



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: 29th 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 28.12.2018.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th 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

29-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs: from RLDCs)	47478	47228	42396	18375	2409	157886
Peak Shortage (MW)	608	0	0	454	42	1104
Energy Met (MU)	989	1094	951	346	43	3423
Hydro Gen (MU)	115	30	75	28	7	256
Wind Gen (MU)	4	37	31	-----	-----	72
Solar Gen (MU)*	23.25	21.84	61.52	0.45	0.00	107
Energy Shortage (MU)	12.5	0.0	0.0	1.4	0.3	14.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47743 10:28	54312 09:46	44526 08:15	18208 19:09	2414 18:42	162661 09:49

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	0.048	0.00	0.86	12.23	13.09	76.52	10.39

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	5950	0	119.6	24.7	-0.4	89	0.0	
	Haryana	6579	0	130.6	66.4	0.5	227	0.0	
	Rajasthan	13030	0	242.4	63.5	0.3	395	0.0	
	Delhi	4396	0	73.2	53.8	1.0	329	0.0	
	UP	14706	0	295.8	109.1	-0.5	380	0.0	
	Uttarakhand	2126	0	39.3	26.8	0.3	177	0.0	
	HP	1700	0	31.6	25.2	0.7	152	0.0	
	J&K	2605	651	52.8	45.4	2.3	440	12.4	
WR	Chandigarh	251	0	3.9	3.4	0.6	112	0.0	
	Chhattisgarh	3573	0	76.1	19.1	-0.4	318	0.0	
	Gujarat	15193	0	319.4	85.1	1.6	584	0.0	
	MP	13792	0	257.9	144.8	-0.7	538	0.0	
	Maharashtra	19811	0	393.3	88.1	-2.0	639	0.0	
	Goa	462	0	10.4	9.6	0.2	24	0.0	
	DD	316	0	7.1	6.5	0.7	62	0.0	
	DNH	732	0	17.2	16.7	0.5	75	0.0	
SR	Essar steel	593	0	12.6	12.7	-0.2	289	0.0	
	Andhra Pradesh	7958	0	166.9	61.3	0.5	425	0.0	
	Telangana	9019	0	188.5	73.8	0.3	396	0.0	
	Karnataka	11011	0	211.2	69.8	-1.2	391	0.0	
	Kerala	3623	0	73.1	54.0	1.5	190	0.0	
	Tamil Nadu	14193	0	303.9	157.0	0.5	404	0.0	
	Pondy	352	0	7.2	7.4	-0.2	27	0.0	
	ER	Bihar	4090	350	73.8	67.0	2.9	460	1.1
DVC		3126	0	66.1	-18.1	1.6	396	0.0	
Jharkhand		1186	104	23.6	16.7	0.4	169	0.3	
Odisha		3801	0	67.9	24.9	1.8	267	0.0	
West Bengal		6543	0	113.5	21.8	1.1	309	0.0	
Sikkim		100	0	1.4	1.6	-0.2	18	0.0	
NER		Arunachal Pradesh	106	2	2.1	1.8	0.3	30	0.0
		Assam	1361	34	23.3	17.5	1.1	107	0.2
	Manipur	208	3	2.8	2.9	-0.1	34	0.0	
	Meghalaya	346	0	6.7	5.8	-0.1	30	0.0	
	Mizoram	105	1	1.6	1.2	0.1	24	0.0	
	Nagaland	112	2	2.2	2.0	0.1	11	0.0	
	Tripura	225	2	3.9	1.4	0.3	43	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.9	-6.9	-11.8
Day peak (MW)	116.9	-321.0	-809.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	157.2	-194.1	100.1	-67.4	4.4	0.2
Actual(MU)	154.7	-198.9	99.3	-58.8	4.2	0.5
O/D/U/D(MU)	-2.6	-4.8	-0.8	8.6	-0.1	0.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4142	17376	6832	2824	306	31480
State Sector	9340	11954	6720	6395	50	34459
Total	13482	29330	13552	9219	356	65938

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	608	1147	548	407	5	2715
Lignite	24	17	53	0	0	95
Hydro	115	30	75	28	7	256
Nuclear	26	18	36	0	0	81
Gas, Naptha & Diesel	29	41	19	0	30	118
RES (Wind, Solar, Biomass & Others)	56	60	131	0	0	247
Total	858	1314	862	436	42	3512

