



**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: 20<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 19.11.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-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 19<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 20-Nov-19

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43471	47787	40137	17851	2357	151603
Peak Shortage (MW)	514	0	0	0	43	557
Energy Met (MU)	866	1097	919	341	42	3264
Hydro Gen (MU)	133	50	103	49	12	347
Wind Gen (MU)	1	19	23	-----	-----	43
Solar Gen (MU)*	29.03	18.18	61.29	1.79	0.03	110
Energy Shortage (MU)	10.6	0.0	0.3	0.0	0.4	11.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44237 18:27	50030 10:59	42802 18:30	17990 18:00	2448 17:49	155581 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	0.035	0.00	0.45	5.98	6.44	78.98	14.58

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	5183	0	100.0	46.9	-1.9	7	0.0
	Haryana	5828	0	115.0	103.4	-0.3	113	0.0
	Rajasthan	10958	0	211.8	64.2	-0.9	588	0.0
	Delhi	3272	0	62.6	51.7	-0.7	158	0.0
	UP	14534	0	268.3	116.8	0.3	773	0.4
	Uttarakhand	1757	0	34.1	19.1	0.7	101	0.0
	HP	1420	0	27.4	19.6	-0.4	72	0.0
	J&K	2222	556	43.5	36.1	-0.1	201	10.3
	Chandigarh	193	0	3.4	3.3	0.1	18	0.0
WR	Chhattisgarh	3469	0	70.7	28.1	0.7	425	0.0
	Gujarat	14913	0	318.5	84.1	2.5	415	0.0
	MP	11926	0	235.2	149.1	-2.0	419	0.0
	Maharashtra	20141	0	429.8	136.1	-1.8	371	0.0
	Goa	541	0	12.0	12.3	-0.9	63	0.0
	DD	328	0	7.2	6.6	0.5	64	0.0
	DNH	770	0	18.0	18.1	-0.1	35	0.0
	Essar steel	296	0	5.5	5.4	0.0	295	0.0
	SR	Andhra Pradesh	8230	0	173.8	80.7	1.3	633
Telangana		8834	0	190.6	82.0	-0.1	429	0.1
Karnataka		9574	0	183.5	47.8	-1.5	596	0.1
Kerala		3505	0	72.6	55.8	0.9	171	0.0
Tamil Nadu		13950	0	291.4	176.7	3.2	544	0.1
Pondy		370	0	7.4	7.8	-0.4	18	0.0
ER	Bihar	3977	0	67.8	63.3	-1.9	50	0.0
	DVC	3254	0	62.9	-41.2	-1.4	300	0.0
	Jharkhand	1144	0	23.9	16.3	-0.4	31	0.0
	Odisha	3859	0	73.6	9.9	-0.1	250	0.0
	West Bengal	6207	0	111.2	32.6	0.6	300	0.0
	Sikkim	100	0	1.5	1.6	-0.1	20	0.0
NER	Arunachal Pradesh	110	2	2.1	1.8	0.1	65	0.0
	Assam	1422	28	23.6	18.7	0.0	136	0.4
	Manipur	168	3	2.6	2.5	0.1	29	0.0
	Meghalaya	337	0	5.9	3.0	0.2	40	0.0
	Mizoram	96	2	1.8	0.4	0.3	16	0.0
	Nagaland	113	1	2.1	2.0	-0.2	26	0.0
	Tripura	225	0	3.5	2.8	-0.6	34	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	10.6	-0.8	-16.8
Day peak (MW)	554.7	-242.0	-974.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	205.7	-204.7	116.6	-118.6	0.7	-0.4
Actual(MU)	215.9	-215.5	137.9	-135.9	-2.2	0.2
O/D/U/D(MU)	10.2	-10.8	21.3	-17.3	-2.9	0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5195	17641	7932	1850	563	33181
State Sector	13633	17655	10093	6220	11	47612
Total	18828	35296	18025	8070	575	80793

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	424	1114	446	454	13	2451
Lignite	22	15	56	0	0	93
Hydro	133	50	103	49	12	347
Nuclear	28	28	55	0	0	111
Gas, Naptha & Diesel	22	57	15	0	24	119
RES (Wind, Solar, Biomass & Others)	52	42	118	2	0	214
Total	682	1307	793	505	48	3335

Share of RES in total generation (%)	7.59	3.25	14.90	0.37	0.06	6.43
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.29	9.18	34.84	10.11	24.28	20.17

