



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: 17<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., 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 16.12.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-दिसम्बर-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 16<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 17-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)	45422	46915	38293	17296	2309	150235
Peak Shortage (MW)	650	0	0	0	23	673
Energy Met (MU)	866	1080	887	329	39	3200
Hydro Gen (MU)	128	45	83	34	9	300
Wind Gen (MU)	14	96	41	-----	-----	151
Solar Gen (MU)*	23.60	19.8	83.37	1.69	0.03	128
Energy Shortage (MU)	11.6	0.0	0.0	0.0	0.4	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45104 18:56	51698 09:47	42541 07:44	17472 18:55	2341 17:31	151942 18:40

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	0.075	0.21	1.45	7.13	8.78	55.37	35.84

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	5323	0	103.0	56.6	-0.9	78	0.0
	Haryana	6320	0	114.3	85.6	0.7	362	0.0
	Rajasthan	11761	83	217.9	56.4	2.2	443	0.0
	Delhi	3868	0	67.6	54.0	-0.3	346	0.0
	UP	13810	0	243.5	105.3	-0.7	484	0.0
	Uttarakhand	1951	0	37.1	21.1	0.6	205	0.0
	HP	1665	0	29.7	21.2	0.8	300	0.0
	J&K(UT) and Ladakh(UT)	2601	650	48.8	41.7	-1.0	397	11.6
	Chandigarh	246	0	4.2	3.9	0.3	56	0.0
WR	Chhattisgarh	3405	0	72.7	16.1	-1.1	543	0.0
	Gujarat	14695	0	307.5	75.1	-3.5	1088	0.0
	MP	12319	0	221.8	111.7	-3.1	363	0.0
	Maharashtra	21398	0	434.9	134.9	-4.3	540	0.0
	Goa	588	0	12.5	12.0	-0.1	327	0.0
	DD	318	0	6.9	6.2	0.7	63	0.0
	DNH	800	0	18.5	18.5	0.0	68	0.0
	Essar steel	283	0	5.2	5.7	-0.5	264	0.0
	Andhra Pradesh	7715	0	155.9	67.8	0.1	273	0.0
SR	Telangana	9940	0	204.5	108.7	2.4	727	0.0
	Karnataka	10806	0	195.5	34.0	0.6	669	0.0
	Kerala	3535	0	68.7	55.3	1.1	189	0.0
	Tamil Nadu	13008	0	255.2	132.8	-1.4	596	0.0
	Pondy	357	0	6.8	7.2	-0.5	41	0.0
	Bihar	3907	0	64.1	63.1	-0.2	240	0.0
ER	DVC	3081	0	62.7	-27.9	-0.6	570	0.0
	Jharkhand	1251	0	22.4	14.9	-1.7	180	0.0
	Odisha	3643	0	68.4	11.5	-0.1	200	0.0
	West Bengal	6011	0	109.9	21.5	2.7	420	0.0
	Sikkim	100	0	1.7	1.4	0.3	35	0.0
	Arunachal Pradesh	115	2	2.1	1.6	0.3	61	0.0
NER	Assam	1270	8	20.9	16.7	0.2	201	0.3
	Manipur	189	2	2.5	2.9	-0.4	39	0.0
	Meghalaya	349	0	6.0	2.4	1.0	114	0.0
	Mizoram	101	1	1.8	0.8	0.4	23	0.0
	Nagaland	121	2	2.1	2.2	-0.3	23	0.0
	Tripura	221	0	3.4	1.2	0.0	60	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.1	-6.0	-6.9
Day peak (MW)	319.1	-371.0	-528.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.3	-215.4	117.4	-113.3	2.7	1.7
Actual(MU)	210.6	-230.5	129.3	-115.3	6.2	0.4
O/D/U/D(MU)	0.3	-15.2	11.9	-2.0	3.5	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5561	18143	8552	1260	944	34459
State Sector	12422	15262	10350	4940	11	42985
Total	17983	33404	18902	6200	955	77444

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	381	1072	422	420	10	2306
Lignite	24	13	41	0	0	78
Hydro	128	45	83	34	9	300
Nuclear	34	28	43	0	0	104
Gas, Naptha & Diesel	30	30	15	0	18	94
RES (Wind, Solar, Biomass & Others)	67	133	167	2	0	369
Total	664	1321	772	456	37	3250

