



**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: 10<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., डोंगतेह, 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 09.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09<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 10-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)	43960	47584	38340	17867	2316	150067
Peak Shortage (MW)	522	0	0	0	45	567
Energy Met (MU)	873	1143	858	340	39	3253
Hydro Gen (MU)	132	62	98	48	9	350
Wind Gen (MU)	6	47	45	-----	-----	98
Solar Gen (MU)*	27.61	19.1	75.37	1.97	0.03	124
Energy Shortage (MU)	12.7	0.0	0.0	0.0	0.4	13.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45064 18:13	54172 10:58	39856 18:40	18120 18:52	2414 17:28	152932 18:25

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	0.061	0.00	2.67	12.67	15.35	73.33	11.32

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	5760	0	110.7	50.4	-1.9	110	0.0
	Haryana	6085	0	118.4	100.4	0.6	174	0.0
	Rajasthan	12181	2	222.6	69.9	3.9	781	0.0
	Delhi	3537	0	62.8	49.8	-0.3	174	0.0
	UP	13676	0	244.7	103.1	-0.8	924	1.9
	Uttarakhand	1841	0	34.7	17.5	0.1	125	0.0
	HP	1634	0	29.4	21.4	0.5	136	0.0
	J&K	2199	550	46.0	40.0	0.5	201	10.9
	Chandigarh	215	0	3.6	3.3	0.2	32	0.0
WR	Chhattisgarh	3452	0	73.5	13.6	2.1	349	0.0
	Gujarat	15745	0	328.8	83.3	1.9	632	0.0
	MP	13720	0	253.5	142.1	-3.5	419	0.0
	Maharashtra	21703	0	442.9	135.9	-5.6	739	0.0
	Goa	541	0	12.3	11.4	0.3	102	0.0
	DD	321	0	7.0	6.5	0.5	47	0.0
	DNH	810	0	18.6	18.6	0.0	41	0.0
	Essar steel	344	0	6.0	5.7	0.3	295	0.0
	SR	Andhra Pradesh	7320	0	155.9	74.6	-1.4	298
Telangana		9012	0	182.7	83.0	-0.4	412	0.0
Karnataka		10090	0	184.5	41.3	0.4	864	0.0
Kerala		3582	0	70.6	49.8	1.0	224	0.0
Tamil Nadu		12907	0	258.0	145.2	-0.6	763	0.0
Pondy		356	0	6.9	7.4	-0.5	60	0.0
ER	Bihar	3896	0	67.6	63.8	2.3	320	0.0
	DVC	3073	0	61.0	-31.6	0.1	210	0.0
	Jharkhand	1129	0	24.4	15.3	0.2	31	0.0
	Odisha	4103	0	75.1	9.6	0.0	350	0.0
	West Bengal	6262	0	110.4	20.2	0.0	200	0.0
Sikkim	101	0	1.7	1.3	0.4	25	0.0	
NER	Arunachal Pradesh	118	1	2.1	2.0	-0.1	73	0.0
	Assam	1296	29	21.3	16.3	0.1	100	0.3
	Manipur	186	0	2.5	2.8	-0.3	19	0.0
	Meghalaya	347	0	6.2	2.8	0.5	61	0.0
	Mizoram	99	1	1.8	0.9	0.2	8	0.0
	Nagaland	127	2	2.1	2.2	-0.3	11	0.0
Tripura	217	1	3.4	1.6	-0.3	29	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.6	-3.1	-9.6
Day peak (MW)	534.0	-383.5	-746.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	201.5	-197.3	96.9	-97.6	-2.6	1.0
Actual(MU)	199.1	-198.1	92.0	-94.0	-2.8	-3.8
O/D/U/D(MU)	-2.5	-0.8	-5.0	3.6	-0.2	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5533	19411	7862	2740	563	36109
State Sector	12765	16581	11690	6510	11	47557
Total	18298	35991	19552	9250	575	83666

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	427	1126	403	402	13	2372
Lignite	25	18	41	0	0	83
Hydro	132	62	98	48	9	350
Nuclear	19	28	57	0	0	104
Gas, Naptha & Diesel	26	49	15	0	25	113
RES (Wind, Solar, Biomass & Others)	60	74	164	2	0	301
Total	690	1357	778	452	47	3323

Share of RES in total generation (%)	8.75	5.48	21.08	0.45	0.06	9.05
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.70	12.12	41.06	10.99	19.58	22.71

