



**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: 12<sup>th</sup> Dec 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 11.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-दिसम्बर-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 11<sup>th</sup> Dec 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 12-Dec-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)	45451	49147	38836	18038	2296	153768
Peak Shortage (MW)	881	0	0	0	39	920
Energy Met (MU)	898	1166	910	347	40	3360
Hydro Gen (MU)	126	52	85	42	10	315
Wind Gen (MU)	5	11	24	-----	-----	40
Solar Gen (MU)*	19.64	20.8	76.58	1.87	0.02	119
Energy Shortage (MU)	13.3	0.0	1.0	0.0	0.3	14.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45758 18:21	54119 10:45	41630 08:09	18455 18:26	2409 17:17	156472 18:31

**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	0.066	0.24	2.77	12.88	15.89	69.56	14.55

**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	5711	0	110.8	50.5	-2.0	12	0.0	
	Haryana	6050	125	121.0	88.7	0.5	216	0.3	
	Rajasthan	12552	231	229.9	71.3	2.3	459	0.0	
	Delhi	3722	0	65.4	53.6	-0.5	203	0.0	
	UP	14011	0	253.4	95.4	-0.3	875	1.2	
	Uttarakhand	1975	0	36.4	20.3	0.3	119	0.3	
	HP	1661	4	30.3	22.4	0.5	234	0.5	
	J&K(UT) and Ladakh(UT)	2510	628	46.9	39.5	2.1	201	11.0	
	Chandigarh	226	0	3.7	3.4	0.3	61	0.0	
	WR	Chhattisgarh	3500	0	76.2	12.5	1.4	307	0.0
Gujarat		15264	0	332.2	99.3	1.7	543	0.0	
MP		13878	0	257.5	143.9	-3.4	419	0.0	
Maharashtra		21904	0	455.5	139.8	-7.1	467	0.0	
Goa		541	0	12.8	11.7	0.5	56	0.0	
DD		335	0	7.5	6.9	0.6	49	0.0	
DNH		821	0	19.0	19.1	-0.1	41	0.0	
Essar steel		336	0	5.6	5.7	-0.1	295	0.0	
SR		Andhra Pradesh	7735	0	163.0	74.3	-1.0	294	0.2
		Telangana	9451	0	192.7	90.2	0.3	356	0.2
	Karnataka	10566	0	196.1	48.7	-0.7	538	0.2	
	Kerala	3583	0	72.5	57.2	0.8	267	0.1	
	Tamil Nadu	13607	0	278.4	170.3	1.7	653	0.3	
	Pondy	360	0	7.1	7.5	-0.5	20	0.0	
	ER	Bihar	4067	0	67.9	66.6	-1.2	250	0.0
DVC		3057	0	62.3	-36.9	-0.9	200	0.0	
Jharkhand		1133	0	24.8	17.0	-0.8	31	0.0	
Odisha		4043	0	76.5	15.8	-1.4	300	0.0	
West Bengal		6374	0	113.5	24.7	-0.7	350	0.0	
Sikkim		107	0	1.8	1.8	0.0	30	0.0	
NER	Arunachal Pradesh	118	2	2.3	1.9	0.2	75	0.0	
	Assam	1298	32	21.1	16.3	0.1	89	0.2	
	Manipur	181	1	2.6	2.7	-0.2	36	0.0	
	Meghalaya	362	0	6.3	2.6	0.4	58	0.0	
	Mizoram	98	3	1.7	0.8	0.3	25	0.0	
	Nagaland	124	2	2.2	2.3	-0.3	18	0.0	
	Tripura	212	2	3.4	1.5	-0.4	31	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.3	-5.7	-9.4
Day peak (MW)	387.0	-350.0	-734.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	199.9	-195.6	108.6	-110.6	-2.2	0.1
Actual(MU)	203.8	-192.3	114.5	-121.2	-1.8	3.0
O/D/U/D(MU)	3.9	3.3	5.9	-10.6	0.4	2.9

**F. Generation Outage(MW)**

	NR	WR	SR	ER	NER	Total
Central Sector	6611	17620	7362	1470	804	33866
State Sector	12431	14645	10140	5750	11	42977
Total	19042	32264	17502	7220	815	76843

**G. Sourcewise generation (MU)**

	NR	WR	SR	ER	NER	All India
Coal	468	1207	462	447	14	2597
Lignite	22	15	44	0	0	81
Hydro	126	52	85	42	10	315
Nuclear	24	23	57	0	0	105
Gas, Naptha & Diesel	25	46	16	0	22	108
RES (Wind, Solar, Biomass & Others)	52	37	143	2	0	234
Total	716	1379	807	491	46	3439

