



**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: 01<sup>st</sup> Jan 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 31.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31-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 31<sup>st</sup> Dec 2019, is available at the NLDC website.

धन्यवाद,

पाँवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting

1-Jan-20

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)	50453	46564	38605	18764	2426	156812
Peak Shortage (MW)	657	0	0	0	45	702
Energy Met (MU)	1021	1113	952	352	42	3480
Hydro Gen (MU)	118	41	103	33	9	303
Wind Gen (MU)	23	50	29	-----	-----	102
Solar Gen (MU)*	15.12	19.40	68.46	1.56	0.05	105
Energy Shortage (MU)	14.1	0.5	0.0	0.0	0.7	15.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51465 10:17	55086 09:43	46002 09:19	18823 18:16	2457 17:24	169360 09:43

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	0.053	0.00	1.98	10.72	12.70	73.23	14.07

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	6203	0	121.9	55.2	-1.8	97	0.0
	Haryana	6808	0	133.5	77.5	-0.7	174	0.0
	Rajasthan	13128	386	240.2	67.1	0.4	510	0.0
	Delhi	5149	0	85.5	73.1	0.3	285	0.0
	UP	16894	310	311.8	143.0	0.2	491	1.1
	Uttarakhand	2088	0	39.3	26.3	-0.2	133	0.1
	HP	1692	0	30.1	23.7	-0.3	134	0.0
	J&K(UT) and Ladakh(UT)	2755	689	54.1	44.1	4.7	552	12.8
	Chandigarh	306	0	4.9	4.7	0.2	46	0.0
WR	Chhattisgarh	3767	0	78.8	27.6	-1.0	435	0.1
	Gujarat	15676	0	316.7	68.5	-2.5	538	0.0
	MP	14498	0	253.6	122.8	-3.9	320	0.0
	Maharashtra	21162	0	419.6	127.0	-1.6	468	0.0
	Goa	508	25	13.7	11.3	1.9	38	0.4
	DD	307	0	6.9	6.4	0.5	46	0.0
	DNH	773	0	18.2	18.3	-0.1	30	0.0
	Essar steel	318	0	5.1	5.6	-0.5	262	0.0
	SR	Andhra Pradesh	8561	0	170.1	66.3	-0.5	367
Telangana		10347	0	204.5	100.3	-0.6	399	0.0
Karnataka		11660	0	212.2	59.4	0.6	819	0.0
Kerala		3716	0	73.6	56.1	1.0	203	0.0
Tamil Nadu		13703	0	285.2	165.9	1.6	530	0.0
Pondy		349	0	6.5	7.1	-0.6	16	0.0
ER	Bihar	4656	0	82.0	81.2	-0.7	255	0.0
	DVC	3090	0	64.3	-31.5	-0.4	200	0.0
	Jharkhand	1391	0	25.6	17.0	-0.5	180	0.0
	Odisha	3697	0	67.9	5.3	0.1	230	0.0
	West Bengal	6255	0	110.2	28.2	-0.3	375	0.0
	Sikkim	129	0	1.9	1.7	0.2	40	0.0
NER	Arunachal Pradesh	109	1	2.2	1.9	0.2	34	0.0
	Assam	1358	28	23.4	17.3	1.3	90	0.2
	Manipur	211	2	2.4	3.1	-0.7	23	0.0
	Meghalaya	363	0	6.5	3.0	0.6	69	0.5
	Mizoram	102	0	1.8	1.4	0.3	14	0.0
	Nagaland	127	1	2.2	2.3	-0.2	16	0.0
Tripura	231	0	3.6	1.6	-0.2	28	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.0	-9.8	-9.7
Day peak (MW)	523.8	-518.6	-759.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.5	-278.0	114.8	-87.6	-1.6	0.0
Actual(MU)	265.7	-303.4	134.6	-96.5	-0.6	-0.3
O/D/U/D(MU)	13.2	-25.4	19.8	-8.9	1.0	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4973	15813	7752	2310	597	31444
State Sector	13714	15458	9370	5040	11	43593
Total	18687	31270	17122	7350	608	75037

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	521	1221	475	445	15	2678
Lignite	19	13	50	0	0	81
Hydro	118	41	103	33	9	303
Nuclear	29	34	44	0	0	106
Gas, Naptha & Diesel	27	40	17	0	23	108
RES (Wind, Solar, Biomass & Others)	68	81	139	2	0	290
Total	782	1430	828	480	47	3568

