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: 11th Jan 2019

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 10.01.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-जनवरी-2019 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 10th January 2019, 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** **11-Jan-19**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46246	48500	41883	18063	2449	157141
Peak Shortage (MW)	762	0	0	0	26	788
Energy Met (MU)	973	1125	925	352	42	3417
Hydro Gen (MU)	113	31	78	28	8	257
Wind Gen (MU)	9	23	43	----------	----------	75
Solar Gen (MU)*	19.46	20.2	73.53	0.89	0.04	114
Energy Shortage (MU)	15.1	0.3	0.0	0.0	0.8	16.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46826	55174	44015	18694	2441	159565
	18:17	10:28	08:23	19:05	17:53	09:26

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	0.050	0.00	0.88	11.39	12.27	77.73	10.00

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	5648	0	113.8	23.1	-0.6	69	0.0
	Haryana	6775	0	129.9	66.8	0.5	172	0.8
	Rajasthan	11970	100	238.3	58.8	0.5	568	0.0
	Delhi	4194	0	71.0	50.0	0.1	188	0.0
	UP	13767	0	292.5	116.0	0.2	320	2.3
	Uttarakhand	2140	0	40.7	24.4	1.1	131	0.0
	HP	1654	0	30.6	24.7	0.6	282	0.0
	J&K	2623	656	52.3	47.8	-0.2	369	11.9
	Chandigarh	215	0	3.8	3.9	-0.1	41	0.0
WR	Chhattisgarh	3768	0	84.2	26.3	1.8	490	0.3
	Gujarat	15237	0	324.8	83.8	2.6	788	0.0
	MP	13897	0	257.9	143.1	2.1	804	0.0
	Maharashtra	20697	0	414.9	99.8	1.2	774	0.0
	Goa	449	0	9.0	8.9	-0.4	91	0.0
	DD	289	0	6.7	6.6	0.1	23	0.0
	DNH	774	0	17.7	17.6	0.1	46	0.0
	Essar steel	500	0	10.2	10.5	-0.3	268	0.0
SR	Andhra Pradesh	8001	0	164.6	79.5	-0.1	464	0.0
	Telangana	9221	0	182.2	67.6	0.7	431	0.0
	Karnataka	11290	0	213.3	71.4	-0.1	495	0.0
	Kerala	3520	0	64.4	51.5	-0.1	136	0.0
	Tamil Nadu	14194	0	293.2	137.3	0.3	440	0.0
	Pondy	386	0	7.6	7.6	0.0	47	0.0
ER	Bihar	4328	0	78.6	72.4	1.0	460	0.0
	DVC	3209	0	65.1	-29.5	0.2	396	0.0
	Jharkhand	1137	0	24.8	18.7	0.7	169	0.0
	Odisha	3877	0	68.3	22.6	0.9	267	0.0
	West Bengal	6370	0	114.2	29.3	-1.1	309	0.0
	Sikkim	99	0	1.4	1.9	-0.5	18	0.0
NER	Arunachal Pradesh	115	2	2.1	2.0	0.1	42	0.0
	Assam	1395	15	22.5	17.3	1.3	183	0.6
	Manipur	175	2	2.9	3.0	0.0	36	0.0
	Meghalaya	363	0	6.6	5.1	0.0	68	0.0
	Mizoram	110	2	1.5	1.7	-0.4	13	0.1
	Nagaland	120	3	2.1	2.0	0.0	57	0.1
	Tripura	215	1	4.1	1.9	0.0	54	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.3	-6.7	-13.7
Day peak (MW)	76.8	-305.0	-811.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	154.9	-192.8	111.8	-76.5	2.2	-0.3
Actual(MU)	150.4	-193.0	110.0	-69.7	0.5	-1.8
O/D/U/D(MU)	-4.5	-0.2	-1.8	6.8	-1.7	-1.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3769	16351	8052	1370	206	29748
State Sector	10185	12930	9100	5175	50	37440
Total	13954	29281	17152	6545	256	67187

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	584	1163	483	431	9	2670
Lignite	25	14	53	0	0	92
Hydro	113	31	78	28	8	257
Nuclear	24	31	32	0	0	87
Gas, Naptha & Diesel	37	56	20	0	29	142
RES (Wind, Solar, Biomass & Others)	57	46	157	1	0	260
Total	840	1341	822	460	45	3509

