



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: 21st 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 20.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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

21-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44887	48496	41604	17483	2372	154842
Peak Shortage (MW)	719	0	200	0	33	952
Energy Met (MU)	949	1103	909	341	42	3344
Hydro Gen (MU)	124	34	87	37	8	291
Wind Gen (MU)	5	37	30	-----	-----	72
Solar Gen (MU)*	23.34	21.25	64.65	0.72	0.03	110
Energy Shortage (MU)	16.2	0.0	0.5	0.0	0.5	17.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45610 18:02	53556 10:39	42643 07:43	17994 18:42	2379 18:13	157410 18:40

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	0.068	0.00	2.21	17.96	20.17	71.91	7.92

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	5913	0	121.6	24.9	-0.5	104	0.0	
	Haryana	6654	0	127.6	63.7	-0.1	181	0.0	
	Rajasthan	12620	0	235.4	66.6	0.6	304	0.0	
	Delhi	3805	0	67.0	50.3	0.2	200	0.0	
	UP	13449	70	278.0	111.6	1.0	382	4.0	
	Uttarakhand	1952	0	38.0	23.7	1.1	198	0.6	
	HP	1569	0	28.8	21.0	1.5	368	0.0	
	J&K	2529	632	49.4	41.6	1.8	424	11.6	
WR	Chandigarh	217	0	3.6	3.1	0.5	69	0.0	
	Chhattisgarh	3415	0	71.3	11.0	-1.1	138	0.0	
	Gujarat	14921	0	324.0	94.9	1.8	575	0.0	
	MP	13494	0	252.6	132.1	1.3	956	0.0	
	Maharashtra	20479	0	411.7	102.8	0.7	492	0.0	
	Goa	452	0	9.1	7.9	0.7	74	0.0	
	DD	316	0	6.1	5.3	0.8	112	0.0	
	DNH	759	0	17.5	16.7	0.9	116	0.0	
SR	Essar steel	502	0	10.1	10.4	-0.3	263	0.0	
	Andhra Pradesh	7291	0	153.8	54.3	-0.5	703	0.0	
	Telangana	8458	0	169.4	100.4	1.0	510	0.0	
	Karnataka	10905	0	207.5	63.9	-0.6	479	0.0	
	Kerala	3693	0	69.8	51.9	1.1	298	0.5	
	Tamil Nadu	14520	0	301.5	154.0	1.0	586	0.0	
	Pondy	343	0	6.8	7.0	-0.3	30	0.0	
	ER	Bihar	3945	0	66.8	63.8	-2.5	460	0.0
DVC		3025	0	64.4	-27.0	1.8	396	0.0	
Jharkhand		1116	0	23.4	17.0	-0.3	169	0.0	
Odisha		3796	0	70.2	20.5	3.5	267	0.0	
West Bengal		6440	0	115.0	19.1	0.8	309	0.0	
Sikkim		100	0	1.6	1.6	0.0	18	0.0	
NER		Arunachal Pradesh	106	2	2.1	2.1	0.0	23	0.0
		Assam	1373	26	23.1	16.8	1.3	92	0.4
	Manipur	166	3	2.6	2.8	-0.2	12	0.0	
	Meghalaya	333	0	6.6	5.2	0.1	24	0.0	
	Mizoram	85	1	1.7	1.2	0.2	33	0.0	
	Nagaland	112	3	2.2	2.0	0.0	30	0.0	
	Tripura	219	2	3.8	1.6	0.4	16	0.1	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.2	-6.4	-13.9
Day peak (MW)	263.5	-284.0	-791.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	143.2	-186.6	125.1	-79.4	-2.1	0.2
Actual(MU)	143.6	-195.9	122.4	-73.3	-2.1	-5.3
O/D/U/D(MU)	0.4	-9.3	-2.7	6.1	0.0	-5.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5311	18335	7082	1870	81	32679
State Sector	11335	14740	9510	5905	50	41540
Total	16646	33075	16592	7775	131	74219

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	570	1128	457	402	10	2567
Lignite	21	17	56	0	0	94
Hydro	124	34	87	37	8	291
Nuclear	24	19	36	0	0	80
Gas, Naptha & Diesel	27	41	23	0	30	120
RES (Wind, Solar, Biomass & Others)	57	60	130	1	0	248
Total	823	1299	789	441	48	3400

