



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: 15th 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 14.11.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 14th 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: 15-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)	36906	40996	30682	17371	2370	128325
Peak Shortage (MW)	0	0	0	0	62	62
Energy Met (MU)	832	1049	733	353	42	3009
Hydro Gen (MU)	111	28	70	50	17	275
Wind Gen (MU)	5	42	67	-	-	113
Solar Gen (MU)*	28.83	27.08	89.66	4.62	0.14	150
Energy Shortage (MU)	0.0	0.0	0.0	0.0	1.3	1.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	41982	48841	35761	17784	2494	140059
Time Of Maximum Demand Met (From NLDC SCADA)	08:54	07:15	09:38	18:21	17:19	08:15

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	0.31	7.47	7.78	73.58	18.65

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	4930	0	88.7	75.0	-2.4	90	0.0
	Haryana	4644	0	91.0	89.7	-0.2	134	0.0
	Rajasthan	12299	0	224.2	67.8	-2.0	235	0.0
	Delhi	2865	0	54.4	38.0	-1.0	133	0.0
	UP	13505	0	280.7	113.9	-2.9	199	0.0
	Uttarakhand	1437	0	27.0	18.9	-0.7	198	0.0
	HP	1176	0	21.4	14.4	-0.2	135	0.0
	J&K(UT) & Ladakh(UT)	2211	0	42.0	41.9	-6.1	142	0.0
	Chandigarh	152	0	2.7	3.0	-0.3	8	0.0
	Chhattisgarh	3037	0	67.7	13.0	-1.6	191	0.0
WR	Gujarat	12616	0	265.9	68.4	1.7	489	0.0
	MP	13471	0	275.8	175.6	-4.2	568	0.0
	Maharashtra	18818	0	396.8	132.2	-2.2	505	0.0
	Goa	363	0	8.2	7.8	-0.1	38	0.0
	DD	262	0	4.2	3.9	0.3	49	0.0
	DNH	720	0	12.6	12.5	0.1	44	0.0
	AMNSIL	798	0	17.5	1.5	0.4	224	0.0
	Andhra Pradesh	7465	0	157.4	67.0	-0.8	528	0.0
	Telangana	6626	0	132.5	43.9	-3.0	272	0.0
	Karnataka	9200	0	171.9	57.4	-2.1	563	0.0
SR	Kerala	3512	0	69.3	51.5	-0.1	195	0.0
	Tamil Nadu	9678	0	197.1	127.9	-3.5	396	0.0
	Puducherry	272	0	5.0	5.7	-0.7	64	0.0
	Bihar	4435	0	78.5	79.0	-1.0	354	0.0
	DVC	2940	0	64.4	-42.3	-0.7	259	0.0
	Jharkhand	1445	0	26.2	20.5	-2.2	146	0.0
	Odisha	3539	0	69.5	7.7	-0.4	240	0.0
	West Bengal	6189	0	113.5	26.2	0.0	562	0.0
	Sikkim	89	0	1.3	1.4	-0.1	25	0.0
	NER	Arunachal Pradesh	107	1	2.2	2.2	0.1	32
Assam		1429	26	23.5	21.2	-0.8	141	1.2
Manipur		205	1	2.9	2.7	0.2	56	0.0
Meghalaya		306	0	5.7	2.8	-0.1	34	0.0
Mizoram		104	1	1.7	1.0	0.2	14	0.0
Nagaland		136	1	2.2	1.8	0.2	54	0.0
Tripura		238	0	4.0	3.3	-0.4	44	0.0
ER								

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	14.9	-0.4	-15.3
Day Peak (MW)	728.0	-154.5	-934.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	251.8	-272.4	102.5	-81.2	-0.7	0.0
Actual(MU)	234.8	-259.8	96.8	-78.4	-2.0	-8.5
O/D/U/D(MU)	-17.0	12.6	-5.6	2.8	-1.3	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	12673	12942	3040	572	36027
State Sector	14906	16361	15416	5872	11	52565
Total	21706	29033	28358	8912	583	88592

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	388	1098	272	384	7	2148
Lignite	25	13	29	0	0	67
Hydro	111	27	70	50	17	275
Nuclear	28	31	67	0	0	125
Gas, Naptha & Diesel	20	47	16	0	25	109
RES (Wind, Solar, Biomass & Others)	54	70	190	5	0	318
Total	626	1286	643	439	49	3043

Share of RES in total generation (%)	8.58	5.41	29.56	1.06	0.29	10.46
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	30.77	9.96	50.72	12.45	34.83	23.62

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.049
Based on State Max Demands	1.080

