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: 20th 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 19.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19th 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: 20-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)	48712	50634	37734	22880	2872	162832
Peak Shortage (MW)	600	0	0	40	6	646
Energy Met (MU)	1062	1148	814	483	54	3561
Hydro Gen (MU)	165	33	130	101	21	450
Wind Gen (MU)	3	16	58	-	-	76
Solar Gen (MU)*	34.69	22.68	81.90	4.73	0.10	144
Energy Shortage (MU)	1.4	0.2	0.0	0.1	0.1	1.7
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50022	50975	38425	23097	2934	164737
Time Of Maximum Demand Met (From NLDC SCADA)	11:43	18:35	18:40	19:22	17:34	18:42

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	0.028	0.00	0.38	6.17	6.55	83.53	9.92

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	6711	0	144.7	102.5	-1.3	113	0.0
	Haryana	7235	0	154.0	129.5	-0.5	224	0.0
	Rajasthan	11461	0	244.1	91.0	3.3	500	0.0
	Delhi	3780	0	75.8	59.4	-1.6	69	0.0
	UP	17607	0	335.0	121.4	-0.3	633	1.3
	Uttarakhand	1830	0	36.4	22.5	0.9	143	0.1
	HP	1453	0	28.6	14.7	0.3	162	0.0
	J&K(UT) & Ladakh(UT)	2384	0	39.9	33.4	-4.0	173	0.0
	Chandigarh	197	0	3.5	3.7	-0.2	15	0.0
WR	Chhattisgarh	3811	0	86.1	41.5	0.7	421	0.2
	Gujarat	16301	0	354.9	66.2	1.3	448	0.0
	MP	10880	0	243.8	141.3	-1.2	324	0.0
	Maharashtra	19139	0	410.3	115.1	-2.7	471	0.0
	Goa	473	0	9.5	8.8	0.1	54	0.0
	DD	344	0	7.5	7.3	0.2	35	0.0
	DNH	796	0	18.4	18.4	0.0	28	0.0
	AMNSIL	797	0	17.6	1.2	0.5	264	0.0
SR	Andhra Pradesh	7324	0	159.7	82.7	1.1	978	0.0
	Telangana	6560	0	139.4	33.3	1.7	750	0.0
	Karnataka	7654	0	156.9	55.0	0.8	495	0.0
	Kerala	3421	0	69.6	37.9	-0.1	181	0.0
	Tamil Nadu	13294	0	281.2	166.1	-3.0	405	0.0
	Puducherry	348	0	7.1	7.6	-0.4	29	0.0
ER	Bihar	5619	40	110.1	106.7	-1.3	419	0.1
	DVC	3117	0	65.4	-49.6	-0.4	331	0.0
	Jharkhand	1581	0	29.7	23.0	-1.7	104	0.0
	Odisha	5151	0	103.6	17.8	0.5	384	0.0
	West Bengal	8513	0	172.7	55.7	-1.4	441	0.0
	Sikkim	91	0	1.3	1.5	-0.1	14	0.0
NER	Arunachal Pradesh	124	1	2.1	2.2	-0.0	46	0.0
	Assam	1835	20	32.8	29.8	-0.1	156	0.0
	Manipur	205	1	2.5	2.6	-0.1	32	0.0
	Meghalaya	315	0	5.7	2.1	-0.1	31	0.0
	Mizoram	95	1	1.6	0.7	0.7	20	0.0
	Nagaland	126	2	2.3	2.3	-0.2	9	0.0
	Tripura	284	2	6.7	5.9	-0.3	25	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	29.3	-1.6	-25.4
Day Peak (MW)	1262.0	-243.2	-1084.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	304.5	-285.2	79.7	-101.5	2.5	0.0
Actual(MU)	314.1	-284.9	83.3	-115.2	1.8	-0.9
O/D/U/D(MU)	9.6	0.3	3.6	-13.7	-0.6	-0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6740	17075	10362	1510	275	35962
State Sector	12689	12859	16646	5435	112	47741
Total	19429	29934	27008	6945	387	83703

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	487	1240	343	513	10	2593
Lignite	20	15	16	0	0	52
Hydro	165	33	130	101	21	450
Nuclear	27	21	68	0	0	116
Gas, Naptha & Diesel	26	96	14	0	27	163
RES (Wind, Solar, Biomass & Others)	49	39	173	5	0	265
Total	773	1444	744	619	58	3638