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.012
Based on State Max Demands	1.049

Diversity factor = Sum of regional or state-wise 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								Date of Reporting :	20-Nov-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for NET (MU)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	913	0.0	13.4	-13.4	
2		SASARAM-FATEHPUR	S/C	0	508	0.0	7.5	-7.5	
3		GAYA-BALIA	S/C	0	443	0.0	8.2	-8.2	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	4.8	-4.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	150	0.0	2.6	-2.6	
7		PUSAULI -ALLAHABAD	S/C	0	129	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1259	0.0	19.4	-19.4	
9		PATNA-BALIA	Q/C	0	1246	0.0	24.7	-24.7	
10		BIHARSHARIFF-BALIA	D/C	0	447	0.0	8.0	-8.0	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	410	0.0	5.1	-5.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	83	0.0	1.5	-1.5	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
<b>ER-NR</b>						<b>0.3</b>	<b>97.2</b>	<b>-96.9</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1534	0	22.4	0.0	22.4	
19		NEW RANCHI-DHARAMJAIGARH	D/C	56	650	0.0	5.7	-5.7	
20		JHARSUGUDA-DURG	D/C	45	192	0.0	2.0	-2.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	85	197	0.0	1.2	-1.2	
22		RANCHI-SIPAT	D/C	41	200	0.0	1.2	-1.2	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	107	0.0	1.8	-1.8	
24		BUDHIPADAR-KORBA	D/C	53	39	0.3	0.0	0.3	
<b>ER-WR</b>						<b>22.7</b>	<b>12.0</b>	<b>10.7</b>	
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2155.0	0.0	42.1	-42.1	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	14.6	-14.6	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2465.0	0.0	50.6	-50.6	
28	400 kV	TALCHER-I/C	D/C	331.0	720.0	0.0	7.0	-7.0	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>0.0</b>	<b>107.3</b>	<b>-107.3</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	365	61	4.3	0.0	4	
31		ALIPURDUAR-BONGAIGAON	D/C	402	91	4.1	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	71	12	0.7	0.0	1	
<b>ER-NER</b>						<b>9.1</b>	<b>0.0</b>	<b>9.1</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	462	0	7.1	0.0	7.1	
<b>NER-NR</b>						<b>7.1</b>	<b>0.0</b>	<b>7.1</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1504	0.0	9.1	-9.1	
35		V'CHAL B/B	D/C	451	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1739	0.0	37.1	-37.1	
37	765 kV	GWALIOR-AGRA	D/C	0	1649	0.0	31.0	-31.0	
38		PHAGI-GWALIOR	D/C	0	1235	0.0	18.9	-18.9	
39		JABALPUR-ORAI	D/C	571	660	0.0	42.4	-42.4	
40		GWALIOR-ORAI	S/C	538	0	10.1	0.0	10.1	
41		SATNA-ORAI	S/C	0	1235	0.0	10.2	-10.2	
42		CHITTORGARH-BANASKANTHA	D/C	450	535	1.6	2.8	-1.2	
43		ZERDA-KANKROLI	S/C	149	77	1.6	0.1	1.4	
44	400 kV	ZERDA -BHINMAL	S/C	141	263	0.5	1.2	-0.8	
45		V'CHAL -RIHAND	S/C	990	0	1.4	0.8	0.6	
46		RAPP-SHUJALPUR	D/C	217	88	11	19	-8	
47	220 kV	BHANPURA-RANPUR	S/C	36	48	0.1	0.2	-0.1	
48		BHANPURA-MORAK	S/C	42	45	0.3	0.2	0.1	
49		MEHGAON-AURAIYA	S/C	118	0	1.8	0.0	1.8	
50		MALANPUR-AURAIYA	S/C	69	2	0.7	0.0	0.7	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>41.2</b>	<b>173.0</b>	<b>-131.8</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	518	0.0	12.0	-12.0	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2013	0.0	28.0	-28.0	
55		WARDHA-NIZAMABAD	D/C	0	2521	0.0	20.6	-20.6	
56	400 kV	KOLHAPUR-KUDGI	D/C	709	86	7.7	0.0	7.7	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	70	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	78	1.5	0.0	1.5	
<b>WR-SR</b>						<b>9.2</b>	<b>62.1</b>	<b>-52.8</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						10.6	
61		NEPAL						-0.8	
62		BANGLADESH						-16.8	