



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: 22nd 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 21.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21st 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

22-Dec-18

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	45760	47864	41561	16986	2407	154578
Peak Shortage (MW)	771	0	0	389	21	1181
Energy Met (MU)	951	1111	929	342	43	3376
Hydro Gen (MU)	122	38	89	30	8	288
Wind Gen (MU)	8	27	22	-----	-----	56
Solar Gen (MU)*	23.36	20.96	61.07	0.88	0.04	106
Energy Shortage (MU)	20.3	0.1	0.0	1.2	0.3	21.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45673 18:17	54076 09:26	43614 07:59	17793 19:15	2422 17:47	158155 09:27

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	0.089	0.23	3.38	21.74	25.35	67.64	7.01

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	5824	0	118.3	23.7	-0.5	115	0.0
	Haryana	6664	0	128.9	70.3	0.4	196	0.4
	Rajasthan	12649	0	237.2	64.2	2.6	366	0.0
	Delhi	4031	0	69.0	52.2	0.3	219	0.0
	UP	13791	0	277.5	107.8	1.5	360	6.3
	Uttarakhand	2027	70	38.2	24.3	0.4	136	1.4
	HP	1581	0	28.8	21.6	1.2	413	0.5
	J&K	2416	604	49.3	41.7	1.6	412	11.6
WR	Chandigarh	232	0	3.6	3.2	0.4	67	0.0
	Chhattisgarh	3480	0	72.2	15.4	-0.8	366	0.1
	Gujarat	15110	0	327.2	85.5	2.7	687	0.0
	MP	13629	0	254.8	140.3	-0.5	510	0.0
	Maharashtra	20448	0	413.4	104.4	0.4	681	0.0
	Goa	452	0	9.7	8.7	0.5	61	0.0
	DD	291	0	6.2	5.5	0.6	98	0.0
	DNH	748	0	17.6	16.6	1.0	129	0.0
SR	Essar steel	477	0	10.3	10.9	-0.6	206	0.0
	Andhra Pradesh	7522	0	161.5	58.0	2.0	682	0.0
	Telangana	8502	0	173.5	92.3	0.6	501	0.0
	Karnataka	11215	0	211.1	73.4	-0.6	574	0.0
	Kerala	3567	0	70.8	56.6	0.9	182	0.0
	Tamil Nadu	14368	0	305.0	158.6	0.5	441	0.0
	Pondy	354	0	6.9	7.3	-0.5	18	0.0
	Bihar	4037	0	71.2	66.4	-0.6	460	0.0
ER	DVC	2990	0	64.3	-24.2	2.6	396	0.9
	Jharkhand	1022	85	23.3	15.5	1.0	169	0.3
	Odisha	3723	0	68.3	26.0	0.8	267	0.0
	West Bengal	6109	0	113.7	21.6	1.0	309	0.0
	Sikkim	100	0	1.6	1.8	-0.2	18	0.0
NER	Arunachal Pradesh	111	2	2.1	2.0	0.2	42	0.0
	Assam	1407	11	23.8	17.7	1.2	98	0.3
	Manipur	171	2	2.7	2.8	0.0	27	0.0
	Meghalaya	334	0	6.2	5.1	-0.2	22	0.0
	Mizoram	92	3	1.8	1.1	0.5	15	0.0
	Nagaland	126	2	2.2	2.1	-0.2	27	0.0
	Tripura	228	0	3.8	1.8	0.0	-	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.6	-6.7	-12.1
Day peak (MW)	403.2	-330.0	-451.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	147.6	-178.7	110.6	-79.1	0.1	0.5
Actual(MU)	153.0	-196.3	111.8	-72.9	-1.2	-5.5
O/D/U/D(MU)	5.4	-17.6	1.2	6.2	-1.3	-6.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6081	17615	6582	1870	56	32204
State Sector	10985	13862	10010	6115	50	41022
Total	17066	31477	16592	7985	106	73226

