



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: 13<sup>th</sup> Dec 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 12.12.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12<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)	41659	46496	38332	18002	2150	146639
Peak Shortage (MW)	520	0	0	0	39	559
Energy Met (MU)	843	1142	921	348	37	3291
Hydro Gen (MU)	122	42	75	40	9	288
Wind Gen (MU)	12	25	31	-----	-----	69
Solar Gen (MU)*	8.30	17.4	79.91	1.64	0.03	107
Energy Shortage (MU)	10.1	0.0	0.3	0.0	0.5	10.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43291 09:16	54179 10:35	42590 07:43	18261 18:30	2288 17:39	155121 09:59

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	0.044	0.00	0.65	6.56	7.21	69.19	23.60

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	4913	0	97.8	48.1	-2.1	288	0.0
	Haryana	5770	0	111.3	79.4	-1.6	238	0.0
	Rajasthan	11716	0	211.8	58.8	-4.7	186	0.0
	Delhi	3645	0	64.8	53.3	-1.2	161	0.0
	UP	13394	0	239.8	95.2	-3.7	835	0.0
	Uttarakhand	1901	0	36.5	20.8	0.0	131	0.0
	HP	1642	0	31.2	23.4	0.4	204	0.0
	J&K(UT) and Ladakh(UT)	2245	561	45.9	40.1	0.4	201	10.1
	Chandigarh	216	0	4.1	3.6	0.5	42	0.0
WR	Chhattisgarh	3614	0	76.9	14.3	-0.2	229	0.0
	Gujarat	15183	0	325.9	104.6	2.0	739	0.0
	MP	13568	0	243.8	137.9	-7.1	419	0.0
	Maharashtra	21903	0	451.3	152.0	-6.7	531	0.0
	Goa	594	0	12.4	12.2	-0.1	40	0.0
	DD	326	0	7.4	7.0	0.4	45	0.0
	DNH	817	0	19.0	19.1	-0.1	43	0.0
	Essar steel	317	0	5.5	6.1	-0.6	295	0.0
	Andhra Pradesh	7831	0	160.7	73.1	-0.3	324	0.0
SR	Telangana	9392	0	197.3	92.4	0.6	505	0.0
	Karnataka	10527	0	196.6	43.9	0.1	502	0.0
	Kerala	3620	30	72.6	58.7	1.2	229	0.3
	Tamil Nadu	13978	0	287.5	164.2	0.5	579	0.0
	Pondy	359	1	6.5	7.0	-0.5	47	0.0
	Bihar	3912	0	69.1	67.0	0.9	350	0.0
ER	DVC	3024	0	62.1	-33.3	-0.9	300	0.0
	Jharkhand	1215	0	24.5	17.2	-1.1	31	0.0
	Odisha	3983	0	76.4	15.0	-0.4	300	0.0
	West Bengal	6353	0	114.3	20.6	-0.5	400	0.0
	Sikkim	108	0	1.8	1.7	0.1	40	0.0
	Arunachal Pradesh	115	2	2.1	2.1	-0.2	19	0.0
NER	Assam	1192	32	18.9	14.7	0.1	142	0.4
	Manipur	178	2	2.7	2.7	-0.1	34	0.0
	Meghalaya	348	0	6.0	2.5	0.9	95	0.0
	Mizoram	98	1	1.7	0.7	0.4	39	0.0
	Nagaland	128	2	2.2	2.2	-0.3	21	0.0
	Tripura	210	3	3.2	1.3	-0.4	47	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.4	-5.5	-9.5
Day peak (MW)	318.7	-347.0	-748.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.6	-190.5	115.1	-116.1	-1.9	0.2
Actual(MU)	184.6	-191.5	124.6	-119.9	-0.6	-2.8
O/D/U/D(MU)	-9.0	-1.0	9.5	-3.9	1.3	-3.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5684	16004	7362	1760	854	31664
State Sector	12546	14837	9120	5860	11	42374
Total	18230	30840	16482	7620	866	74038

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	445	1190	468	442	13	2558
Lignite	21	15	41	0	0	77
Hydro	122	42	75	40	9	288
Nuclear	24	23	57	0	0	105
Gas, Naptha & Diesel	25	37	15	0	20	97
RES (Wind, Solar, Biomass & Others)	50	49	151	2	0	252
Total	687	1355	809	484	42	3377

Share of RES in total generation (%)	7.27	3.62	18.68	0.35	0.07	7.46
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.58	8.39	35.08	8.64	21.94	19.10

