



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: 6th 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 05.11.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 5th 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: 06-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)	44797	49938	39445	17876	2504	154560
Peak Shortage (MW)	500	0	0	0	7	507
Energy Met (MU)	912	1186	908	360	45	3411
Hydro Gen (MU)	113	24	103	76	16	332
Wind Gen (MU)	3	20	30	-	-	53
Solar Gen (MU)*	37.59	30.00	93.26	4.50	0.09	165
Energy Shortage (MU)	5.5	0.0	0.0	0.0	0.0	5.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	45530	54518	44090	17951	2667	159402
Time Of Maximum Demand Met (From NLDC SCADA)	10:26	10:31	09:57	18:01	17:42	10:26

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	0.038	0.19	1.23	5.61	7.03	77.51	15.46

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	5292	0	109.2	85.7	-1.1	156	2.1
	Haryana	5996	0	121.9	108.4	0.9	270	0.0
	Rajasthan	12666	0	245.2	99.8	2.5	318	0.0
	Delhi	3431	0	62.8	46.4	0.0	217	0.0
	UP	14599	170	264.8	110.2	4.2	642	3.2
	Uttarakhand	1744	0	34.0	26.4	-0.4	105	0.2
	HP	1533	0	28.9	21.0	0.3	215	0.0
	J&K(UT) & Ladakh(UT)	2483	0	42.7	41.0	-3.5	200	0.0
WR	Chandigarh	168	0	3.0	3.0	-0.1	20	0.0
	Chhattisgarh	3421	0	71.9	23.8	-1.0	506	0.0
	Gujarat	16221	0	356.6	41.9	3.5	638	0.0
	MP	13731	0	271.3	171.2	-2.6	575	0.0
	Maharashtra	20200	0	431.7	138.9	-1.2	630	0.0
	Goa	491	0	10.0	9.9	-0.3	81	0.0
	DD	337	0	9.0	7.3	1.7	31	0.0
	DNH	784	0	18.1	18.2	-0.1	67	0.0
SR	AMNSIL	779	0	17.3	1.7	0.4	230	0.0
	Andhra Pradesh	8951	0	185.8	92.6	0.4	325	0.0
	Telangana	7159	0	149.2	43.0	-0.7	462	0.0
	Karnataka	10619	0	192.4	54.9	-0.4	528	0.0
	Kerala	3430	0	71.4	48.0	-0.2	232	0.0
	Tamil Nadu	14383	0	301.7	198.6	-3.0	456	0.0
	Puducherry	387	0	7.9	8.2	-0.3	49	0.0
	ER	Bihar	4027	0	70.6	71.1	-1.0	400
DVC		3570	0	61.5	-26.8	2.1	500	0.0
Jharkhand		1364	0	24.0	17.9	-2.1	100	0.0
Odisha		4121	0	83.6	2.3	-0.7	220	0.0
West Bengal		6457	0	119.0	30.5	1.3	450	0.0
NER	Sikkim	96	0	1.4	1.6	-0.2	10	0.0
	Arunachal Pradesh	142	1	1.9	2.2	-0.3	36	0.0
	Assam	1563	6	26.3	23.6	-0.4	121	0.0
	Manipur	202	2	2.5	2.5	0.0	54	0.0
	Meghalaya	357	0	6.0	2.7	-0.1	31	0.0
	Mizoram	104	2	1.7	0.7	0.8	20	0.0
	Nagaland	136	1	2.3	2.1	0.1	21	0.0
Tripura	283	2	4.1	4.0	-0.7	65	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	18.6	-1.6	-24.6
Day Peak (MW)	895.0	-264.1	-1044.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	315.9	-330.7	133.9	-120.1	1.1	0.0
Actual(MU)	316.6	-333.1	138.6	-129.6	-0.7	-8.3
O/D/U/D(MU)	0.7	-2.5	4.7	-9.5	-1.7	-8.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	7210	14233	10562	2820	669	35493
State Sector	18911	12178	12386	7795	11	51280
Total	26121	26411	22948	10615	680	86774

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	385	1319	427	433	7	2571
Lignite	19	13	24	0	0	56
Hydro	113	24	103	76	16	332
Nuclear	28	21	42	0	0	91
Gas, Naptha & Diesel	20	97	17	0	27	161
RES (Wind, Solar, Biomass & Others)	50	50	162	5	0	267
Total	615	1524	775	513	50	3478

Share of RES in total generation (%)	8.06	3.29	20.94	0.88	0.18	7.67
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.94	6.24	39.69	15.60	32.75	19.83

