



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: 19th 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 18.12.2018.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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

19-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45074	47377	40541	17060	2035	152087
Peak Shortage (MW)	1199	0	0	0	195	1394
Energy Met (MU)	937	1085	873	299	39	3233
Hydro Gen (MU)	119	33	71	26	7	256
Wind Gen (MU)	10	56	40	-----	-----	106
Solar Gen (MU)*	23.29	19.36	48.55	0.57	0.03	92
Energy Shortage (MU)	15.9	0.0	0.0	0.0	3.9	19.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45542 18:29	52676 10:31	43913 11:01	17574 19:22	2001 19:12	154266 11:01

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	0.05	7.95	8.00	81.91	10.09

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	120.4	33.3	-0.8	96	0.0
	Haryana	6322	225	124.6	68.2	1.6	227	1.9
	Rajasthan	12570	0	224.3	63.0	-6.8	409	0.0
	Delhi	3756	0	65.0	49.6	0.1	199	0.0
	UP	13503	190	276.7	113.6	0.8	297	0.2
	Uttarakhand	2053	0	38.3	26.1	-0.5	114	0.0
	HP	1553	0	27.9	21.4	0.0	110	0.4
	J&K	2819	705	56.5	42.5	8.0	719	13.3
	Chandigarh	217	0	3.5	3.2	0.3	48	0.0
WR	Chhattisgarh	3158	0	60.0	4.1	-0.8	220	0.0
	Gujarat	14939	0	319.0	96.9	2.2	647	0.0
	MP	13323	0	250.2	134.1	0.6	873	0.0
	Maharashtra	20528	0	412.5	103.0	1.2	581	0.0
	Goa	452	0	9.1	8.8	-0.2	51	0.0
	DD	323	0	7.2	6.0	1.2	105	0.0
	DNH	744	0	17.4	16.0	1.3	107	0.0
	Essar steel	516	0	9.9	10.7	-0.7	242	0.0
	SR	Andhra Pradesh	6868	0	149.1	49.9	1.1	449
Telangana		7375	0	147.9	87.6	0.9	433	0.0
Karnataka		10356	0	200.9	62.5	-1.6	403	0.0
Kerala		3587	0	68.7	56.3	0.8	194	0.0
Tamil Nadu		14297	0	299.3	155.2	2.0	672	0.0
Pondy		335	0	6.7	7.0	-0.4	39	0.0
ER		Bihar	3955	0	57.2	55.7	-2.1	460
	DVC	2912	0	57.0	-27.3	-0.2	396	0.0
	Jharkhand	1048	0	19.1	12.8	-0.1	169	0.0
	Odisha	3685	0	61.0	18.5	1.1	267	0.0
	West Bengal	6121	0	103.4	17.6	-0.7	309	0.0
NER	Sikkim	100	0	1.5	1.7	-0.2	18	0.0
	Arunachal Pradesh	95	2	2.1	2.0	0.2	19	0.0
	Assam	1120	150	20.3	14.7	1.4	103	3.7
	Manipur	173	2	2.6	2.7	-0.2	21	0.0
	Meghalaya	315	0	6.0	5.0	-0.4	14	0.2
	Mizoram	86	2	1.8	1.3	0.2	0	0.0
	Nagaland	99	3	2.2	2.0	0.0	2	0.0
Tripura	215	0	3.9	1.5	0.4	18	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.0	-6.4	-13.9
Day peak (MW)	233.9	-284.0	-794.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	155.9	-188.4	118.9	-86.0	-0.3	0.1
Actual(MU)	156.2	-189.8	117.6	-87.5	-1.2	-4.7
O/D/U/D(MU)	0.3	-1.4	-1.3	-1.4	-0.9	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4641	17725	7682	1870	56	31974
State Sector	10835	14710	10220	5445	50	41260
Total	15476	32435	17902	7315	106	73234

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	549	1099	455	392	8	2502
Lignite	22	16	58	0	0	96
Hydro	119	33	71	26	7	256
Nuclear	24	19	36	0	0	80
Gas, Naptha & Diesel	20	39	22	0	29	110
RES (Wind, Solar, Biomass & Others)	60	77	124	1	0	262
Total	795	1283	766	418	43	3306

