



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: 1st 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 31.10.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-अक्टूबर-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 31st October 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: 01-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)	45315	49917	39867	20270	2652	158021
Peak Shortage (MW)	0	0	0	97	20	117
Energy Met (MU)	950	1165	913	402	48	3477
Hydro Gen (MU)	117	30	138	77	19	382
Wind Gen (MU)	7	22	13	-	-	43
Solar Gen (MU)*	33.31	28.22	93.89	4.50	0.09	160
Energy Shortage (MU)	0.6	0.0	0.0	0.3	0.1	0.9
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46439	51931	42000	20915	2727	157799
Time Of Maximum Demand Met (From NLDC SCADA)	09:43	17:50	11:51	18:07	17:18	18:42

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	0.025	0.00	0.00	4.20	4.20	83.98	11.82

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	5811	0	114.7	95.7	-1.0	85	0.0
	Haryana	5892	0	128.0	116.9	0.3	228	0.0
	Rajasthan	12571	0	242.6	87.5	0.0	239	0.0
	Delhi	3229	0	63.2	46.2	-0.8	162	0.0
	UP	14986	0	279.1	126.2	-2.8	262	0.6
	Uttarakhand	1817	0	36.1	25.9	1.4	167	0.0
	HP	1498	0	29.3	19.9	-0.5	129	0.0
	J&K(UT) & Ladakh(UT)	2830	0	54.4	41.8	7.5	572	0.0
WR	Chandigarh	173	0	3.0	3.0	0.0	14	0.0
	Chhattisgarh	3332	0	73.7	23.5	-1.0	267	0.0
	Gujarat	16435	0	353.6	67.2	3.4	481	0.0
	MP	12760	0	262.5	153.3	-3.9	600	0.0
	Maharashtra	19193	0	421.2	124.7	-1.9	622	0.0
	Goa	509	0	10.4	10.1	-0.3	66	0.0
	DD	336	0	7.6	7.2	0.4	63	0.0
	DNH	789	0	18.3	18.4	-0.1	87	0.0
SR	AMNSIL	763	0	17.2	2.2	0.2	230	0.0
	Andhra Pradesh	8820	0	178.9	82.8	-0.1	408	0.0
	Telangana	7412	0	156.3	46.1	-1.4	516	0.0
	Karnataka	9461	0	179.3	64.1	1.1	951	0.0
	Kerala	3504	0	72.6	49.5	0.1	202	0.0
	Tamil Nadu	14562	0	318.2	195.2	0.4	755	0.0
ER	Puducherry	370	0	7.8	7.9	-0.2	26	0.0
	Bihar	4791	0	82.2	81.6	-0.2	270	0.0
	DVC	3137	0	63.2	-47.1	-0.6	330	0.0
	Jharkhand	1401	0	27.5	19.4	-1.3	110	0.3
	Odisha	4513	0	85.3	15.5	-0.7	410	0.0
	West Bengal	7599	0	142.0	35.6	0.8	360	0.0
NER	Sikkim	92	0	1.3	1.4	-0.1	25	0.0
	Arunachal Pradesh	116	2	2.2	2.1	0.0	30	0.0
	Assam	1710	5	29.6	26.5	0.0	117	0.0
	Manipur	183	2	2.5	2.4	0.1	79	0.0
	Meghalaya	328	0	5.8	1.5	-0.1	32	0.0
	Mizoram	100	0	1.5	0.7	0.5	30	0.0
	Nagaland	149	2	2.4	2.2	0.1	20	0.0
	Tripura	246	1	3.8	4.3	-0.6	66	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	21.8	-0.6	-25.1
Day Peak (MW)	945.0	-209.3	-1063.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	319.7	-316.4	111.2	-113.7	-0.8	0.0
Actual(MU)	318.7	-314.1	118.3	-127.6	-1.5	-6.2
O/D/U/D(MU)	-1.0	2.3	7.2	-13.9	-0.7	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6800	15055	9452	1770	660	33737
State Sector	16377	13466	13316	6067	11	49237
Total	23177	28521	22768	7837	671	82973

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	402	1285	416	480	7	2591
Lignite	24	15	25	0	0	64
Hydro	117	30	138	77	19	382
Nuclear	28	21	65	0	0	114
Gas, Naptha & Diesel	22	93	17	0	26	158
RES (Wind, Solar, Biomass & Others)	52	51	141	5	0	249
Total	646	1495	803	562	53	3558
Share of RES in total generation (%)	8.06	3.40	17.62	0.81	0.17	7.00
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation(%)	30.53	6.82	42.93	14.57	36.88	20.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.039
Based on State Max Demands	1.086

