



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: 18th 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 17.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17th 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: 18-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)	42485	46633	36849	18208	2231	146406
Peak Shortage (MW)	650	0	0	0	165	815
Energy Met (MU)	829	1107	774	349	41	3100
Hydro Gen (MU)	116	24	74	49	17	279
Wind Gen (MU)	24	90	48	-	-	163
Solar Gen (MU)*	30.14	27.88	65.26	4.41	0.13	128
Energy Shortage (MU)	2.5	0.0	0.0	0.0	1.6	4.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	42623	51556	38253	18712	2436	148501
Time Of Maximum Demand Met (From NLDC SCADA)	18:17	10:50	18:29	18:27	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	0.026	0.00	0.00	2.73	2.73	81.23	16.04

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	5060	0	95.9	80.9	-0.2	253	2.5
	Haryana	5432	0	101.2	98.8	0.7	275	0.0
	Rajasthan	11680	0	224.9	79.0	-2.0	374	0.0
	Delhi	3115	0	58.2	42.4	-1.1	138	0.0
	UP	13742	0	237.1	91.9	0.9	547	0.0
	Uttarakhand	1681	0	31.8	21.8	0.7	121	0.0
	HP	1495	0	27.3	20.0	-0.2	210	0.0
	J&K(UT) & Ladakh(UT)	2405	0	49.5	41.5	0.9	287	0.0
WR	Chandigarh	176	0	3.0	3.0	0.0	17	0.0
	Chhattisgarh	3238	0	71.7	12.3	-0.1	214	0.0
	Gujarat	12749	0	273.5	33.6	5.3	922	0.0
	MP	13277	0	274.9	181.2	-4.2	454	0.0
	Maharashtra	21212	0	436.1	143.6	-2.3	543	0.0
	Goa	510	0	10.8	10.3	0.0	92	0.0
	DD	304	0	6.1	5.7	0.4	33	0.0
	DNH	753	0	16.7	16.8	-0.1	51	0.0
SR	AMNSIL	779	0	17.6	2.6	0.4	293	0.0
	Andhra Pradesh	7414	0	158.1	72.3	0.2	659	0.0
	Telangana	6823	0	143.2	49.6	-1.3	402	0.0
	Karnataka	8513	0	164.3	60.4	-0.4	613	0.0
	Kerala	3321	0	69.0	54.7	-0.1	217	0.0
	Tamil Nadu	11677	0	232.6	174.7	-3.2	529	0.0
ER	Puducherry	362	0	6.9	7.3	-0.5	31	0.0
	Bihar	4551	0	74.5	76.4	-2.4	264	0.0
	DVC	3087	0	63.7	46.9	-0.3	482	0.0
	Jharkhand	1497	0	25.3	20.0	-2.8	134	0.0
	Odisha	3970	0	73.5	9.1	-0.7	226	0.0
	West Bengal	6302	0	110.2	29.9	-0.1	370	0.0
NER	Sikkim	91	0	1.3	1.4	-0.1	33	0.0
	Arunachal Pradesh	98	1	1.8	2.1	-0.2	24	0.0
	Assam	1411	51	23.2	19.5	0.2	152	1.5
	Manipur	206	0	2.6	2.7	-0.1	53	0.0
	Meghalaya	323	1	5.5	3.0	-0.1	42	0.0
	Mizoram	109	1	1.7	1.1	0.3	17	0.0
	Nagaland	135	0	2.0	1.9	-0.1	15	0.0
	Tripura	230	1	3.8	3.5	-0.6	14	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.1	-0.5	-19.5
Day Peak (MW)	704.0	-213.9	-1028.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	276.1	-324.1	141.0	-89.6	-3.3	0.0
Actual(MU)	261.9	-310.4	142.3	-96.0	-4.5	-6.7
O/D/U/D(MU)	-14.2	13.7	1.4	-6.4	-1.3	-6.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7510	13843	10462	3350	509	35673
State Sector	18311	16210	15418	5522	11	55471
Total	25821	30052	25880	8872	520	91145

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	331	1211	304	408	7	2260
Lignite	20	12	34	0	0	66
Hvdro	116	24	74	49	17	279
Nuclear	28	33	66	0	0	126
Gas, Naptha & Diesel	20	34	16	0	27	97
RES (Wind, Solar, Biomass & Others)	74	119	148	4	0	345
Total	589	1431	641	462	50	3174

Share of RES in total generation (%)	12.58	8.29	23.06	0.96	0.26	10.88
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	36.89	12.23	44.83	11.67	33.06	23.64

