



**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: 07<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 06.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 06-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 06<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

7-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)	44492	47480	36493	18163	2345	148973
Peak Shortage (MW)	560	0	99	0	36	695
Energy Met (MU)	891	1145	850	341	41	3269
Hydro Gen (MU)	133	56	85	41	8	324
Wind Gen (MU)	24	56	62	-----	-----	141
Solar Gen (MU)*	24.56	15.42	60.86	2.02	0.04	103
Energy Shortage (MU)	10.8	0.0	0.0	0.0	0.4	11.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45110 18:20	53785 10:39	40421 07:42	18402 17:57	2448 17:25	153033 07:44

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	0.029	0.00	0.00	3.98	3.98	77.87	18.15

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	5817	0	114.0	54.3	-1.0	95	0.0
	Haryana	6102	0	121.6	102.8	1.3	210	0.0
	Rajasthan	12382	0	225.4	62.8	-0.3	438	0.0
	Delhi	3696	0	65.0	53.8	-0.4	189	0.0
	UP	13681	0	249.4	100.4	1.0	1056	0.0
	Uttarakhand	1940	0	36.1	19.2	0.5	112	0.0
	HP	1716	0	30.4	22.2	0.5	115	0.0
	J&K	2230	557	45.9	38.8	-0.5	201	10.8
	Chandigarh	218	0	3.6	3.4	0.2	30	0.0
WR	Chhattisgarh	3492	0	72.8	20.9	0.3	291	0.0
	Gujarat	15766	0	331.9	99.7	-3.2	511	0.0
	MP	13564	0	253.3	142.8	-2.3	419	0.0
	Maharashtra	21043	0	441.9	132.0	-5.5	602	0.0
	Goa	541	0	12.5	11.8	0.1	32	0.0
	DD	331	0	7.4	6.8	0.6	46	0.0
	DNH	794	0	18.7	18.8	-0.1	45	0.0
	Essar steel	320	0	6.4	6.3	0.1	295	0.0
	SR	Andhra Pradesh	7306	0	156.0	76.7	-0.1	342
Telangana		8888	5	181.5	79.0	0.8	473	0.0
Karnataka		9840	39	179.9	35.1	-1.2	380	0.0
Kerala		3548	0	68.7	54.5	1.3	211	0.0
Tamil Nadu		12516	0	257.7	148.6	-1.6	462	0.0
Pondy		336	0	6.6	7.2	-0.7	35	0.0
ER		Bihar	3996	0	67.6	66.2	0.0	200
	DVC	2962	0	61.6	-32.9	0.2	240	0.0
	Jharkhand	1176	0	23.8	16.1	-0.3	31	0.0
	Odisha	4103	0	75.8	8.5	1.4	300	0.0
	West Bengal	6350	0	110.8	24.3	0.7	430	0.0
Sikkim	107	0	1.7	1.5	0.2	30	0.0	
NER	Arunachal Pradesh	113	1	2.2	2.1	0.0	74	0.0
	Assam	1345	35	22.6	17.5	0.2	91	0.3
	Manipur	156	1	2.4	2.8	-0.4	31	0.0
	Meghalaya	360	0	6.0	3.1	0.3	34	0.0
	Mizoram	104	1	1.8	1.0	0.5	16	0.0
	Nagaland	118	1	2.2	2.2	-0.2	16	0.0
Tripura	319	1	3.9	1.6	-0.1	29	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.1	-5.1	-6.8
Day peak (MW)	595.4	-387.0	-538.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.3	-186.0	89.5	-116.0	-0.8	-0.1
Actual(MU)	209.3	-193.6	87.3	-105.9	-1.0	-3.8
O/D/U/D(MU)	-4.0	-7.6	-2.1	10.1	-0.2	-3.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6266	17997	6762	1970	563	33559
State Sector	13780	17340	11570	5700	11	48401
Total	20046	35337	18332	7670	575	81960

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	419	1118	400	418	12	2367
Lignite	23	15	46	0	0	83
Hydro	133	56	85	41	8	324
Nuclear	25	28	57	0	0	110
Gas, Naptha & Diesel	24	49	15	0	25	113
RES (Wind, Solar, Biomass & Others)	75	81	166	2	0	324
Total	699	1347	769	461	46	3322

