



**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

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Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 16<sup>th</sup> 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 15.10.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<sup>th</sup> 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: 16-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)	52609	50607	38538	22276	3035	167065
Peak Shortage (MW)	530	0	0	0	8	538
Energy Met (MU)	1184	1139	802	480	56	3661
Hydro Gen (MU)	183	44	135	105	21	488
Wind Gen (MU)	29	60	135	-	-	224
Solar Gen (MU)*	35.75	54.50	73.93	4.40	0.13	169
Energy Shortage (MU)	0.1	0.0	0.0	0.0	0.0	0.1
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	54588	50607	38641	22559	3076	166934
Time Of Maximum Demand Met (From NLDC SCADA)	11:52	19:00	18:48	20:19	18:02	18:53

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	0.034	0.00	0.56	6.65	7.21	76.23	16.56

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	8547	0	172.8	130.0	-2.4	73	0.0
	Haryana	7539	0	166.7	137.5	0.3	180	0.0
	Rajasthan	11805	0	249.3	88.1	1.6	505	0.0
	Delhi	4186	0	88.9	72.5	-1.4	97	0.0
	UP	19774	0	388.0	156.7	-1.0	437	0.0
	Uttarakhand	1917	0	38.4	22.3	1.2	233	0.1
	HP	1434	0	29.8	14.5	-0.2	94	0.0
	J&K(UT) & Ladakh(UT)	2488	0	45.8	31.6	1.1	336	0.0
WR	Chandigarh	202	0	3.9	4.1	-0.1	19	0.0
	Chhattisgarh	3673	0	81.6	38.4	-1.6	205	0.0
	Gujarat	17124	0	379.3	63.4	1.8	594	0.0
	MP	10880	0	241.1	136.9	-2.7	378	0.0
	Maharashtra	18248	0	384.9	92.8	-4.5	636	0.0
	Goa	423	0	8.7	8.5	-0.4	48	0.0
	DD	347	0	7.8	7.4	0.4	46	0.0
	DNH	808	0	18.7	18.8	-0.1	61	0.0
SR	AMNSIL	854	0	16.8	2.9	0.5	318	0.0
	Andhra Pradesh	7482	0	150.9	50.3	0.5	757	0.0
	Telangana	6033	0	118.9	33.7	-2.0	621	0.0
	Karnataka	7338	0	147.0	28.2	-0.9	510	0.0
	Kerala	3201	0	65.5	33.9	-0.1	260	0.0
	Tamil Nadu	14425	0	311.4	164.4	0.9	779	0.0
	Puducherry	397	0	8.2	8.3	-0.2	42	0.0
	ER	Bihar	5941	0	117.4	112.5	-0.5	400
DVC		3188	0	62.9	-51.2	-2.7	206	0.0
Jharkhand		1555	0	30.5	23.5	-1.1	105	0.0
Odisha		3976	0	90.9	11.7	-0.4	434	0.0
West Bengal		8688	0	176.7	71.3	1.3	392	0.0
Sikkim		89	0	1.3	1.4	-0.1	15	0.0
NER	Arunachal Pradesh	131	2	2.2	2.3	-0.1	11	0.0
	Assam	1989	6	36.5	33.0	0.5	177	0.0
	Manipur	207	1	2.7	2.6	0.1	20	0.0
	Meghalaya	306	0	5.3	1.5	-0.4	33	0.0
	Mizoram	95	2	1.4	0.9	0.1	17	0.0
	Nagaland	123	1	2.5	2.5	-0.3	12	0.0
	Tripura	301	1	5.4	7.1	0.3	55	0.0

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	30.3	-2.3	-25.6
Day Peak (MW)	1302.4	-322.2	-1083.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	379.3	-330.5	30.5	-81.3	2.0	0.0
Actual(MU)	379.2	-348.2	21.1	-59.5	2.7	-4.7
O/D/U/D(MU)	-0.1	-17.8	-9.4	21.8	0.7	-4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5740	15158	10612	2505	275	34290
State Sector	11654	15051	16816	5085	112	48718
Total	17394	30209	27428	7590	387	83008

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	501	1184	313	463	10	2472
Lignite	20	20	20	0	0	60
Hydro	183	44	135	105	21	488
Nuclear	27	20	68	0	0	115
Gas, Naptha & Diesel	21	109	15	0	28	173
RES (Wind, Solar, Biomass & Others)	78	123	241	4	0	447
Total	830	1500	793	572	59	3754
Share of RES in total generation (%)	9.37	8.22	30.38	0.77	0.22	11.89
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	34.66	12.50	56.07	19.08	36.05	27.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.053

