



**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: 21<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 20.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-दिसम्बर-2019 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 20<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)	46847	47777	39188	17799	2397	154008
Peak Shortage (MW)	805	0	0	0	23	828
Energy Met (MU)	945	1133	947	339	41	3404
Hydro Gen (MU)	119	49	90	42	8	309
Wind Gen (MU)	4	18	32	-----	-----	53
Solar Gen (MU)*	26.14	20.60	69.57	1.88	0.03	118
Energy Shortage (MU)	15.4	0.0	0.0	0.0	0.5	15.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47720 09:38	54180 10:26	45670 07:58	18151 18:43	2458 17:35	162824 09:38

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	0.053	0.00	0.84	13.92	14.77	69.58	15.65

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	5954	0	114.0	52.8	-1.3	18	0.0
	Haryana	6591	0	125.4	89.3	0.6	218	0.8
	Rajasthan	13082	0	234.8	66.8	0.8	314	0.0
	Delhi	4486	0	74.8	57.6	-0.4	226	0.0
	UP	14518	310	271.7	106.2	-0.7	935	2.6
	Uttarakhand	2078	0	38.8	21.6	-0.4	168	0.0
	HP	1684	0	30.4	23.1	0.1	185	0.0
	J&K(UT) and Ladakh(UT)	2589	647	50.9	42.5	3.0	402	12.0
	Chandigarh	268	0	4.4	4.1	0.3	30	0.0
WR	Chhattisgarh	3648	0	77.9	17.3	0.1	304	0.0
	Gujarat	15869	0	332.8	94.8	2.0	634	0.0
	MP	12902	0	236.3	124.6	-2.3	489	0.0
	Maharashtra	21404	0	443.7	139.8	-0.2	538	0.0
	Goa	530	0	11.5	11.4	-0.5	52	0.0
	DD	325	0	6.4	5.7	0.7	58	0.0
	DNH	796	0	18.6	18.6	0.0	41	0.0
	Essar steel	297	0	5.4	5.5	-0.1	275	0.0
	SR	Andhra Pradesh	8151	0	167.6	67.8	0.5	583
Telangana		10591	0	214.2	108.2	-0.2	420	0.0
Karnataka		11215	0	204.9	51.4	0.4	755	0.0
Kerala		3498	0	71.7	56.1	1.2	228	0.0
Tamil Nadu		13689	0	281.8	148.2	1.2	516	0.0
Pondy		355	0	7.1	7.4	-0.3	40	0.0
ER	Bihar	4127	0	71.7	71.3	-1.0	200	0.0
	DVC	3160	0	64.1	-35.2	-0.4	90	0.0
	Jharkhand	1298	0	24.6	15.2	0.0	130	0.0
	Odisha	3701	0	67.0	10.5	-0.8	250	0.0
	West Bengal	6081	0	109.4	33.1	-0.6	300	0.0
	Sikkim	131	0	1.9	1.7	0.2	25	0.0
NER	Arunachal Pradesh	117	2	2.1	1.8	0.2	41	0.0
	Assam	1380	12	22.1	18.1	-0.2	97	0.3
	Manipur	184	1	2.8	3.0	-0.2	29	0.0
	Meghalaya	361	0	6.1	3.0	0.5	71	0.1
	Mizoram	110	1	1.9	1.1	0.5	33	0.0
	Nagaland	134	2	2.2	2.3	-0.3	45	0.0
Tripura	229	5	3.4	1.6	-0.7	15	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.0	-7.4	-7.0
Day peak (MW)	429.6	-372.0	-540.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	225.3	-222.6	118.8	-121.0	-0.3	0.2
Actual(MU)	232.1	-247.3	129.8	-115.6	-0.9	-1.9
O/D/U/D(MU)	6.8	-24.7	11.0	5.4	-0.6	-2.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6394	16833	8852	660	597	33335
State Sector	12282	15299	9520	6550	11	43662
Total	18676	32131	18372	7210	608	76997

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	468	1211	478	441	15	2613
Lignite	24	16	47	0	0	87
Hydro	119	49	90	42	8	309
Nuclear	30	28	44	0	0	102
Gas, Naptha & Diesel	32	30	17	0	24	103
RES (Wind, Solar, Biomass & Others)	59	44	148	2	0	253
Total	733	1377	825	485	47	3466