Share of RES in total generation (%)	6.32	2.68	23.25	0.77	0.17	7.30
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.17	6.39	49.86	17.12	35.87	22.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.004
Based on State Max Demands	1.037

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: 20-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	701	0.0	17.1	-17.1
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	0	698	0.0	9.3	-9.3
4	765 kV	SASARAM-FATEHPUR	1	158	238	0.0	0.3	-0.3
5	765 kV	GAYA-BALIA	1	0	515	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	263	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	138	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	674	0.0	7.4	-7.4
9	400 kV	PATNA-BALIA	4	0	1003	0.0	18.1	-18.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	433	0.0	6.4	-6.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	279	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	155	218	0.6	0.0	0.6
13	220 kV	PUSAULI-SAHUPURI	1	0	115	0.0	2.0	-2.0
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	1.0	90.3	-89.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1000	575	7.1	0.0	7.1
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1282	0	17.2	0.0	17.2
3	765 kV	JHARSUGUDA-DURG	2	218	81	1.9	0.0	1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	1100	19	11.1	0.0	11.1
5	400 kV	RANCHI-SIPAT	2	385	0	5.3	0.0	5.3
6	220 kV	BUDHIPADAR-RAIGARH	1	22	130	0.0	1.1	-1.1
7	220 kV	BUDHIPADAR-KORBA	2	102	0	1.0	0.0	1.0
					ER-WR	43.6	1.1	42.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	379	0.0	6.5	-6.5
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1661	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2678	0.0	43.4	-43.4
4	400 kV	TALCHER-I/C	2	0	423	0.0	7.3	-7.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	89.6	-89.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	465	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	567	0.0	7.1	-7.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	141	0.0	2.2	-2.2
					ER-NER	0.0	15.5	-15.5
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.3	-16.3
					NER-NR	0.0	16.3	-16.3

Import/Export of WR (With NR)

1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	45.6	-45.6
2	HVDC	VINDHYACHAL B/B	-	448	499	4.6	6.0	-1.4
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1732	0.0	32.6	-32.6
4	765 kV	GWALIOR-AGRA	2	0	2469	0.0	47.7	-47.7
5	765 kV	PHAGI-GWALIOR	2	0	1657	0.0	26.8	-26.8
6	765 kV	JABALPUR-ORAI	2	0	1055	0.0	42.9	-42.9
7	765 kV	GWALIOR-ORAI	1	558	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	1485	0.0	32.4	-32.4
9	765 kV	CHITORGARH-BANASKANTHA	2	0	703	0.0	6.3	-6.3
10	400 kV	ZERDA-KANKROLI	1	26	124	0.0	1.4	-1.4
11	400 kV	ZERDA -BHINMAL	1	0	285	0.0	3.6	-3.6
12	400 kV	VINDHYACHAL -RIHAND	1	985	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	460	0.0	6.9	-6.9
14	220 kV	BHANPURA-RANPUR	1	0	111	0.0	1.6	-1.6
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.9	-0.9
16	220 kV	MEHGAON-AURAIYA	1	108	0	0.3	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	60	13	1.2	0.0	1.2
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	38.6	254.6	-216.0

Import/Export of WR (With SR)

1	HVDC	BHADRAWATI B/B	-	0	326	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	3.6	-3.6
3	765 kV	SOLAPUR-RAICHUR	2	1320	1994	0.0	11.7	-11.7
4	765 kV	WARDHA-NIZAMABAD	2	712	1984	0.0	15.3	-15.3
5	400 kV	KOLHAPUR-KUDGI	2	877	0	10.6	0.0	10.6
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	1	95	1.7	0.0	1.7
					WR-SR	12.3	38.0	-25.7

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)	366	0	358	8.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	509	506	509	12.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	255	226	227	5.5
	NER	132KV-GEYLEGPHU - SALAKATI	75	19	-71	-1.7
	NER	132kV Motanga-Rangia	56	48	-53	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-48	0	-13	-0.3
	ER	132KV-BIHAR - NEPAL	-65	-1	-24	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-130	-2	-30	-0.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-934	-931	-933	-22.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	75	0	-63	-1.5