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: 16th 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 15.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	33091	41409	31543	17701	2323	126067
Peak Shortage (MW)	300	0	0	0	56	356
Energy Met (MU)	722	999	708	343	40	2812
Hydro Gen (MU)	108	26	81	54	16	286
Wind Gen (MU)	8	28	55	-	-	91
Solar Gen (MU)*	26.90	26.95	65.95	4.86	0.13	125
Energy Shortage (MU)	0.2	0.0	0.0	0.0	0.6	0.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	37775	46014	35312	18047	2420	134179
Time Of Maximum Demand Met (From NLDC SCADA)	10:27	10:44	09:28	17:59	17:42	09:28

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	0.039	0.00	0.17	10.21	10.38	80.28	9.34

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	3621	0	64.8	53.7	-1.0	447	0.2
	Haryana	3864	0	76.3	75.6	-0.8	540	0.0
	Rajasthan	11504	0	205.9	63.1	-4.3	334	0.0
	Delhi	2545	0	49.5	33.1	-1.1	113	0.0
	UP	13158	0	237.0	85.8	-6.7	298	0.0
	Uttarakhand	1459	0	24.5	17.2	-1.8	240	0.0
	HP	1082	0	18.4	12.0	-0.7	307	0.0
	J&K(UT) & Ladakh(UT)	2168	0	42.9	37.1	-0.3	426	0.0
	Chandigarh	139	0	2.5	2.8	-0.3	22	0.0
WR	Chhattisgarh	2903	0	63.1	7.7	-1.3	214	0.0
	Gujarat	11357	0	247.5	65.5	4.0	683	0.0
	MP	12776	0	259.6	170.1	-5.6	720	0.0
	Maharashtra	18397	0	387.7	132.9	-1.3	511	0.0
	Goa	422	0	8.3	7.5	0.3	77	0.0
	DD	157	0	3.3	3.2	0.1	28	0.0
	DNH	556	0	12.1	11.9	0.2	67	0.0
	AMNSIL	780	0	17.5	2.8	0.3	288	0.0
SR	Andhra Pradesh	7370	0	152.0	62.2	1.2	620	0.0
	Telangana	6390	0	130.0	41.8	-1.5	288	0.0
	Karnataka	8867	0	160.6	52.7	-1.5	414	0.0
	Kerala	3315	0	66.0	49.4	-0.6	325	0.0
	Tamil Nadu	9436	0	194.6	125.9	-1.3	439	0.0
	Puducherry	287	0	5.4	5.8	-0.5	40	0.0
ER	Bihar	4438	0	77.7	78.9	-1.8	325	0.0
	DVC	2945	0	62.2	-33.3	-1.2	398	0.0
	Jharkhand	1423	0	26.2	19.8	-1.4	185	0.0
	Odisha	3608	0	69.4	15.3	-1.2	345	0.0
	West Bengal	5925	0	106.1	27.8	-0.4	425	0.0
	Sikkim	83	0	1.2	1.3	-0.1	20	0.0
NER	Arunachal Pradesh	113	1	2.1	2.2	-0.1	26	0.0
	Assam	1385	22	22.0	18.7	-0.1	102	0.5
	Manipur	183	1	3.0	2.8	0.2	13	0.0
	Meghalaya	282	0	5.3	3.3	-0.2	44	0.0
	Mizoram	96	1	1.7	1.0	0.3	51	0.0
	Nagaland	124	1	2.1	1.9	0.0	14	0.0
	Tripura	289	0	3.9	3.7	-0.7	14	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.6	-0.3	-19.5
Day Peak (MW)	675.0	-177.6	-1029.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.3	-238.4	111.1	-57.3	-1.9	0.0
Actual(MU)	150.3	-230.3	124.6	-49.7	-4.0	-9.1
O/D/U/D(MU)	-36.0	8.0	13.5	7.5	-2.1	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	13213	12902	3700	509	37123
State Sector	15291	16537	15626	5272	11	52736
Total	22091	29749	28528	8972	520	89860

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	359	1073	250	338	7	2027
Lignite	23	13	28	0	0	64
Hydro	108	26	82	54	16	286
Nuclear	27	33	65	0	0	126
Gas, Naptha & Diesel	20	40	17	0	26	102
RES (Wind, Solar, Biomass & Others)	55	55	153	5	0	269
Total	594	1240	594	397	49	2874

