	-9.2
O/D/U/D(MU)	15.9	-13.8	-29.2	16.5	1.4	-9.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5940	13338	10612	1500	275	31665
State Sector	12524	16364	16816	5085	112	50900
Total	18464	29701	27428	6585	387	82565

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	485	1221	306	455	10	2477
Lignite	23	14	19	0	0	56
Hydro	187	55	117	107	21	487
Nuclear	27	20	68	0	0	115
Gas, Naptha & Diesel	22	86	12	0	26	146
RES (Wind, Solar, Biomass & Others)	68	106	275	5	0	454
Total	812	1502	797	566	58	3734
Share of RES in total generation (%)	8.39	7.08	34.47	0.80	0.23	12.15
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.68	12.09	57.66	19.65	36.90	28.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.018
Based on State Max Demands	1.056

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: 15-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	1001	0.0	21.2	-21.2
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	95	462	0.0	5.1	-5.1
4	765 kV	SASARAM-FATEHPUR	1	430	0	5.2	0.0	5.2
5	765 kV	GAYA-BALIA	1	0	527	0.0	10.4	-10.4
6	400 kV	PUSAULI-VARANASI	1	0	270	0.0	5.7	-5.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	46	410	0.0	4.6	-4.6
9	400 kV	PATNA-BALIA	4	0	694	0.0	13.1	-13.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	335	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	278	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	332	50	3.9	0.0	3.9
13	220 kV	PUSAULI-SAHUPURI	1	0	131	0.0	2.4	-2.4
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	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	9.5	81.3	-71.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1041	463	0.8	0.0	0.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1961	0	30.1	0.0	30.1
3	765 kV	JHARSUGUDA-DURG	2	283	0	3.9	0.0	3.9
4	400 kV	JHARSUGUDA-RAIGARH	4	459	25	5.2	0.0	5.2
5	400 kV	RANCHI-SIPAT	2	639	0	11.4	0.0	11.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	192	0	2.8	0.0	2.8
					ER-WR	54.3	1.5	52.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	377	0.0	7.3	-7.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1637	0.0	33.1	-33.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2195	0.0	23.0	-23.0
4	400 kV	TALCHER-I/C	2	902	630	8.6	0.0	8.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	63.4	-63.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	624	0.0	7.5	-7.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	522	0.0	7.2	-7.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	187	0.0	2.6	-2.6
					ER-NER	0.0	17.3	-17.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.6	-14.6
					NER-NR	0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2254	0.0	84.1	-84.1
2	HVDC	VINDHYACHAL B/B	-	0	499	0.0	11.7	-11.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	2364	0.0	47.8	-47.8
4	765 kV	GWALIOR-AGRA	2	0	3260	0.0	65.3	-65.3
5	765 kV	PHAGI-GWALIOR	2	0	1651	0.0	29.5	-29.5
6	765 kV	JABALPUR-ORAI	2	0	1249	0.0	51.0	-51.0
7	765 kV	GWALIOR-ORAI	1	597	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	1	0	1637	0.0	35.8	-35.8
9	765 kV	CHITORGARH-BANASKANTHA	2	21	986	0.0	14.2	-14.2
10	400 kV	ZERDA-KANKROLI	1	48	167	0.0	1.4	-1.4
11	400 kV	ZERDA -BHINMAL	1	95	282	0.0	2.0	-2.0
12	400 kV	VINDHYACHAL -RIHAND	1	970	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	520	0.0	9.8	-9.8
14	220 kV	BHANPURA-RANPUR	1	0	149	0.0	2.7	-2.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.5	-2.5
16	220 kV	MEHGAON-AURAIYA	1	75	0	0.1	0.3	-0.2
17	220 kV	MALANPUR-AURAIYA	1	26	33	0.8	0.0	0.8
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	33.9	358.1	-324.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	341	518	0.1	4.7	-4.7
2	HVDC	RAIGARH-PUGALUR	2	284	0	4.7	0.0	4.7
3	765 kV	SOLAPUR-RAICHUR	2	2210	1037	20.6	0.0	20.6
4	765 kV	WARDHA-NIZAMABAD	2	886	1095	4.7	0.0	4.7
5	400 kV	KOLHAPUR-KUDGI	2	1385	0	21.4	0.0	21.4
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	93	1.5	0.0	1.5
					WR-SR	52.9	4.7	48.2

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)	406	404	406	10.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	641	616	618	14.8
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	370	253	270	6.5
	NER	132KV-GEYLEGPHU - SALAKATI	-53	0	-29	-0.7
	NER	132kV Motanga-Rangia	-70	-40	-58	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-46	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-41	0	-13	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-160	-2	-62	-1.5

BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-929	0	-907	-21.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	82	0	-73	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	82	0	-73	-1.7