



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: 18th Oct 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., डोंगतिह, 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 17.10.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-अक्टूबर-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 17th October 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: 18-Oct-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)	51379	50315	37583	22194	3033	164504
Peak Shortage (MW)	40	0	0	164	64	268
Energy Met (MU)	1119	1169	832	490	56	3665
Hydro Gen (MU)	173	42	134	107	21	477
Wind Gen (MU)	21	40	69	-	-	130
Solar Gen (MU)*	31.72	24.67	92.15	4.48	0.12	153
Energy Shortage (MU)	0.1	0.0	0.0	0.5	0.5	1.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52462	51067	38255	23144	3199	166049
Time Of Maximum Demand Met (From NLDC SCADA)	19:12	14:53	18:33	18:28	18:22	19:05

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	0.032	0.00	0.52	6.93	7.45	83.64	8.91

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	7160	0	152.1	109.9	-1.0	135	0.0
	Haryana	7649	0	162.0	130.2	-0.5	194	0.0
	Rajasthan	11587	0	246.9	88.8	2.2	615	0.0
	Delhi	3689	0	76.5	61.1	-1.5	94	0.0
	UP	18460	0	363.2	140.5	-3.6	570	0.1
	Uttarakhand	1775	0	37.6	23.6	0.4	145	0.1
	HP	1491	0	29.7	15.0	0.6	141	0.0
	J&K(UT) & Ladakh(UT)	2528	0	47.5	32.8	1.6	375	0.0
WR	Chandigarh	200	0	3.6	3.6	0.0	23	0.0
	Chhattisgarh	3613	0	82.8	34.1	-0.7	373	0.0
	Gujarat	17298	0	375.1	69.0	2.0	644	0.0
	MP	11207	0	251.2	146.3	-1.2	512	0.0
	Maharashtra	18652	0	406.8	113.3	-2.1	606	0.0
	Goa	445	0	9.2	8.7	-0.1	53	0.0
	DD	346	0	7.3	7.4	-0.2	46	0.0
	DNH	779	0	18.2	18.2	0.0	42	0.0
SR	AMNSIL	845	0	18.1	1.2	0.5	253	0.0
	Andhra Pradesh	7505	0	158.3	73.0	2.2	771	0.0
	Telangana	6328	0	134.4	42.1	-1.0	415	0.0
	Karnataka	7855	0	156.7	56.1	-0.6	593	0.0
	Kerala	3324	0	66.0	33.9	-0.5	243	0.0
	Tamil Nadu	13750	0	308.0	175.0	0.1	640	0.0
	Puducherry	393	0	8.3	8.3	0.0	48	0.0
ER	Bihar	5819	0	117.5	111.8	-0.2	269	0.0
	DVC	3114	0	66.6	-55.4	0.3	342	0.0
	Jharkhand	1465	0	31.3	22.5	-0.7	106	0.5
	Odisha	4885	0	95.3	11.0	0.2	590	0.0
	West Bengal	8860	0	178.3	70.0	2.6	448	0.0
	Sikkim	98	0	1.0	1.2	-0.2	35	0.0
NER	Arunachal Pradesh	123	1	2.1	2.1	0.0	47	0.0
	Assam	1960	31	36.1	32.4	0.7	171	0.5
	Manipur	204	2	2.8	2.6	0.2	38	0.0
	Meghalaya	308	0	5.6	0.6	-0.1	40	0.0
	Mizoram	97	1	1.6	0.8	0.5	18	0.0
	Nagaland	145	1	2.4	2.4	-0.2	26	0.0
	Tripura	299	3	5.6	6.7	0.7	82	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.2	-1.1	-25.4
Day Peak (MW)	1270.0	-240.3	-1082.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	322.0	-299.0	70.6	-94.7	1.1	0.0
Actual(MU)	323.3	-302.9	76.6	-95.7	3.7	5.1
O/D/U/D(MU)	1.4	-3.9	5.9	-0.9	2.7	5.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5740	15758	10362	2285	275	34420
State Sector	11339	14141	17246	4545	47	47317
Total	17079	29899	27608	6830	322	81737

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	512	1237	348	503	11	2612
Lignite	21	15	15	0	0	51
Hydro	173	42	134	107	21	477
Nuclear	27	21	68	0	0	116
Gas, Naptha & Diesel	22	101	14	0	26	162
RES (Wind, Solar, Biomass & Others)	64	65	194	4	0	328
Total	819	1480	775	614	58	3746

Share of RES in total generation (%)	7.86	4.39	25.07	0.72	0.21	8.76
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	32.26	8.63	51.21	18.08	36.82	24.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.049

