



**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: 18<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 17.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-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 17<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

18-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)	45701	47350	39222	17787	2268	152328
Peak Shortage (MW)	540	0	0	0	38	578
Energy Met (MU)	892	1099	906	337	39	3273
Hydro Gen (MU)	124	38	81	35	9	287
Wind Gen (MU)	15	103	57	-----	-----	176
Solar Gen (MU)*	25.46	19.60	73.16	1.84	0.04	120
Energy Shortage (MU)	13.1	0.0	0.0	0.0	0.6	13.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46177 18:39	52276 09:30	43102 07:41	17920 18:51	2429 17:24	155445 09:29

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	0.031	0.00	0.32	3.62	3.95	75.43	20.63

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	5513	0	105.0	59.1	-1.2	111	0.0
	Haryana	6397	0	119.2	90.8	0.7	272	0.0
	Rajasthan	12320	0	222.5	64.6	-0.8	394	0.0
	Delhi	4028	0	70.2	54.2	-0.6	197	0.0
	UP	14041	0	253.5	102.1	1.2	790	1.5
	Uttarakhand	2044	0	38.5	21.0	0.3	256	0.0
	HP	1673	0	30.0	22.1	0.3	182	0.0
	J&K(UT) and Ladakh(UT)	2323	581	48.9	42.4	1.2	242	11.5
WR	Chandigarh	250	0	4.2	3.9	0.2	32	0.0
	Chhattisgarh	3575	0	75.8	16.5	0.2	869	0.0
	Gujarat	14659	0	309.1	78.9	-4.8	592	0.0
	MP	12514	0	223.8	112.6	-2.9	328	0.0
	Maharashtra	21809	0	445.4	134.1	-0.7	439	0.0
	Goa	611	0	12.7	12.1	0.0	37	0.0
	DD	338	0	7.3	7.0	0.3	41	0.0
	DNH	806	0	18.6	18.6	0.0	30	0.0
SR	Essar steel	320	0	6.3	6.7	-0.4	199	0.0
	Andhra Pradesh	7763	0	158.2	69.8	-0.2	424	0.0
	Telangana	10329	0	208.6	114.8	1.1	498	0.0
	Karnataka	10882	0	198.9	34.7	-0.4	607	0.0
	Kerala	3325	0	67.1	56.2	0.8	153	0.0
	Tamil Nadu	13072	0	266.2	136.7	0.0	576	0.0
ER	Pondy	353	0	7.0	7.4	-0.3	50	0.0
	Bihar	3938	0	65.4	64.5	-0.4	150	0.0
	DVC	3162	0	63.8	-31.1	0.0	250	0.0
	Jharkhand	1248	0	24.2	15.5	-1.3	50	0.0
	Odisha	3679	0	68.9	9.0	-0.3	300	0.0
	West Bengal	6167	0	112.9	31.2	2.3	300	0.0
NER	Sikkim	122	0	1.8	1.5	0.3	40	0.0
	Arunachal Pradesh	115	2	2.1	1.5	0.4	53	0.0
	Assam	1339	18	21.2	16.2	0.5	147	0.5
	Manipur	202	1	2.6	2.9	-0.3	50	0.0
	Meghalaya	336	0	5.9	2.5	0.9	90	0.0
	Mizoram	103	0	1.8	1.1	0.2	26	0.0
	Nagaland	129	1	2.1	2.2	-0.3	15	0.0
Tripura	221	1	3.5	1.4	0.0	43	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.6	-5.7	-9.7
Day peak (MW)	423.1	-379.6	-749.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.7	-230.8	122.5	-113.1	1.9	0.2
Actual(MU)	217.6	-244.2	126.2	-107.7	5.5	-2.6
O/D/U/D(MU)	-2.1	-13.5	3.8	5.4	3.6	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5071	18243	8552	1260	910	34036
State Sector	11922	16262	9440	6040	11	43675
Total	16993	34504	17992	7300	922	77711

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	405	1105	430	426	8	2375
Lignite	24	13	44	0	0	82
Hydro	124	38	81	35	9	287
Nuclear	28	28	43	0	0	99
Gas, Naptha & Diesel	32	30	16	0	21	100
RES (Wind, Solar, Biomass & Others)	70	141	176	2	0	389
Total	684	1356	790	463	38	3331

