



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: 22<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 21.12.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<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)	46872	48058	38839	17878	2405	154052
Peak Shortage (MW)	632	0	0	0	34	666
Energy Met (MU)	932	1136	932	341	41	3381
Hydro Gen (MU)	124	45	76	37	8	290
Wind Gen (MU)	20	39	48	-----	-----	107
Solar Gen (MU)*	28.12	20.70	74.46	1.53	0.02	125
Energy Shortage (MU)	12.8	0.0	0.0	0.0	0.7	13.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47168 19:09	54736 10:59	45235 07:56	18112 18:45	2535 18:03	162031 09:25

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	0.028	0.00	0.00	3.04	3.04	79.40	17.56

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	5985	0	114.7	54.3	-1.5	18	0.0
	Haryana	6517	0	124.1	87.5	0.5	169	0.1
	Rajasthan	13112	0	233.4	57.6	-3.7	284	0.0
	Delhi	4120	0	70.7	55.0	-0.4	227	0.0
	UP	14418	0	267.8	109.6	0.1	836	1.4
	Uttarakhand	2093	0	38.5	21.1	0.2	121	0.0
	HP	1679	0	30.3	23.7	-0.7	191	0.0
	J&K(UT) and Ladakh(UT)	2526	632	48.0	39.7	0.5	426	11.4
	Chandigarh	256	0	4.3	4.1	0.2	41	0.0
WR	Chhattisgarh	3553	0	77.0	19.4	-0.6	322	0.0
	Gujarat	15713	0	329.7	94.9	0.1	475	0.0
	MP	13110	0	239.5	127.7	-4.0	328	0.0
	Maharashtra	21645	0	443.6	142.5	0.3	567	0.0
	Goa	587	0	12.7	11.9	0.2	31	0.0
	DD	330	0	7.3	6.9	0.4	73	0.0
	DNH	803	0	18.7	18.7	0.0	44	0.0
	Essar steel	348	0	7.2	7.0	0.2	247	0.0
	Andhra Pradesh	8163	0	167.4	68.3	0.8	742	0.0
SR	Telangana	10694	0	216.1	106.1	0.3	467	0.0
	Karnataka	11275	0	202.6	51.0	-0.6	819	0.0
	Kerala	3431	0	70.0	56.1	1.1	224	0.0
	Tamil Nadu	13029	0	268.8	148.1	-0.4	559	0.0
	Pondy	337	0	6.9	7.3	-0.4	31	0.0
	Bihar	4037	0	71.5	70.9	-0.8	200	0.0
ER	DVC	3543	0	63.5	-32.4	-0.2	300	0.0
	Jharkhand	1227	0	25.2	16.1	-0.3	50	0.0
	Odisha	3855	0	65.8	10.5	0.4	140	0.0
	West Bengal	6123	0	112.6	30.4	1.1	150	0.0
	Sikkim	131	0	1.9	1.7	0.2	30	0.0
	Arunachal Pradesh	123	3	2.2	1.9	0.2	40	0.0
NER	Assam	1368	21	22.1	18.2	0.6	128	0.5
	Manipur	202	3	2.6	3.1	-0.5	28	0.0
	Meghalaya	351	1	6.2	3.0	0.5	73	0.1
	Mizoram	108	2	1.9	1.2	0.4	24	0.0
	Nagaland	129	2	2.2	2.3	-0.3	10	0.0
	Tripura	239	10	3.5	1.5	0.4	69	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.5	-6.9	-8.6
Day peak (MW)	314.9	-378.8	-744.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.4	-228.7	117.1	-112.4	0.7	0.0
Actual(MU)	213.7	-245.3	141.9	-113.7	2.2	-1.1
O/D/U/D(MU)	-9.7	-16.6	24.8	-1.3	1.6	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5894	14773	8252	870	597	30385
State Sector	11380	18269	8770	6550	11	44980
Total	17274	33041	17022	7420	608	75365

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	454	1200	452	437	12	2556
Lignite	22	16	47	0	0	85
Hydro	124	45	76	37	8	290
Nuclear	29	28	44	0	0	102
Gas, Naptha & Diesel	31	33	17	0	22	103
RES (Wind, Solar, Biomass & Others)	78	68	166	2	0	313
Total	739	1389	802	476	43	3448

