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: 23rd 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 22.12.2018.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22nd 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** **23-Dec-18**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44736	48021	40645	17342	2369	153113
Peak Shortage (MW)	427	0	0	106	64	597
Energy Met (MU)	948	1110	915	343	42	3358
Hydro Gen (MU)	119	32	77	34	7	269
Wind Gen (MU)	7	21	33	----------	----------	61
Solar Gen (MU)*	23.75	20.62	61.00	0.82	0.05	106
Energy Shortage (MU)	11.9	1.3	0.0	0.3	0.6	14.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46010	54002	42871	17528	2352	157446
	09:24	10:14	07:44	17:48	17:15	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	0.038	0.00	0.00	9.93	9.93	80.45	9.62

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	5769	0	119.8	25.0	-0.6	98	0.0
	Haryana	6624	0	127.6	68.2	0.6	187	0.0
	Rajasthan	12951	0	237.2	69.7	-1.0	368	0.0
	Delhi	3755	0	65.5	52.1	0.0	212	0.0
	UP	13500	0	280.5	107.1	-0.8	489	0.9
	Uttarakhand	2063	0	38.9	25.5	-0.7	100	0.0
	HP	1622	0	29.8	22.2	1.4	187	0.1
	J&K	2282	571	45.5	42.6	-2.4	174	10.8
	Chandigarh	215	0	3.5	3.2	0.2	42	0.0
WR	Chhattisgarh	3366	0	70.6	18.6	1.4	511	1.2
	Gujarat	15034	0	326.5	84.1	4.8	951	0.0
	MP	13512	0	256.1	145.4	-0.3	662	0.0
	Maharashtra	20376	0	412.5	104.2	0.6	571	0.0
	Goa	452	0	10.3	8.7	1.1	103	0.0
	DD	323	0	7.2	6.1	1.1	89	0.0
	DNH	718	0	16.4	15.7	0.6	68	0.0
	Essar steel	539	0	10.7	10.4	0.4	277	0.0
SR	Andhra Pradesh	7507	0	161.9	59.6	0.5	781	0.0
	Telangana	8359	0	173.2	96.2	2.3	637	0.0
	Karnataka	10602	0	204.9	70.0	-0.5	402	0.0
	Kerala	3592	0	70.9	58.1	1.0	191	0.0
	Tamil Nadu	13844	0	297.3	161.2	-0.7	414	0.0
	Pondy	349	0	6.8	7.3	-0.5	26	0.0
ER	Bihar	3899	0	69.2	65.8	-1.9	460	0.0
	DVC	2921	0	62.9	-24.0	1.3	396	0.0
	Jharkhand	1020	106	23.3	15.5	1.1	169	0.3
	Odisha	3650	0	70.4	25.7	2.0	267	0.0
	West Bengal	6299	0	115.9	21.1	1.0	309	0.0
	Sikkim	100	0	1.5	1.7	-0.2	18	0.0
NER	Arunachal Pradesh	114	2	1.9	1.9	0.1	93	0.0
	Assam	1372	19	23.0	16.7	1.3	102	0.5
	Manipur	172	4	2.7	2.8	-0.1	22	0.1
	Meghalaya	352	0	6.5	5.9	-0.2	32	0.0
	Mizoram	95	2	1.7	1.0	0.6	22	0.0
	Nagaland	128	3	2.0	2.0	-0.1	36	0.0
	Tripura	219	2	3.8	1.4	0.4	39	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.9	-6.7	-12.3
Day peak (MW)	104.2	-282.0	-796.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.5	-187.3	107.2	-80.0	0.0	0.4
Actual(MU)	160.9	-201.3	108.6	-71.0	-0.1	-2.9
O/D/U/D(MU)	0.4	-13.9	1.5	9.0	-0.2	-3.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6581	17510	6582	1370	306	32349
State Sector	10735	13727	10010	5905	50	40427
Total	17316	31237	16592	7275	356	72776

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	564	1156	491	422	8	2641
Lignite	20	17	60	0	0	97
Hydro	119	32	77	34	7	269
Nuclear	24	19	36	0	0	79
Gas, Naptha & Diesel	26	39	20	0	30	115
RES (Wind, Solar, Biomass & Others)	59	44	130	1	0	234
Total	813	1307	814	457	45	3436