Share of RES in total generation (%)	6.47	4.60	15.17	0.11	0.00	7.04
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	23.01	8.24	28.09	6.56	17.89	16.63

H. Diversity Factor

All India Demand Diversity Factor	1.028
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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 : 29-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	567	0.0	7.1	-7.1	
2		SASARAM-FATEHPUR	S/C	25	238	0.0	2.6	-2.6	
3		GAYA-BALIA	S/C	0	264	0.0	4.1	-4.1	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	HVDC	PUSAULI B/B	S/C	0	148	0.0	3.6	-3.6	
6		PUSAULI-VARANASI	S/C	0	126	0.0	2.3	-2.3	
7		PUSAULI -ALLAHABAD	S/C	0	82	0.0	1.1	-1.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	602	0.0	7.0	-7.0	
9		400 kV	PATNA-BALIA	Q/C	0	901	0.0	18.1	-18.1
10			BIHARSHARIFF-BALIA	D/C	0	258	0.0	3.6	-3.6
11			MOTIHARI-GORAKHPUR	D/C	0	384	0.0	6.8	-6.8
12			BIHARSHARIFF-VARANASI	D/C	61	196	0.0	1.4	-1.4
13		220 kV	PUSAULI-SAHUPURI	S/C	0	141	0.0	2.5	-2.5
14			SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		132 kV	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	60.0	-59.4	
Import/Export of ER (With WR)									
18		765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1494	0	24.2	0.0	24.2
19			NEW RANCHI-DHARAMJAIGARH	D/C	398	218	2.2	0.0	2.2
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	92	219	0.0	1.6	-1.6	
21		RANCHI-SIPAT	D/C	207	7	2.0	0.0	2.0	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	84	0.0	1.1	-1.1	
23		BUDHIPADAR-KORBA	D/C	141	0	2.2	0.0	2.2	
ER-WR						30.6	2.7	27.9	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1252.0	0.0	18.8	-18.8	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	685.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1974.0	0.0	45.7	-45.7	
27	400 kV	TALCHER-I/C	D/C	0.0	599.0	0.0	0.9	-0.9	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	80.6	-80.6	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	149	22	1.1	0.0	1	
30		ALIPURDUAR-BONGAIGAON	D/C	252	0	3.0	0.0	3	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	30	24	0.1	0.0	0	
ER-NER						4.2	0.0	4.2	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	474	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	601	0.0	0.7	-0.7	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	1925	0.0	48.0	-48.0	
36		765 kV	GWALIOR-AGRA	D/C	0	1032	0.0	36.0	-36.0
37	PHAGI-GWALIOR		D/C	0	1151	0.0	17.3	-17.3	
38	JABALPUR-ORAI		D/C	100	364	0.0	9.2	-9.2	
39	GWALIOR-ORAI		S/C	590	0	9.9	0.0	9.9	
40	400 kV	SATNA-ORAI	S/C	0	1595	0.0	35.0	-35.0	
41		ZERDA-KANKROLI	S/C	286	102	2.3	0.0	2.3	
42		ZERDA -BHINMAL	S/C	144	309	0.0	1.6	-1.6	
43		V'CHAL -RIHAND	S/C	480	0	21.8	0.0	21.8	
44		RAPP-SHUJALPUR	D/C	321	3	2	0	2	
45		220 kV	BADOD-KOTA	S/C	45	50	0.8	0.0	0.8
46			BADOD-MORAK	S/C	0	147	0.0	1.7	-1.7
47			MEHGAON-AURAIYA	S/C	104	0	1.5	0.0	1.5
48	MALANPUR-AURAIYA		S/C	51	13	0.5	0.0	0.5	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						44.8	149.5	-104.7	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	23.6	-23.6	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	1876	0.0	25.0	-25.0	
53		WARDHA-NIZAMABAD	D/C	0	2047	0.0	28.6	-28.6	
54	400 kV	KOLHAPUR-KUDGI	D/C	903	0	12.5	0.0	12.5	
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	53	1.1	0.0	1.1	
WR-SR						13.6	77.2	-63.7	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						1.9	
59		NEPAL						-6.9	
60		BANGLADESH						-11.8	