Share of RES in total generation (%)	10.53	4.87	20.71	0.33	0.05	9.08
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.31	10.08	35.72	8.00	19.57	20.43

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.081

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 : 22-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	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	297	0.0	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	0	1068	0.0	14.2	-14.2
2		SASARAM-FATEHPUR	S/C	0	417	0.0	6.0	-6.0
3		GAYA-BALIA	S/C	0	576	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	S/C	0	191	0.0	3.7	-3.7
7		PUSAULI -ALLAHABAD	S/C	0	189	0.0	3.4	-3.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	881	0.0	11.2	-11.2
9		PATNA-BALIA	Q/C	0	1184	0.0	19.7	-19.7
10		BIHARSHARIFF-BALIA	D/C	0	534	0.0	8.3	-8.3
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	387	0.0	4.5	-4.5
13		220 kV	PUSAULI-SAHUPURI	S/C	0	77	0.0	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	0.4	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>80.8</b>	<b>-80.4</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1259	92	17.7	0.0	17.7
19		NEW RANCHI-DHARAMJAIGARH	D/C	483	161	3.2	0.0	3.2
20		JHARSUGUDA-DURG	D/C	102	141	0.0	0.7	-0.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	322	103	1.6	0.0	1.6
22		RANCHI-SIPAT	D/C	203	40	1.0	0.0	1.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	108	0.0	1.3	-1.3
24		BUDHIPADAR-KORBA	D/C	196	0	2.5	0.0	2.5
<b>ER-WR</b>						<b>26.1</b>	<b>2.1</b>	<b>24.0</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	11.8	-11.8
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2474.0	0.0	51.2	-51.2
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2273.0	0.0	43.2	-43.2
28	400 kV	TALCHER-I/C	D/C	0.0	969.0	0.0	9.5	-9.5
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>106.2</b>	<b>-106.2</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	265	56	2.9	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	298	41	3.4	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	54	34	0.4	0.0	0
<b>ER-NER</b>						<b>6.7</b>	<b>0.0</b>	<b>6.7</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	483	0	9.4	0.0	9.4
<b>NER-NR</b>						<b>9.4</b>	<b>0.0</b>	<b>9.4</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1357	0.0	23.5	-23.5
35		VCHAL B/B	D/C	449	103	3.1	1.3	1.8
36		APL -MHG	D/C	0	1918	0.0	31.9	-31.9
37	765 kV	GWALIOR-AGRA	D/C	0	2937	0.0	47.1	-47.1
38		PHAGI-GWALIOR	D/C	0	1280	0.0	17.7	-17.7
39		JABALPUR-ORAI	D/C	0	1013	0.0	27.5	-27.5
40		GWALIOR-ORAI	S/C	602	0	9.8	0.0	9.8
41		SATNA-ORAI	S/C	0	1569	0.0	30.7	-30.7
42		CHITTORGARH-BANASKANTHA	D/C	431	579	1.8	3.4	-1.6
43	400 kV	ZERDA-KANKROLI	S/C	212	72	1.8	0.0	1.8
44		ZERDA -BHINMAL	S/C	278	185	1.4	0.0	1.4
45		VCHAL -RIHAND	S/C	969	0	22.1	0.0	22.1
46		RAPP-SHUJALPUR	D/C	269	239	0	0	0
47	220 kV	BHANPURA-RANPUR	S/C	32	84	0.5	0.1	0.4
48		BHANPURA-MORAK	S/C	42	112	0.2	0.7	-0.6
49		MEHGAON-AURAIYA	S/C	91	0	1.0	0.0	1.0
50	132kV	MALANPUR-AURAIYA	S/C	43	25	0.1	0.2	-0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>41.8</b>	<b>184.4</b>	<b>-142.7</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.1	-12.1
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	185	2138	0.1	29.3	-29.2
55		WARDHA-NIZAMABAD	D/C	0	2621	0.0	48.7	-48.7
56	400 kV	KOLHAPUR-KUDGI	D/C	758	0	9.5	0.0	9.5
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	77	0.0	1.5	-1.5
59		XELDEM-AMBEWADI	S/C	0	87	1.7	0.0	1.7
<b>WR-SR</b>						<b>11.3</b>	<b>91.6</b>	<b>-80.3</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						5.5
61		NEPAL						-6.9
62		BANGLADESH						-8.6