Share of RES in total generation (%)	6.74	3.44	19.05	0.20	0.09	7.42
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	23.06	8.09	32.37	6.31	17.03	17.24

H. Diversity Factor

All India Demand Diversity Factor	1.048

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 : **11-Jan-19**

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	7.5	-7.5
2		SASARAM-FATEHPUR	S/C	15	223	0.0	1.9	-1.9
3		GAYA-BALIA	S/C	0	381	0.0	6.4	-6.4
4	**HVDC**	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	149	0.0	3.5	-3.5
6	**400 kV**	PUSAULI-VARANASI	S/C	0	127	0.0	2.6	-2.6
7		PUSAULI -ALLAHABAD	S/C	0	69	0.0	1.0	-1.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	658	0.0	8.8	-8.8
9		PATNA-BALIA	Q/C	0	959	0.0	20.3	-20.3
10		BIHARSHARIFF-BALIA	D/C	0	333	0.0	6.0	-6.0
11		MOTIHARI-GORAKHPUR	D/C	0	343	0.0	6.7	-6.7
12		BIHARSHARIFF-VARANASI	D/C	50	184	0.0	1.4	-1.4
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	147	0.0	1.9	-1.9
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	38	0	0.6	0.0	0.6
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	**1.3**	**67.9**	**-66.7**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1320	0	19.8	0.0	19.8
19		NEW RANCHI-DHARAMJAIGARH	D/C	503	225	2.3	0.0	2.3
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	109	126	1.2	0.0	1.2
21		RANCHI-SIPAT	D/C	236	22	2.0	0.0	2.0
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	28	77	0.0	0.8	-0.8
23		BUDHIPADAR-KORBA	D/C	107	0	1.2	0.0	1.2
					ER-WR	**26.3**	**0.8**	**25.5**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1701.0	0.0	26.6	-26.6
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	1991.0	0.0	45.5	-45.5
27	**400 kV**	TALCHER-I/C	D/C	213.0	82.0	0.0	0.5	-0.5
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**88.0**	**-88.0**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	265	1	3.8	0.0	4
30		ALIPURDUAR-BONGAIGAON	D/C	386	0	6.2	0.0	6
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	63	31	0.7	0.0	1
					ER-NER	**10.7**	**0.0**	**10.7**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	490	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	605	0.0	14.1	-14.1
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0
35		APL -MHG	D/C	0	1175	0.0	29.0	-29.0
36	**765 kV**	GWALIOR-AGRA	D/C	0	1202	0.0	36.0	-36.0
37		PHAGI-GWALIOR	D/C	0	1091	0.0	16.6	-16.6
38		JABALPUR-ORAI	D/C	0	725	0.0	22.9	-22.9
39		GWALIOR-ORAI	S/C	551	0	10.5	0.0	10.5
40		SATNA-ORAI	S/C	0	1254	0.0	24.6	-24.6
41	**400 kV**	ZERDA-KANKROLI	S/C	195	53	1.9	0.0	1.9
42		ZERDA -BHINMAL	S/C	102	221	0.0	1.3	-1.3
43		V'CHAL -RIHAND	S/C	980	0	21.9	0.0	21.9
44		RAPP-SHUJALPUR	D/C	370	65	1	0	1
45	**220 kV**	BADOD-KOTA	S/C	30	17	1.2	0.0	1.2
46		BADOD-MORAK	S/C	13	135	0.0	1.2	-1.2
47		MEHGAON-AURAIYA	S/C	128	0	1.6	0.0	1.6
48		MALANPUR-AURAIYA	S/C	72	31	0.6	0.0	0.6
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**45.1**	**145.9**	**-100.8**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	999	0.0	23.9	-23.9
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	103	2264	0.0	28.8	-28.8
53		WARDHA-NIZAMABAD	D/C	0	1984	0.0	28.1	-28.1
54	**400 kV**	KOLHAPUR-KUDGI	D/C	941	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	78	0	0.1	0.0	0.1
57		XELDEM-AMBEWADI	S/C	0	64	1.1	0.0	1.1
					WR-SR	**13.2**	**80.9**	**-67.7**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**1.3**
59		NEPAL						**-6.7**
60		BANGLADESH						**-13.7**