



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: 13<sup>th</sup> Dec 2018

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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 12.12.2018.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-दिसम्बर-2018 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 12<sup>th</sup> December 2018, 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

13-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	43061	48000	41924	17940	2411	153336
Peak Shortage (MW)	594	0	66	300	22	982
Energy Met (MU)	901	1120	932	349	42	3344
Hydro Gen (MU)	116	26	90	75	7	315
Wind Gen (MU)	18	37	16	-----	-----	70
Solar Gen (MU)*	18.41	17.35	59.50	0.57	0.04	96
Energy Shortage (MU)	12.5	0.0	0.0	0.9	0.9	14.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43884 18:05	54223 10:27	43656 07:27	18490 18:11	2485 17:38	156337 18:30

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	0.062	0.20	1.00	19.44	20.64	71.16	8.21

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	5658	0	122.0	39.8	-1.0	126	0.0
	Haryana	5979	0	113.5	54.2	0.8	469	0.1
	Rajasthan	11534	0	224.7	53.4	-0.3	439	0.0
	Delhi	3608	0	64.0	48.1	-0.2	249	0.0
	UP	12309	0	258.1	102.1	-0.8	307	0.8
	Uttarakhand	1985	0	37.7	26.1	1.0	182	0.2
	HP	1539	0	29.1	22.4	0.1	110	0.1
	J&K	2403	601	48.0	42.6	-0.2	285	11.3
	Chandigarh	200	0	3.5	3.1	0.4	41	0.0
WR	Chhattisgarh	3546	0	74.7	18.9	-1.0	287	0.0
	Gujarat	14791	0	323.2	95.9	-0.1	490	0.0
	MP	12952	0	248.3	144.5	-2.8	368	0.0
	Maharashtra	20966	0	429.4	109.9	-1.4	493	0.0
	Goa	453	0	9.5	9.7	-0.6	53	0.0
	DD	328	0	7.3	6.5	0.8	81	0.0
	DNH	753	0	17.5	16.6	0.9	87	0.0
	Essar steel	495	0	10.6	10.6	0.1	257	0.0
	SR	Andhra Pradesh	8082	0	174.9	56.2	1.3	507
Telangana		8217	0	171.2	72.0	1.9	806	0.0
Karnataka		11057	0	211.5	69.5	1.7	1358	0.0
Kerala		3687	0	72.0	56.2	0.9	164	0.0
Tamil Nadu		14141	0	296.2	148.4	1.4	451	0.0
Pondy		317	0	6.5	7.0	-0.4	15	0.0
ER	Bihar	4052	0	71.0	69.6	-0.4	460	0.0
	DVC	2935	0	62.6	-20.6	1.0	396	0.4
	Jharkhand	999	0	22.7	14.5	1.2	169	0.5
	Odisha	4072	0	75.4	25.4	2.0	267	0.0
	West Bengal	6635	0	115.6	24.5	1.0	309	0.0
NER	Sikkim	100	0	1.7	1.7	0.0	18	0.0
	Arunachal Pradesh	109	1	2.1	2.0	0.1	30	0.1
	Assam	1436	20	23.4	18.3	0.8	67	0.3
	Manipur	184	3	2.6	2.9	-0.3	30	0.1
	Meghalaya	342	0	6.2	5.1	-0.2	53	0.3
	Mizoram	89	2	1.6	1.3	-0.2	7	0.0
	Nagaland	124	2	2.2	1.9	0.1	50	0.0
	Tripura	219	1	3.8	1.9	0.1	23	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.1	-4.2	-14.5
Day peak (MW)	164.2	-186.0	-811.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	142.2	-167.6	99.8	-77.5	3.4	0.4
Actual(MU)	137.5	-182.3	106.2	-67.1	0.6	-5.0
O/D/U/D(MU)	-4.7	-14.7	6.4	10.4	-2.9	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4317	16025	7932	1370	106	29750
State Sector	11555	12915	7070	6015	50	37605
Total	15872	28940	15002	7385	156	67355

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	530	1149	520	414	9	2622
Lignite	18	17	56.81	0	0	35
Hydro	116	26	90	75	7	315
Nuclear	29	19	36	0	0	85
Gas, Naptha & Diesel	25	41	22	0	29	116
RES (Wind, Solar, Biomass & Others)	72	56	112	1	0	240
Total	790	1309	780	490	45	3413

Share of RES in total generation (%)	9.11	4.26	14.35	0.12	0.09	7.04
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.48	7.75	30.54	15.47	16.14	18.74

