



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: 08<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 07.12.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07<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

8-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)	44580	47660	36547	17794	2315	148896
Peak Shortage (MW)	640	0	82	0	34	756
Energy Met (MU)	883	1132	841	340	40	3235
Hydro Gen (MU)	131	60	92	41	8	332
Wind Gen (MU)	20	72	41	-----	-----	133
Solar Gen (MU)*	27.57	21.4	67.65	1.97	0.04	119
Energy Shortage (MU)	11.3	0.0	0.0	0.0	0.5	11.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44632 18:32	53818 10:54	39269 18:50	17770 18:04	2492 17:27	152491 18:24

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	0.037	0.00	0.27	4.29	4.56	71.78	23.66

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	5953	0	113.8	54.3	-0.7	205	0.0
	Haryana	6024	0	120.5	102.7	0.9	174	0.0
	Rajasthan	12110	0	223.2	62.7	0.8	584	0.0
	Delhi	3469	0	62.0	50.9	-0.2	248	0.0
	UP	13981	0	248.3	102.4	-0.6	598	0.3
	Uttarakhand	1881	0	35.0	18.2	-0.2	106	0.0
	HP	1708	0	30.0	22.3	0.0	185	0.0
	J&K	2561	640	46.4	39.1	0.0	201	11.0
	Chandigarh	209	0	3.4	3.3	0.1	28	0.0
WR	Chhattisgarh	3481	0	72.5	21.2	-1.1	158	0.0
	Gujarat	15346	0	325.8	93.0	-1.9	575	0.0
	MP	13870	0	255.1	147.5	-2.6	419	0.0
	Maharashtra	21116	0	434.6	134.3	-3.6	435	0.0
	Goa	541	0	12.3	11.6	0.1	52	0.0
	DD	316	0	7.3	6.7	0.6	43	0.0
	DNH	798	0	18.6	18.5	0.1	34	0.0
	Essar steel	323	0	6.2	6.0	0.2	295	0.0
	SR	Andhra Pradesh	7311	0	155.0	77.1	-0.1	326
Telangana		8863	0	181.7	78.8	2.1	476	0.0
Karnataka		9670	0	177.1	38.4	0.2	613	0.0
Kerala		3499	0	69.8	54.4	0.8	144	0.0
Tamil Nadu		12009	0	250.4	146.5	-0.2	614	0.0
Pondy		354	0	6.7	7.2	-0.5	38	0.0
ER	Bihar	3962	0	66.8	66.2	-0.6	260	0.0
	DVC	2815	0	59.9	-30.2	1.0	410	0.0
	Jharkhand	1229	0	23.8	16.5	-1.2	31	0.0
	Odisha	4009	0	74.0	7.7	1.0	415	0.0
	West Bengal	6062	0	114.1	24.4	0.6	240	0.0
Sikkim	100	0	1.7	1.6	0.1	20	0.0	
NER	Arunachal Pradesh	116	1	2.3	2.0	0.1	73	0.0
	Assam	1392	30	21.5	17.0	-0.6	134	0.5
	Manipur	155	1	2.2	2.8	-0.6	18	0.0
	Meghalaya	358	0	6.0	2.9	0.4	61	0.0
	Mizoram	99	1	1.8	0.9	0.5	12	0.0
	Nagaland	119	1	2.2	2.3	-0.3	13	0.0
Tripura	217	1	3.7	1.6	-0.1	41	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	7.4	-4.0	-7.9
Day peak (MW)	445.6	-210	-653.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	205.4	-189.6	95.9	-110.6	-1.0	0.2
Actual(MU)	202.5	-183.9	102.1	-122.5	-0.9	-2.6
O/D/U/D(MU)	-2.9	5.7	6.2	-11.9	0.1	-2.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5853	18497	6762	2240	614	33966
State Sector	13020	18028	12720	5700	11	49479
Total	18873	36525	19482	7940	625	83445

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	422	1084	386	436	12	2340
Lignite	24	14	48	0	0	87
Hydro	131	60	92	41	8	332
Nuclear	23	28	58	0	0	108
Gas, Naptha & Diesel	24	41	15	0	25	105
RES (Wind, Solar, Biomass & Others)	74	107	151	2	0	335
Total	699	1334	749	479	45	3306