Share of RES in total generation (%)	6.95	4.66	16.44	0.17	0.06	7.30
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.00	8.71	32.11	8.64	17.57	18.21

H. Diversity Factor

All India Demand Diversity Factor	1.030
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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 : 21-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	576	0.0	9.4	-9.4	
2		SASARAM-FATEHPUR	S/C	0	336	0.0	5.3	-5.3	
3		GAYA-BALIA	S/C	0	230	0.0	4.6	-4.6	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	HVDC	PUSAULI B/B	S/C	2	0	0.0	0.0	0.0	
6	400 kV	PUSAULI-VARANASI	S/C	16	40	0.0	0.4	-0.4	
7		PUSAULI -ALLAHABAD	S/C	45	59	0.0	0.4	-0.4	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	675	0.0	10.3	-10.3	
9		PATNA-BALIA	Q/C	0	826	0.0	17.8	-17.8	
10		BIHARSHARIFF-BALIA	D/C	0	250	0.0	4.6	-4.6	
11		MOTIHARI-GORAKHPUR	D/C	0	345	0.0	7.0	-7.0	
12		BIHARSHARIFF-VARANASI	D/C	3	210	0.0	3.1	-3.1	
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	65.1	-64.5	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1066	0	16.4	0.0	16.4	
19		NEW RANCHI-DHARAMJAIGARH	D/C	157	405	0.0	2.8	-2.8	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	450	0	6.3	0.0	6.3	
21		RANCHI-SIPAT	D/C	158	19	1.8	0.0	1.8	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	28	73	0.0	0.6	-0.6	
23		BUDHIPADAR-KORBA	D/C	144	0	2.1	0.0	2.1	
ER-WR						26.6	3.4	23.2	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1431.0	0.0	26.0	-26.0	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	436.0	0.0	9.8	-9.8	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1980.0	0.0	42.6	-42.6	
27	400 kV	TALCHER-I/C	D/C	0.0	937.0	0.0	9.0	-9.0	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	78.4	-78.4	
Import/Export of ER (With NER)									
29	400 kV	BINAGURI-BONGAIGAON	D/C	286	0	4.3	0.0	4	
30		ALIPURDUAR-BONGAIGAON	D/C	482	0	7.9	0.0	8	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	71	0	1.0	0.0	1	
ER-NER						13.2	0.0	13.2	
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	701	0.0	16.7	-16.7	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	694	0.0	17.0	-17.0	
36		GWALIOR-AGRA	D/C	0	1000	0.0	34.9	-34.9	
37	765 kV	PHAGI-GWALIOR	D/C	0	1045	0.0	17.1	-17.1	
38		JABALPUR-ORAI	D/C	7	303	0.0	8.8	-8.8	
39		GWALIOR-ORAI	S/C	588	0	10.3	0.0	10.3	
40		SATNA-ORAI	S/C	0	1458	0.0	32.3	-32.3	
41		400 kV	ZERDA-KANKROLI	S/C	161	175	0.6	0.0	0.6
42			ZERDA -BHINMAL	S/C	44	358	0.0	2.7	-2.7
43	V'CHAL -RIHAND		S/C	983	0	14.2	0.0	14.2	
44	RAPP-SHUJALPUR		D/C	278	33	2	0	2	
45	220 kV	BADOD-KOTA	S/C	28	47	0.5	0.1	0.4	
46		BADOD-MORAK	S/C	7	98	0.0	0.8	-0.8	
47		MEHGAON-AURAIYA	S/C	91	0	1.2	0.0	1.2	
48	132kV	MALANPUR-AURAIYA	S/C	46	13	0.4	0.0	0.4	
49		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						34.9	130.5	-95.6	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	22.1	-22.1	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	14	1992	0.0	29.9	-29.9	
53		WARDHA-NIZAMABAD	D/C	0	2361	0.0	38.4	-38.4	
54	400 kV	KOLHAPUR-KUDGI	D/C	996	0	11.9	0.0	11.9	
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	63	1.2	0.0	1.2	
WR-SR						13.0	90.3	-77.2	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						3.2	
59		NEPAL						-6.4	
60		BANGLADESH						-13.9	