Share of RES in total generation (%)	10.69	6.02	21.56	0.45	0.09	9.75
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.38	12.25	40.08	9.30	18.29	22.81

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.047
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 :	7-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>									
1	765kV	GAYA-VARANASI	D/C	0	1016	0.0	13.3	-13.3	
2		SASARAM-FATEHPUR	S/C	0	404	0.0	6.2	-6.2	
3		GAYA-BALIA	S/C	0	498	0.0	8.2	-8.2	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	196	0.0	5.0	-5.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	142	0.0	2.9	-2.9	
7		PUSAULI -ALLAHABAD	S/C	0	142	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1133	0.0	14.8	-14.8	
9		PATNA-BALIA	Q/C	0	1061	0.0	18.4	-18.4	
10		BIHARSHARIFF-BALIA	D/C	0	451	0.0	7.7	-7.7	
11		MOTIHARI-GORAKHPUR	D/C	2	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	432	0.0	4.7	-4.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	104	0.0	1.8	-1.8	
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>84.8</b>	<b>-84.4</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	782	410	3.8	0.0	3.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	351	426	0.0	0.1	-0.1	
20		JHARSUGUDA-DURG	D/C	0	335	0.0	3.9	-3.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	292	239	0.0	0.0	0.0	
22		RANCHI-SIPAT	D/C	173	140	0.7	0.0	0.7	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	102	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	146	3	1.4	0.0	1.4	
						<b>ER-WR</b>	<b>5.9</b>	<b>5.4</b>	<b>0.6</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1839.0	0.0	30.2	-30.2	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	522.0	0.0	12.2	-12.2	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1591.0	0.0	29.8	-29.8	
28	400 kV	TALCHER-I/C	D/C	1038.0	566.0	5.1	0.0	5.1	
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>72.2</b>	<b>-72.2</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	312	33	4.5	0.0	4	
31		ALIPURDUAR-BONGAIGAON	D/C	346	23	4.8	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	65	26	0.6	0.0	1	
						<b>ER-NER</b>	<b>9.8</b>	<b>0.0</b>	<b>9.8</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	480	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	1111	0.0	26.6	-26.6	
35		V'CHAL B/B	D/C	452	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1549	0.0	29.1	-29.1	
37	765 kV	GWALIOR-AGRA	D/C	0	2279	0.0	41.6	-41.6	
38		PHAGI-GWALIOR	D/C	0	1560	0.0	21.5	-21.5	
39		JABALPUR-ORAI	D/C	0	852	0.0	27.5	-27.5	
40		GWALIOR-ORAI	S/C	624	0	10.2	0.0	10.2	
41		SATNA-ORAI	S/C	0	1381	0.0	27.9	-27.9	
42		CHITTORGARH-BANASKANTHA	D/C	0	865	0.0	9.3	-9.3	
43		ZERDA-KANKROLI	S/C	132	141	0.0	0.3	-0.3	
44	400 kV	ZERDA -BHINMAL	S/C	175	302	0.0	1.5	-1.5	
45		V'CHAL -RIHAND	S/C	983	0	22.5	0.0	22.5	
46	220 kV	RAPP-SHUJALPUR	D/C	183	289	0	1	-1	
47		BHANPURA-RANPUR	S/C	11	94	0.4	0.3	0.1	
48		BHANPURA-MORAK	S/C	13	162	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	91	8	0.8	0.0	0.8	
50	132kV	MALANPUR-AURAIYA	S/C	43	31	0.2	0.1	0.0	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>46.1</b>	<b>188.2</b>	<b>-142.1</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	10.5	-10.5	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	345	1981	0.0	17.7	-17.7	
55		WARDHA-NIZAMABAD	D/C	0	2366	0.0	35.3	-35.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	883	0	12.5	0.0	12.5	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	66	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	77	1.4	0.0	1.4	
						<b>WR-SR</b>	<b>13.9</b>	<b>64.7</b>	<b>-50.8</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						7.1	
61		NEPAL						-5.1	
62		BANGLADESH						-6.8	