



**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> Dec 2018

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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., डोंगतिह, 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 19.12.2018.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-दिसम्बर-2018 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> December 2018, 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-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45913	47605	40768	17713	2389	154388
Peak Shortage (MW)	594	0	0	355	56	1005
Energy Met (MU)	945	1078	888	340	41	3292
Hydro Gen (MU)	121	31	87	35	10	285
Wind Gen (MU)	6	49	28	-----	-----	83
Solar Gen (MU)*	24.58	21.06	52.93	0.58	0.04	99
Energy Shortage (MU)	16.0	0.0	0.6	1.1	1.9	19.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45845 18:02	52993 10:31	42350 07:58	18023 18:34	2391 17:35	155279 09:30

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	0.072	0.00	2.92	17.57	20.49	71.75	7.77

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	5764	0	119.3	28.0	-0.9	124	0.0	
	Haryana	6597	0	129.2	66.1	1.1	181	0.0	
	Rajasthan	12369	0	235.3	67.2	1.3	281	0.0	
	Delhi	3696	0	67.3	50.5	-0.1	309	0.0	
	UP	14460	0	276.2	114.4	2.2	862	4.2	
	Uttarakhand	2025	0	37.0	24.3	0.3	211	0.0	
	HP	1604	0	28.5	21.5	0.6	208	0.3	
	J&K	2407	602	48.7	43.3	0.1	230	11.5	
	Chandigarh	222	0	3.5	3.4	0.2	40	0.0	
	WR	Chhattisgarh	3313	0	69.0	8.2	-1.1	318	0.0
Gujarat		14592	0	317.6	93.5	1.3	461	0.0	
MP		13263	0	252.4	134.8	-1.1	420	0.0	
Maharashtra		19915	0	407.6	107.3	-0.7	450	0.0	
Goa		452	0	9.1	7.5	1.1	38	0.0	
DD		287	0	4.9	3.9	1.0	72	0.0	
DNH		754	0	17.5	16.3	1.1	89	0.0	
Essar steel		10034	0	10.0	10.1	-0.1	209	0.0	
SR		Andhra Pradesh	7106	0	152.2	57.8	1.2	550	0.0
		Telangana	8003	0	162.0	90.3	1.6	486	0.0
	Karnataka	10635	0	200.8	63.5	-1.4	407	0.0	
	Kerala	3486	300	68.8	52.3	1.2	210	0.6	
	Tamil Nadu	13822	0	298.0	158.3	-0.3	359	0.0	
	Pondy	338	0	6.6	7.0	-0.5	23	0.0	
	ER	Bihar	4067	0	65.6	62.7	-2.2	460	0.0
DVC		2951	100	62.2	-28.4	2.4	396	0.3	
Jharkhand		1069	135	23.1	14.7	1.0	169	0.4	
Odisha		3841	120	74.6	18.9	2.8	267	0.4	
West Bengal		6687	0	113.0	16.0	0.2	309	0.0	
Sikkim		100	0	1.5	1.6	-0.1	18	0.0	
NER	Arunachal Pradesh	106	2	2.2	2.4	-0.2	20	0.0	
	Assam	1367	41	21.8	15.9	1.1	109	1.7	
	Manipur	178	3	2.7	2.9	-0.2	23	0.0	
	Meghalaya	336	0	6.2	5.0	-0.1	23	0.0	
	Mizoram	87	2	1.7	1.3	-0.1	1	0.2	
	Nagaland	128	1	2.3	2.2	-0.2	14	0.0	
	Tripura	214	1	3.8	1.7	0.2	21	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.2	-6.7	-13.9
Day peak (MW)	236.4	-274.0	-784.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	149.2	-190.9	129.7	-86.4	-1.3	0.2
Actual(MU)	148.0	-193.3	127.6	-80.7	-3.8	-2.2
O/D/U/D(MU)	-1.2	-2.4	-2.1	5.8	-2.5	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4311	18035	7682	2370	56	32454
State Sector	11335	15132	10220	5905	50	42642
Total	15646	33167	17902	8275	106	75095

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	561	1113	445	399	9	2527
Lignite	21	15	60	0	0	96
Hydro	121	31	87	35	10	285
Nuclear	24	19	36	0	0	80
Gas, Naptha & Diesel	27	41	23	0	29	121
RES (Wind, Solar, Biomass & Others)	59	72	115	1	0	247
Total	813	1293	767	435	48	3356

Share of RES in total generation (%)	7.25	5.57	15.03	0.14	0.08	7.36
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.14	9.46	31.15	8.26	20.46	18.22

H. Diversity Factor

All India Demand Diversity Factor	1.041
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Diversity factor = Sum of regional 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-Dec-18

Import=(+ve)  
/Export =(-ve)  
for NET (MU)