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.085

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 : **13-Dec-19**

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>								
4	HVDC	ALIPURDUAR-AGRA	-	0	300	0.0	5.1	-5.1
5		PUSAULI B/B	S/C	0	198	0.0	4.9	-4.9
1	765kV	GAYA-VARANASI	D/C	0	1224	0.0	14.2	-14.2
2		SASARAM-FATEHPUR	S/C	0	479	0.0	6.6	-6.6
3		GAYA-BALIA	S/C	0	480	0.0	4.5	-4.5
6	400 kV	PUSAULI-VARANASI	S/C	0	160	0.0	2.6	-2.6
7		PUSAULI -ALLAHABAD	S/C	0	151	0.0	1.4	-1.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1105	0.0	11.6	-11.6
9		PATNA-BALIA	Q/C	0	1114	0.0	18.6	-18.6
10		BIHARSHARIFF-BALIA	D/C	0	487	0.0	6.7	-6.7
11		MOTIHARI-GORAKHPUR	D/C	4	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	46	451	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	S/C	36	129	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	0.4	0.0	0.4
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>0.4</b>	<b>71.4</b>	<b>-71.1</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1411	257	11.4	0.0	11.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	205	621	0.0	3.1	-3.1
20		JHARSUGUDA-DURG	D/C	51	415	0.0	5.1	-5.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	349	211	1.3	0.0	1.3
22		RANCHI-SIPAT	D/C	129	218	0.0	0.1	-0.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	143	0.0	2.3	-2.3
24		BUDHIPADAR-KORBA	D/C	183	0	2.3	0.0	2.3
<b>ER-WR</b>						<b>15.0</b>	<b>10.6</b>	<b>4.5</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	688.0	0.0	11.2	-11.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2471.0	0.0	42.4	-42.4
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2047.0	0.0	37.7	-37.7
28	400 kV	TALCHER-I/C	D/C	413.0	971.0	0.0	0.0	0.0
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>91.3</b>	<b>-91.3</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	197	304	0.0	0.9	-1
31		ALIPURDUAR-BONGAIGAON	D/C	145	187	1.3	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	35	45	0.0	0.0	0
<b>ER-NER</b>						<b>1.3</b>	<b>1.0</b>	<b>0.3</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	384	0	0.9	0.0	0.9
<b>NER-NR</b>						<b>0.9</b>	<b>0.0</b>	<b>0.9</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	482	0.0	11.0	-11.0
35		VCHAL B/B	D/C	363	0	9.7	0.0	9.7
36		APL -MHG	D/C	0	1453	0.0	29.8	-29.8
37	765 kV	GWALIOR-AGRA	D/C	0	1994	0.0	36.6	-36.6
38		PHAGI-GWALIOR	D/C	0	1667	0.0	22.3	-22.3
39		JABALPUR-ORAI	D/C	0	790	0.0	24.6	-24.6
40		GWALIOR-ORAI	S/C	637	0	10.6	0.0	10.6
41		SATNA-ORAI	S/C	0	1351	0.0	28.4	-28.4
42		CHITTORGARH-BANASKANTHA	D/C	334	501	0.0	2.1	-2.1
43	400 kV	ZERDA-KANKROLI	S/C	154	72	1.2	0.0	1.2
44		ZERDA -BHINMAL	S/C	178	331	0.0	0.9	-0.9
45		VCHAL-RIHAND	S/C	973	0	22.5	0.0	22.5
46		RAPP-SHUJALPUR	D/C	206	250	1	1	0
47	220 kV	BHANPURA-RANPUR	S/C	22	78	0.9	0.1	0.8
48		BHANPURA-MORAK	S/C	25	146	0.0	1.4	-1.4
49		MEHGAON-AURAIYA	S/C	114	0	1.1	0.0	1.1
50	132kV	MALANPUR-AURAIYA	S/C	67	19	0.4	0.0	0.4
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>47.5</b>	<b>158.3</b>	<b>-110.8</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	995	0.0	19.4	-19.4
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	269	2057	0.1	26.8	-26.7
55		WARDHA-NIZAMABAD	D/C	1433	2309	0.0	39.4	-39.4
56	400 kV	KOLHAPUR-KUDGI	D/C	680	0	8.2	0.0	8.2
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	1	64	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	1	72	1.4	0.0	1.4
<b>WR-SR</b>						<b>9.7</b>	<b>86.9</b>	<b>-77.2</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>6.4</b>
61		NEPAL						<b>-5.5</b>
62		BANGLADESH						<b>-9.5</b>