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: 19th Nov 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 18.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-नवंबर-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 18th November 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:** **19-Nov-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)	43418	48576	37751	18186	2433	150364
Peak Shortage (MW)	548	0	0	0	6	554
Energy Met (MU)	857	1151	807	357	41	3213
Hydro Gen (MU)	113	33	77	52	12	288
Wind Gen (MU)	7	61	39	-	-	108
Solar Gen (MU)*	35.03	25.20	85.96	4.27	0.11	151
Energy Shortage (MU)	2.1	0.0	0.0	0.0	0.1	2.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43633	52798	38982	18530	2504	152370
Time Of Maximum Demand Met (From NLDC SCADA)	18:30	10:46	18:28	18:30	17:48	18:28

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	0.029	0.00	0.30	3.90	4.20	82.25	13.55

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	5151	0	100.3	85.4	-1.0	133	1.8
	Haryana	5752	98	109.2	106.9	0.7	263	0.3
	Rajasthan	12008	0	228.2	81.1	1.1	400	0.0
	Delhi	3371	0	59.7	43.2	0.2	167	0.0
	UP	13795	0	243.0	91.7	-1.4	249	0.0
	Uttarakhand	1801	0	34.0	24.5	1.1	289	0.0
	HP	1626	0	29.5	22.4	-0.3	122	0.0
	J&K(UT) & Ladakh(UT)	2683	0	50.3	43.6	1.5	285	0.0
	Chandigarh	181	0	3.1	3.0	0.1	27	0.0
WR	Chhattisgarh	3358	0	72.8	13.2	0.9	244	0.0
	Gujarat	13417	0	292.1	44.3	0.5	617	0.0
	MP	13402	0	274.8	180.8	-3.9	509	0.0
	Maharashtra	21812	0	457.6	145.4	-1.2	525	0.0
	Goa	510	0	10.8	10.4	-0.2	36	0.0
	DD	317	0	7.0	6.7	0.3	28	0.0
	DNH	793	0	17.9	17.7	0.2	78	0.0
	AMNSIL	782	0	17.8	1.2	0.5	272	0.0
SR	Andhra Pradesh	7516	0	162.8	79.4	0.0	692	0.0
	Telangana	7075	0	145.9	49.0	-1.4	343	0.0
	Karnataka	9113	0	177.6	64.9	-0.4	752	0.0
	Kerala	3566	0	70.3	54.9	0.3	245	0.0
	Tamil Nadu	12321	0	243.9	175.3	-1.5	702	0.0
	Puducherry	353	0	7.1	7.4	-0.4	21	0.0
ER	Bihar	4459	0	76.4	74.8	1.2	480	0.0
	DVC	3039	0	64.8	-46.6	-0.5	260	0.0
	Jharkhand	1405	0	25.2	18.3	-1.5	150	0.0
	Odisha	3967	0	74.8	6.7	-0.4	207	0.0
	West Bengal	6322	0	114.4	26.3	0.2	371	0.0
	Sikkim	105	0	1.3	1.4	-0.1	51	0.0
NER	Arunachal Pradesh	109	1	2.0	1.9	0.1	30	0.0
	Assam	1455	3	22.9	19.8	0.2	146	0.0
	Manipur	215	2	2.6	2.6	0.0	39	0.0
	Meghalaya	400	0	5.7	2.9	0.0	50	0.0
	Mizoram	103	2	1.7	0.9	0.4	18	0.0
	Nagaland	131	1	2.2	1.7	0.3	32	0.0
	Tripura	217	2	3.6	3.3	-0.7	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.1	-0.7	-19.2
Day Peak (MW)	828.0	-192.9	-1010.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.6	-323.0	130.1	-100.0	0.3	0.0
Actual(MU)	286.1	-308.6	126.9	-106.2	0.7	-1.1
O/D/U/D(MU)	-6.5	14.4	-3.3	-6.1	0.4	-1.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	14143	10032	3850	842	36377
State Sector	18246	15643	14856	5772	11	54528
Total	25756	29786	24888	9622	853	90905

