



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: 16<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 15.12.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15<sup>th</sup> Dec 2019, is available at the NLDC website.

धन्यवाद,

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)	41300	44002	33994	16918	2203	138417
Peak Shortage (MW)	573	0	0	0	29	602
Energy Met (MU)	819	1060	826	333	37	3075
Hydro Gen (MU)	128	37	68	37	9	279
Wind Gen (MU)	17	79	40	-----	-----	136
Solar Gen (MU)*	21.83	21	71.91	1.55	0.04	116
Energy Shortage (MU)	5.7	0.0	0.0	0.0	0.4	6.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	41584 18:53	50817 10:58	38413 09:11	17248 18:22	2222 17:46	143873 09:11

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	0.065	0.00	1.46	3.83	5.29	60.78	33.94

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	4841	0	97.2	51.9	-1.0	160	0.0
	Haryana	5178	0	101.7	77.2	0.0	149	0.0
	Rajasthan	11276	0	212.7	56.7	-1.9	335	0.0
	Delhi	3819	0	62.0	51.1	-0.9	139	0.0
	UP	13308	0	234.2	104.5	0.4	432	0.0
	Uttarakhand	1796	0	32.7	19.1	-0.7	132	0.0
	HP	1550	0	27.6	20.1	-0.4	112	0.0
	J&K(UT) and Ladakh(UT)	2306	576	47.7	41.2	-2.4	201	5.7
	Chandigarh	215	0	3.4	3.2	0.2	33	0.0
WR	Chhattisgarh	3339	0	74.2	19.9	-1.1	264	0.0
	Gujarat	14483	0	299.5	79.5	0.1	610	0.0
	MP	12140	0	220.9	116.6	-4.3	419	0.0
	Maharashtra	20327	0	422.9	138.3	-5.8	316	0.0
	Goa	537	0	11.4	11.0	0.1	28	0.0
	DD	287	0	6.6	6.0	0.6	50	0.0
	DNH	772	0	18.2	18.2	0.0	33	0.0
	Essar steel	313	0	6.2	6.4	-0.2	295	0.0
	Andhra Pradesh	7569	0	154.2	71.2	0.0	321	0.0
SR	Telangana	9328	0	199.6	95.1	1.9	480	0.0
	Karnataka	9893	0	178.7	27.6	0.5	456	0.0
	Kerala	3243	0	63.4	51.0	1.0	201	0.0
	Tamil Nadu	10657	0	223.8	111.5	-2.0	521	0.0
	Pondy	304	0	6.1	6.5	-0.4	21	0.0
	Bihar	3731	0	63.9	63.4	-0.6	240	0.0
ER	DVC	3006	0	61.6	-26.9	-0.1	318	0.0
	Jharkhand	1101	0	21.8	18.1	-2.3	31	0.0
	Odisha	3892	0	75.8	18.7	0.1	220	0.0
	West Bengal	5643	0	108.3	18.7	4.8	440	0.0
	Sikkim	100	0	1.6	1.3	0.3	30	0.0
	Arunachal Pradesh	110	2	2.0	1.7	0.1	26	0.0
NER	Assam	1192	12	19.7	16.5	-0.1	104	0.3
	Manipur	186	3	2.5	2.9	-0.5	27	0.0
	Meghalaya	332	0	6.0	2.3	0.9	80	0.0
	Mizoram	99	2	1.7	0.8	0.3	21	0.0
	Nagaland	118	1	2.1	2.2	-0.4	12	0.0
	Tripura	213	1	3.4	1.6	-0.2	62	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.4	-4.7	-9.2
Day peak (MW)	335.1	-400.5	-727.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	204.9	-196.3	94.7	-105.4	2.0	-0.2
Actual(MU)	193.2	-199.9	96.6	-98.9	5.5	-3.6
O/D/U/D(MU)	-11.7	-3.5	1.8	6.5	3.5	-3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5814	16363	9362	1260	694	33493
State Sector	13742	15562	9330	6510	11	45155
Total	19556	31924	18692	7770	705	78648

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	373	1052	418	401	10	2254
Lignite	24	12	38	0	0	74
Hydro	128	37	68	37	9	279
Nuclear	29	28	48	0	0	104
Gas, Naptha & Diesel	26	25	16	0	17	84
RES (Wind, Solar, Biomass & Others)	68	112	153	2	0	334
Total	647	1266	742	439	36	3130

