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: 15th 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 14.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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** **15-Dec-18**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44218	47077	41468	17711	2401	152875
Peak Shortage (MW)	594	0	0	126	42	762
Energy Met (MU)	918	1098	924	348	42	3330
Hydro Gen (MU)	120	24	60	29	7	241
Wind Gen (MU)	22	102	38	----------	----------	162
Solar Gen (MU)*	20.34	18.1	54.65	0.74	0.04	94
Energy Shortage (MU)	13.8	0.0	0.0	0.4	0.8	15.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44898	53080	45216	17870	2374	156003
	18:03	10:02	06:57	18:25	17:54	08:54

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	0.041	0.00	0.07	9.27	9.34	79.16	11.50

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	5397	0	115.4	29.1	0.4	117	0.0
	Haryana	6419	0	118.1	62.3	1.0	146	0.0
	Rajasthan	11710	0	229.9	68.1	-0.8	457	0.0
	Delhi	3707	54	65.3	49.2	0.0	216	0.1
	UP	13124	0	267.6	111.8	0.3	317	1.7
	Uttarakhand	2027	0	38.2	26.6	0.6	172	0.0
	HP	1610	0	29.3	21.9	0.3	136	0.1
	J&K	2411	603	50.6	42.0	0.4	225	11.9
	Chandigarh	210	0	3.5	3.3	0.2	44	0.0
WR	Chhattisgarh	3611	0	76.6	16.8	0.9	703	0.0
	Gujarat	14537	0	314.9	69.7	0.6	618	0.0
	MP	13167	0	250.2	137.5	-2.8	1852	0.0
	Maharashtra	20159	0	413.0	94.3	-2.7	359	0.0
	Goa	453	0	9.6	9.4	-0.2	45	0.0
	DD	314	0	7.0	6.4	0.6	73	0.0
	DNH	716	0	16.6	15.9	0.7	85	0.0
	Essar steel	517	0	9.7	9.2	0.5	300	0.0
SR	Andhra Pradesh	8026	0	170.2	53.3	-0.2	526	0.0
	Telangana	7977	0	166.9	95.6	1.1	611	0.0
	Karnataka	11230	0	212.0	68.8	-2.0	288	0.0
	Kerala	3429	0	67.6	59.2	1.0	246	0.0
	Tamil Nadu	14227	0	301.0	147.8	0.5	316	0.0
	Pondy	344	0	6.7	7.2	-0.4	20	0.0
ER	Bihar	4016	0	72.1	68.9	0.2	460	0.0
	DVC	2885	0	62.0	-18.8	-0.7	396	0.0
	Jharkhand	1088	126	24.7	16.6	0.9	169	0.4
	Odisha	3652	0	69.9	23.5	1.6	267	0.0
	West Bengal	6505	0	118.2	25.7	0.4	309	0.0
	Sikkim	100	0	1.5	1.6	-0.1	18	0.0
NER	Arunachal Pradesh	119	2	2.1	2.0	0.2	8	0.0
	Assam	1385	31	23.6	18.7	1.2	72	0.5
	Manipur	178	2	2.6	2.8	-0.2	25	0.0
	Meghalaya	338	1	6.1	5.0	-0.1	19	0.3
	Mizoram	90	2	1.8	1.4	0.1	14	0.0
	Nagaland	126	2	2.1	1.9	-0.1	20	0.0
	Tripura	224	1	3.8	1.6	0.1	15	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.3	-4.4	-12.5
Day peak (MW)	178.9	-188.0	-817.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	152.9	-201.4	122.3	-74.3	0.5	0.0
Actual(MU)	155.0	-212.5	121.0	-64.8	0.1	-1.3
O/D/U/D(MU)	2.1	-11.1	-1.4	9.4	-0.4	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4027	16735	7932	1870	106	30670
State Sector	12665	14290	7510	6725	50	41240
Total	16692	31025	15442	8595	156	71910

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	519	1100	510	414	10	2552
Lignite	17	15	52	0	0	84
Hydro	120	24	61	29	7	241
Nuclear	29	19	36	0	0	84
Gas, Naptha & Diesel	25	39	23	0	29	116
RES (Wind, Solar, Biomass & Others)	70	121	130	1	0	322
Total	780	1319	811	444	46	3400

