



**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: 19<sup>th</sup> Nov 2019

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 18.11.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-नवम्बर-2019 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 18<sup>th</sup> Nov 2019, 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: 19-Nov-2019

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 2000 hrs; from RLDCs)	43318	47269	39326	17992	2324	150229
Peak Shortage (MW)	529	0	0	0	52	581
Energy Met (MU)	853	1084	909	333	40	3220
Hydro Gen (MU)	134	39	98	49	10	331
Wind Gen (MU)	2	39	37	0	0	78
Solar Gen (MU)*	25.12	19.90	74.59	1.89	0.03	121.53
Energy Shortage (MU)	11.2	0.0	0.0	0.0	0.4	11.6
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	43453	48886	42146	18038	2391	154000
Time Of Maximum Demand Met (From NLDC SCADA)	18:37	17:49	18:27	18:11	17:31	18:27

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	0.042	0.21	1.38	7.09	8.68	79.24	12.08

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	5167	0	100.8	50.5	-1.6	85	0.0
	Haryana	5818	0	111.4	99.9	-0.1	209	0.0
	Rajasthan	10902	0	208.2	64.0	-0.1	342	0.0
	Delhi	3276	0	61.5	51.6	-1.8	119	0.0
	UP	14634	0	264.6	120.8	-0.2	947	1.1
	Uttarakhand	1734	0	33.2	18.2	0.5	107	0.0
	HP	1534	0	27.3	19.3	-0.3	55	0.0
	J&K	2118	529	42.5	35.7	-0.7	156	10.1
Chandigarh	188	0	3.3	3.2	0.1	35	0.0	
WR	Chhattisgarh	3398	0	70.8	25.0	-1.0	325	0.0
	Gujarat	14913	0	316.8	82.2	1.6	650	0.0
	MP	11738	0	232.0	151.4	-2.2	561	0.0
	Maharashtra	19557	0	421.9	137.5	-2.0	423	0.0
	Goa	541	0	12.0	12.2	-0.8	71	0.0
	DD	311	0	6.8	6.3	0.5	41	0.0
	DNH	787	0	18.1	18.1	0.0	29	0.0
Essar steel	284	0	5.7	5.7	0.0	0	0.0	
SR	Andhra Pradesh	8420	0	175.1	81.5	-0.1	481	0.1
	Telangana	9179	0	191.5	77.1	0.4	395	0.1
	Karnataka	9172	0	180.4	39.2	-0.7	774	0.1
	Kerala	3705	0	72.1	55.4	1.0	179	0.0
	Tamil Nadu	13562	0	282.8	168.2	0.6	421	0.1
Pondy	366	0	7.2	7.6	-0.5	40	0.0	
ER	Bihar	4186	0	68.6	65.5	-0.1	400	0.0
	DVC	3046	0	61.7	-37.9	-0.1	350	0.0
	Jharkhand	1122	0	23.8	17.3	-1.6	75	0.0
	Odisha	3637	0	66.7	7.0	-0.9	200	0.0
	West Bengal	6291	0	110.8	36.2	0.1	350	0.0
Sikkim	100	0	1.3	1.4	-0.0	30	0.0	
NER	Arunachal Pradesh	112	2	2.1	1.6	0.4	88	0.0
	Assam	1385	35	22.6	17.1	0.3	150	0.4
	Manipur	162	1	2.5	2.3	0.2	67	0.0
	Meghalaya	335	0	5.9	3.0	0.3	54	0.0
	Mizoram	93	1	1.7	0.4	1.0	27	0.0
	Nagaland	116	2	2.3	1.9	0.1	21	0.0
Tripura	232	1	3.5	2.4	-0.3	91	0.0	

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

	BHUTAN	NEPAL	BANGLADESH
Actual (MU)	11.2	-0.9	-17.0
Day Peak (MW)	587.6	-223.6	-979.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.7	-211.4	112.6	-109.8	-0.1	1.0
Actual(MU)	202.0	-213.0	119.9	-113.1	2.0	-2.2
O/D/UD(MU)	-7.7	-1.6	7.3	-3.3	2.1	-3.2