Share of RES in total generation (%)	7.60	6.01	16.15	0.14	0.07	7.92
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.68	10.10	30.09	6.34	15.31	18.07

H. Diversity Factor

All India Demand Diversity Factor	1.048
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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 :	19-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)	
Import/Export of ER (With NR)									
1	765kV	GAYA-VARANASI	D/C	0	683	0.0	10.8	-10.8	
2		SASARAM-FATEHPUR	S/C	0	194	0.0	3.4	-3.4	
3		GAYA-BALIA	S/C	0	305	0.0	5.6	-5.6	
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	3	0	0.0	0.0	0.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	68	0.0	1.4	-1.4	
7		PUSAULI-ALLAHABAD	S/C	27	51	0.0	1.4	-1.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	769	0.0	13.0	-13.0	
9		PATNA-BALIA	Q/C	0	937	0.0	18.7	-18.7	
10		BIHARSHARIFF-BALIA	D/C	0	331	0.0	6.0	-6.0	
11		MOTIHARI-GORAKHPUR	D/C	0	373	0.0	7.0	-7.0	
12		BIHARSHARIFF-VARANASI	D/C	0	265	0.0	3.9	-3.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	127	0.0	2.5	-2.5	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	25	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	
ER-NR						0.4	73.8	-73.3	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1197	0	13.8	0.0	13.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	115	538	0.0	4.9	-4.9	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	160	231	0.0	1.3	-1.3	
21		RANCHI-SIPAT	D/C	155	69	0.8	0.0	0.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	8	84	0.0	1.0	-1.0	
23		BUDHIPADAR-KORBA	D/C	152	0	2.1	0.0	2.1	
ER-WR						16.7	7.2	9.5	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1500.0	0.0	25.9	-25.9	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	425.0	0.0	9.9	-9.9	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	2463.0	0.0	44.6	-44.6	
27	400 kV	TALCHER-I/C	D/C	0.0	878.0	0.0	3.2	-3.2	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	80.4	-80.4	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	360	0	5.3	0.0	5	
30		ALIPURDUAR-BONGAIGAON	D/C	500	0	7.4	0.0	7	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	74	0	1.1	0.0	1	
ER-NER						13.7	0.0	13.7	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	479	0	11.6	0.0	11.6	
NER-NR						11.6	0.0	11.6	
Import/Export of WR (With NR)									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	16.6	-16.6	
34		VCHAL B/B	D/C	0	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	0	0.0	20.1	-20.1	
36	765 kV	GWALIOR-AGRA	D/C	0	0	0.0	37.1	-37.1	
37		PHAGI-GWALIOR	D/C	0	0	0.0	20.0	-20.0	
38		JABALPUR-ORAI	D/C	0	0	0.0	9.1	-9.1	
39		GWALIOR-ORAI	S/C	0	0	10.4	0.0	10.4	
40		SATNA-ORAI	S/C	0	0	0.0	36.9	-36.9	
41	400 kV	ZERDA-KANKROLI	S/C	0	0	1.3	0.0	1.3	
42		ZERDA -BHINMAL	S/C	0	0	0.0	2.0	-2.0	
43		VCHAL -RIHAND	S/C	0	0	21.9	0.0	21.9	
44		RAPP-SHUJALPUR	D/C	0	0	2	0	2	
45	220 kV	BADOD-KOTA	S/C	0	0	0.5	0.1	0.3	
46		BADOD-MORAK	S/C	0	0	0.0	1.2	-1.2	
47		MEHGAON-AURAIYA	S/C	0	0	1.1	0.0	1.1	
48		MALANPUR-AURAIYA	S/C	0	0	0.4	0.0	0.3	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						43.4	143.1	-99.7	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	0	0.0	21.9	-21.9	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	0	0.0	28.9	-28.9	
53		WARDHA-NIZAMABAD	D/C	0	0	0.0	38.6	-38.6	
54	400 kV	KOLHAPUR-KUDGI	D/C	0	0	10.2	0.0	10.2	
55	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56		PONDA-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
57		XELDEM-AMBEWADI	S/C	0	0	0.0	0.0	0.0	
WR-SR						10.2	89.4	-79.3	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						3.0	
59		NEPAL						-6.4	
60		BANGLADESH						-13.9	