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
<b>Import/Export of ER (With NR)</b>								
1	765kV	GAYA-VARANASI	D/C	0	694	0.0	9.4	-9.4
2		SASARAM-FATEHPUR	S/C	0	315	0.0	2.8	-2.8
3		GAYA-BALIA	S/C	0	291	0.0	4.8	-4.8
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	4	0	0.0	0.0	0.0
6	400 kV	PUSAULI-VARANASI	S/C	6	142	0.0	1.4	-1.4
7		PUSAULI -ALLAHABAD	S/C	25	131	0.0	1.1	-1.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	751	0.0	11.7	-11.7
9		PATNA-BALIA	Q/C	0	892	0.0	18.7	-18.7
10		BIHARSHARIFF-BALIA	D/C	0	315	0.0	5.4	-5.4
11		MOTIHARI-GORAKHPUR	D/C	0	367	0.0	7.2	-7.2
12		BIHARSHARIFF-VARANASI	D/C	0	259	0.0	3.5	-3.5
13	220 kV	PUSAULI-SAHUPURI	S/C	0	143	0.0	2.4	-2.4
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	25	0	0.5	0.0	0.5
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>0.5</b>	<b>68.2</b>	<b>-67.7</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1136	0	20.3	0.0	20.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	132	456	0.0	3.1	-3.1
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	364	226	0.0	1.4	-1.4
21		RANCHI-SIPAT	D/C	156	54	1.3	0.0	1.3
22	220 kV	BUDHIPADAR-RAIGARH	S/C	6	80	0.0	0.0	0.0
23		BUDHIPADAR-KORBA	D/C	159	0	2.6	0.0	2.6
<b>ER-WR</b>						<b>24.2</b>	<b>4.5</b>	<b>19.7</b>
<b>Import/Export of ER (With SR)</b>								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1306.0	0.0	25.0	-25.0
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	422.0	0.0	9.9	-9.9
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1979.0	0.0	41.6	-41.6
27	400 kV	TALCHER-I/C	D/C	0.0	951.0	0.0	12.3	-12.3
28	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>76.5</b>	<b>-76.5</b>
<b>Import/Export of ER (With NER)</b>								
29	400 kV	BINAGURI-BONGAIGAON	D/C	314	0	5.8	0.0	6
30		ALIPURDUAR-BONGAIGAON	D/C	424	0	7.8	0.0	8
31	220 kV	ALIPURDUAR-SALAKATI	D/C	67	0	1.1	0.0	1
<b>ER-NER</b>						<b>14.7</b>	<b>0.0</b>	<b>14.7</b>
<b>Import/Export of NER (With NR)</b>								
32	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.6	0.0	11.6
<b>NER-NR</b>						<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<b>Import/Export of WR (With NR)</b>								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	703	0.0	16.7	-16.7
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0
35	765 kV	APL -MHG	D/C	0	695	0.0	16.9	-16.9
36		GWALIOR-AGRA	D/C	0	1016	0.0	38.8	-38.8
37		PHAGI-GWALIOR	D/C	0	1095	0.0	18.8	-18.8
38		JABALPUR-ORAI	D/C	83	341	0.0	8.3	-8.3
39		GWALIOR-ORAI	S/C	567	0	10.2	0.0	10.2
40		SATNA-ORAI	S/C	0	1691	0.0	36.4	-36.4
41		400 kV	ZERDA-KANKROLI	S/C	103	164	0.3	0.0
42	ZERDA -BHINMAL		S/C	0	333	0.0	3.0	-3.0
43	V'CHAL -RIHAND		S/C	992	0	22.9	0.0	22.9
44	RAPP-SHUJALPUR		D/C	271	0	2	0	2
45	220 kV	BADOD-KOTA	S/C	15	39	0.6	0.1	0.5
46		BADOD-MORAK	S/C	0	97	0.0	0.9	-0.9
47		MEHGAON-AURAIYA	S/C	86	0	1.0	0.0	1.0
48	132kV	MALANPUR-AURAIYA	S/C	44	16	0.3	0.0	0.2
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>43.0</b>	<b>139.8</b>	<b>-96.8</b>
<b>Import/Export of WR (With SR)</b>								
50	HVDC	BHADRAWATI B/B	-	0	989	0.0	19.6	-19.6
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	0	1981	0.0	32.0	-32.0
53		WARDHA-NIZAMABAD	D/C	0	2343	0.0	41.2	-41.2
54	400 kV	KOLHAPUR-KUDGI	D/C	773	0	10.1	0.0	10.1
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	58	1.1	0.0	1.1
<b>WR-SR</b>						<b>11.2</b>	<b>92.8</b>	<b>-81.6</b>
<b>TRANSNATIONAL EXCHANGE</b>								
58		BHUTAN						<b>3.2</b>
59		NEPAL						<b>-6.7</b>
60		BANGLADESH						<b>-13.9</b>