Share of RES in total generation (%)	10.12	10.04	21.65	0.38	0.08	11.35
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.50	15.58	38.00	7.82	24.15	23.78

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
Based on State Max Demands	1.100

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 :	17-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	198	0.0	4.9	-4.9	
1	765kV	GAYA-VARANASI	D/C	0	1378	0.0	15.4	-15.4	
2		SASARAM-FATEHPUR	S/C	0	503	0.0	6.5	-6.5	
3		GAYA-BALIA	S/C	0	490	0.0	4.3	-4.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	142	0.0	2.4	-2.4	
7		PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.3	-2.3	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1177	0.0	12.6	-12.6	
9		PATNA-BALIA	Q/C	0	1202	0.0	18.8	-18.8	
10		BIHARSHARIFF-BALIA	D/C	0	554	0.0	7.7	-7.7	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	5	500	0.0	5.0	-5.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	87	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	0.3	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>76.0</b>	<b>-75.7</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5431	123	12.9	0.0	12.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	509	545	0.0	1.4	-1.4	
20		JHARSUGUDA-DURG	D/C	999933	161	0.0	0.0	0.0	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	314	135	2.8	0.0	2.8	
22		RANCHI-SIPAT	D/C	231	168	0.2	0.0	0.2	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	10	85	0.0	0.9	-0.9	
24		BUDHIPADAR-KORBA	D/C	202	6	2.8	0.0	2.8	
<b>ER-WR</b>						<b>18.7</b>	<b>2.3</b>	<b>16.3</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	677.0	0.0	12.4	-12.4	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2465.0	0.0	49.5	-49.5	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2212.0	0.0	36.9	-36.9	
28	400 kV	TALCHER-I/C	D/C	149.0	1135.0	0.0	11.8	-11.8	
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>98.8</b>	<b>-98.8</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	224	128	2.2	0.0	2	
31		ALIPURDUAR-BONGAIGAON	D/C	253	114	2.3	0.0	2	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	49	36	0.3	0.0	0	
<b>ER-NER</b>						<b>4.7</b>	<b>0.0</b>	<b>4.7</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	487	0	11.4	0.0	11.4	
<b>NER-NR</b>						<b>11.4</b>	<b>0.0</b>	<b>11.4</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2046	0.0	36.6	-36.6	
35		V'CHAL B/B	D/C	450	0	8.5	0.0	8.5	
36		APL -MHG	D/C	0	985	0.0	20.8	-20.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2541	0.0	44.9	-44.9	
38		PHAGI-GWALIOR	D/C	0	1441	0.0	16.7	-16.7	
39		JABALPUR-ORAI	D/C	0	844	0.0	25.7	-25.7	
40		GWALIOR-ORAI	S/C	663	0	10.4	0.0	10.4	
41		SATNA-ORAI	S/C	0	1276	0.0	25.9	-25.9	
42		CHITTORGARH-BANASKANTHA	D/C	0	1076	0.0	9.3	-9.3	
43	400 kV	ZERDA-KANKROLI	S/C	21	173	0.0	1.0	-1.0	
44		ZERDA -BHINMAL	S/C	0	386	0.0	3.5	-3.5	
45		V'CHAL -RIHAND	S/C	984	0	21.1	0.0	21.1	
46	220 kV	RAPP-SHUJALPUR	D/C	160	267	0	0	0	
47		BHANPURA-RANPUR	S/C	21	72	0.5	0.1	0.4	
48		BHANPURA-MORAK	S/C	0	148	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	96	4	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	49	28	0.2	0.2	0.0	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>41.6</b>	<b>186.8</b>	<b>-145.2</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	470	2059	0.6	23.9	-23.3	
55		WARDHA-NIZAMABAD	D/C	970	2837	0.0	43.0	-43.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	635	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	0	75	0.0	1.4	-1.4	
59		XELDEM-AMBEWADI	S/C	0	84	1.6	0.0	1.6	
<b>WR-SR</b>						<b>11.3</b>	<b>80.1</b>	<b>-68.9</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						6.1	
61		NEPAL						-6.0	
62		BANGLADESH						-6.9	