H. Diversity Factor

All India Demand Diversity Factor	1.041
-----------------------------------	-------

Diversity factor = Sum of regional 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 :	13-Dec-18
SI 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	423	0.0	6.1	-6.1	
2		SASARAM-FATEHPUR	S/C	0	307	0.0	4.2	-4.2	
3		GAYA-BALIA	S/C	0	302	0.0	4.1	-4.1	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	4	0	0.0	0.0	0.0	
6	400 kV	PUSAULI-VARANASI	S/C	58	10	0.6	0.0	0.6	
7		PUSAULI-ALLAHABAD	S/C	73	51	0.4	0.0	0.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	563	0.0	7.2	-7.2	
9		PATNA-BALIA	Q/C	0	902	0.0	16.9	-16.9	
10		BIHARSHARIFF-BALIA	D/C	0	230	0.0	3.3	-3.3	
11		MOTIHARI-GORAKHPUR	D/C	0	350	0.0	6.4	-6.4	
12		BIHARSHARIFF-VARANASI	D/C	33	214	0.0	2.3	-2.3	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	135	0.0	2.1	-2.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	25	0	0.6	0.0	0.6	
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>1.5</b>	<b>52.5</b>	<b>-50.9</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1250	0	12.1	0.0	12.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	152	531	0.0	1.5	-1.5	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	57	259	0.0	2.4	-2.4	
21		RANCHI-SIPAT	D/C	148	85	1.5	0.0	1.5	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	102	0.0	1.5	-1.5	
23		BUDHIPADAR-KORBA	D/C	139	0	2.5	0.0	2.5	
<b>ER-WR</b>						<b>16.1</b>	<b>5.4</b>	<b>10.7</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	925.0	0.0	12.2	-12.2	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	680.0	0.0	15.6	-15.6	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2467.0	0.0	46.8	-46.8	
27	400 kV	TALCHER-I/C	D/C	0.0	1078.0	0.0	9.3	-9.3	
28	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>74.6</b>	<b>-74.6</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	250	92	3.7	0.0	4	
30		ALIPURDUAR-BONGAIGAON	D/C	359	34	6.0	0.0	6	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	52	15	0.6	0.0	1	
<b>ER-NER</b>						<b>10.3</b>	<b>0.0</b>	<b>10.3</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	648	0	11.4	0.0	11.4	
<b>NER-NR</b>						<b>11.4</b>	<b>0.0</b>	<b>11.4</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1009	0.0	24.1	-24.1	
34		VCHAL B/B	D/C	0	0	0.0	0.0	0.0	
35		APL -MHG	D/C	0	1030	0.0	25.0	-25.0	
36	765 kV	GWALIOR-AGRA	D/C	0	984	0.0	34.1	-34.1	
37		PHAGI-GWALIOR	D/C	0	1307	0.0	15.0	-15.0	
38		JABALPUR-ORAI	D/C	367	328	0.0	5.5	-5.5	
39		GWALIOR-ORAI	S/C	512	0	7.9	0.0	7.9	
40	400 kV	SATNA-ORAI	S/C	0	1700	0.0	35.9	-35.9	
41		ZERDA-KANKROLI	S/C	346	140	2.8	0.0	2.8	
42		ZERDA -BHINMAL	S/C	257	351	0.0	0.4	-0.4	
43		VCHAL -RIHAND	S/C	993	0	21.7	0.0	21.7	
44		RAPP-SHUJALPUR	D/C	497	0	3	0	3	
45	220 kV	BADOD-KOTA	S/C	76	6	1.5	0.0	1.5	
46		BADOD-MORAK	S/C	53	46	0.3	0.2	0.2	
47		MEHGAON-AURAIYA	S/C	96	0	1.0	0.0	1.0	
48		MALANPUR-AURAIYA	S/C	60	6	0.4	0.0	0.4	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>38.8</b>	<b>140.1</b>	<b>-101.3</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	23.8	-23.8	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	455	2350	0.0	23.1	-23.1	
53		WARDHA-NIZAMABAD	D/C	0	2525	0.0	34.3	-34.3	
54	400 kV	KOLHAPUR-KUDGI	D/C	866	6	10.4	0.0	10.4	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	65	1.2	0.0	1.2	
<b>WR-SR</b>						<b>11.6</b>	<b>81.2</b>	<b>-69.6</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						2.1	
59		NEPAL						-4.2	
60		BANGLADESH						-14.5	