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	TOTAL
Central Sector	4819	16461	7882	1580	834	31576
State Sector	13701	17782	10240	4870	11	46604
<b>TOTAL</b>	<b>18520</b>	<b>34243</b>	<b>18122</b>	<b>6450</b>	<b>846</b>	<b>78180</b>

**G. Sourcewise generation (MU)**

	NR	WR	SR	ER	NER	All India
Coal	415	1104	431	432	8	2390
Lignite	63	48	153	0	0	264
Hydro	134	39	98	49	10	331
Nuclear	30	28	55	0	0	113
Gas,Naptha&Diesel	23	50	16	0	24	113
RES,Wind,Solar,Biomass&Others	49	70	146	2	0	267
<b>Total</b>	<b>713</b>	<b>1338</b>	<b>900</b>	<b>483</b>	<b>43</b>	<b>3478</b>

Share of RES in total generation (%)	7.26	5.36	18.29	0.40	0.07	8.08
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	31.70	10.47	37.53	10.62	24.14	21.53

**All India Demand Diversity Factor**

Based on Regional Max Demands	1.006
Based on State Max Demands	1.053

*Diversity factor = Sum of regional maximum demands / All India maximum demand*

\*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

# INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 19-Nov-2019

Sl No	Voltage Level	Line Details	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	-	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7
3	765 kV	GAYA-VARANASI	D/C	0	806	0.0	12.0	-12.0
4	765 kV	SASARAM-FATEHPUR	S/C	0	461	0.0	6.7	-6.7
5	765 kV	GAYA-BALIA	S/C	0	432	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	S/C	0	156	0.0	2.9	-2.9
7	400 kV	PUSAULI -ALLAHABAD	S/C	0	116	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	D/C	0	1093	0.0	17.2	-17.2
9	400 kV	PATNA-BALIA	Q/C	0	1135	0.0	22.9	-22.9
10	400 kV	BIHARSHARIFF-BALIA	D/C	0	375	0.0	6.7	-6.7
11	400 kV	MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12	400 kV	BIHARSHARIFF-VARANASI	D/C	0	305	0.0	3.9	-3.9
13	220 kV	PUSAULI-SAHUPURI	S/C	0	79	0.0	1.2	-1.2
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.4</b>	<b>87.7</b>	<b>-87.4</b>
<b>Import/Export of ER (With WR)</b>								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1654	0	22.9	0.0	22.9
2	765 kV	NEW RANCHI-DHARAMJAIGARH	D/C	268	518	0.0	1.2	-1.2
3	765 kV	JHARSUGUDA-DURG	D/C	32	219	0.0	1.5	-1.5
4	400 kV	JHARSUGUDA-RAIGARH	Q/C	189	227	0.0	0.7	-0.7
5	400 kV	RANCHI-SIPAT	D/C	137	162	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	S/C	6	77	0.0	0.9	-0.9
7	220 kV	BUDHIPADAR-KORBA	D/C	140	0	1.8	0.0	1.8
<b>ER-WR</b>						<b>25.1</b>	<b>4.2</b>	<b>20.9</b>
<b>Import/Export of ER (With SR)</b>								
1	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0	684	0.0	14.5	-14.5
2	HVDC	TALCHER-KOLAR BIPOLE	D/C	0	2475	0.0	47.5	-47.5
3	765 kV	ANGUL-SRIKAKULAM	D/C	0	2044	0.0	39.2	-39.2
4	400 kV	TALCHER-I/C	D/C	375	694	0.0	4.8	-4.8
5	220 kV	BALIMELA-UPPER-SILERRU	S/C	1	0	0.0	0.0	0.0
<b>ER-SR</b>						<b>0.0</b>	<b>101.2</b>	<b>-101.2</b>
<b>Import/Export of ER (With NER)</b>								
1	400 kV	BINAGURI-BONGAIGAON	D/C	264	63	3.9	0.0	3.9
2	400 kV	ALIPURDUAR-BONGAIGAON	D/C	281	75	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	D/C	51	35	0.5	0.0	0.5
<b>ER-NER</b>						<b>8.1</b>	<b>0.0</b>	<b>8.1</b>
<b>Import/Export of NER (With NR)</b>								
1	HVDC	BISWANATH CHARIALI-AGRA	-	371	0	9.2	0.0	9.2
<b>NER-NR</b>						<b>9.2</b>	<b>0.0</b>	<b>9.2</b>