Share of RES in total generation (%)	10.46	8.83	20.69	0.36	0.11	10.69
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	34.70	13.98	36.33	8.76	24.24	22.95

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.093

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 :	16-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	5.0	-5.0	
1	765kV	GAYA-VARANASI	D/C	0	1056	0.0	13.6	-13.6	
2		SASARAM-FATEHPUR	S/C	0	545	0.0	6.3	-6.3	
3		GAYA-BALIA	S/C	0	449	0.0	7.0	-7.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	136	0.0	2.3	-2.3	
7		PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.4	-2.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1009	0.0	13.6	-13.6	
9		PATNA-BALIA	Q/C	0	1007	0.0	16.8	-16.8	
10		BIHARSHARIFF-BALIA	D/C	0	427	0.0	6.4	-6.4	
11		MOTIHARI-GORAKHPUR	D/C	3	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	455	0.0	4.9	-4.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	1	86	0.0	1.0	-1.0	
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>74.3</b>	<b>-74.1</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1223	222	12.9	0.0	12.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	470	437	0.0	0.1	-0.1	
20		JHARSUGUDA-DURG	D/C	95	204	0.0	1.1	-1.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	369	192	2.0	0.0	2.0	
22		RANCHI-SIPAT	D/C	201	108	0.4	0.0	0.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	111	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	151	0	1.7	0.0	1.7	
<b>ER-WR</b>						<b>16.9</b>	<b>2.6</b>	<b>14.3</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	684.0	0.0	12.6	-12.6	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1981.0	0.0	36.0	-36.0	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1873.0	0.0	32.0	-32.0	
28	400 kV	TALCHER-I/C	D/C	609.0	982.0	0.0	0.4	-0.4	
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>80.6</b>	<b>-80.6</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	266	69	2.9	0.0	3	
31		ALIPURDUAR-BONGAIGAON	D/C	208	58	2.3	0.0	2	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	45	22	0.3	0.0	0	
<b>ER-NER</b>						<b>5.5</b>	<b>0.0</b>	<b>5.5</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	488	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	1850	0.0	21.4	-21.4	
35		VCHAL B/B	D/C	451	0	12.0	0.0	12.0	
36		APL -MHG	D/C	0	888	0.0	17.1	-17.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2422	0.0	43.7	-43.7	
38		PHAGI-GWALIOR	D/C	0	1612	0.0	19.0	-19.0	
39		JABALPUR-ORAI	D/C	0	814	0.0	26.8	-26.8	
40		GWALIOR-ORAI	S/C	652	0	9.4	0.0	9.4	
41		SATNA-ORAI	S/C	0	1323	0.0	27.8	-27.8	
42	CHITTORGARH-BANASKANTHA	D/C	0	1273	0.0	12.6	-12.6		
43	400 kV	ZERDA-KANKROLI	S/C	85	190	0.0	0.9	-0.9	
44		ZERDA -BHINMAL	S/C	88	334	0.0	2.7	-2.7	
45		VCHAL-RIHAND	S/C	975	0	22.0	0.0	22.0	
46		RAPP-SHUJALPUR	D/C	195	290	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	18	70	0.5	0.2	0.4	
48		BHANPURA-MORAK	S/C	0	142	0.0	1.6	-1.6	
49		MEHGAON-AURAIYA	S/C	88	5	0.9	0.0	0.9	
50	132kV	MALANPUR-AURAIYA	S/C	46	28	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>45.0</b>	<b>174.3</b>	<b>-129.3</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	985	0.0	12.0	-12.0	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	850	1464	0.0	16.4	-16.4	
55		WARDHA-NIZAMABAD	D/C	0	2116	0.0	35.7	-35.7	
56	400 kV	KOLHAPUR-KUDGI	D/C	654	0	11.3	0.0	11.3	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	65	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	72	1.4	0.0	1.4	
<b>WR-SR</b>						<b>12.7</b>	<b>65.3</b>	<b>-52.6</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						6.4	
61		NEPAL						-4.7	
62		BANGLADESH						-9.2	