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	350	1256	334	428	7	2375
Lignite	21	13	36	0	0	69
Hydro	113	33	77	52	12	288
Nuclear	28	33	66	0	0	127
Gas, Naptha & Diesel	20	60	16	0	26	121
RES (Wind, Solar, Biomass & Others)	62	87	163	4	0	316
Total	593	1482	692	484	44	3295

Share of RES in total generation (%)	10.38	5.88	23.51	0.88	0.25	9.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.02	10.36	44.24	11.69	27.27	22.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
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: 19-Nov-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	351	0.0	8.4	-8.4
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.5	-7.5
3	765 kV	GAYA-VARANASI	2	0	935	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	40	403	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	453	0.0	7.4	-7.4
6	400 kV	PUSAULI-VARANASI	1	0	248	0.0	5.2	-5.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	2.1	-2.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	118	782	0.0	6.1	-6.1
9	400 kV	PATNA-BALIA	4	0	908	0.0	11.2	-11.2
10	400 kV	BIHARSHARIFF-BALIA	2	91	394	0.0	2.7	-2.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	351	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	84	297	0.0	1.6	-1.6
13	220 kV	PUSAULI-SAHUPURI	1	32	60	0.0	0.2	-0.2
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	0.4	70.8	-70.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	948	310	6.6	0.0	6.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	836	12	11.1	0.0	11.1
3	765 kV	JHARSUGUDA-DURG	2	196	171	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	426	0	4.8	0.0	4.8
5	400 kV	RANCHI-SIPAT	2	308	5	4.3	0.0	4.3
6	220 kV	BUDHIPADAR-RAIGARH	1	24	89	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	2	188	0	3.0	0.0	3.0
					ER-WR	29.8	2.8	27.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1990	0.0	36.5	-36.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2578	0.0	51.0	-51.0
4	400 kV	TALCHER-I/C	2	296	649	0.0	3.0	-3.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	96.1	-96.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	10	304	0.0	1.1	-1.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	101	751	0.0	4.9	-4.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	137	0.0	1.1	-1.1
					ER-NER	0.0	7.1	-7.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	7.3	-7.3
					NER-NR	0.0	7.3	-7.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	38.4	-38.4
2	HVDC	VINDHYACHAL B/B	-	231	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1547	0.0	33.9	-33.9
4	765 kV	GWALIOR-AGRA	2	0	2830	0.0	54.2	-54.2
5	765 kV	PHAGI-GWALIOR	2	0	1771	0.0	25.4	-25.4
6	765 kV	JABALPUR-ORAI	2	0	1065	0.0	39.5	-39.5
7	765 kV	GWALIOR-ORAI	1	605	0	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	1567	0.0	33.5	-33.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	923	0.0	14.5	-14.5
10	400 kV	ZERDA-KANKROLI	1	16	167	0.0	2.1	-2.1
11	400 kV	ZERDA -BHINMAL	1	0	378	0.0	5.5	-5.5
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.3	0.0	22.3
13	400 kV	RAPP-SHUJALPUR	2	0	387	0.0	4.8	-4.8
14	220 kV	BHANPURA-RANPUR	1	0	153	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	83	9	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	52	28	0.7	0.0	0.7
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	255.7	-217.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.2	-12.2
2	HVDC	RAIGARH-PUGALUR	2	0	997	0.0	10.4	-10.4
3	765 kV	SOLAPUR-RAICHUR	2	491	2286	0.0	23.7	-23.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2109	0.0	26.7	-26.7
5	400 kV	KOLHAPUR-KUDGI	2	734	10	7.2	0.0	7.2
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	46	0.9	0.0	0.9
					WR-SR	8.1	73.0	-64.9

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)	259	0	178	4.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	468	303	321	7.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	76	0	28	0.7
	NER	132KV-GEYLEGPHU - SALAKATI	12	0	-4	-0.1
	NER	132kV Motanga-Rangia	14	7	14	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-42	0	-3	-0.1
	ER	132KV-BIHAR - NEPAL	-107	-1	-24	-0.6
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-44	-2	-2	-0.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-894	-506	-703	-16.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	58	0	-48	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	58	0	-48	-1.2