Share of RES in total generation (%)	10.28	10.37	22.25	0.40	0.10	11.66
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.49	15.25	37.97	7.96	23.01	23.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.092

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 :	18-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	200	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8	
1	765kV	GAYA-VARANASI	D/C	0	1269	0.0	14.0	-14.0	
2		SASARAM-FATEHPUR	S/C	0	472	0.0	5.6	-5.6	
3		GAYA-BALIA	S/C	0	447	0.0	3.9	-3.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	142	0.0	2.6	-2.6	
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.0	-2.0	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1038	0.0	11.5	-11.5	
9		PATNA-BALIA	Q/C	0	1168	0.0	18.7	-18.7	
10		BIHARSHARIFF-BALIA	D/C	0	517	0.0	7.6	-7.6	
11		MOTIHARI-GORAKHPUR	D/C	0	7	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	424	0.0	4.0	-4.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	73	0.0	0.8	-0.8
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>70.6</b>	<b>-70.3</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1148	327	13.0	0.0	13.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	482	404	0.4	0.0	0.4	
20		JHARSUGUDA-DURG	D/C	87	153	0.0	0.6	-0.6	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	295	72	2.5	0.0	2.5	
22		RANCHI-SIPAT	D/C	212	92	1.3	0.0	1.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	16	110	0.0	1.1	-1.1	
24		BUDHIPADAR-KORBA	D/C	207	0	2.9	0.0	2.9	
<b>ER-WR</b>						<b>20.1</b>	<b>1.7</b>	<b>18.4</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	680.0	0.0	15.9	-15.9	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2470.0	0.0	49.5	-49.5	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1874.0	0.0	33.3	-33.3	
28	400 kV	TALCHER-I/C	D/C	0.0	989.0	0.0	11.2	-11.2	
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>98.6</b>	<b>-98.6</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	227	167	1.9	0.0	2	
31		ALIPURDUAR-BONGAIGAON	D/C	246	157	1.9	0.0	2	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	50	54	0.3	0.0	0	
<b>ER-NER</b>						<b>4.1</b>	<b>0.0</b>	<b>4.1</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	487	0	10.4	0.0	10.4	
<b>NER-NR</b>						<b>10.4</b>	<b>0.0</b>	<b>10.4</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1871	0.0	36.6	-36.6	
35		VCHAL B/B	D/C	230	264	4.7	1.4	3.3	
36	765 kV	APL -MHG	D/C	0	1079	0.0	21.3	-21.3	
37		GWALIOR-AGRA	D/C	0	2641	0.0	47.4	-47.4	
38		PHAGI-GWALIOR	D/C	0	1782	0.0	20.9	-20.9	
39		JABALPUR-ORAI	D/C	0	958	0.0	27.5	-27.5	
40		GWALIOR-ORAI	S/C	764	0	12.2	0.0	12.2	
41		SATNA-ORAI	S/C	0	1464	0.0	28.3	-28.3	
42		CHITTORGARH-BANASKANTHA	D/C	0	984	0.0	8.4	-8.4	
43		ZERDA-KANKROLI	S/C	70	167	0.0	0.4	-0.4	
44	400 kV	ZERDA -BHINMAL	S/C	88	368	0.0	2.4	-2.4	
45		VCHAL-RIHAND	S/C	982	0	21.0	0.0	21.0	
46		RAPP-SHUJALPUR	D/C	181	380	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	18	81	0.8	0.0	0.8	
48		BHANPURA-MORAK	S/C	0	115	0.0	1.2	-1.2	
49		MEHGAON-AURAIYA	S/C	91	0	0.9	0.0	0.9	
50	132kV	MALANPUR-AURAIYA	S/C	42	26	0.2	0.1	0.0	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>39.7</b>	<b>196.6</b>	<b>-156.9</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	502	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	464	1716	0.6	22.1	-21.6	
55		WARDHA-NIZAMABAD	D/C	0	2605	0.0	45.0	-45.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	750	0	9.8	0.0	9.8	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	83	0.0	1.5	-1.5	
59		XELDEM-AMBEWADI	S/C	0	94	1.7	0.0	1.7	
<b>WR-SR</b>						<b>12.0</b>	<b>80.4</b>	<b>-68.4</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						5.6	
61		NEPAL						-5.7	
62		BANGLADESH						-9.7	