National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 18th Dec 2018

To,

1. कार्यकारी निदेशक, पू .क्षे .भा .प्रे .के.,14 , गोल्फ क्लब रोड , कोलकाता - 700033
   Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, 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., डोंगतिएह, 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 17.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-दिसम्बर-2018 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 17th 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** **18-Dec-18**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44722	47018	39283	17243	2351	150617
Peak Shortage (MW)	483	0	0	0	61	544
Energy Met (MU)	924	1079	850	328	40	3221
Hydro Gen (MU)	120	29	67	27	7	250
Wind Gen (MU)	22	71	34	----------	----------	127
Solar Gen (MU)*	22.86	18.05	49.35	0.58	0.01	91
Energy Shortage (MU)	13.3	0.0	0.0	0.0	0.2	13.5
Maximum Demand Met during the day	45812	52588	40392	17280	2351	153606
(MW) & time (from NLDC SCADA)	18:20	10:28	08:13	17:53	17:31	18:22

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	0.046	0.00	0.15	12.74	12.89	77.99	9.12

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	5909	0	118.9	30.4	-0.8	73	0.0
	Haryana	6444	0	119.9	61.1	1.7	217	0.0
	Rajasthan	12570	0	233.8	54.3	1.9	308	0.0
	Delhi	3718	0	64.8	48.5	-0.2	212	0.0
	UP	13660	0	272.7	115.9	0.7	354	2.4
	Uttarakhand	2015	0	37.7	25.9	0.2	162	0.0
	HP	1533	30	28.1	20.9	0.5	160	0.4
	J&K	2504	626	44.5	42.2	-3.3	441	10.6
	Chandigarh	214	0	3.5	3.2	0.3	54	0.0
WR	Chhattisgarh	2695	0	59.8	5.1	-2.9	242	0.0
	Gujarat	14903	0	318.2	95.6	1.9	1089	0.0
	MP	13538	0	249.2	131.5	-1.7	458	0.0
	Maharashtra	20256	0	408.0	103.0	2.7	759	0.0
	Goa	407	0	8.7	9.3	-1.2	25	0.0
	DD	321	0	7.0	6.0	1.0	96	0.0
	DNH	750	0	17.0	16.0	1.0	101	0.0
	Essar steel	544	0	10.9	11.2	-0.3	287	0.0
SR	Andhra Pradesh	6226	0	135.4	41.3	0.1	496	0.0
	Telangana	7726	0	150.2	91.3	0.4	472	0.0
	Karnataka	10880	0	199.3	64.3	-0.8	371	0.0
	Kerala	3686	0	69.3	58.9	0.9	161	0.0
	Tamil Nadu	14165	0	289.7	137.7	-0.6	376	0.0
	Pondy	338	0	6.2	6.8	-0.5	20	0.0
ER	Bihar	3842	0	75.1	66.2	4.2	460	0.0
	DVC	2888	0	59.9	-18.7	1.1	396	0.0
	Jharkhand	1066	0	20.0	15.7	-2.2	169	0.0
	Odisha	3411	0	63.4	18.9	0.1	267	0.0
	West Bengal	6268	0	108.7	20.4	-1.5	309	0.0
	Sikkim	100	0	1.5	1.8	-0.3	18	0.0
NER	Arunachal Pradesh	115	2	2.0	2.0	0.0	50	0.0
	Assam	1388	39	22.5	17.6	0.8	116	0.0
	Manipur	176	2	2.6	2.8	-0.3	17	0.0
	Meghalaya	312	0	5.6	4.6	-0.2	26	0.2
	Mizoram	91	2	1.7	1.4	0.1	-	0.0
	Nagaland	125	3	2.1	2.0	-0.2	23	0.0
	Tripura	214	2	3.6	1.6	0.2	27	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-6.3	-14.5
Day peak (MW)	160.7	-284.0	-810.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	140.1	-187.7	114.7	-65.9	0.1	1.3
Actual(MU)	134.2	-190.4	109.1	-57.8	-1.8	-6.8
O/D/U/D(MU)	-6.0	-2.7	-5.5	8.2	-2.0	-8.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3907	17935	7682	1870	56	31451
State Sector	11510	15559	9740	5485	50	42344
Total	15417	33494	17422	7355	106	73794

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	537	1085	449	389	9	2469
Lignite	20	17	57	0	0	94
Hydro	120	29	67	27	7	250
Nuclear	27	19	36	0	0	83
Gas, Naptha & Diesel	27	41	23	0	29	119
RES (Wind, Solar, Biomass & Others)	73	91	119	1	0	283
Total	805	1281	750	417	45	3298

Share of RES in total generation (%)	9.12	7.07	15.83	0.14	0.02	8.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.45	10.85	29.54	6.65	16.36	18.69

