



**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: 31<sup>st</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 30.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30<sup>th</sup> Dec 2019, is available at the NLDC website.

धन्यवाद,

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

Report for previous day

Date of Reporting

31-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)	50399	47898	38024	17962	2408	156691
Peak Shortage (MW)	599	0	0	0	37	636
Energy Met (MU)	1012	1124	922	351	40	3449
Hydro Gen (MU)	119	46	90	34	8	297
Wind Gen (MU)	16	58	40	-----	-----	114
Solar Gen (MU)*	25.03	20.10	77.11	1.69	0.04	124
Energy Shortage (MU)	12.4	0.2	0.0	0.0	0.6	13.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51581 19:24	54947 11:11	44383 09:26	18752 18:48	2387 18:08	166508 09:52

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	0.060	0.00	2.13	12.60	14.73	73.51	11.76

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	6007	0	119.9	52.4	-1.5	138	0.0
	Haryana	6969	0	130.3	76.7	-0.7	149	0.0
	Rajasthan	12836	0	234.1	69.2	-4.5	287	0.0
	Delhi	5001	0	85.8	74.7	0.5	282	0.0
	UP	17412	300	313.9	141.0	-1.5	625	0.0
	Uttarakhand	2102	0	40.7	27.5	0.1	133	0.0
	HP	1692	0	30.0	22.4	0.4	201	0.0
	J&K(UT) and Ladakh(UT)	2611	653	52.5	45.2	1.9	482	12.4
	Chandigarh	305	0	5.0	4.9	0.1	40	0.0
WR	Chhattisgarh	3721	0	78.7	21.4	0.0	358	0.0
	Gujarat	15725	0	319.5	73.4	-2.6	578	0.0
	MP	14120	0	253.0	121.6	-2.6	877	0.0
	Maharashtra	21704	0	428.6	132.7	0.2	466	0.0
	Goa	521	25	12.8	10.7	1.6	72	0.2
	DD	317	0	7.0	6.5	0.5	57	0.0
	DNH	800	0	18.6	18.6	0.0	60	0.0
	Essar steel	353	0	5.7	6.0	-0.3	249	0.0
	Andhra Pradesh	8255	0	164.6	65.9	-0.9	358	0.0
SR	Telangana	10418	0	204.2	99.6	-0.1	417	0.0
	Karnataka	11530	0	206.3	50.3	-1.8	566	0.0
	Kerala	3640	0	72.7	56.0	1.0	189	0.0
	Tamil Nadu	13184	0	268.3	155.7	-0.8	369	0.0
	Pondy	322	0	6.3	6.8	-0.5	49	0.0
	Bihar	4756	0	82.3	79.5	0.9	300	0.0
ER	DVC	3059	0	63.4	-26.2	2.1	400	0.0
	Jharkhand	1311	0	24.8	16.5	-1.3	100	0.0
	Odisha	3912	0	70.2	4.4	-0.3	200	0.0
	West Bengal	6184	0	108.2	24.8	-0.9	200	0.0
	Sikkim	131	0	2.0	1.7	0.2	20	0.0
	Arunachal Pradesh	123	2	2.1	1.9	0.1	34	0.0
NER	Assam	1355	35	21.7	17.6	-0.3	90	0.2
	Manipur	214	1	2.7	3.2	-0.5	23	0.0
	Meghalaya	374	0	6.1	3.1	0.4	69	0.4
	Mizoram	112	1	1.9	1.5	0.3	14	0.0
	Nagaland	123	1	2.2	2.1	-0.1	16	0.0
	Tripura	227	0	3.4	1.5	-0.3	28	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.9	-10.0	-7.8
Day peak (MW)	313.5	-540.0	-563.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	252.1	-269.4	109.1	-90.8	-1.3	-0.3
Actual(MU)	260.0	-280.6	116.3	-96.9	-1.7	-2.9
O/D/U/D(MU)	7.9	-11.2	7.2	-6.1	-0.4	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4973	15713	7752	1810	597	30844
State Sector	11654	15337	9280	5040	11	41322
Total	16627	31050	17032	6850	608	72167

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	518	1207	480	439	13	2657
Lignite	18	14	50	0	0	82
Hydro	119	46	90	34	8	297
Nuclear	29	27	44	0	0	100
Gas, Naptha & Diesel	25	32	17	0	24	99
RES (Wind, Solar, Biomass & Others)	70	90	156	2	0	317
Total	780	1415	837	475	46	3553

