



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: 19th 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 18.10.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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: 19-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)	47513	46603	34382	21866	2914	153278
Peak Shortage (MW)	0	0	0	92	81	173
Energy Met (MU)	1052	1126	769	477	53	3476
Hydro Gen (MU)	168	32	131	101	20	452
Wind Gen (MU)	13	20	40	-	-	74
Solar Gen (MU)*	26.53	23.22	82.78	4.75	0.12	137
Energy Shortage (MU)	0.0	0.0	0.0	0.3	1.1	1.3
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48540	47827	34869	22066	3017	155673
Time Of Maximum Demand Met (From NLDC SCADA)	19:00	18:47	18:39	20:51	18:31	18:54

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	0.028	0.00	0.12	4.54	4.65	83.10	12.24

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	7048	0	144.6	103.9	-1.4	125	0.0
	Haryana	6948	0	147.6	118.7	0.2	230	0.0
	Rajasthan	11347	0	238.6	81.8	2.8	825	0.0
	Delhi	3412	0	69.7	55.1	-3.4	83	0.0
	UP	17570	0	338.5	130.0	-0.7	394	0.0
	Uttarakhand	1643	0	33.8	21.0	-0.4	82	0.0
	HP	1332	0	26.8	13.6	-0.3	100	0.0
	J&K(UT) & Ladakh(UT)	2523	0	49.1	35.5	0.5	270	0.0
WR	Chandigarh	174	0	3.1	2.9	0.3	35	0.0
	Chhattisgarh	3688	0	85.0	39.8	1.1	271	0.0
	Gujarat	15334	0	343.8	67.9	1.8	657	0.0
	MP	11283	0	249.8	149.8	-2.7	474	0.0
	Maharashtra	17939	0	395.7	111.0	-1.0	600	0.0
	Goa	387	0	8.0	7.5	0.0	50	0.0
	DD	316	0	7.1	6.6	0.4	39	0.0
	DNH	768	0	18.0	18.0	0.1	59	0.0
SR	AMNSIL	854	0	18.1	1.2	0.3	257	0.0
	Andhra Pradesh	7396	0	158.8	83.3	-0.1	1056	0.0
	Telangana	5986	0	127.5	32.3	-1.0	456	0.0
	Karnataka	7282	0	148.1	51.1	-0.2	657	0.0
	Kerala	3097	0	62.7	32.7	-0.3	304	0.0
	Tamil Nadu	11692	0	265.5	166.4	-3.2	434	0.0
	Puducherry	331	0	6.7	7.1	-0.4	32	0.0
ER	Bihar	5682	40	113.1	108.5	-0.6	583	0.1
	DVC	3088	0	65.2	-49.3	-0.5	219	0.0
	Jharkhand	1484	52	29.9	22.3	-0.8	124	0.2
	Odisha	4812	0	97.4	13.5	-0.1	353	0.0
	West Bengal	8638	0	170.0	51.0	0.6	348	0.0
	Sikkim	76	0	1.1	1.2	-0.1	28	0.0
NER	Arunachal Pradesh	121	2	2.0	2.1	-0.2	35	0.0
	Assam	1903	70	34.2	31.1	-0.1	158	1.0
	Manipur	194	3	2.7	2.6	0.2	29	0.0
	Meghalaya	306	0	5.6	1.8	0.1	71	0.0
	Mizoram	95	1	1.5	0.7	0.5	10	0.0
	Nagaland	129	2	2.3	2.4	-0.3	6	0.0
	Tripura	273	0	4.4	5.3	-0.4	82	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	28.7	-1.8	-25.4
Day Peak (MW)	1240.0	-262.1	-1080.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	292.3	-271.3	74.5	-97.4	2.0	0.0
Actual(MU)	293.2	-262.0	69.1	-98.5	1.6	3.3
O/D/U/D(MU)	1.0	9.3	-5.4	-1.1	-0.4	3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5740	16640	10362	2035	275	35052
State Sector	11589	13251	17246	5045	47	47177
Total	17329	29891	27608	7080	322	82229

G. Sourcwise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	491	1181	327	492	10	2502
Lignite	21	15	17	0	0	53
Hydro	168	32	131	101	20	452
Nuclear	27	21	68	0	0	116
Gas, Naptha & Diesel	23	107	14	0	27	171
RES (Wind, Solar, Biomass & Others)	52	44	155	5	0	256
Total	782	1400	712	598	57	3550

