



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: 17th 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 16.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-नवंबर-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 16th 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: 17-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)	39468	41846	34250	17501	2414	135479
Peak Shortage (MW)	1050	0	0	0	43	1093
Energy Met (MU)	727	1015	747	345	41	2874
Hydro Gen (MU)	112	23	74	48	16	273
Wind Gen (MU)	16	35	52	-	-	103
Solar Gen (MU)*	28.02	54.59	54.16	4.30	0.14	141
Energy Shortage (MU)	0.7	0.0	0.0	0.0	1.6	2.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	39481	46269	36956	17734	2536	137546
Time Of Maximum Demand Met (From NLDC SCADA)	18:50	08:07	09:31	18:33	17:29	18:24

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	0.037	0.00	0.30	5.49	5.79	74.06	20.15

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	4669	500	83.9	70.0	-0.3	129	0.0	
	Harvana	4883	0	84.6	83.3	-0.2	255	0.0	
	Rajasthan	10804	0	208.0	70.0	-4.4	488	0.0	
	Delhi	3116	0	54.0	39.0	-1.9	142	0.0	
	UP	12896	550	205.0	76.8	-5.7	815	0.7	
	Uttarakhand	1478	0	26.1	17.4	-0.2	254	0.0	
	HP	1199	0	21.9	15.9	-1.5	71	0.0	
	J&K(UT) & Ladakh(UT)	2038	0	40.2	36.8	-2.1	398	0.0	
	Chandigarh	173	0	2.9	3.0	-0.1	13	0.0	
	WR	Chhattisgarh	3155	0	68.6	11.2	-0.9	180	0.0
Gujarat		11615	0	244.5	46.3	0.9	869	0.0	
MP		12656	0	257.0	170.4	-3.2	464	0.0	
Maharashtra		18851	0	397.7	135.4	-1.9	631	0.0	
Goa		509	0	10.1	9.7	-0.1	38	0.0	
DD		205	0	4.3	3.9	0.4	38	0.0	
DNH		661	0	14.6	14.6	0.0	37	0.0	
AMNSIL		852	0	18.2	3.2	0.4	232	0.0	
SR		Andhra Pradesh	7314	0	153.5	70.0	-0.5	520	0.0
		Telangana	6768	0	140.6	49.0	-0.5	544	0.0
	Karnataka	8356	0	154.8	55.6	0.4	614	0.0	
	Kerala	3381	0	71.5	54.3	0.3	237	0.0	
	Tamil Nadu	10846	0	219.6	162.7	-2.2	573	0.0	
	Puducherry	344	0	6.6	7.1	-0.5	58	0.0	
ER	Bihar	4380	0	75.5	77.0	-2.0	389	0.0	
	DVC	3032	0	63.0	-39.3	-0.2	314	0.0	
	Jharkhand	1437	0	26.1	20.0	-2.0	145	0.0	
	Odisha	3838	0	71.4	12.0	-1.1	298	0.0	
	West Bengal	5991	0	108.0	29.0	0.2	402	0.0	
	Sikkim	76	0	1.1	1.4	-0.3	15	0.0	
NER	Arunachal Pradesh	117	1	1.9	2.2	-0.4	27	0.0	
	Assam	1452	21	23.2	19.8	-0.1	96	1.5	
	Manipur	197	0	2.7	2.8	-0.1	19	0.0	
	Meghalaya	349	2	5.4	3.2	-0.2	26	0.0	
	Mizoram	107	1	1.7	1.0	0.3	24	0.0	
	Nagaland	131	0	2.0	1.9	-0.1	12	0.0	
	Tripura	237	2	3.7	3.9	-0.8	37	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.2	0.1	-19.6
Day Peak (MW)	671.0	-35.8	-1023.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.0	-281.1	136.4	-70.4	-1.8	0.0
Actual(MU)	186.1	-271.0	145.4	-58.3	-4.5	-2.3
O/D/U/D(MU)	-30.8	10.1	9.0	12.2	-2.6	-2.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	14203	10802	3350	509	35663
State Sector	17441	16843	15688	5522	11	55504
Total	24241	31045	26490	8872	520	91167

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	316	1058	288	372	7	2040
Lignite	22	15	30	0	0	67
Hydro	112	23	75	48	16	274
Nuclear	28	33	66	0	0	126
Gas, Naptha & Diesel	20	71	16	0	27	134
RES (Wind, Solar, Biomass & Others)	64	101	137	4	0	307
Total	561	1300	612	424	50	2947
Share of RES in total generation (%)	11.33	7.78	22.47	1.02	0.28	10.41
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.23	12.03	45.35	12.34	32.53	23.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.077