Share of RES in total generation (%)	10.63	8.04	20.16	0.42	0.09	10.12
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.71	14.60	40.07	8.94	18.97	23.44

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.036
Based on State Max Demands	1.089

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 :	8-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	1036	0.0	15.0	-15.0	
2		SASARAM-FATEHPUR	S/C	0	522	0.0	2.7	-2.7	
3		GAYA-BALIA	S/C	0	498	0.0	8.1	-8.1	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	198	0.0	4.9	-4.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	150	0.0	2.9	-2.9	
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1095	0.0	15.3	-15.3	
9		PATNA-BALIA	Q/C	0	1120	0.0	18.5	-18.5	
10		BIHARSHARIFF-BALIA	D/C	0	531	0.0	8.2	-8.2	
11		MOTIHARI-GORAKHPUR	D/C	3	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	462	0.0	5.8	-5.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	140	0.0	2.2	-2.2	
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>85.4</b>	<b>-85.1</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	464	835	0.0	4.5	-4.5	
19		NEW RANCHI-DHARAMJAIGARH	D/C	534	481	0.1	0.0	0.1	
20		JHARSUGUDA-DURG	D/C	0	407	0.0	5.8	-5.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	151	355	0.0	2.2	-2.2	
22		RANCHI-SIPAT	D/C	197	161	0.3	0.0	0.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	124	0.0	1.9	-1.9	
24		BUDHIPADAR-KORBA	D/C	115	20	1.2	0.0	1.2	
						<b>ER-WR</b>	<b>1.6</b>	<b>14.4</b>	<b>-12.8</b>
<b>Import/Export of ER (With SR)</b>									
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2057.0	0.0	36.7	-36.7	
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	525.0	0.0	12.2	-12.2	
27	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1978.0	0.0	30.2	-30.2	
28	400 kV	TALCHER-I/C	D/C	1030.0	276.0	7.6	0.0	7.6	
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>79.1</b>	<b>-79.1</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	326	6	5.1	0.0	5	
31		ALIPURDUAR-BONGAIGAON	D/C	366	0	5.4	0.0	5	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	70	16	1.0	0.0	1	
						<b>ER-NER</b>	<b>11.4</b>	<b>0.0</b>	<b>11.4</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	489	0	11.6	0.0	11.6	
						<b>NER-NR</b>	<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1002	0.0	0.0	0.0	
35		V'CHAL B/B	D/C	452	0	0.0	0.0	0.0	
36		APL -MHG	D/C	0	1734	0.0	32.2	-32.2	
37	765 kV	GWALIOR-AGRA	D/C	0	2276	0.0	43.0	-43.0	
38		PHAGI-GWALIOR	D/C	0	1669	0.0	20.2	-20.2	
39		JABALPUR-ORAI	D/C	0	935	0.0	29.3	-29.3	
40		GWALIOR-ORAI	S/C	757	0	11.0	0.0	11.0	
41		SATNA-ORAI	S/C	0	1413	0.0	28.0	-28.0	
42		CHITTORGARH-BANASKANTHA	D/C	0	1063	0.0	10.2	-10.2	
43		ZERDA-KANKROLI	S/C	82	182	0.5	0.0	0.5	
44	400 kV	ZERDA -BHINMAL	S/C	83	331	0.0	1.6	-1.6	
45		V'CHAL -RIHAND	S/C	976	0	22.4	0.0	22.4	
46	220 kV	RAPP-SHUJALPUR	D/C	135	313	0	1	-1	
47		BHANPURA-RANPUR	S/C	0	103	0.1	0.4	-0.2	
48		BHANPURA-MORAK	S/C	0	164	0.0	2.3	-2.3	
49		MEHGAON-AURAIYA	S/C	88	0	0.9	0.0	0.9	
50		MALANPUR-AURAIYA	S/C	40	20	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>35.1</b>	<b>168.3</b>	<b>-133.2</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	617	0.0	9.4	-9.4	
53	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	614	2065	0.7	22.1	-21.4	
55		WARDHA-NIZAMABAD	D/C	1741	2670	0.0	42.3	-42.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	774	4	10.1	0.0	10.1	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	63	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	0	71	1.3	0.0	1.3	
						<b>WR-SR</b>	<b>12.2</b>	<b>75.0</b>	<b>-62.8</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						7.4	
61		NEPAL						-4.0	
62		BANGLADESH						-7.9	