Share of RES in total generation (%)	8.98	9.20	15.97	0.17	0.09	9.47
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.08	12.50	27.89	6.73	15.75	19.03

H. Diversity Factor

All India Demand Diversity Factor	1.048

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 : **15-Dec-18**

Import=(+ve) /Export =(-ve) for NET (MU)

Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	**765kV**	GAYA-VARANASI	D/C	0	583	0.0	8.4	-8.4
2		SASARAM-FATEHPUR	S/C	0	330	0.0	4.7	-4.7
3		GAYA-BALIA	S/C	0	264	0.0	4.6	-4.6
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	25	39	0.0	0.0	0.0
7		PUSAULI -ALLAHABAD	S/C	38	70	0.0	0.0	0.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	563	0.0	8.2	-8.2
9		PATNA-BALIA	Q/C	0	943	0.0	17.6	-17.6
10		BIHARSHARIFF-BALIA	D/C	0	272	0.0	4.6	-4.6
11		MOTIHARI-GORAKHPUR	D/C	0	307	0.0	6.1	-6.1
12		BIHARSHARIFF-VARANASI	D/C	33	204	0.0	2.4	-2.4
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	132	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**	**59.1**	**-58.4**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1667	0	22.8	0.0	22.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	268	283	0.5	0.0	0.5
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	268	183	0.0	0.3	-0.3
21		RANCHI-SIPAT	D/C	194	18	1.9	0.0	1.9
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	0	94	0.0	1.4	-1.4
23		BUDHIPADAR-KORBA	D/C	166	0	2.2	0.0	2.2
					ER-WR	**27.3**	**1.6**	**25.7**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1805.0	0.0	30.3	-30.3
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	16.0	-16.0
26		TALCHER-KOLAR BIPOLE	D/C	0.0	1973.0	0.0	42.4	-42.4
27	**400 kV**	TALCHER-I/C	D/C	0.0	617.0	2.0	0.0	2.0
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**88.8**	**-88.8**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	271	0	4.7	0.0	5
30		ALIPURDUAR-BONGAIGAON	D/C	411	0	7.2	0.0	7
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	73	0	1.0	0.0	1
					ER-NER	**12.8**	**0.0**	**12.8**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	679	0	13.6	0.0	13.6
					NER-NR	**13.6**	**0.0**	**13.6**
Import/Export of WR (With NR)								
33	**HVDC**	CHAMPA-KURUKSHETRA	D/C	0	700	0.0	16.8	-16.8
34		V'CHAL B/B	D/C	0	0	0.0	0.0	0.0
35		APL -MHG	D/C	0	983	0.0	22.3	-22.3
36	**765 kV**	GWALIOR-AGRA	D/C	0	988	0.0	37.9	-37.9
37		PHAGI-GWALIOR	D/C	0	1256	0.0	18.9	-18.9
38		JABALPUR-ORAI	D/C	133	373	0.0	8.6	-8.6
39		GWALIOR-ORAI	S/C	523	0	9.4	0.0	9.4
40		SATNA-ORAI	S/C	0	1725	0.0	37.0	-37.0
41	**400 kV**	ZERDA-KANKROLI	S/C	155	161	0.4	0.0	0.4
42		ZERDA -BHINMAL	S/C	98	330	0.0	2.5	-2.5
43		V'CHAL -RIHAND	S/C	993	0	22.0	0.0	22.0
44		RAPP-SHUJALPUR	D/C	333	2	2	0	2
45	**220 kV**	BADOD-KOTA	S/C	41	32	0.3	0.0	0.3
46		BADOD-MORAK	S/C	10	91	0.0	0.9	-0.9
47		MEHGAON-AURAIYA	S/C	91	0	1.0	0.0	1.0
48		MALANPUR-AURAIYA	S/C	51	18	0.3	0.0	0.3
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**35.6**	**144.9**	**-109.3**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	694	0.0	12.2	-12.2
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	0	2224	0.0	31.2	-31.2
53		WARDHA-NIZAMABAD	D/C	0	2671	0.0	43.7	-43.7
54	**400 kV**	KOLHAPUR-KUDGI	D/C	788	17	8.9	0.0	8.9
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	66	1.2	0.0	1.2
					WR-SR	**10.2**	**87.1**	**-76.9**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**2.3**
59		NEPAL						**-4.4**
60		BANGLADESH						**-12.5**