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: 15-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	501	0.0	12.4	-12.4	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.1	-7.1	
3	765 kV	GAYA-VARANASI	2	37	245	0.0	7.6	-7.6	
4	765 kV	SASARAM-EATEHPUR	1	242	236	0.2	0.0	0.2	
5	765 kV	GAYA-BALIA	1	0	484	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	267	0.0	5.1	-5.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	126	0.0	1.7	-1.7	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	135	550	0.0	3.9	-3.9	
9	400 kV	PATNA-BALIA	4	0	807	0.0	9.8	-9.8	
10	400 kV	BIHARSHARIFF-BALIA	2	24	362	0.0	3.4	-3.4	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	289	0.0	4.0	-4.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	277	152	2.0	0.0	2.0	
13	220 kV	PUSAULI-SAHUPURI	1	45	39	0.0	0.1	-0.1	
14	132 kV	SONENAGAR-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7	
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	3.0	63.3	-60.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	998	0	14.0	0.0	14.0	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1312	0	21.3	0.0	21.3	
3	765 kV	JHARSUGUDA-DURG	2	198	13	1.8	0.0	1.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	359	0	6.5	0.0	6.5	
5	400 kV	RANCHI-SIPAT	2	481	0	7.2	0.0	7.2	
6	220 kV	BUDHIPADAR-RAIGARH	1	39	85	0.0	0.2	-0.2	
7	220 kV	BUDHIPADAR-KORBA	2	213	0	3.8	0.0	3.8	
						ER-WR	54.6	0.2	54.4
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	1646	0.0	39.7	-39.7	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2359	0.0	37.1	-37.1	
4	400 kV	TALCHER-JC	2	0	1152	0.0	18.8	-18.8	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	85.4	-85.4
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	499	0.0	6.1	-6.1	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	603	0.0	6.7	-6.7	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	121	0.0	1.5	-1.5	
						ER-NER	0.0	14.3	-14.3
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	1001	0.0	24.0	-24.0	
2	HVDC	VINDHYACHAL B/B	-	451	0	12.1	0.0	12.1	
3	HVDC	MUNDA-MOHINDERGARH	2	0	1112	0.0	21.9	-21.9	
4	765 kV	GWALIOR-AGRA	2	0	2736	0.0	49.8	-49.8	
5	765 kV	PHAGI-GWALIOR	2	0	1515	0.0	20.6	-20.6	
6	765 kV	JABALPUR-ORAI	2	0	1131	0.0	40.5	-40.5	
7	765 kV	GWALIOR-ORAI	1	527	0	8.6	0.0	8.6	
8	765 kV	SATNA-ORAI	1	0	1417	0.0	30.0	-30.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1146	0.0	13.1	-13.1	
10	400 kV	ZERDA-KANKROLI	1	46	228	0.0	1.6	-1.6	
11	400 kV	ZERDA -BHINMAL	1	0	465	0.0	4.6	-4.6	
12	400 kV	VINDHYACHAL -RIHAND	1	982	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUALPUR	2	0	393	0.0	4.1	-4.1	
14	220 kV	BHANPURA-RANPUR	1	0	159	0.0	1.8	-1.8	
15	220 kV	BHANPURA-MORAK	1	11	0	0.1	0.6	-0.5	
16	220 kV	MEHGAON-AURAIYA	1	96	0	0.3	0.0	0.3	
17	220 kV	MALANPUR-AURAIYA	1	47	17	1.3	0.0	1.3	
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0	
19	132 kV	RAIGHAT-LALITPUR	2	0	0	0.0	0.0	0.0	
						WR-NR	44.8	212.7	-167.9
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	398	0.0	9.2	-9.2	
3	765 kV	SOLAPUR-RAICHUR	2	1542	1782	0.0	8.1	-8.1	
4	765 kV	WARDHA-NIZAMABAD	2	718	1623	0.0	15.6	-15.6	
5	400 kV	KOLHAPUR-KUDGI	2	854	0	9.5	0.0	9.5	
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	40	0.8	0.0	0.8	
						WR-SR	10.2	45.1	-34.8

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)	205	0	199	4.8
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	397	315	340	8.2
	ER	220KV CHUKHA-BIRPARA 1&2 (& 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	88	0	50	1.2
	NER	132KV-GEYLEGPHU - SALAKATI	15	3	-10	-0.3
	NER	132KV Motanga-Rangis	24	14	-21	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-32	0	-3	-0.1
	ER	132KV-BIHAR - NEPAL	-48	0	-12	-0.3
		220KV-MUZAFFARPUR - DHALKEBAR DC	-75	40	-1	0.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-798	-410	-543	-13.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	68	0	-48	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	68	0	-48	-1.2