



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: 17th 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., डोंगतिह, 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 16.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-दिसम्बर-2018 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 16th 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

17-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	42166	45670	36547	17334	2272	143989
Peak Shortage (MW)	527	0	0	0	31	558
Energy Met (MU)	889	1072	848	341	41	3192
Hydro Gen (MU)	120	21	55	29	7	232
Wind Gen (MU)	33	96	33	-----	-----	162
Solar Gen (MU)*	22.26	17.81	53.02	0.87	0.01	94
Energy Shortage (MU)	14.4	0.0	0.0	0.0	0.2	14.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	43069 18:29	52821 10:46	39315 07:31	17576 18:39	2298 18:03	149975 10:39

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	0.047	0.15	0.87	7.94	8.96	74.83	16.22

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	5608	0	118.0	24.7	0.2	138	0.0	
	Haryana	5769	0	111.0	54.3	1.3	234	0.0	
	Rajasthan	11710	0	224.5	49.8	0.3	501	0.0	
	Delhi	3696	0	60.2	45.0	-0.1	208	0.0	
	UP	13179	0	263.7	108.3	0.8	298	3.6	
	Uttarakhand	1918	0	35.2	24.0	0.2	155	0.0	
	HP	1488	0	26.7	20.3	-0.1	134	0.2	
	J&K	2357	589	47.1	41.1	0.5	190	10.7	
	Chandigarh	191	0	3.1	2.9	0.2	29	0.0	
	WR	Chhattisgarh	3484	0	75.4	13.2	-1.9	262	0.0
Gujarat		14345	0	306.4	89.7	1.5	751	0.0	
MP		12869	0	245.9	129.3	-2.9	453	0.0	
Maharashtra		20052	0	400.8	97.1	1.4	611	0.0	
Goa		453	0	8.7	8.3	0.0	27	0.0	
DD		292	0	6.6	6.0	0.6	98	0.0	
DNH		704	0	16.5	15.8	0.7	85	0.0	
Essar steel		576	0	12.1	12.2	-0.1	280	0.0	
SR		Andhra Pradesh	7653	0	154.3	57.3	0.6	552	0.0
		Telangana	8063	0	166.8	100.9	0.9	424	0.0
	Karnataka	9646	0	187.9	58.7	-0.9	448	0.0	
	Kerala	3309	0	62.2	54.9	0.5	252	0.0	
	Tamil Nadu	12740	0	271.1	132.9	-0.9	495	0.0	
	Pondy	294	0	5.9	6.4	-0.5	23	0.0	
	ER	Bihar	3920	0	74.9	65.3	6.0	460	0.0
DVC		2936	0	63.6	-15.7	1.7	396	0.0	
Jharkhand		1203	0	21.8	17.2	-1.8	169	0.0	
Odisha		3933	0	77.5	24.5	3.2	267	0.0	
West Bengal		5798	0	102.4	18.0	-1.6	309	0.0	
Sikkim		90	0	1.3	1.6	-0.4	18	0.0	
NER	Arunachal Pradesh	126	5	2.5	1.9	0.6	51	0.0	
	Assam	1292	26	22.3	16.9	0.9	81	0.0	
	Manipur	159	4	2.5	2.9	-0.4	16	0.0	
	Meghalaya	337	3	6.1	5.0	-0.1	224	0.2	
	Mizoram	83	7	1.7	1.1	0.0	19	0.0	
	Nagaland	125	6	2.2	2.0	0.1	15	0.0	
	Tripura	221	23	3.6	1.5	-0.1	13	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.9	-6.2	-11.8
Day peak (MW)	126.1	-302.0	-794.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	117.1	-184.6	124.6	-57.2	0.4	0.3
Actual(MU)	123.2	-193.5	119.3	-50.7	-0.5	-2.2
O/D/U/D(MU)	6.1	-8.8	-5.3	6.5	-1.0	-2.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3817	17495	7682	1870	106	30971
State Sector	11395	15867	9200	6095	50	42607
Total	15212	33362	16882	7965	156	73577

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	515	1063	448	384	8	2418
Lignite	17	16	53	0	0	86
Hydro	120	21	55	29	7	232
Nuclear	29	19	36	0	0	85
Gas, Naptha & Diesel	25	38	24	0	29	116
RES (Wind, Solar, Biomass & Others)	84	116	121	1	0	321
Total	790	1273	736	414	45	3258

