



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पावर 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 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., डोंगतेह, 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 19.11.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध 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 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: 20-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)	43118	48866	38155	18345	2463	150947
Peak Shortage (MW)	418	0	0	0	9	427
Energy Met (MU)	860	1172	832	360	42	3266
Hydro Gen (MU)	106	35	74	55	10	281
Wind Gen (MU)	3	61	58	-	-	122
Solar Gen (MU)*	34.89	24.93	92.95	4.35	0.10	157
Energy Shortage (MU)	1.8	0.0	0.0	0.0	0.1	1.8
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43480	54308	39096	18269	2552	151981
Time Of Maximum Demand Met (From NLDC SCADA)	09:48	11:39	09:50	18:50	17:34	18:30

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	0.025	0.00	0.00	4.19	4.19	83.12	12.69

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	5217	0	101.4	87.0	-0.8	112	1.8	
	Haryana	5705	0	110.7	108.4	0.8	230	0.0	
	Rajasthan	12406	0	230.4	85.6	1.6	416	0.0	
	Delhi	3350	0	61.4	43.3	1.0	208	0.0	
	UP	13742	0	238.5	88.7	-0.4	348	0.0	
	Uttarakhand	1818	0	35.0	26.8	0.7	190	0.0	
	HP	1585	0	30.2	22.5	0.7	241	0.0	
	J&K(UT) & Ladakh(UT)	2503	0	49.4	43.6	0.6	385	0.0	
WR	Chandigarh	180	0	3.1	3.1	0.0	15	0.0	
	Chhattisgarh	3451	0	74.5	15.3	-0.5	224	0.0	
	Gujarat	14268	0	306.1	40.8	1.7	380	0.0	
	MP	13111	0	270.0	178.2	-2.3	516	0.0	
	Maharashtra	22751	0	467.0	150.0	-2.5	538	0.0	
	Goa	502	0	10.9	10.5	-0.2	33	0.0	
	DD	328	0	7.2	6.9	0.3	30	0.0	
	DNH	785	0	18.0	18.1	-0.1	33	0.0	
SR	AMNSIL	901	0	18.4	1.2	0.6	315	0.0	
	Andhra Pradesh	7772	0	167.5	79.3	-0.9	652	0.0	
	Telangana	7199	0	148.3	45.8	-0.4	378	0.0	
	Karnataka	9330	0	181.5	60.3	-1.9	439	0.0	
	Kerala	3612	0	72.1	55.0	0.0	169	0.0	
	Tamil Nadu	12995	0	255.3	181.3	-0.7	579	0.0	
	Puducherry	363	0	7.1	7.7	-0.6	11	0.0	
	ER	Bihar	4270	0	76.4	76.8	-0.6	368	0.0
DVC		3002	0	64.6	-49.0	-1.2	355	0.0	
Jharkhand		1356	0	24.9	18.5	-1.9	31	0.0	
Odisha		3943	0	74.2	7.4	-0.9	240	0.0	
West Bengal		6547	0	118.5	31.9	0.6	290	0.0	
Sikkim		106	0	1.5	1.5	0.0	10	0.0	
NER		Arumachal Pradesh	117	2	1.9	1.7	0.3	24	0.0
		Assam	1469	3	24.0	20.6	0.2	138	0.0
	Manipur	210	1	2.7	2.8	-0.1	38	0.0	
	Meghalaya	349	0	5.9	3.0	0.0	34	0.0	
	Mizoram	102	2	1.6	0.9	0.3	25	0.0	
	Nagaland	123	1	2.1	1.8	0.1	38	0.0	
	Tripura	227	2	3.6	3.4	-0.6	11	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	13.1	-0.9	-19.0
Day Peak (MW)	664.0	-119.8	-1008.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	296.4	-321.4	122.7	-99.5	1.8	-0.1
Actual(MU)	294.8	-314.6	112.4	-98.6	3.1	-2.9
OD/UD(MU)	-1.6	6.7	-10.2	0.9	1.4	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	14083	10332	3850	809	36583
State Sector	18811	14633	14646	5772	11	53873
Total	26321	28716	24978	9622	820	90456

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	356	1276	349	423	7	2410
Lignite	21	13	35	0	0	70
Hydro	106	35	75	55	10	281
Nuclear	28	33	69	0	0	130
Gas, Naptha & Diesel	21	64	15	0	26	126
RES (Wind, Solar, Biomass & Others)	57	86	187	4	0	335
Total	590	1507	729	482	44	3352
Share of RES in total generation (%)	9.73	5.74	25.60	0.90	0.23	10.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.45	10.22	45.33	12.32	23.70	22.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.090