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: 01-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	700	0.0	16.5	-16.5	
2	HVDC	PUSAULI B/B	-	0	299	0.0	7.4	-7.4	
3	765 kV	GAYA-VARANASI	2	0	1056	0.0	13.0	-13.0	
4	765 kV	SASARAM-EATEHPUR	1	65	374	0.0	3.5	-3.5	
5	765 kV	GAYA-BALIA	1	0	530	0.0	9.0	-9.0	
6	400 kV	PUSAULI-VARANASI	1	0	245	0.0	4.9	-4.9	
7	400 kV	PUSAULI-ALLAHABAD	1	0	145	0.0	2.2	-2.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	865	0.0	8.4	-8.4	
9	400 kV	PATNA-BALIA	4	0	1097	0.0	14.4	-14.4	
10	400 kV	BIHARSHARIFF-BALIA	2	0	421	0.0	4.6	-4.6	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	310	0.0	5.6	-5.6	
12	400 kV	BIHARSHARIFF-VARANASI	2	176	310	0.0	0.3	-0.3	
13	220 kV	PUSAULI-SAHUPURI	1	0	81	0.0	1.1	-1.1	
14	132 kV	SONWAL-RIHAND	1	0	0	0.0	0.0	0.0	
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	-0.3	
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	0.3	91.0	-90.7
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	753	268	2.9	0.0	2.9	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	595	298	5.5	0.0	5.5	
3	765 kV	JHARSUGUDA-DURG	2	21	192	0.0	1.7	-1.7	
4	400 kV	JHARSUGUDA-RAIGARH	4	210	178	0.8	0.0	0.8	
5	400 kV	RANCHI-SIPAT	2	199	113	2.1	0.0	2.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	163	0.0	2.6	-2.6	
7	220 kV	BUDHIPADAR-KORBA	2	114	39	1.2	0.0	1.2	
						ER-WR	12.5	4.3	8.2
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	531	0.0	12.4	-12.4	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	991	0.0	24.1	-24.1	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2671	0.0	49.2	-49.2	
4	400 kV	TALCHER-I/C	2	917	0	20.1	0.0	20.1	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	85.7	-85.7
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	391	0.0	4.8	-4.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	229	0.0	3.8	-3.8	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	75	0.0	1.3	-1.3	
						ER-NER	0.0	9.8	-9.8
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	702	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	1250	0.0	45.8	-45.8	
2	HVDC	VINDHYACHAL B/B	-	445	495	1.5	6.1	-4.6	
3	HVDC	MUNDA-MOHINDRGARH	2	0	1921	0.0	38.8	-38.8	
4	765 kV	GWALIOR-AGRA	2	0	2672	0.0	49.0	-49.0	
5	765 kV	PHAGI-GWALIOR	2	0	1822	0.0	27.9	-27.9	
6	765 kV	JABALPUR-ORAI	2	0	1106	0.0	39.8	-39.8	
7	765 kV	GWALIOR-ORAI	1	697	0	10.7	0.0	10.7	
8	765 kV	SATNA-ORAI	1	0	1477	0.0	31.0	-31.0	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	766	0.0	10.3	-10.3	
10	400 kV	ZERDA-KANKROLI	1	38	148	0.0	1.2	-1.2	
11	400 kV	ZERDA -BHINMAL	1	67	309	0.0	2.8	-2.8	
12	400 kV	VINDHYACHAL -RIHAND	1	983	0	22.6	0.0	22.6	
13	400 kV	RAPP-SHUALPUR	2	0	502	0.0	5.8	-5.8	
14	220 kV	BHANPURA-RANPUR	1	0	143	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	103	0	0.4	0.0	0.4	
17	220 kV	MALANPUR-AURAIYA	1	61	10	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	36.4	260.8	-224.4
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	992	0.0	13.2	-13.2	
2	HVDC	RAIGARH-PUGALUR	2	0	1541	0.0	32.2	-32.2	
3	765 kV	SOLAPUR-RAICHUR	2	471	2114	0.0	22.8	-22.8	
4	765 kV	WARDHA-NIZAMABAD	2	131	1960	0.0	21.2	-21.2	
5	400 kV	KOLHAPUR-KUDGI	2	640	0	8.2	0.0	8.2	
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	1	45	0.6	0.0	0.6	
						WR-SR	8.8	89.4	-80.7
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)	263	262	263	6.5			
	ER	400KV TALA-BINAGURI 1,2,3 (& 400KV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	449	428	449	11.0			
	ER	220KV CHUKHA-BIRPARA 1&2 & 220KV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	160	0	129	3.1			
	NER	132KV-GEYLEGPHU - SALAKATI	-28	-8	-19	-0.5			
	NER	132KV Motanga-Rangia	-38	-14	-31	-0.8			
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-14	0	-1	0.0			
	ER	132KV-BIHAR - NEPAL	-128	-1	-19	-0.5			
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-67	-2	-7	-0.2			
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-929	-928	-929	-22.3			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	67	0	-59	-1.4			
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	67	0	-59	-1.4			