



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: 12th 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 11.11.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th November 2020, is available at the NLDC website.

धन्यवाद,

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली



Report for previous day

Date of Reporting: 12-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)	47052	50594	40776	17857	2502	158781
Peak Shortage (MW)	300	0	0	87	9	396
Energy Met (MU)	942	1180	887	355	43	3407
Hydro Gen (MU)	114	35	91	62	16	318
Wind Gen (MU)	15	48	40	-	-	102
Solar Gen (MU)*	29.01	26.73	104.96	4.66	0.13	165
Energy Shortage (MU)	1.7	0.1	0.0	0.3	0.1	2.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47051	54154	43049	18288	2627	159799
Time Of Maximum Demand Met (From NLDC SCADA)	09:54	10:37	10:52	18:00	17:20	10:20

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	0.024	0.00	0.00	2.80	2.80	85.08	12.12

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	5569	38	111.3	89.5	-1.4	69	1.7
	Haryana	6091	0	121.6	109.2	0.3	232	0.0
	Rajasthan	12636	0	248.4	81.5	0.0	599	0.0
	Delhi	3487	0	64.4	47.3	-0.2	221	0.0
	UP	15496	0	280.1	103.0	-2.7	474	0.0
	Uttarakhand	1888	0	36.8	28.7	0.0	129	0.0
	HP	1544	0	28.8	21.3	-0.3	187	0.0
	J&K(UT) & Ladakh(UT)	2458	0	47.5	40.6	-0.5	266	0.0
	Chandigarh	182	0	3.2	3.2	0.0	14	0.0
WR	Chhattisgarh	3375	0	71.3	15.2	-0.2	273	0.0
	Gujarat	15634	0	343.7	57.4	1.2	487	0.0
	MP	14268	0	283.7	175.7	-3.8	509	0.0
	Maharashtra	20788	0	429.4	144.3	-1.6	479	0.0
	Goa	430	0	8.9	9.1	-0.7	44	0.1
	DD	340	0	7.4	7.3	0.2	30	0.0
	DNH	789	0	18.2	18.1	0.1	54	0.0
	AMNSIL	796	0	17.6	1.2	0.4	240	0.0
SR	Andhra Pradesh	8618	0	173.2	75.5	0.7	472	0.0
	Telangana	6890	0	138.9	43.1	-1.9	410	0.0
	Karnataka	10432	0	193.0	60.3	-0.6	547	0.0
	Kerala	3592	0	72.5	52.8	0.4	202	0.0
	Tamil Nadu	15208	0	301.4	182.8	-0.2	486	0.0
	Puducherry	365	0	7.5	8.0	-0.5	13	0.0
	Bihar	4376	0	71.9	72.4	-1.1	473	0.0
ER	DVC	3045	0	63.9	-47.6	-0.5	250	0.0
	Jharkhand	1391	103	25.4	17.9	-0.9	132	0.3
	Odisha	3550	0	69.8	3.1	-0.6	460	0.0
	West Bengal	6770	0	123.0	26.6	0.8	520	0.0
	Sikkim	98	0	1.5	1.7	-0.2	25	0.0
NER	Arunachal Pradesh	119	2	2.1	2.0	0.1	30	0.0
	Assam	1567	6	25.3	22.2	0.6	140	0.0
	Manipur	207	0	2.6	2.6	-0.1	52	0.0
	Meghalaya	326	0	5.6	2.6	-0.2	59	0.0
	Mizoram	103	1	1.6	0.7	0.3	38	0.0
	Nagaland	128	3	2.3	1.9	0.2	25	0.0
	Tripura	244	2	3.8	3.6	-0.5	12	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.2	-2.5	-19.0
Day Peak (MW)	722.0	-247.4	-987.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	295.2	-322.6	127.9	-98.7	-1.7	0.0
Actual(MU)	290.9	-312.7	128.6	-110.6	-1.7	-5.4
O/D/U/D(MU)	-4.3	10.0	0.8	-11.9	0.0	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6900	13063	10362	4200	539	35063
State Sector	15206	14702	12926	5122	11	47966
Total	22106	27764	23288	9322	550	83030

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	426	1302	386	424	7	2544
Lignite	23	15	26	0	0	64
Hydro	114	35	91	62	16	318
Nuclear	28	19	69	0	0	116
Gas, Naptha & Diesel	20	70	16	0	26	133
RES (Wind, Solar, Biomass & Others)	63	75	183	5	0	326
Total	674	1516	770	491	50	3501