Share of RES in total generation (%)	8.09	3.19	17.95	0.40	0.06	7.31
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.44	8.76	34.27	9.03	17.95	19.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.078

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 : 21-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	3	297	0.0	4.7	-4.7
1	765kV	GAYA-VARANASI	D/C	0	1074	0.0	13.9	-13.9
2		SASARAM-FATEHPUR	S/C	0	515	0.0	6.5	-6.5
3		GAYA-BALIA	S/C	0	547	0.0	8.3	-8.3
6	400 kV	PUSAULI-VARANASI	S/C	36	167	0.0	1.5	-1.5
7		PUSAULI -ALLAHABAD	S/C	0	311	0.0	3.0	-3.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	908	0.0	12.2	-12.2
9		PATNA-BALIA	Q/C	0	1220	0.0	19.1	-19.1
10		BIHARSHARIFF-BALIA	D/C	0	568	0.0	7.6	-7.6
11		MOTIHARI-GORAKHPUR	D/C	1	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	435	0.0	4.8	-4.8
13		220 kV	PUSAULI-SAHUPURI	S/C	5	101	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	0.3	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>78.0</b>	<b>-77.8</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	829	437	7.6	0.0	7.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	324	439	0.0	1.0	-1.0
20		JHARSUGUDA-DURG	D/C	34	247	0.0	2.4	-2.4
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	285	189	2.2	0.0	2.2
22		RANCHI-SIPAT	D/C	139	162	0.2	0.0	0.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	5	89	0.0	1.2	-1.2
24		BUDHIPADAR-KORBA	D/C	181	0	2.9	0.0	2.9
<b>ER-WR</b>						<b>12.9</b>	<b>4.5</b>	<b>8.4</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	16.0	-16.0
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	45.5	-45.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2028.0	0.0	36.4	-36.4
28	400 kV	TALCHER-I/C	D/C	414.0	646.0	0.0	2.8	-2.8
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>97.9</b>	<b>-97.9</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	245	0	3.6	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	268	0	4.2	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	54	17	0.6	0.0	1
<b>ER-NER</b>						<b>8.4</b>	<b>0.0</b>	<b>8.4</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	385	0	8.3	0.0	8.3
<b>NER-NR</b>						<b>8.3</b>	<b>0.0</b>	<b>8.3</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2204	0.0	42.4	-42.4
35		V'CHAL B/B	D/C	229	0	6.1	0.0	6.1
36		APL -MHG	D/C	0	1458	0.0	31.6	-31.6
37	765 kV	GWALIOR-AGRA	D/C	0	2742	0.0	46.4	-46.4
38		PHAGI-GWALIOR	D/C	0	1627	0.0	19.5	-19.5
39		JABALPUR-ORAI	D/C	0	975	0.0	29.1	-29.1
40		GWALIOR-ORAI	S/C	678	0	10.2	0.0	10.2
41		SATNA-ORAI	S/C	0	1564	0.0	30.7	-30.7
42		CHITTORGARH-BANASKANTHA	D/C	293	716	1.5	3.1	-1.6
43	400 kV	ZERDA-KANKROLI	S/C	153	145	1.1	0.0	1.1
44		ZERDA -BHINMAL	S/C	92	386	0.0	1.7	-1.7
45		V'CHAL -RIHAND	S/C	972	0	22.3	0.0	22.3
46		RAPP-SHUJALPUR	D/C	169	351	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	17	72	0.6	0.1	0.4
48		BHANPURA-MORAK	S/C	24	92	0.1	0.8	-0.7
49		MEHGAON-AURAIYA	S/C	89	0	1.0	0.0	1.0
50	132kV	MALANPUR-AURAIYA	S/C	40	27	0.2	0.1	0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>43.1</b>	<b>206.0</b>	<b>-163.0</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	61	2217	0.0	29.5	-29.5
55		WARDHA-NIZAMABAD	D/C	0	2804	0.0	44.2	-44.2
56	400 kV	KOLHAPUR-KUDGI	D/C	701	0	10.2	0.0	10.2
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	1	100	0.0	1.4	-1.4
59		XELDEM-AMBEWADI	S/C	1	111	1.6	0.0	1.6
<b>WR-SR</b>						<b>11.8</b>	<b>87.1</b>	<b>-75.3</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>6.0</b>
61		NEPAL						<b>-7.4</b>
62		BANGLADESH						<b>-7.0</b>