Share of RES in total generation (%)	8.67	5.68	16.81	0.34	0.11	8.13
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.44	10.90	34.51	7.22	18.67	19.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.075

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 :	1-Jan-20
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	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	299	0.0	7.1	-7.1	
1	765kV	GAYA-VARANASI	D/C	0	1061	0.0	12.1	-12.1	
2		SASARAM-FATEHPUR	S/C	28	448	0.0	5.1	-5.1	
3		GAYA-BALIA	S/C	0	601	0.0	8.8	-8.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	217	0.0	3.9	-3.9	
7		PUSAULI -ALLAHABAD	S/C	0	194	0.0	3.1	-3.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	887	0.0	10.0	-10.0	
9		PATNA-BALIA	Q/C	0	983	0.0	17.1	-17.1	
10		BIHARSHARIFF-BALIA	D/C	0	437	0.0	6.5	-6.5	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	50	448	0.0	4.3	-4.3	
13		220 kV	PUSAULI-SAHUPURI	S/C	3	103	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6	
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>0.6</b>	<b>72.0</b>	<b>-71.4</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1003	316	10.1	0.0	10.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	705	75	5.7	0.0	5.7	
20		JHARSUGUDA-DURG	D/C	102	149	0.0	0.8	-0.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	255	232	0.4	0.0	0.4	
22		RANCHI-SIPAT	D/C	235	50	1.2	0.0	1.2	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	105	0.0	1.3	-1.3	
24		BUDHIPADAR-KORBA	D/C	186	0	2.7	0.0	2.7	
						<b>ER-WR</b>	<b>20.2</b>	<b>2.2</b>	<b>18.0</b>
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	662.0	0.0	11.4	-11.4	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2467.0	0.0	46.2	-46.2	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2032.0	0.0	38.2	-38.2	
28	400 kV	TALCHER-I/C	D/C	319.0	880.0	0.0	5.6	-5.6	
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>95.9</b>	<b>-95.9</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	271	0	4.8	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	356	0	5.9	0.0	6	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	72	5	1.0	0.0	1	
						<b>ER-NER</b>	<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	490	0	11.5	0.0	11.5	
						<b>NER-NR</b>	<b>11.5</b>	<b>0.0</b>	<b>11.5</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2805	0.0	44.5	-44.5	
35		V'CHAL B/B	D/C	447	488	5.9	2.7	3.2	
36	765 kV	APL -MHG	D/C	0	2379	0.0	44.9	-44.9	
37		GWALIOR-AGRA	D/C	0	2856	0.0	49.6	-49.6	
38		PHAGI-GWALIOR	D/C	0	1748	0.0	23.9	-23.9	
39		JABALPUR-ORAI	D/C	0	1011	0.0	35.0	-35.0	
40		GWALIOR-ORAI	S/C	742	0	8.2	0.0	8.2	
41		SATNA-ORAI	S/C	0	1528	0.0	31.2	-31.2	
42		CHITTORGARH-BANASKANTHA	D/C	188	975	0.0	6.6	-6.6	
43		ZERDA-KANKROLI	S/C	131	170	0.4	0.0	0.4	
44	400 kV	ZERDA -BHINMAL	S/C	212	347	0.0	1.2	-1.2	
45		V'CHAL -RIHAND	S/C	967	0	22.2	0.0	22.2	
46		RAPP-SHUJALPUR	D/C	88	412	0	3	-3	
47	220 kV	BHANPURA-RANPUR	S/C	20	87	0.3	0.4	-0.1	
48		BHANPURA-MORAK	S/C	6	120	0.0	1.2	-1.2	
49		MEHGAON-AURAIYA	S/C	99	0	1.3	0.0	1.3	
50	132kV	MALANPUR-AURAIYA	S/C	37	41	0.3	0.1	0.2	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>38.4</b>	<b>243.9</b>	<b>-205.5</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	518	0.0	11.1	-11.1	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	289	2125	0.0	32.8	-32.8	
55		WARDHA-NIZAMABAD	D/C	0	2713	0.0	44.2	-44.2	
56	400 kV	KOLHAPUR-KUDGI	D/C	771	0	7.3	0.0	7.3	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0	
59		XELDEM-AMBEWADI	S/C	1	78	0.6	0.0	0.5	
						<b>WR-SR</b>	<b>7.9</b>	<b>88.1</b>	<b>-80.2</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						<b>4.0</b>	
61		NEPAL						<b>-9.8</b>	
62		BANGLADESH						<b>-9.7</b>	