Share of RES in total generation (%)	9.34	4.47	25.72	1.22	0.27	9.35
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.15	9.24	50.46	14.91	33.44	23.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.069

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: 16-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	502	0.0	11.9	-11.9
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.3	-7.3
3	765 kV	GAYA-VARANASI	2	223	398	0.0	3.0	-3.0
4	765 kV	SASARAM-FATEHPUR	1	260	82	2.2	0.0	2.2
5	765 kV	GAYA-BALIA	1	0	328	0.0	5.7	-5.7
6	400 kV	PUSAULI-VARANASI	1	0	279	0.0	5.8	-5.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	96	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	257	428	0.0	0.5	-0.5
9	400 kV	PATNA-BALIA	4	67	540	0.0	6.2	-6.2
10	400 kV	BIHARSHARIFF-BALIA	2	117	200	0.0	0.4	-0.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	230	0.0	3.1	-3.1
12	400 kV	BIHARSHARIFF-VARANASI	2	331	18	4.3	0.0	4.3
13	220 kV	PUSAULI-SAHUPURI	1	56	4	0.7	0.0	0.7
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.5	0.0	0.5
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	7.6	45.2	-37.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1428	0	26.6	0.0	26.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1181	0	17.1	0.0	17.1
3	765 kV	JHARSUGUDA-DURG	2	162	34	2.0	0.0	2.0
4	400 kV	JHARSUGUDA-RAIGARH	4	479	0	8.3	0.0	8.3
5	400 kV	RANCHI-SIPAT	2	482	0	8.8	0.0	8.8
6	220 kV	BUDHIPADAR-RAIGARH	1	50	53	0.1	0.0	0.1
7	220 kV	BUDHIPADAR-KORBA	2	213	0	4.1	0.0	4.1
					ER-WR	67.0	0.0	67.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	35.4	-35.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2791	0.0	43.2	-43.2
4	400 kV	TALCHER-I/C	2	0	1150	0.0	21.5	-21.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	87.3	-87.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	451	0.0	5.3	-5.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	531	0.0	5.6	-5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	0	114	0.0	1.4	-1.4
					ER-NER	0.0	12.3	-12.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	16.8	-16.8
					NER-NR	0.0	16.8	-16.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	222	0.0	10.7	-10.7
2	HVDC	VINDHYACHAL B/B	-	451	0	0.0	12.1	-12.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1126	0.0	24.7	-24.7
4	765 kV	GWALIOR-AGRA	2	0	2497	0.0	35.5	-35.5
5	765 kV	PHAGI-GWALIOR	2	0	1254	0.0	18.1	-18.1
6	765 kV	JABALPUR-ORAI	2	0	992	0.0	30.2	-30.2
7	765 kV	GWALIOR-ORAI	1	642	0	9.3	0.0	9.3
8	765 kV	SATNA-ORAI	1	0	1359	0.0	26.4	-26.4
9	765 kV	CHITORGARH-BANASKANTHA	2	199	766	0.0	4.4	-4.4
10	400 kV	ZERDA-KANKROLI	1	117	143	0.3	0.0	0.3
11	400 kV	ZERDA -BHINMAL	1	121	390	0.0	2.3	-2.3
12	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.1	0.0	22.1
13	400 kV	RAPP-SHUJALPUR	2	201	287	0.0	1.1	-1.1
14	220 kV	BHANPURA-RANPUR	1	4	168	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.6	-0.4
16	220 kV	MEHGAON-AURAIYA	1	125	40	0.6	0.1	0.5
17	220 kV	MALANPUR-AURAIYA	1	75	41	1.4	0.0	1.4
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	167.8	-134.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	7.6	-7.6
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	2.1	-2.1
3	765 kV	SOLAPUR-RAICHUR	2	553	2344	0.0	22.9	-22.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2295	0.0	28.0	-28.0
5	400 kV	KOLHAPUR-KUDGI	2	523	0	6.4	0.0	6.4
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	1	44	0.7	0.0	0.7
					WR-SR	7.1	60.6	-53.5

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)	200	0	190	4.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	393	0	342	8.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	83	0	47	1.1
	NER	132KV-GEYLEGPHU - SALAKATI	0	0	0	0.0
	NER	132kV Motanga-Rangia	0	0	0	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-19	0	-2	0.0
	ER	132KV-BIHAR - NEPAL	-59	-1	-8	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-100	0	-1	0.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	907	520	-702	-16.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	61	0	-54	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	61	0	-54	-1.3