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.044
Based on State Max Demands	1.098

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 : 10-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>								
1	765kV	GAYA-VARANASI	D/C	0	883	0.0	13.1	-13.1
2		SASARAM-FATEHPUR	S/C	0	472	0.0	6.8	-6.8
3		GAYA-BALIA	S/C	0	481	0.0	7.5	-7.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	196	0.0	4.7	-4.7
6	400 kV	PUSAULI-VARANASI	S/C	0	136	0.0	2.4	-2.4
7		PUSAULI -ALLAHABAD	S/C	0	142	0.0	2.1	-2.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1112	0.0	15.1	-15.1
9		PATNA-BALIA	Q/C	0	1047	0.0	18.0	-18.0
10		BIHARSHARIFF-BALIA	D/C	0	495	0.0	8.2	-8.2
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	432	0.0	5.0	-5.0
13	220 kV	PUSAULI-SAHUPURI	S/C	18	89	0.0	0.9	-0.9
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>83.8</b>	<b>-83.5</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1024	330	7.4	0.0	7.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	524	440	1.9	0.0	1.9
20		JHARSUGUDA-DURG	D/C	59	248	0.0	2.7	-2.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	257	272	0.9	0.0	0.9
22		RANCHI-SIPAT	D/C	204	152	1.1	0.0	1.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	124	0.0	2.0	-2.0
24		BUDHIPADAR-KORBA	D/C	123	25	1.1	0.0	1.1
<b>ER-WR</b>						<b>12.3</b>	<b>4.6</b>	<b>7.7</b>
<b>Import/Export of ER (With SR)</b>								
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1863.0	0.0	29.6	-29.6
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	525.0	0.0	12.3	-12.3
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1972.0	0.0	33.5	-33.5
28	400 kV	TALCHER-I/C	D/C	755.0	371.0	4.0	0.0	4.0
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>75.4</b>	<b>-75.4</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	312	0	5.5	0.0	5
31		ALIPURDUAR-BONGAIGAON	D/C	388	0	6.2	0.0	6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	65	3	1.1	0.0	1
<b>ER-NER</b>						<b>12.8</b>	<b>0.0</b>	<b>12.8</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	488	0	11.7	0.0	11.7
<b>NER-NR</b>						<b>11.7</b>	<b>0.0</b>	<b>11.7</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	804	0.0	15.8	-15.8
35		V'CHAL B/B	D/C	452	0	12.1	0.0	12.1
36		APL -MHG	D/C	0	1734	0.0	36.7	-36.7
37	765 kV	GWALIOR-AGRA	D/C	0	2228	0.0	40.9	-40.9
38		PHAGI-GWALIOR	D/C	0	1526	0.0	23.8	-23.8
39		JABALPUR-ORAI	D/C	0	808	0.0	21.9	-21.9
40		GWALIOR-ORAI	S/C	637	0	9.0	0.0	9.0
41		SATNA-ORAI	S/C	0	1519	0.0	29.7	-29.7
42		CHITTORGARH-BANASKANTHA	D/C	7	874	0.0	4.9	-4.9
43		ZERDA-KANKROLI	S/C	85	136	0.0	0.4	-0.4
44	400 kV	ZERDA -BHINMAL	S/C	38	327	0.0	2.8	-2.8
45		V'CHAL -RIHAND	S/C	982	0	22.7	0.0	22.7
46		RAPP-SHUJALPUR	D/C	65	289	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	0	84	0.3	0.2	0.0
48		BHANPURA-MORAK	S/C	0	158	0.0	2.1	-2.1
49		MEHGAON-AURAIYA	S/C	127	0	1.1	0.0	1.1
50		MALANPUR-AURAIYA	S/C	79	21	0.4	0.1	0.3
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>45.5</b>	<b>179.8</b>	<b>-134.3</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	989	0.0	18.9	-18.9
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	739	1900	1.8	16.2	-14.4
55		WARDHA-NIZAMABAD	D/C	0	2105	0.0	28.3	-28.3
56	400 kV	KOLHAPUR-KUDGI	D/C	804	0	11.0	0.0	11.0
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	61	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	0	69	1.3	0.0	1.3
<b>WR-SR</b>						<b>14.2</b>	<b>64.6</b>	<b>-50.5</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						6.6
61		NEPAL						-3.1
62		BANGLADESH						-9.6