Share of RES in total generation (%)	8.99	6.33	18.60	0.36	0.09	8.93
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.98	11.48	34.57	7.53	18.03	20.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.090

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 :	31-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	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	297	0.0	7.3	-7.3	
1	765kV	GAYA-VARANASI	D/C	0	892	0.0	11.4	-11.4	
2		SASARAM-FATEHPUR	S/C	0	457	0.0	4.7	-4.7	
3		GAYA-BALIA	S/C	0	706	0.0	10.2	-10.2	
6	400 kV	PUSAULI-VARANASI	S/C	0	212	0.0	4.3	-4.3	
7		PUSAULI -ALLAHABAD	S/C	0	165	0.0	2.8	-2.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	879	0.0	10.9	-10.9	
9		PATNA-BALIA	Q/C	0	1203	0.0	19.3	-19.3	
10		BIHARSHARIFF-BALIA	D/C	0	542	0.0	8.4	-8.4	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	445	0.0	4.0	-4.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	107	0.0	1.2	-1.2	
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>77.3</b>	<b>-76.7</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5617	276	6.8	0.0	6.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	568	0	6.9	0.0	6.9	
20		JHARSUGUDA-DURG	D/C	67	129	0.0	1.1	-1.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	234	168	0.9	0.0	0.9	
22		RANCHI-SIPAT	D/C	201	1	2.4	0.0	2.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	144	0.0	2.1	-2.1	
24		BUDHIPADAR-KORBA	D/C	149	10	2.1	0.0	2.1	
<b>ER-WR</b>						<b>19.0</b>	<b>3.2</b>	<b>15.8</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	508.0	0.0	12.3	-12.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1975.0	0.0	39.1	-39.1	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2161.0	0.0	36.5	-36.5	
28	400 kV	TALCHER-I/C	D/C	425.0	486.0	1.0	0.0	1.0	
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>87.9</b>	<b>-87.9</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	307	0	4.6	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	356	0	5.6	0.0	6	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	75	3	1.0	0.0	1	
<b>ER-NER</b>						<b>11.1</b>	<b>0.0</b>	<b>11.1</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	491	0	10.2	0.0	10.2	
<b>NER-NR</b>						<b>10.2</b>	<b>0.0</b>	<b>10.2</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2352	0.0	36.8	-36.8	
35		V'CHAL B/B	D/C	449	489	0.0	2.3	-2.3	
36		APL -MHG	D/C	0	2379	0.0	41.2	-41.2	
37	765 kV	GWALIOR-AGRA	D/C	0	2986	0.0	50.3	-50.3	
38		PHAGI-GWALIOR	D/C	0	1813	0.0	21.8	-21.8	
39		JABALPUR-ORAI	D/C	0	1152	0.0	35.2	-35.2	
40		GWALIOR-ORAI	S/C	698	0	11.2	0.0	11.2	
41		SATNA-ORAI	S/C	0	1503	0.0	30.7	-30.7	
42		CHITTORGARH-BANASKANTHA	D/C	181	735	0.0	3.7	-3.7	
43		ZERDA-KANKROLI	S/C	156	130	0.8	0.0	0.8	
44	400 kV	ZERDA -BHINMAL	S/C	148	324	0.0	1.6	-1.6	
45		V'CHAL -RIHAND	S/C	973	0	20.7	0.0	20.7	
46		RAPP-SHUJALPUR	D/C	129	411	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	28	71	0.2	0.5	-0.3	
48		BHANPURA-MORAK	S/C	10	128	0.0	1.3	-1.3	
49		MEHGAON-AURAIYA	S/C	87	0	0.9	0.0	0.9	
50	132kV	MALANPUR-AURAIYA	S/C	29	28	0.1	0.1	0.0	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>33.9</b>	<b>227.7</b>	<b>-193.7</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	498	0.0	11.8	-11.8	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	328	2143	0.0	26.3	-26.3	
55		WARDHA-NIZAMABAD	D/C	0	2664	0.0	42.3	-42.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	739	0	9.0	0.0	9.0	
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	110	1.5	0.0	1.5	
<b>WR-SR</b>						<b>10.6</b>	<b>80.4</b>	<b>-69.9</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						3.9	
61		NEPAL						-10.0	
62		BANGLADESH						-7.8	