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	559	1141	499	416	9	2624
Lignite	22	17	60	0	0	99
Hydro	122	38	89	30	8	288
Nuclear	24	19	36	0	0	80
Gas, Naptha & Diesel	27	43	23	0	30	123
RES (Wind, Solar, Biomass & Others)	60	50	119	1	0	229
Total	814	1308	826	448	47	3443
Share of RES in total generation (%)	7.35	3.81	14.34	0.21	0.08	6.65
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.35	8.20	29.55	6.97	16.20	17.33

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 : 22-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	668	0.0	8.8	-8.8	
2		SASARAM-FATEHPUR	S/C	0	327	0.0	5.5	-5.5	
3		GAYA-BALIA	S/C	0	280	0.0	4.5	-4.5	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	400 kV	PUSAULI B/B	S/C	3	0	0.0	0.0	0.0	
6		PUSAULI-VARANASI	S/C	20	49	0.0	0.2	-0.2	
7		PUSAULI -ALLAHABAD	S/C	69	59	0.1	0.0	0.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	606	0.0	9.8	-9.8	
9		PATNA-BALIA	Q/C	0	857	0.0	17.1	-17.1	
10		BIHARSHARIFF-BALIA	D/C	0	315	0.0	4.7	-4.7	
11		MOTIHARI-GORAKHPUR	D/C	0	371	0.0	7.3	-7.3	
12		BIHARSHARIFF-VARANASI	D/C	6	233	0.0	2.9	-2.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	146	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	63.4	-62.7	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	792	157	10.9	0.0	10.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	143	348	0.0	2.0	-2.0	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	333	0	5.2	0.0	5.2	
21		RANCHI-SIPAT	D/C	144	9	0.0	0.0	0.0	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	12	61	0.0	0.6	-0.6	
23		BUDHIPADAR-KORBA	D/C	146	0	2.0	0.0	2.0	
ER-WR						18.1	2.6	15.5	
Import/Export of ER (With SR)									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1464.0	0.0	24.0	-24.0	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	685.0	0.0	14.3	-14.3	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1975.0	0.0	42.3	-42.3	
27	400 kV	TALCHER-I/C	D/C	0.0	615.0	0.8	0.0	0.8	
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	240	0	4.1	0.0	4	
30		ALIPURDUAR-BONGAIGAON	D/C	449	0	7.4	0.0	7	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	69	0	0.9	0.0	1	
ER-NER						12.4	0.0	12.4	
Import/Export of NER (With NR)									
32	HVDC	BISWANATH CHARIALI-AGRA	-	472	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	703	0.0	16.6	-16.6	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	983	0.0	21.9	-21.9	
36		GWALIOR-AGRA	D/C	0	930	0.0	36.7	-36.7	
37	765 kV	PHAGI-GWALIOR	D/C	0	1105	0.0	18.5	-18.5	
38		JABALPUR-ORAI	D/C	68	394	0.0	8.6	-8.6	
39		GWALIOR-ORAI	S/C	583	0	0.0	11.3	-11.3	
40		SATNA-ORAI	S/C	0	1531	0.0	33.1	-33.1	
41		400 kV	ZERDA-KANKROLI	S/C	128	156	0.0	0.2	-0.2
42			ZERDA -BHINMAL	S/C	58	333	0.0	3.3	-3.3
43	V'CHAL -RIHAND		S/C	970	0	14.9	0.0	14.9	
44	220 kV	RAPP-SHUJALPUR	D/C	268	46	1	0	1	
45		BADOD-KOTA	S/C	22	37	0.6	0.1	0.6	
46		BADOD-MORAK	S/C	4	127	0.0	1.0	-1.0	
47		MEHGAON-AURAIYA	S/C	96	0	0.4	0.0	0.4	
48		MALANPUR-AURAIYA	S/C	49	5	1.2	0.0	1.2	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						24.3	151.1	-126.8	
Import/Export of WR (With SR)									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	21.0	-21.0	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	0	2082	0.0	28.9	-28.9	
53		WARDHA-NIZAMABAD	D/C	0	2571	0.0	38.4	-38.4	
54	400 kV	KOLHAPUR-KUDGI	D/C	965	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	64	1.2	0.0	1.2	
WR-SR						13.1	88.3	-75.2	
TRANSNATIONAL EXCHANGE									
58		BHUTAN						3.6	
59		NEPAL						-6.7	
60		BANGLADESH						-12.1	