Share of RES in total generation (%)	7.23	2.67	17.72	0.39	0.04	6.79
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.15	8.11	35.33	8.97	21.75	18.98

**H. All India Demand Diversity Factor**

Based on Regional Max Demands	1.038
Based on State Max Demands	1.096

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 :	12-Dec-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>									
4	HVDC	ALIPURDUAR-AGRA	-	0	500	0.0	12.3	-12.3	
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9	
1	765kV	GAYA-VARANASI	D/C	0	899	0.0	13.5	-13.5	
2		SASARAM-FATEHPUR	S/C	0	177	0.0	5.6	-5.6	
3		GAYA-BALIA	S/C	0	438	0.0	7.6	-7.6	
6	400 kV	PUSAULI-VARANASI	S/C	0	132	0.0	2.6	-2.6	
7		PUSAULI -ALLAHABAD	S/C	0	134	0.0	2.2	-2.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	960	0.0	11.7	-11.7	
9		PATNA-BALIA	Q/C	0	949	0.0	17.5	-17.5	
10		BIHARSHARIFF-BALIA	D/C	0	387	0.0	5.6	-5.6	
11		MOTIHARI-GORAKHPUR	D/C	3	6	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	362	0.0	3.7	-3.7	
13		220 kV	PUSAULI-SAHUPURI	S/C	42	46	0.0	0.4	-0.4
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.4	0.0	0.4	
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>0.4</b>	<b>70.4</b>	<b>-70.1</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1126	25	10.7	0.0	10.7	
19		NEW RANCHI-DHARAMJAIGARH	D/C	310	582	0.0	1.8	-1.8	
20		JHARSUGUDA-DURG	D/C	28	225	0.0	3.0	-3.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	285	180	1.7	0.0	1.7	
22		RANCHI-SIPAT	D/C	145	197	0.1	0.0	0.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	131	0.0	2.3	-2.3	
24		BUDHIPADAR-KORBA	D/C	135	0	2.0	0.0	2.0	
<b>ER-WR</b>						<b>14.5</b>	<b>7.0</b>	<b>7.5</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	687.0	0.0	13.7	-13.7	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2461.0	0.0	44.7	-44.7	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2116.0	0.0	34.5	-34.5	
28	400 kV	TALCHER-I/C	D/C	404.0	663.0	0.0	0.4	-0.4	
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>92.9</b>	<b>-92.9</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	31	292	0.0	1.7	-2	
31		ALIPURDUAR-BONGAIGAON	D/C	266	70	3.6	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	30	50	0.0	0.0	0	
<b>ER-NER</b>						<b>3.7</b>	<b>1.7</b>	<b>2.0</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0	
<b>NER-NR</b>						<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	304	0.0	10.6	-10.6	
35		V'CHAL B/B	D/C	364	0	9.7	0.0	9.7	
36	765 kV	APL -MHG	D/C	0	1364	0.0	33.9	-33.9	
37		GWALIOR-AGRA	D/C	0	2059	0.0	36.0	-36.0	
38		PHAGI-GWALIOR	D/C	0	1657	0.0	25.0	-25.0	
39		JABALPUR-ORAI	D/C	0	770	0.0	25.9	-25.9	
40		GWALIOR-ORAI	S/C	659	0	10.6	0.0	10.6	
41		SATNA-ORAI	S/C	0	1358	0.0	28.6	-28.6	
42		CHITTORGARH-BANASKANTHA	D/C	119	579	0.0	3.1	-3.1	
43		ZERDA-KANKROLI	S/C	132	92	0.6	0.0	0.6	
44	400 kV	ZERDA -BHINMAL	S/C	173	339	0.0	2.9	-2.9	
45		V'CHAL -RIHAND	S/C	980	0	22.6	0.0	22.6	
46		RAPP-SHUJALPUR	D/C	139	220	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	18	69	0.9	0.0	0.9	
48		BHANPURA-MORAK	S/C	19	142	0.0	1.4	-1.3	
49		MEHGAON-AURAIYA	S/C	128	0	1.3	0.0	1.3	
50		MALANPUR-AURAIYA	S/C	79	22	0.5	0.0	0.5	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>46.3</b>	<b>167.8</b>	<b>-121.6</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	989	0.0	17.6	-17.6	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	316	1986	0.0	18.4	-18.4	
55		WARDHA-NIZAMABAD	D/C	2168	2439	0.0	35.2	-35.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	714	71	8.8	0.0	8.8	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	3	69	0.0	0.9	-0.9	
59		XELDEM-AMBEWADI	S/C	1	77	1.1	0.0	1.1	
<b>WR-SR</b>						<b>9.9</b>	<b>72.2</b>	<b>-62.2</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						7.3	
61		NEPAL						-5.7	
62		BANGLADESH						-9.4	