



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: 17th 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., 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 16.10.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	51779	50234	38535	22253	2966	165767
Peak Shortage (MW)	80	0	0	0	8	88
Energy Met (MU)	1149	1160	840	485	57	3690
Hydro Gen (MU)	174	44	145	106	20	490
Wind Gen (MU)	30	86	109	-	-	224
Solar Gen (MU)*	33.88	22.09	88.21	4.46	0.13	149
Energy Shortage (MU)	0.3	0.0	0.0	0.0	0.1	0.4
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53677	50626	38551	22477	3114	166765
Time Of Maximum Demand Met (From NLDC SCADA)	19:24	18:38	18:35	19:37	17:47	18:57

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	0.035	0.00	0.41	7.58	7.99	83.20	8.82

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	7968	0	162.8	120.3	-1.3	85	0.0
	Haryana	7512	0	163.3	132.3	1.0	192	0.0
	Rajasthan	11474	0	242.7	79.1	1.4	360	0.0
	Delhi	4004	0	84.1	67.4	-1.5	122	0.0
	UP	19436	0	376.2	147.4	-2.8	272	0.2
	Uttarakhand	1798	0	37.6	22.4	1.1	191	0.1
	HP	1459	0	30.0	15.1	0.1	113	0.0
	J&K(UT) & Ladakh(UT)	2569	0	48.4	32.7	2.6	286	0.0
WR	Chandigarh	205	0	3.8	4.0	-0.2	16	0.0
	Chhattisgarh	3666	0	83.0	36.8	-0.6	431	0.0
	Gujarat	17012	0	379.5	60.0	0.7	481	0.0
	MP	11095	0	245.8	142.1	-2.2	545	0.0
	Maharashtra	18309	0	397.3	112.8	-2.6	360	0.0
	Goa	447	0	8.9	8.6	-0.3	40	0.0
	DD	344	0	7.6	7.3	0.3	145	0.0
	DNH	780	0	18.2	18.4	-0.2	234	0.0
SR	AMNSIL	871	0	19.7	1.5	0.7	316	0.0
	Andhra Pradesh	7547	0	157.1	63.7	-0.5	399	0.0
	Telangana	6304	0	131.9	39.9	-0.6	670	0.0
	Karnataka	8264	0	155.0	38.5	-1.8	643	0.0
	Kerala	3185	0	65.8	33.0	-1.0	253	0.0
	Tamil Nadu	14246	0	321.3	174.1	-2.8	639	0.0
ER	Puducherry	398	0	8.5	8.3	0.1	63	0.0
	Bihar	6017	0	119.5	113.7	0.7	426	0.0
	DVC	3107	0	65.5	-52.1	-0.8	274	0.0
	Jharkhand	1550	0	30.5	23.8	-1.4	126	0.0
	Odisha	3691	0	90.3	9.9	-0.5	444	0.0
NER	West Bengal	8447	0	178.0	73.9	2.6	477	0.0
	Sikkim	81	0	1.2	1.3	-0.1	28	0.0
	Arunachal Pradesh	123	1	2.3	2.2	0.1	21	0.0
	Assam	1987	16	37.0	33.1	0.8	146	0.0
	Manipur	208	2	2.8	2.6	0.2	25	0.0
	Meghalaya	333	1	5.4	0.7	-0.2	35	0.0
	Mizoram	100	1	1.7	0.9	0.4	16	0.0
Nagaland	152	1	2.4	2.4	-0.2	15	0.0	
Tripura	309	5	5.4	6.8	0.6	54	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.3	-2.0	-25.9
Day Peak (MW)	1386.0	-249.8	-1111.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	337.3	-310.4	45.9	-74.9	2.0	0.0
Actual(MU)	342.8	-312.3	30.7	-72.6	4.9	-6.4
O/D/U/D(MU)	5.5	-1.9	-15.3	2.4	2.9	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5740	16418	10322	2755	275	35510
State Sector	12284	14341	17316	5085	112	49138
Total	18024	30759	27638	7840	387	84648

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	505	1207	344	482	10	2548
Lignite	20	13	17	0	0	50
Hydro	174	44	145	106	20	490
Nuclear	27	21	68	0	0	115
Gas, Naptha & Diesel	22	93	15	0	27	156
RES (Wind, Solar, Biomass & Others)	81	108	229	4	0	422
Total	829	1485	819	592	58	3783