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.074

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: 06-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	600	0.0	9.1	-9.1	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	912	0.0	13.9	-13.9	
4	765 kV	SASARAM-FATEHPUR	1	0	417	0.0	4.7	-4.7	
5	765 kV	GAYA-BALIA	1	0	473	0.0	8.2	-8.2	
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.1	-4.1	
7	400 kV	PUSAULI-ALLAHABAD	1	0	172	0.0	3.0	-3.0	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	787	0.0	11.1	-11.1	
9	400 kV	PATNA-BALIA	4	0	1160	0.0	18.1	-18.1	
10	400 kV	BIHARSHARIF-BALIA	2	0	421	0.0	5.5	-5.5	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	313	0.0	6.2	-6.2	
12	400 kV	BIHARSHARIF-VARANASI	2	5	349	0.0	3.1	-3.1	
13	220 kV	PUSAULI-SAHUPURI	1	1	7	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	0.4	94.4	-94.0
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1706	0	22.3	0.0	22.3	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	746	59	9.6	0.0	9.6	
3	765 kV	JHARSUGUDA-DURG	2	204	41	1.5	0.0	1.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	451	0	6.1	0.0	6.1	
5	400 kV	RANCHI-SIPAT	2	294	18	4.8	0.0	4.8	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	142	0.0	2.1	-2.1	
7	220 kV	BUDHIPADAR-KORBA	2	136	0	2.1	0.0	2.1	
						ER-WR	46.3	2.1	44.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	490	0.0	7.6	-7.6	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2278	0.0	47.4	-47.4	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2767	0.0	53.3	-53.3	
4	400 kV	TALCHER-I/C	2	0	941	0.0	14.2	-14.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	108.2	-108.2
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	414	0.0	4.4	-4.4	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	535	0.0	5.5	-5.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	18	99	0.0	1.3	-1.3	
						ER-NER	0.0	11.1	-11.1
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	501	0.0	12.2	-12.2	
						NER-NR	0.0	12.2	-12.2
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1251	0.0	37.9	-37.9	
2	HVDC	VINDHYACHAL B/B	-	445	0	8.6	0.0	8.6	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1550	0.0	30.9	-30.9	
4	765 kV	GWALIOR-AGRA	2	0	2637	0.0	52.4	-52.4	
5	765 kV	PHAGI-GWALIOR	2	0	1919	0.0	33.5	-33.5	
6	765 kV	JABALPUR-ORAI	2	0	1117	0.0	43.1	-43.1	
7	765 kV	GWALIOR-ORAI	1	739	0	11.5	0.0	11.5	
8	765 kV	SATNA-ORAI	1	0	1565	0.0	34.0	-34.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1245	0.0	19.1	-19.1	
10	400 kV	ZERDA-KANKROLI	1	0	260	0.0	2.9	-2.9	
11	400 kV	ZERDA -BHINMAL	1	0	531	0.0	6.4	-6.4	
12	400 kV	VINDHYACHAL -RIHAND	1	981	0	22.5	0.0	22.5	
13	400 kV	RAPP-SHUJALPUR	2	0	509	0.0	6.2	-6.2	
14	220 kV	BHANPURA-RANPUR	1	0	162	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	11	0	0.2	0.4	-0.2	
16	220 kV	MEHGAON-AURAIYA	1	112	0	0.3	0.1	0.3	
17	220 kV	MALANPUR-AURAIYA	1	66	24	1.1	0.0	1.1	
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	44.2	268.7	-224.6
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	721	0.0	16.8	-16.8	
2	HVDC	RAIGARH-PUGALUR	2	0	401	0.0	9.5	-9.5	
3	765 kV	SOLAPUR-RAICHUR	2	310	2268	0.0	25.2	-25.2	
4	765 kV	WARDHA-NIZAMABAD	2	48	1971	0.0	23.7	-23.7	
5	400 kV	KOLHAPUR-KUDGI	2	723	0	10.1	0.0	10.1	
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	1	41	0.7	0.0	0.7	
						WR-SR	10.8	75.2	-64.4

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)	248	0	243	5.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	462	357	395	9.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	134	0	97	2.3
	NER	132KV-GEYLEGPHU - SALAKATI	18	6	-11	-0.3
	NER	132kV Motanga-Rangia	34	15	-26	-0.6
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-29	0	-6	-0.1
	ER	132KV-BIHAR - NEPAL	-113	-1	-36	-0.9
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-122	27	-25	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-927	-926	-926	-22.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	58	0	-50	-1.2
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	59	0	-50	-1.2