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: 16-Oct-2020

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	HVDC	ALIPURDUAR-AGRA	2	0	1000	0.0	18.5	-18.5	
2	HVDC	PUSAULI B/B	-	0	297	0.0	7.2	-7.2	
3	765 kV	GAYA-VARANASI	2	60	530	0.0	4.6	-4.6	
4	765 kV	SASARAM-FATEHPUR	1	391	77	4.5	0.0	4.5	
5	765 kV	GAYA-BALIA	1	0	564	0.0	11.5	-11.5	
6	400 kV	PUSAULI-VARANASI	1	0	270	0.0	5.8	-5.8	
7	400 kV	PUSAULI -ALLAHABAD	1	0	104	0.0	1.2	-1.2	
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	58	535	0.0	3.9	-3.9	
9	400 kV	PATNA-BALIA	4	0	929	0.0	15.1	-15.1	
10	400 kV	BHARSHARIFE-BALIA	2	0	433	0.0	6.5	-6.5	
11	400 kV	MOTIHARIGORAKHPUR	2	0	276	0.0	4.6	-4.6	
12	400 kV	BHARSHARIFE-VARANASI	2	298	62	3.8	0.0	3.8	
13	220 kV	PUSAULI-SAHUPURI	1	0	125	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	8.7	81.2	-72.5
<b>Import/Export of ER (With WR)</b>									
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1178	347	8.1	0.0	8.1	
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1905	0	27.1	0.0	27.1	
3	765 kV	JHARSUGUDA-DURG	2	341	0	4.5	0.0	4.5	
4	400 kV	JHARSUGUDA-RAIGARH	4	414	46	3.9	0.0	3.9	
5	400 kV	RANCHI-SIPAT	2	608	0	11.1	0.0	11.1	
6	220 kV	BUDHIPADAR-RAIGARH	1	0	117	0.0	1.6	-1.6	
7	220 kV	BUDHIPADAR-KORBA	2	160	0	2.5	0.0	2.5	
						ER-WR	57.1	1.6	55.5
<b>Import/Export of ER (With SR)</b>									
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	272	0.0	6.2	-6.2	
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1490	0.0	36.0	-36.0	
3	765 kV	ANGUL-SRIKAKULAM	2	0	2627	0.0	31.3	-31.3	
4	400 kV	TALCHER-I/C	2	679	473	3.7	0.0	3.7	
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0	
						ER-SR	0.0	73.5	-73.5
<b>Import/Export of ER (With NER)</b>									
1	400 kV	BINAGURI-BONGAIGAON	2	0	478	0.0	6.7	-6.7	
2	400 kV	ALIPURDUAR-BONGAIGAON	2	0	547	0.0	6.5	-6.5	
3	220 kV	ALIPURDUAR-SALAKATI	2	0	132	0.0	2.0	-2.0	
						ER-NER	0.0	15.1	-15.1
<b>Import/Export of NER (With NR)</b>									
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	604	0.0	14.8	-14.8	
						NER-NR	0.0	14.8	-14.8
<b>Import/Export of WR (With NR)</b>									
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	78.9	-78.9	
2	HVDC	VINDHYACHAL B/B	-	0	403	0.0	7.1	-7.1	
3	HVDC	MUNDRA-MOHENDERGARH	2	0	1921	0.0	43.9	-43.9	
4	765 kV	GWALIOR-AGRA	2	0	3329	0.0	61.5	-61.5	
5	765 kV	PHAGL-GWALIOR	2	0	1731	0.0	27.8	-27.8	
6	765 kV	JABALPUR-ORAI	2	0	1259	0.0	49.6	-49.6	
7	765 kV	GWALIOR-ORAI	1	578	0	10.2	0.0	10.2	
8	765 kV	SATNA-ORAI	1	0	1663	0.0	34.6	-34.6	
9	765 kV	CHITORGARH-BANASKANTHA	2	0	1067	0.0	14.8	-14.8	
10	400 kV	ZERDA-KANKROLI	1	34	135	0.0	1.5	-1.5	
11	400 kV	ZERDA -BHINMAL	1	78	172	0.0	1.1	-1.1	
12	400 kV	VINDHYACHAL-RIHAND	1	971	0	22.5	0.0	22.5	
13	400 kV	RAPP-SIHUAI PUR	2	0	627	0.0	9.1	-9.1	
14	220 kV	BHANPURA-RANPUR	1	0	188	0.0	2.6	-2.6	
15	220 kV	BHANPURA-MORAK	1	11	0	0.0	2.2	-2.2	
16	220 kV	MEHGAON-AURAIYA	1	71	0	0.1	0.3	-0.2	
17	220 kV	MALANPUR-AURAIYA	1	32	35	0.6	0.0	0.6	
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	33.4	334.8	-301.4
<b>Import/Export of WR (With SR)</b>									
1	HVDC	BHADRAWATI B/B	-	496	515	0.0	8.8	-8.8	
2	HVDC	RAIGARH-PUGAULI	2	933	298	5.3	0.0	5.3	
3	765 kV	SOLAPUR-RAICHUR	2	2341	2019	3.1	0.0	3.1	
4	765 kV	WARDHA-NIZAMABAD	2	1013	1893	0.0	9.5	-9.5	
5	400 kV	KOLHAPUR-KUDGI	2	1314	0	17.8	0.0	17.8	
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	XELDAM-AMBEWADI	1	0	91	1.6	0.0	1.6	
						WR-SR	27.8	18.3	9.4

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)	415	0	372	8.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW))	610	0	568	13.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	274	0	234	5.6
	NER	132KV-GEYLEGPHU - SALAKATI	-45	-25	-35	-0.8
	NER	132kV Motanga-Rangis	-63	-43	-55	-1.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-55	0	-20	-0.5
	ER	132KV-BIHAR - NEPAL	-85	-1	-15	-0.3
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-182	-2	-61	-1.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-929	-927	-927	-22.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-69	-1.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	77	0	-69	-1.7