H. Diversity Factor

All India Demand Diversity Factor	1.031

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **18-Dec-18**

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	Import=(+ve) /Export =(-ve) for NET (MU) NET (MU)
Import/Export of ER (With NR)								
1	765kV	GAYA-VARANASI	D/C	0	651	0.0	8.3	-8.3
2		SASARAM-FATEHPUR	S/C	0	289	0.0	2.1	-2.1
3		GAYA-BALIA	S/C	0	268	0.0	4.5	-4.5
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	2	0	0.0	0.0	0.0
6	400 kV	PUSAULI-VARANASI	S/C	10	50	0.0	1.0	-1.0
7		PUSAULI -ALLAHABAD	S/C	43	19	0.0	0.7	-0.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	699	0.0	9.8	-9.8
9		PATNA-BALIA	Q/C	0	908	0.0	14.0	-14.0
10		BIHARSHARIFF-BALIA	D/C	0	297	0.0	4.6	-4.6
11		MOTIHARI-GORAKHPUR	D/C	0	375	0.0	6.9	-6.9
12		BIHARSHARIFF-VARANASI	D/C	20	246	0.0	2.6	-2.6
13	220 kV	PUSAULI-SAHUPURI	S/C	0	121	0.0	2.4	-2.4
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
					ER-NR	**0.6**	**56.8**	**-56.3**
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1349	0	19.0	0.0	19.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	270	325	0.0	0.2	-0.2
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	235	98	1.4	0.0	1.4
21		RANCHI-SIPAT	D/C	185	9	2.4	0.0	2.4
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	101	0.0	1.4	-1.4
23		BUDHIPADAR-KORBA	D/C	117	1	1.8	0.0	1.8
					ER-WR	**24.6**	**1.6**	**23.0**
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1583.0	0.0	24.6	-24.6
25	HVDC LINK	JEYPORE-GAZUWAKA B/B	D/C	0.0	692.0	0.0	12.1	-12.1
26		TALCHER-KOLAR BIPOLE	D/C	0.0	1976.0	0.0	40.8	-40.8
27	400 kV	TALCHER-I/C	D/C	0.0	669.0	0.0	0.0	0.0
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**77.5**	**-77.5**
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	251	0	4.3	0.0	4
30		ALIPURDUAR-BONGAIGAON	D/C	356	0	6.8	0.0	7
31	220 kV	ALIPURDUAR-SALAKATI	D/C	51	0	0.7	0.0	1
					ER-NER	**11.8**	**0.0**	**11.8**
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.7	0.0	11.7
					NER-NR	**11.7**	**0.0**	**11.7**
Import/Export of WR (With NR)								
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	703	0.0	16.5	-16.5
34		V'CHAL B/B	D/C	46	4	0.0	0.0	0.0
35		APL -MHG	D/C	0	985	0.0	24.2	-24.2
36	765 kV	GWALIOR-AGRA	D/C	0	986	0.0	33.8	-33.8
37		PHAGI-GWALIOR	D/C	0	1029	0.0	14.1	-14.1
38		JABALPUR-ORAI	D/C	70	375	0.0	9.4	-9.4
39		GWALIOR-ORAI	S/C	537	0	9.4	0.0	9.4
40		SATNA-ORAI	S/C	0	1650	0.0	30.5	-30.5
41	400 kV	ZERDA-KANKROLI	S/C	259	50	2.5	0.0	2.5
42		ZERDA -BHINMAL	S/C	167	208	0.0	0.3	-0.3
43		V'CHAL -RIHAND	S/C	996	0	21.5	0.0	21.5
44		RAPP-SHUJALPUR	D/C	337	0	2	0	2
45	220 kV	BADOD-KOTA	S/C	29	36	0.5	0.1	0.4
46		BADOD-MORAK	S/C	17	82	0.0	0.8	-0.7
47		MEHGAON-AURAIYA	S/C	100	0	1.2	0.0	1.2
48		MALANPUR-AURAIYA	S/C	56	17	0.4	0.0	0.4
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**37.8**	**129.6**	**-91.8**
Import/Export of WR (With SR)								
50	HVDC LINK	BHADRAWATI B/B	-	0	992	0.0	19.6	-19.6
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	93	2043	0.0	25.8	-25.8
53		WARDHA-NIZAMABAD	D/C	0	2519	0.0	38.5	-38.5
54	400 kV	KOLHAPUR-KUDGI	D/C	854	10	9.8	0.0	9.8
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	64	1.2	0.0	1.2
					WR-SR	**11.0**	**83.8**	**-72.8**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**1.7**
59		NEPAL						**-6.3**
60		BANGLADESH						**-14.5**