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.062

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: 18-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	8.7	-8.7	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	40	809	0.0	7.6	-7.6	
4	765 kV	SASARAM-FATEHPUR	1	128	352	0.0	2.3	-2.3	
5	765 kV	GAYA-BALIA	1	0	400	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	1	0	255	0.0	5.4	-5.4	
7	400 kV	PUSAULI-ALLAHABAD	1	0	138	0.0	1.8	-1.8	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	99	722	0.0	6.1	-6.1	
9	400 kV	PATNA-BALIA	4	0	873	0.0	8.9	-8.9	
10	400 kV	BIHARSHARIF-BALIA	2	0	374	0.0	3.8	-3.8	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	323	0.0	5.2	-5.2	
12	400 kV	BIHARSHARIF-VARANASI	2	194	270	0.6	0.0	0.6	
13	220 kV	PUSAULI-SAHUPURI	1	56	48	0.2	0.0	0.2	
14	132 kV	SONEG 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	1.2	63.7	-62.5
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1112	0	14.8	0.0	14.8	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	925	37	10.8	0.0	10.8	
3	765 kV	JHARSUGUDA-DURG	2	102	181	0.0	0.4	-0.4	
4	400 kV	JHARSUGUDA-RAIGARH	4	377	52	4.4	0.0	4.4	
5	400 kV	RANCHI-SIPAT	2	342	29	4.7	0.0	4.7	
6	220 kV	BUDHIPADAR-RAIGARH	1	35	89	0.0	0.7	-0.7	
7	220 kV	BUDHIPADAR-KORBA	2	211	0	3.1	0.0	3.1	
						ER-WR	37.8	1.2	36.6
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	376	0.0	8.6	-8.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	38.6	-38.6	
3	765 kV	ANGUL-SRIKAKULAM	2	0	3019	0.0	52.0	-52.0	
4	400 kV	TALCHER/JC	2	208	1141	0.0	12.3	-12.3	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	99.3	0.0	-99.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	32	179	0.0	0.8	-0.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	152	502	0.0	2.3	-2.3	
3	220 kV	ALIPURDUAR-SALAKATI	2	12	93	0.0	1.0	-1.0	
						ER-NER	4.1	0.0	-4.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	8.6	-8.6	
						NER-NR	0.0	8.6	-8.6
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1507	0.0	37.7	-37.7	
2	HVDC	VINDHYACHAL B/B	-	451	0	8.4	0.0	8.4	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1363	0.0	33.0	-33.0	
4	765 kV	GWALIOR-AGRA	2	0	2632	0.0	49.4	-49.4	
5	765 kV	PHAGGL-GWALIOR	2	0	1785	0.0	24.9	-24.9	
6	765 kV	JABALPUR-ORAI	2	0	1035	0.0	37.4	-37.4	
7	765 kV	GWALIOR-ORAI	1	627	0	9.6	0.0	9.6	
8	765 kV	SATNA-ORAI	1	0	1503	0.0	31.5	-31.5	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1071	0.0	17.4	-17.4	
10	400 kV	ZERDA-KANKROLI	1	0	200	0.0	2.0	-2.0	
11	400 kV	ZERDA-BHINMAL	1	60	396	0.0	3.4	-3.4	
12	400 kV	VINDHYACHAL-RIHAND	1	979	0	22.7	0.0	22.7	
13	400 kV	RAPP-SHUGALPUR	2	165	387	0.6	3.5	-2.9	
14	220 kV	BHANPURA-RANPUR	1	0	147	0.0	1.9	-1.9	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.5	-1.5	
16	220 kV	MEHGAON-AURAIYA	1	88	13	0.3	0.1	0.1	
17	220 kV	MALANPUR-AURAIYA	1	59	32	0.6	0.0	0.6	
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	42.2	243.6	-201.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	10.8	-10.8	
2	HVDC	RAIGARH-PUGALUR	2	0	1492	0.0	7.1	-7.1	
3	765 kV	SOLAPUR-RAICHUR	2	488	2748	0.0	27.7	-27.7	
4	765 kV	WARDHA-NIZAMABAD	2	0	2516	0.0	32.4	-32.4	
5	400 kV	KOLHAPUR-KUDGI	2	540	16	5.1	0.0	5.1	
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	47	0.0	0.0	0.0	
						WR-SR	6.1	78.0	-72.0

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)	217	188	190	4.6	
	ER	400KV TALA-BINAGURI 1,2,4 (& 400KV MALBASE - BINAGURI) I.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	365	304	337	8.1	
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) I.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	88	0	43	1.0	
	NER	132KV-GEYLEGPHU - SALAKATI	10	0	-4	-0.1	
	NER	132KV Motanga-Rangia	24	10	-15	-0.4	
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-21	0	-2	-0.1	
	ER	132KV-BIHAR - NEPAL	-123	-1	-16	-0.4	
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-70	0	-2	-0.1	
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-907	-520	-712	-17.1	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	61	0	-49	-1.2	
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	60	0	-50	-1.2	