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: 18-Oct-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	801	0.0	18.7	-18.7	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.3	-7.3	
3	765 kV	GAYA-VARANASI	2	0	707	0.0	9.3	-9.3	
4	765 kV	SASARAM-FATEHPUR	1	272	145	1.6	0.0	1.6	
5	765 kV	GAYA-BALIA	1	0	485	0.0	8.5	-8.5	
6	400 kV	PUSAULI-VARANASI	1	0	254	0.0	5.2	-5.2	
7	400 kV	PUSAULI -ALLAHABAD	1	0	133	0.0	1.9	-1.9	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	589	0.0	6.4	-6.4	
9	400 kV	PATNA-BALIA	4	0	856	0.0	14.5	-14.5	
10	400 kV	BIHARSHARIFF-BALIA	2	0	319	0.0	3.7	-3.7	
11	400 kV	MOTIHARI-GORAKHPUR	2	0	310	0.0	6.0	-6.0	
12	400 kV	BIHARSHARIFF-VARANASI	2	211	145	1.3	0.0	1.3	
13	220 kV	PUSAULI-SAHUPURI	1	0	122	0.0	2.2	-2.2	
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	3.3	83.6	-80.3
Import/Export of ER (With WR)									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1107	683	4.7	0.0	4.7	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1306	0	20.1	0.0	20.1	
3	765 kV	JHARSUGUDA-DURG	2	327	42	2.8	0.0	2.8	
4	400 kV	JHARSUGUDA-RAIGARH	4	290	85	3.5	0.0	3.5	
5	400 kV	RANCHI-SIPAT	2	427	0	6.9	0.0	6.9	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	155	0.0	2.2	-2.2	
7	220 kV	BUDHIPADAR-KORBA	2	146	0	2.2	0.0	2.2	
						ER-WR	40.1	2.2	37.9
Import/Export of ER (With SR)									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	270	0.0	6.2	-6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1987	0.0	36.0	-36.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2685	0.0	43.2	-43.2	
4	400 kV	TALCHER-I/C	2	885	179	7.2	0.0	7.2	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	85.3	-85.3
Import/Export of ER (With NER)									
1	400 kV	BINAGURI-BONGAIGAON	2	0	421	0.0	6.8	-6.8	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	491	0.0	7.5	-7.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	126	0.0	2.2	-2.2	
						ER-NER	0.0	16.4	-16.4
Import/Export of NER (With NR)									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.5	-14.5	
						NER-NR	0.0	14.5	-14.5
Import/Export of WR (With NR)									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	56.5	-56.5	
2	HVDC	VINDHYACHAL B/B	-	94	208	0.0	2.9	-2.9	
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1456	0.0	35.4	-35.4	
4	765 kV	GWALIOR-AGRA	2	0	2696	0.0	50.7	-50.7	
5	765 kV	PHAGI-GWALIOR	2	0	1771	0.0	29.4	-29.4	
6	765 kV	JABALPUR-ORAI	2	0	1201	0.0	43.1	-43.1	
7	765 kV	GWALIOR-ORAI	1	655	0	11.5	0.0	11.5	
8	765 kV	SATNA-ORAI	1	0	1487	0.0	31.2	-31.2	
9	765 kV	CHITORGARH-BANASKANTHA	2	50	869	0.0	11.1	-11.1	
10	400 kV	ZERDA-KANKROLI	1	33	157	0.0	1.2	-1.2	
11	400 kV	ZERDA -BHINMAL	1	132	187	0.0	0.9	-0.9	
12	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.4	0.0	22.4	
13	400 kV	RAPP-SHUJALPUR	2	0	564	0.0	7.5	-7.5	
14	220 kV	BHANPURA-RANPUR	1	0	138	0.0	2.0	-2.0	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.3	-1.3	
16	220 kV	MEHGAON-AURAIYA	1	101	0	0.3	0.0	0.3	
17	220 kV	MALANPUR-AURAIYA	1	56	18	1.2	0.0	1.2	
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	35.4	273.1	-237.8
Import/Export of WR (With SR)									
1	HVDC	BHADRAWATI B/B	-	0	356	0.0	7.9	-7.9	
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	3.6	-3.6	
3	765 kV	SOLAPUR-RAICHUR	2	1404	2129	0.0	10.8	-10.8	
4	765 kV	WARDHA-NIZAMABAD	2	556	1998	0.0	16.0	-16.0	
5	400 kV	KOLHAPUR-KUDGI	2	719	0	10.2	0.0	10.2	
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0	
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0	
8	220 kV	XELDEM-AMBEWADI	1	0	85	1.6	0.0	1.6	
						WR-SR	11.7	38.2	-26.5

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)	386	385	386	9.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	534	524	534	13.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	252	0	231	5.6
	NER	132KV-GEYLEGPHU - SALAKATI	37	21	-32	-0.8
	NER	132kV Motanga-Rangia	62	41	-53	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-50	0	-14	-0.3
	ER	132KV-BIHAR - NEPAL	-36	-5	-7	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-154	-2	-25	-0.6
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-924	-917	-920	-22.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	79	0	-69	-1.7