Share of RES in total generation (%)	6.65	3.13	21.80	0.79	0.21	7.21
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.57	6.87	49.73	17.71	34.95	23.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.003
Based on State Max Demands	1.061

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: 19-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	701	0.0	17.0	-17.0
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.7	-7.7
3	765 kV	GAYA-VARANASI	2	0	765	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	186	137	1.0	0.0	1.0
5	765 kV	GAYA-BALIA	1	0	528	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	0	239	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	138	0.0	2.0	-2.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	45	673	0.0	5.9	-5.9
9	400 kV	PATNA-BALIA	4	0	847	0.0	14.9	-14.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	421	0.0	4.5	-4.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	274	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	160	200	1.0	0.0	1.0
13	220 kV	PUSAULI-SAHUPURI	1	0	110	0.0	2.1	-2.1
14	132 kV	SONE NAGAR-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						2.3	82.7	-80.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1534	36	12.5	0.0	12.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1354	0	23.3	0.0	23.3
3	765 kV	JHARSUGUDA-DURG	2	259	0	3.3	0.0	3.3
4	400 kV	JHARSUGUDA-RAIGARH	4	196	74	1.4	0.0	1.4
5	400 kV	RANCHI-SIPAT	2	387	0	6.8	0.0	6.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	2.0	-2.0
7	220 kV	BUDHIPADAR-KORBA	2	136	0	2.1	0.0	2.1
ER-WR						49.5	2.0	47.5
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	1655	0.0	39.7	-39.7
3	765 kV	ANGUL-SRIKAKULAM	2	0	2631	0.0	41.5	-41.5
4	400 kV	TALCHER-I/C	2	249	327	0.0	5.5	-5.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	87.4	-87.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	576	0.0	7.3	-7.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	722	0.0	8.5	-8.5
3	220 kV	ALIPURDUAR-SALAKATI	2	0	159	0.0	2.2	-2.2
ER-NER						0.0	18.0	-18.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	1010	0.0	18.7	-18.7
NER-NR						0.0	18.7	-18.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	14.7	-14.7
2	HVDC	VINDHYACHAL B/B	-	451	499	0.0	0.8	-0.8
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1732	0.0	35.9	-35.9
4	765 kV	GWALIOR-AGRA	2	0	2900	0.0	53.0	-53.0
5	765 kV	PHAGI-GWALIOR	2	0	1877	0.0	29.5	-29.5
6	765 kV	JABALPUR-ORAI	2	0	1250	0.0	45.0	-45.0
7	765 kV	GWALIOR-ORAI	1	589	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	1567	0.0	33.5	-33.5
9	765 kV	CHITORGARH-BANASKANTHA	2	81	775	0.0	9.3	-9.2
10	400 kV	ZERDA-KANKROLI	1	41	140	0.0	1.2	-1.2
11	400 kV	ZERDA -BHINMAL	1	97	180	0.0	1.7	-1.7
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	587	0.0	8.0	-8.0
14	220 kV	BHANPURA-RANPUR	1	0	122	0.0	1.7	-1.7
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.0	-1.0
16	220 kV	MEHGAON-AURAIYA	1	103	0	0.2	0.1	0.1
17	220 kV	MALANPUR-AURAIYA	1	60	23	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						34.7	235.3	-200.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	356	0.0	7.3	-7.3
2	HVDC	RAIGARH-PUGALUR	2	0	150	0.0	3.6	-3.6
3	765 kV	SOLAPUR-RAICHUR	2	1671	1784	0.0	7.2	-7.2
4	765 kV	WARDHA-NIZAMABAD	2	886	1559	0.0	11.1	-11.1
5	400 kV	KOLHAPUR-KUDGI	2	923	0	12.0	0.0	12.0
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	94	1.7	0.0	1.7
WR-SR						13.6	29.2	-15.6

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)	391	0	364	8.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	503	491	503	12.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	243	0	216	5.2
	NER	132KV-GEYLEGPHU - SALAKATI	67	45	-56	-1.3
	NER	132kV Motanga-Rangia	36	24	-32	-0.8
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-48	0	-15	-0.4
	ER	132KV-BIHAR - NEPAL	-94	-1	-29	-0.7
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-120	-2	-30	-0.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-932	-929	-931	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	74	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	74	0	-63	-1.5