Share of RES in total generation (%)	9.73	7.27	27.99	0.75	0.22	11.16
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	33.99	11.63	54.07	18.63	35.31	27.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.008
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: 17-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	19.4	-19.4
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.4	-7.4
3	765 kV	GAYA-VARANASI	2	109	643	0.0	6.8	-6.8
4	765 kV	SASARAM-FATEHPUR	1	252	135	0.9	0.0	0.9
5	765 kV	GAYA-BALIA	1	0	495	0.0	9.0	-9.0
6	400 kV	PUSAULI-VARANASI	1	0	268	0.0	5.6	-5.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	132	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	112	402	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	4	0	674	0.0	11.1	-11.1
10	400 kV	BIHARSHARIFF-BALIA	2	18	319	0.0	3.0	-3.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	281	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	299	141	2.8	0.0	2.8
13	220 kV	PUSAULI-SAHUPURI	1	0	126	0.0	2.3	-2.3
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						4.1	74.7	-70.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1009	739	2.8	0.0	2.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1539	0	23.3	0.0	23.3
3	765 kV	JHARSUGUDA-DURG	2	242	33	2.8	0.0	2.8
4	400 kV	JHARSUGUDA-RAIGARH	4	307	38	3.8	0.0	3.8
5	400 kV	RANCHI-SIPAT	2	588	0	8.8	0.0	8.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	146	0.0	2.2	-2.2
7	220 kV	BUDHIPADAR-KORBA	2	144	0	2.1	0.0	2.1
ER-WR						43.6	2.2	41.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	271	0.0	6.2	-6.2
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1627	0.0	32.6	-32.6
3	765 kV	ANGUL-SRIKAKULAM	2	0	2574	0.0	36.2	-36.2
4	400 kV	TALCHER-I/C	2	697	0	11.8	0.0	11.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
ER-SR						0.0	75.0	-75.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	0	450	0.0	7.7	-7.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	527	0.0	8.1	-8.1
3	220 kV	ALIPURDUAR-SALAKATI	2	0	130	0.0	2.3	-2.3
ER-NER						0.0	18.1	-18.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.6	-14.6
NER-NR						0.0	14.6	-14.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2000	0.0	70.6	-70.6
2	HVDC	VINDHYACHAL B/B	-	0	208	0.0	4.9	-4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1917	0.0	41.6	-41.6
4	765 kV	GWALIOR-AGRA	2	0	3253	0.0	53.4	-53.4
5	765 kV	PHAGI-GWALIOR	2	0	1625	0.0	26.3	-26.3
6	765 kV	JABALPUR-ORAI	2	0	1310	0.0	44.6	-44.6
7	765 kV	GWALIOR-ORAI	1	525	0	9.9	0.0	9.9
8	765 kV	SATNA-ORAI	1	0	1563	0.0	33.3	-33.3
9	765 kV	CHITORGARH-BANASKANTHA	2	0	996	0.0	15.1	-15.1
10	400 kV	ZERDA-KANKROLI	1	41	145	0.0	1.5	-1.5
11	400 kV	ZERDA -BHINMAL	1	65	153	0.0	0.7	-0.7
12	400 kV	VINDHYACHAL -RIHAND	1	982	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	497	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	0	138	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	100	0	0.2	0.2	0.0
17	220 kV	MALANPUR-AURAIYA	1	52	36	1.0	0.0	1.0
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						33.7	302.3	-268.6
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	518	0.0	8.2	-8.2
2	HVDC	RAIGARH-PUGALUR	2	287	498	0.0	0.5	-0.5
3	765 kV	SOLAPUR-RAICHUR	2	2261	1696	0.0	0.3	-0.3
4	765 kV	WARDHA-NIZAMABAD	2	1089	1863	0.0	9.6	-9.6
5	400 kV	KOLHAPUR-KUDGI	2	1172	0	15.9	0.0	15.9
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	92	1.7	0.0	1.7
WR-SR						17.6	18.6	-1.0

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)	398	0	382	9.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	622	0	554	13.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	260	231	233	5.6
	NER	132KV-GEYLEGPHU - SALAKATI	41	23	-35	-0.8
	NER	132kV Motanga-Rangia	64	40	-57	-1.4
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-52	0	-18	-0.4
	ER	132KV-BIHAR - NEPAL	-52	-1	-10	-0.2
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-146	-4	-57	-1.4
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-941	-929	-938	-22.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	86	0	-70	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	84	0	-70	-1.7