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-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	500	0.0	9.8	-9.8	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	0	836	0.0	9.5	-9.5	
4	765 kV	SASARAM-FATEHPUR	1	64	351	0.0	2.6	-2.6	
5	765 kV	GAYA-BALIA	1	0	493	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	249	0.0	5.2	-5.2	
7	400 kV	PUSAULI -ALLAHABAD	1	0	118	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	107	646	0.0	3.9	-3.9	
9	400 kV	PATNA-BALIA	4	0	839	0.0	10.0	-10.0	
10	400 kV	BIHARSHARIEF-BALIA	2	65	309	0.0	2.5	-2.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	275	0.0	4.6	-4.6	
12	400 kV	BIHARSHARIEF-VARANASI	2	126	289	0.0	0.6	-0.6	
13	220 kV	PUSAULI-SAHUPURI	1	36	46	0.0	0.0	0.0	
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.2	0.0	0.2	
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0	
17	132 kV	KARMANASA-CHANDAUJI	1	0	0	0.0	0.0	0.0	
						ER-NR	0.2	65.9	-65.6
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1152	287	8.1	0.0	8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	994	0	14.5	0.0	14.5	
3	765 kV	JHARSUGUDA-DURG	2	266	229	0.0	0.9	-0.9	
4	400 kV	JHARSUGUDA-RAIGARH	4	365	0	5.5	0.0	5.5	
5	400 kV	RANCHI-SIPAT	2	330	0	5.0	0.0	5.0	
6	220 kV	BUDHIPADAR-RAIGARH	1	29	91	0.0	0.6	-0.6	
7	220 kV	BUDHIPADAR-KORBA	2	190	0	3.2	0.0	3.2	
						ER-WR	36.2	1.5	34.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	380	0.0	8.7	-8.7	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	36.6	-36.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2785	0.0	49.6	-49.6	
4	400 kV	TALCHER-I/C	2	234	460	0.0	2.7	-2.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	94.8	-94.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	492	0.0	5.8	-5.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	585	0.0	6.4	-6.4	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	112	0.0	1.4	-1.4	
						ER-NER	0.0	13.6	-13.6
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	10.5	-10.5	
						NER-NR	0.0	10.5	-10.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	38.9	-38.9	
2	HVDC	VINDHYACHAL B/B	-	231	53	2.8	0.0	2.8	
3	HVDC	MUNDA-MOHENDERGARH	2	0	1923	0.0	40.5	-40.5	
4	765 kV	GWALIOR-AGRA	2	0	2901	0.0	53.8	-53.8	
5	765 kV	PHAGI-GWALIOR	2	0	1739	0.0	26.7	-26.7	
6	765 kV	JABALPUR-ORAI	2	0	1040	0.0	40.2	-40.2	
7	765 kV	GWALIOR-ORAI	1	825	0	11.0	0.0	11.0	
8	765 kV	SATNA-ORAI	1	0	1550	0.0	33.3	-33.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1028	0.0	12.8	-12.8	
10	400 kV	ZERDA-KANKROLI	1	4	224	0.0	2.0	-2.0	
11	400 kV	ZERDA -BHINMAL	1	0	516	0.0	6.4	-6.4	
12	400 kV	VINDHYACHAL -RIHAND	1	968	0	22.7	0.0	22.7	
13	400 kV	RAPT-SHILAPUR	1	0	446	0.0	5.4	-5.4	
14	220 kV	BHANPURA-RANPUR	1	0	158	0.0	2.5	-2.5	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.0	-2.0	
16	220 kV	MEHGAON-AURAIYA	1	76	19	0.1	0.2	-0.1	
17	220 kV	MALANPUR-AURAIYA	1	40	35	0.5	0.0	0.4	
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	37.1	264.6	-227.5
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	525	0.0	12.2	-12.2	
2	HVDC	RAIGARH-PUGAUR	2	0	499	0.0	11.1	-11.1	
3	765 kV	SOLAPUR-RAICHUR	2	1141	2430	0.0	19.4	-19.4	
4	765 kV	WARDHA-NIZAMABAD	2	521	1986	0.0	20.4	-20.4	
5	400 kV	KOLHAPUR-KUDGI	2	818	0	9.9	0.0	9.9	
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	48	0.9	0.0	0.9	
						WR-SR	10.8	63.2	-52.3
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 MANGDECHHU HEP 4*180MW)	256	0	180	4.3			
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	313	303	313	7.9			
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	63	0	20	0.5			
	NER	132KV-GEYLEGPHU - SALAKATI	13	1	-2	0.0			
NEPAL	NER	132KV Motanga-Rangia	19	14	-15	-0.4			
	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-42	0	-3	-0.1			
	ER	132KV-BIHAR - NEPAL	-130	-1	-33	-0.8			
BANGLADESH	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	52	-35	-3	-0.1			
	ER	BHERAMARA HVDC(BANGLADESH)	-892	-501	-697	-16.7			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	58	0	-48	-1.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	58	0	-48	-1.2			