Share of RES in total generation (%)	7.22	3.37	16.02	0.19	0.11	6.81
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	24.91	7.25	29.89	7.60	15.89	16.95

H. Diversity Factor

All India Demand Diversity Factor	1.034

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 : **23-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	627	0.0	8.5	-8.5
2		SASARAM-FATEHPUR	S/C	0	341	0.0	5.1	-5.1
3		GAYA-BALIA	S/C	0	285	0.0	4.2	-4.2
4	**HVDC**	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	3	146	0.0	0.8	-0.8
6	**400 kV**	PUSAULI-VARANASI	S/C	20	122	0.0	0.6	-0.6
7		PUSAULI -ALLAHABAD	S/C	65	68	0.2	0.0	0.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	587	0.0	9.3	-9.3
9		PATNA-BALIA	Q/C	0	840	0.0	18.1	-18.1
10		BIHARSHARIFF-BALIA	D/C	0	258	0.0	4.1	-4.1
11		MOTIHARI-GORAKHPUR	D/C	0	388	0.0	7.6	-7.6
12		BIHARSHARIFF-VARANASI	D/C	31	205	0.0	2.5	-2.5
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	137	0.0	2.5	-2.5
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	**0.8**	**63.3**	**-62.5**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	857	11	12.0	0.0	12.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	173	345	0.0	1.7	-1.7
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	430	0	5.7	0.0	5.7
21		RANCHI-SIPAT	D/C	127	42	1.3	0.0	1.3
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	20	59	0.0	0.5	-0.5
23		BUDHIPADAR-KORBA	D/C	115	0	1.7	0.0	1.7
					ER-WR	**20.7**	**2.2**	**18.5**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1562.0	0.0	28.0	-28.0
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	0.0	684.0	0.0	16.0	-16.0
26		TALCHER-KOLAR BIPOLE	D/C	0.0	1970.0	0.0	39.8	-39.8
27	**400 kV**	TALCHER-I/C	D/C	0.0	594.0	5.4	0.0	5.4
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**83.7**	**-83.7**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	291	20	4.1	0.0	4
30		ALIPURDUAR-BONGAIGAON	D/C	409	0	6.4	0.0	6
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	60	12	0.8	0.0	1
					ER-NER	**11.2**	**0.0**	**11.2**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	472	0	11.5	0.0	11.5
					NER-NR	**11.5**	**0.0**	**11.5**
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	242	0	4.3	0.0	4.3
35		APL -MHG	D/C	0	985	0.0	24.3	-24.3
36	**765 kV**	GWALIOR-AGRA	D/C	0	1119	0.0	40.4	-40.4
37		PHAGI-GWALIOR	D/C	0	1409	0.0	22.0	-22.0
38		JABALPUR-ORAI	D/C	97	311	0.0	7.9	-7.9
39		GWALIOR-ORAI	S/C	834	0	9.8	0.0	9.8
40		SATNA-ORAI	S/C	0	1728	0.0	36.8	-36.8
41	**400 kV**	ZERDA-KANKROLI	S/C	164	197	0.1	0.0	0.1
42		ZERDA -BHINMAL	S/C	80	373	0.0	3.1	-3.1
43		V'CHAL -RIHAND	S/C	994	0	22.6	0.0	22.6
44		RAPP-SHUJALPUR	D/C	209	144	1	0	1
45	**220 kV**	BADOD-KOTA	S/C	28	33	0.7	0.0	0.7
46		BADOD-MORAK	S/C	20	65	0.0	0.5	-0.5
47		MEHGAON-AURAIYA	S/C	85	0	1.2	0.0	1.2
48		MALANPUR-AURAIYA	S/C	40	16	0.4	0.0	0.4
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**39.9**	**151.6**	**-111.7**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	992	0.0	16.4	-16.4
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	102	2174	0.0	28.6	-28.6
53		WARDHA-NIZAMABAD	D/C	0	2269	0.0	38.7	-38.7
54	**400 kV**	KOLHAPUR-KUDGI	D/C	1033	0	12.0	0.0	12.0
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	1	58	0.6	0.0	0.6
					WR-SR	**12.7**	**83.7**	**-71.0**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**1.9**
59		NEPAL						**-6.7**
60		BANGLADESH						**-12.3**