



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: 11th 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 10.11.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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: 11-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)	46992	51629	39748	18213	2490	159072
Peak Shortage (MW)	630	0	0	0	7	637
Energy Met (MU)	943	1198	882	353	44	3419
Hydro Gen (MU)	114	29	87	59	17	306
Wind Gen (MU)	3	35	48	-	-	86
Solar Gen (MU)*	32.36	28.38	105.35	4.45	0.14	171
Energy Shortage (MU)	1.9	0.0	0.0	0.0	0.0	2.0
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46997	54427	42896	18264	2647	159886
Time Of Maximum Demand Met (From NLDC SCADA)	09:49	10:30	10:55	17:58	17:51	18:27

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	1.48	1.48	80.13	18.39

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	5554	0	112.0	88.7	-0.7	105	1.1
	Haryana	6070	0	122.8	110.2	1.1	258	0.0
	Rajasthan	12622	0	250.8	91.2	0.6	286	0.0
	Delhi	3472	0	63.0	46.6	0.1	218	0.0
	UP	15107	230	279.4	101.0	-1.8	339	0.8
	Uttarakhand	1829	0	35.1	26.9	0.1	202	0.0
	HP	1543	0	29.4	21.9	-0.2	97	0.0
	J&K(UT) & Ladakh(UT)	2600	0	47.6	40.7	-0.4	439	0.0
	Chandigarh	178	0	3.1	3.0	0.1	17	0.0
WR	Chhattisgarh	3365	0	70.8	10.0	-0.7	194	0.0
	Gujarat	16271	0	352.1	63.4	3.1	441	0.0
	MP	14081	0	284.4	179.8	-3.6	610	0.0
	Maharashtra	20793	0	437.8	145.8	-1.0	712	0.0
	Goa	492	0	9.6	9.6	-0.6	33	0.0
	DD	340	0	7.4	7.3	0.2	23	0.0
	DNH	802	0	18.3	18.3	0.1	41	0.0
	AMNSIL	790	0	17.5	1.2	0.4	245	0.0
SR	Andhra Pradesh	8350	0	170.9	80.6	0.8	646	0.0
	Telangana	6867	0	137.8	41.2	-0.5	398	0.0
	Karnataka	10127	0	190.1	59.2	-0.1	646	0.0
	Kerala	3671	0	74.3	52.1	0.8	242	0.0
	Tamil Nadu	14419	0	300.6	177.4	-1.7	580	0.0
	Puducherry	380	0	7.9	8.2	-0.3	17	0.0
	Bihar	4411	0	73.9	73.9	-0.5	515	0.0
ER	DVC	3066	0	63.6	-46.7	0.6	313	0.0
	Jharkhand	1401	0	24.6	17.8	-1.5	140	0.0
	Odisha	3890	0	69.9	5.3	-0.1	351	0.0
	West Bengal	6725	0	118.9	23.4	1.1	563	0.0
	Sikkim	106	0	1.5	1.5	0.0	34	0.0
	Arunachal Pradesh	123	1	2.1	2.2	-0.1	53	0.0
NER	Assam	1555	7	24.9	21.7	0.3	130	0.0
	Manipur	207	2	2.7	2.6	0.1	73	0.0
	Meghalaya	355	0	5.8	2.7	0.0	90	0.0
	Mizoram	102	2	1.5	0.6	0.4	38	0.0
	Nagaland	132	1	2.4	2.0	0.2	15	0.0
	Tripura	239	1	4.1	3.8	-0.1	49	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	16.5	-2.4	-19.1
Day Peak (MW)	864.0	-263.0	-999.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	297.9	-322.7	132.3	-105.5	-2.0	0.0
Actual(MU)	298.2	-314.1	128.9	-113.2	-2.4	-2.6
O/D/U/D(MU)	0.3	8.6	-3.4	-7.7	-0.3	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6900	12703	10452	4450	509	35013
State Sector	15866	13359	12116	5475	11	46826
Total	22766	26062	22568	9925	520	81840

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	428	1329	382	423	6	2568
Lignite	25	16	26	0	0	67
Hydro	114	29	87	59	17	306
Nuclear	28	21	61	0	0	110
Gas, Naptha & Diesel	20	69	16	0	27	133
RES (Wind, Solar, Biomass & Others)	54	64	191	4	0	314
Total	668	1529	763	486	50	3497

Share of RES in total generation (%)	8.13	4.20	25.01	0.92	0.28	8.98
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	29.27	7.48	44.43	13.05	33.22	20.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.076