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: 17-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	8.6	-8.6	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	262	654	0.0	2.1	-2.1	
4	765 kV	SASARAM-EATEHPUR	1	214	279	0.4	0.0	0.4	
5	765 kV	GAYA-BALIA	1	0	377	0.0	4.2	-4.2	
6	400 kV	PUSAULI-VARANASI	1	0	274	0.0	5.6	-5.6	
7	400 kV	PUSAULI-ALLAHABAD	1	0	119	0.0	1.4	-1.4	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	213	490	0.0	1.9	-1.9	
9	400 kV	PATNA-BALIA	4	77	490	0.0	4.3	-4.3	
10	400 kV	BIHARSHARIFF-BALIA	2	59	297	0.0	1.6	-1.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	227	0.0	3.2	-3.2	
12	400 kV	BIHARSHARIFF-VARANASI	2	276	162	2.7	0.0	2.7	
13	220 kV	PUSAULI-SAHUPURI	1	78	17	0.6	0.0	0.6	
14	132 kV	SONWARI-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3	
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	4.1	40.2	-36.1
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1328	0	24.0	0.0	24.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1076	0	14.6	0.0	14.6	
3	765 kV	JHARSUGUDA-DURG	2	139	112	1.0	0.0	1.0	
4	400 kV	JHARSUGUDA-RAIGARH	4	422	9	4.5	0.0	4.5	
5	400 kV	RANCHI-SIPAT	2	393	0	6.1	0.0	6.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	38	76	0.0	0.0	0.0	
7	220 kV	BUDHIPADAR-KORBA	2	216	0	4.6	0.0	4.6	
						ER-WR	54.8	0.0	54.8
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	375	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1659	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2769	0.0	51.4	-51.4	
4	400 kV	TALCHER-I/C	2	0	1163	0.0	17.2	-17.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	99.8	-99.8
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	336	0.0	2.9	-2.9	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	395	0.0	2.7	-2.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	88	0.0	0.8	-0.8	
						ER-NER	0.0	6.4	-6.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	10.9	-10.9	
						NER-NR	0.0	10.9	-10.9
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	19.9	-19.9	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.2	0.0	12.2	
3	HVDC	MUNDA-MOHINDRGARH	2	0	983	0.0	22.9	-22.9	
4	765 kV	GWALIOR-AGRA	2	0	2692	0.0	43.4	-43.4	
5	765 kV	PHAGI-GWALIOR	2	0	1836	0.0	27.3	-27.3	
6	765 kV	JABALPUR-ORAI	2	0	1027	0.0	32.1	-32.1	
7	765 kV	GWALIOR-ORAI	1	682	0	9.4	0.0	9.4	
8	765 kV	SATNA-ORAI	1	0	1487	0.0	29.3	-29.3	
9	765 kV	CHITORGARH-BANASKANTHA	2	122	1090	0.0	12.4	-12.4	
10	400 kV	ZERDA-KANKROLI	1	109	173	0.0	1.2	-1.2	
11	400 kV	ZERDA -BHINMAL	1	106	383	0.0	3.2	-3.2	
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.1	0.0	22.1	
13	400 kV	RAPP-SHUJALPUR	2	185	369	0.8	2.6	-1.8	
14	220 kV	BHANPURA-RANPUR	1	12	173	0.0	1.6	-1.6	
15	220 kV	BHANPURA-MORAK	1	11	0	0.3	1.3	-1.0	
16	220 kV	MEHGAON-AURAIYA	1	59	17	0.2	0.1	0.0	
17	220 kV	MALANPUR-AURAIYA	1	34	28	0.4	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	45.3	192.3	-147.0
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	319	0.0	7.5	-7.5	
2	HVDC	RAIGARH-PUGALUR	2	0	151	0.0	2.3	-2.3	
3	765 kV	SOLAPUR-RAICHUR	2	0	2331	0.0	29.5	-29.5	
4	765 kV	WARDHA-NIZAMABAD	2	0	2319	0.0	36.7	-36.7	
5	400 kV	KOLHAPUR-KUDGI	2	394	33	4.6	0.0	4.6	
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	NELDEM-AMBEWADI	1	0	43	0.8	0.0	0.8	
						WR-SR	5.4	75.9	-70.5
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 MANGDECHHU HEP 4*180MW)	223	0	189	4.5			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	368	324	352	8.5			
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	80	0	50	1.2			
	NER	132KV-GEYLEGPHU - SALAKATI	0	0	0	0.1			
	NER	132KV Motanga-Rangia	0	0	0	0.4			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0			
	ER	132KV-BIHAR - NEPAL	40	1	5	0.1			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-76	0	-1	0.0			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-907	-520	-713	-17.1			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	58	0	-51	-1.2			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	58	0	-51	-1.2			