Share of RES in total generation (%)	10.58	9.11	16.43	0.21	0.02	9.87
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.51	12.26	28.80	7.20	15.24	19.58

H. Diversity Factor

All India Demand Diversity Factor	1.034
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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 : 17-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	422	0.0	5.8	-5.8
2		SASARAM-FATEHPUR	S/C	0	330	0.0	4.2	-4.2
3		GAYA-BALIA	S/C	0	196	0.0	3.3	-3.3
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	16	15	0.0	0.1	-0.1
7		PUSAULI -ALLAHABAD	S/C	51	53	0.0	0.1	-0.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	571	0.0	8.4	-8.4
9		PATNA-BALIA	Q/C	0	851	0.0	19.5	-19.5
10		BIHARSHARIFF-BALIA	D/C	0	230	0.0	3.9	-3.9
11		MOTIHARI-GORAKHPUR	D/C	0	351	0.0	7.0	-7.0
12		BIHARSHARIFF-VARANASI	D/C	33	192	0.0	2.1	-2.1
13	220 kV	PUSAULI-SAHUPURI	S/C	0	122	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	56.6	-56.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1884	0	30.8	0.0	30.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	290	452	0.0	2.0	-2.0
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	303	94	2.0	0.0	2.0
21		RANCHI-SIPAT	D/C	215	44	1.7	0.0	1.7
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	126	0.0	2.0	-2.0
23		BUDHIPADAR-KORBA	D/C	144	0	2.2	0.0	2.2
ER-WR						36.8	4.0	32.8
Import/Export of ER (With SR)								
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1569.0	0.0	26.7	-26.7
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	688.0	0.0	16.1	-16.1
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1972.0	0.0	39.4	-39.4
27	400 kV	TALCHER-I/C	D/C	0.0	672.0	3.5	0.0	3.5
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	82.2	-82.2
Import/Export of ER (With NER)								
29	400 kV	BINAGURI-BONGAIGAON	D/C	250	0	4.3	0.0	4
30		ALIPURDUAR-BONGAIGAON	D/C	354	0	6.4	0.0	6
31	220 kV	ALIPURDUAR-SALAKATI	D/C	59	0	0.7	0.0	1
ER-NER						11.4	0.0	11.4
Import/Export of NER (With NR)								
32	HVDC	BISWANATH CHARIALI-AGRA	-	475	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	699	0.0	16.6	-16.6
34		V'CHAL B/B	D/C	0	0	0.0	0.0	0.0
35	765 kV	APL -MHG	D/C	0	985	0.0	24.2	-24.2
36		GWALIOR-AGRA	D/C	0	881	0.0	29.5	-29.5
37		PHAGI-GWALIOR	D/C	0	891	0.0	12.3	-12.3
38		JABALPUR-ORAI	D/C	248	266	0.0	5.8	-5.8
39		GWALIOR-ORAI	S/C	492	0	8.1	0.0	8.1
40		SATNA-ORAI	S/C	0	1450	0.0	30.6	-30.6
41		ZERDA-KANKROLI	S/C	216	9	2.9	0.0	2.9
42	400 kV	ZERDA -BHINMAL	S/C	141	148	0.5	0.0	0.5
43		V'CHAL -RIHAND	S/C	979	0	21.4	0.0	21.4
44		RAPP-SHUJALPUR	D/C	424	0	3	0	3
45	220 kV	BADOD-KOTA	S/C	48	13	0.5	0.0	0.5
46		BADOD-MORAK	S/C	14	81	0.0	0.7	-0.7
47		MEHGAON-AURAIYA	S/C	113	0	1.4	0.0	1.4
48	132kV	MALANPUR-AURAIYA	S/C	72	12	0.7	0.0	0.7
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						38.6	119.6	-81.0
Import/Export of WR (With SR)								
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	20.1	-20.1
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	765 kV	SOLAPUR-RAICHUR	D/C	18	1972	0.0	28.8	-28.8
53		WARDHA-NIZAMABAD	D/C	0	2297	0.0	41.5	-41.5
54	400 kV	KOLHAPUR-KUDGI	D/C	771	0	8.5	0.0	8.5
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
56	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
57		XELDEM-AMBEWADI	S/C	0	60	1.1	0.0	1.1
WR-SR						9.6	90.3	-80.7
TRANSNATIONAL EXCHANGE								
58		BHUTAN						1.9
59		NEPAL						-6.2
60		BANGLADESH						-11.8