Share of RES in total generation (%)	9.39	4.97	23.70	0.94	0.26	9.31
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.33	8.52	44.50	13.65	33.18	21.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.081

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: 12-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	12.3	-12.3
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2
3	765 kV	GAYA-VARANASI	2	0	751	0.0	9.8	-9.8
4	765 kV	SASARAM-FATEHPUR	1	104	302	0.0	1.9	-1.9
5	765 kV	GAYA-BALIA	1	0	514	0.0	9.2	-9.2
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	131	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	452	0.0	4.1	-4.1
9	400 kV	PATNA-BALIA	4	0	863	0.0	13.5	-13.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	441	0.0	5.1	-5.1
11	400 kV	MOTIHARI-GORAKHPUR	2	0	246	0.0	3.8	-3.8
12	400 kV	BIHARSHARIFF-VARANASI	2	179	203	0.5	0.0	0.5
13	220 kV	PUSAULI-SAHUPURI	1	54	54	0.2	0.0	0.2
14	132 kV	SONE 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						1.1	73.8	-72.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1169	355	6.5	0.0	6.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	986	52	11.7	0.0	11.7
3	765 kV	JHARSUGUDA-DURG	2	133	99	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	434	44	5.3	0.0	5.3
5	400 kV	RANCHI-SIPAT	2	358	43	5.1	0.0	5.1
6	220 kV	BUDHIPADAR-RAIGARH	1	35	70	0.0	0.4	-0.4
7	220 kV	BUDHIPADAR-KORBA	2	231	0	3.6	0.0	3.6
ER-WR						32.5	0.4	32.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	653	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1989	0.0	40.1	-40.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2569	0.0	39.8	-39.8
4	400 kV	TALCHER-I/C	2	0	613	0.0	6.8	-6.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	95.0	-95.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	505	0.0	6.2	-6.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	621	0.0	6.9	-6.9
3	220 kV	ALIPURDUAR-SALAKATI	2	0	124	0.0	1.5	-1.5
ER-NER						0.0	14.6	-14.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	703	0.0	17.0	-17.0
NER-NR						0.0	17.0	-17.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1753	0.0	43.7	-43.7
2	HVDC	VINDHYACHAL B/B	-	444	0	7.2	0.0	7.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	37.8	-37.8
4	765 kV	GWALIOR-AGRA	2	0	2584	0.0	48.4	-48.4
5	765 kV	PHAGI-GWALIOR	2	0	1625	0.0	25.8	-25.8
6	765 kV	JABALPUR-ORAI	2	0	1320	0.0	41.3	-41.3
7	765 kV	GWALIOR-ORAI	1	636	61	8.7	0.0	8.7
8	765 kV	SATNA-ORAI	1	0	1454	0.0	28.5	-28.5
9	765 kV	CHITORGARH-BANASKANTHA	2	0	995	0.0	13.8	-13.8
10	400 kV	ZERDA-KANKROLI	1	65	192	0.0	1.4	-1.4
11	400 kV	ZERDA -BHINMAL	1	75	406	0.0	3.8	-3.8
12	400 kV	VINDHYACHAL -RIHAND	1	973	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	0	379	0.0	4.5	-4.5
14	220 kV	BHANPURA-RANPUR	1	0	166	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.4	-0.2
16	220 kV	MEHGAON-AURAIYA	1	114	0	0.5	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	65	17	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						40.3	251.2	-210.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.3	-12.3
2	HVDC	RAIGARH-PUGALUR	2	0	1198	0.0	28.8	-28.8
3	765 kV	SOLAPUR-RAICHUR	2	716	2442	0.0	20.2	-20.2
4	765 kV	WARDHA-NIZAMABAD	2	360	1820	0.0	18.0	-18.0
5	400 kV	KOLHAPUR-KUDGI	2	777	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	45	0.8	0.0	0.8
WR-SR						10.7	79.2	-68.5

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)	243	0	217	5.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	420	314	359	8.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	102	0	62	1.5
	NER	132KV-GEYLEGPHU - SALAKATI	-15	-8	-11	-0.3
	NER	132kV Motanga-Rangia	-28	-12	-25	-0.6
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	0	0	0	0.0
	ER	132KV-BIHAR - NEPAL	-247	-3	-105	-2.5
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	0	0	0	0.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-855	-520	-687	-16.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-53	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-53	-1.3