**Import/Export of WR (With NR)**

1	HVDC	CHAMPA-KURUKSHETRA	D/C	0	855	0.0	23.9	-23.9
2	HVDC	V'CHAL B/B	D/C	454	0	12.1	0.0	12.1
3	HVDC	APL -MHG	D/C	0	1552	0.0	32.6	-32.6
4	765 kV	GWALIOR-AGRA	D/C	0	2105	0.0	37.1	-37.1
5	765 kV	PHAGI-GWALIOR	D/C	0	1318	0.0	20.8	-20.8
6	765 kV	JABALPUR-ORAI	D/C	816	797	0.0	26.7	-26.7
7	765 kV	GWALIOR-ORAI	S/C	591	0	10.6	0.0	10.6
8	765 kV	SATNA-ORAI	S/C	0	1326	0.0	28.1	-28.1
9	765 kV	CHITORGARH-BANASKANTHA	D/C	170	933	0.0	5.5	-5.5
10	400 kV	ZERDA-KANKROLI	S/C	100	135	0.5	0.5	0.1
11	400 kV	ZERDA -BHINMAL	S/C	75	315	0.0	2.5	-2.4
12	400 kV	V'CHAL -RIHAND	S/C	985	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	D/C	145	125	1.1	0.3	0.8
14	220 kV	BHANPURA-RANPUR	S/C	24	42	0.0	0.3	-0.3
15	220 kV	BHANPURA-MORAK	S/C	43	67	0.2	0.2	0.0
16	220 kV	MEHGAON-AURAIYA	S/C	120	0	1.6	0.0	1.6
17	220 kV	MALANPUR-AURAIYA	S/C	67	7	0.5	0.0	0.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>49.2</b>	<b>178.4</b>	<b>-129.2</b>

**Import/Export of WR (With SR)**

1	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.3	-12.3
2	HVDC	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
3	765 kV	SOLAPUR-RAICHUR	D/C	550	1850	0.9	21.1	-20.2
4	765 kV	WARDHA-NIZAMABAD	D/C	0	2398	0.0	40.9	-40.9
5	400 kV	KOLHAPUR-KUDGI	D/C	901	0	9.8	0.0	9.8
6	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	S/C	0	69	0.0	1.3	-1.3
8	220 kV	XELDEM-AMBEWADI	S/C	0	78	1.5	0.0	1.5
<b>WR-SR</b>						<b>12.3</b>	<b>75.6</b>	<b>-63.3</b>

**INTERNATIONAL EXCHANGES**

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	DAGACHU ( 2 * 63 )	0	0	0	0.0
	ER	CHUKA ( 4 * 84 ) BIRPARA RECEIPT	45	14	17	0.4
	ER	MANGDECHHU (4 x 180) ALIPURDUAR RECEIPT	223	185	180	4.3
	ER	TALA ( 6 * 170 ) BINAGURI RECEIPT	277	202	235	5.6
	NER	132KV-SALAKATI - GELEPHU	9	0	27	0.6
	NER	132KV-RANGIA - DEOTHANG	0	0	10	0.2
NEPAL	NR	132KV-Tanakpur(NH) - Mahendranagar(PG)	0	0	0	-0.0
	ER	132KV-BIHAR - NEPAL	-170	31	-34	-0.8
	ER	220KV-MUZAFFARPUR - DHALKEBAR DC	-54	-2	-2	-0.1
BANGLADESH	ER	Bheramara HVDC(Bangladesh)	-847	-294	-602	-14.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	66	0	-53	-1.3
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	66	0	-53	-1.3