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: 11-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	12.2	-12.2
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.0	-7.0
3	765 kV	GAYA-VARANASI	2	0	843	0.0	9.9	-9.9
4	765 kV	SASARAM-FATEHPUR	1	105	201	0.0	0.5	-0.5
5	765 kV	GAYA-BALIA	1	0	547	0.0	10.0	-10.0
6	400 kV	PUSAULI-VARANASI	1	0	258	0.0	4.9	-4.9
7	400 kV	PUSAULI-ALLAHABAD	1	0	133	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	730	0.0	6.1	-6.1
9	400 kV	PATNA-BALIA	4	0	1024	0.0	15.3	-15.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	496	0.0	6.9	-6.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	305	0.0	4.4	-4.4
12	400 kV	BIHARSHARIFF-VARANASI	2	160	229	0.8	0.0	0.8
13	220 kV	PUSAULI-SAHUPURI	1	52	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	0.4	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	79.2	-78.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	939	451	2.6	0.0	2.6
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	930	83	12.3	0.0	12.3
3	765 kV	JHARSUGUDA-DURG	2	91	160	0.0	1.2	-1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	454	0	6.3	0.0	6.3
5	400 kV	RANCHI-SIPAT	2	429	28	5.6	0.0	5.6
6	220 kV	BUDHIPADAR-RAIGARH	1	28	80	0.0	0.6	-0.6
7	220 kV	BUDHIPADAR-KORBA	2	206	0	3.8	0.0	3.8
ER-WR						30.6	1.8	28.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	651	0.0	15.0	-15.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1642	0.0	38.4	-38.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2542	0.0	42.0	-42.0
4	400 kV	TALCHER-I/C	2	1244	420	0.0	5.0	-5.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	95.5	-95.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	359	0.0	4.1	-4.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	3	412	0.0	3.2	-3.2
3	220 kV	ALIPURDUAR-SALAKATI	2	0	80	0.0	1.0	-1.0
ER-NER						0.0	8.3	-8.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	0.0	11.8	-11.8
NER-NR						0.0	11.8	-11.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	49.5	-49.5
2	HVDC	VINDHYACHAL B/B	-	443	0	8.3	0.0	8.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	33.7	-33.7
4	765 kV	GWALIOR-AGRA	2	0	2944	0.0	51.6	-51.6
5	765 kV	PHAGI-GWALIOR	2	0	1673	0.0	25.1	-25.1
6	765 kV	JABALPUR-ORAI	2	0	1109	0.0	38.7	-38.7
7	765 kV	GWALIOR-ORAI	1	629	0	9.6	0.0	9.6
8	765 kV	SATNA-ORAI	1	0	1756	0.0	35.9	-35.9
9	765 kV	CHITORGARH-BANASKANTHA	2	0	881	0.0	11.6	-11.6
10	400 kV	ZERDA-KANKROLI	1	11	173	0.0	1.5	-1.5
11	400 kV	ZERDA -BHINMAL	1	0	420	0.0	4.7	-4.7
12	400 kV	VINDHYACHAL -RIHAND	1	986	0	22.5	0.0	22.5
13	400 kV	RAPP-SHUJALPUR	2	0	389	0.0	5.4	-5.4
14	220 kV	BHANPURA-RANPUR	1	0	167	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	118	0	0.4	0.0	0.3
17	220 kV	MALANPUR-AURAIYA	1	69	14	1.3	0.0	1.3
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	261.0	-218.9
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	1198	0.0	28.5	-28.5
3	765 kV	SOLAPUR-RAICHUR	2	1239	2323	0.0	18.7	-18.7
4	765 kV	WARDHA-NIZAMABAD	2	682	1935	0.0	18.3	-18.3
5	400 kV	KOLHAPUR-KUDGI	2	833	0	10.4	0.0	10.4
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	37	0.8	0.0	0.8
WR-SR						11.2	77.6	-66.5

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)	292	208	210	5.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	420	355	374	9.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	101	0	74	1.8
	NER	132KV-GEYLEGPHU - SALAKATI	15	0	-7	-0.2
	NER	132kV Motanga-Rangia	36	12	-21	-0.5
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-58	0	-9	-0.2
	ER	132KV-BIHAR - NEPAL	-205	-1	-92	-2.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	0	0	0	0.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-865	-500	-688	-16.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	67	0	-55	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	67	0	-55	-1.3