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: 17th 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 16.01.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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** **17-Jan-19**

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46747	47513	37304	18073	2385	152022
Peak Shortage (MW)	727	258	0	285	30	1300
Energy Met (MU)	977	1111	838	359	40	3326
Hydro Gen (MU)	114	29	62	28	7	241
Wind Gen (MU)	4	15	38	----------	----------	57
Solar Gen (MU)*	17.50	21.63	72.80	0.88	0.04	113
Energy Shortage (MU)	13.2	0.4	0.0	0.9	0.3	14.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47800	54694	41302	18584	2379	158221
	18:23	09:38	09:21	19:30	18:33	09:30

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	0.10	8.69	8.80	66.22	24.99

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	5820	0	118.0	33.1	-0.2	79	0.0
	Haryana	6922	0	132.0	73.3	0.8	205	0.0
	Rajasthan	12168	0	240.9	79.6	0.2	546	0.0
	Delhi	4254	0	72.3	55.7	0.1	267	0.0
	UP	14114	180	291.3	106.4	0.8	270	1.7
	Uttarakhand	2116	0	39.7	24.6	0.7	231	0.0
	HP	1646	0	30.3	24.5	0.6	158	0.0
	J&K	2428	607	48.5	43.2	-0.1	248	11.5
	Chandigarh	244	0	4.0	3.8	0.2	37	0.0
WR	Chhattisgarh	3754	0	79.5	37.6	0.9	441	0.4
	Gujarat	14721	0	316.4	83.1	1.6	1098	0.0
	MP	13695	0	251.6	138.2	0.5	567	0.0
	Maharashtra	20777	0	421.8	118.6	0.4	578	0.0
	Goa	458	0	9.5	9.3	-0.4	72	0.0
	DD	312	0	6.9	6.8	0.1	70	0.0
	DNH	771	0	17.7	17.6	0.1	48	0.0
	Essar steel	442	0	7.8	8.3	-0.5	231	0.0
SR	Andhra Pradesh	7746	0	151.2	60.5	-0.2	666	0.0
	Telangana	8827	0	174.0	66.6	-0.2	544	0.0
	Karnataka	11212	0	212.2	79.2	-0.1	403	0.0
	Kerala	3599	0	67.1	56.7	0.2	205	0.0
	Tamil Nadu	11134	0	227.9	114.1	-1.6	351	0.0
	Pondy	265	0	6.0	6.4	-0.4	44	0.0
ER	Bihar	4213	0	73.9	69.0	-0.2	460	0.0
	DVC	3149	285	65.4	-42.1	0.4	396	0.9
	Jharkhand	1044	0	22.8	16.7	-0.9	169	0.0
	Odisha	3990	0	73.8	24.3	0.1	267	0.0
	West Bengal	6446	0	121.4	22.9	-0.8	309	0.0
	Sikkim	95	0	1.4	1.8	-0.5	18	0.0
NER	Arunachal Pradesh	111	2	2.1	2.0	0.1	56	0.0
	Assam	1382	28	21.4	16.5	0.1	124	0.3
	Manipur	210	6	2.9	3.1	-0.2	38	0.0
	Meghalaya	351	2	6.1	5.2	-0.2	51	0.0
	Mizoram	106	5	1.8	1.7	-0.2	13	0.0
	Nagaland	109	4	2.2	2.0	-0.1	13	0.0
	Tripura	219	12	3.9	2.1	-0.3	29	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.7	-7.1	-13.7
Day peak (MW)	79.7	-321.0	-806.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	183.9	-191.1	93.2	-86.0	0.2	0.3
Actual(MU)	182.5	-190.4	87.9	-81.0	-1.6	-2.6
O/D/U/D(MU)	-1.4	0.7	-5.3	4.9	-1.8	-2.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3034	15279	7102	1990	121	27526
State Sector	9715	14638	9680	3915	50	37998
Total	12749	29917	16782	5905	171	65524

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	579	1162	447	430	8	2626
Lignite	23	17	48	0	0	88
Hydro	114	29	62	28	7	241
Nuclear	24	31	31	0	0	86
Gas, Naptha & Diesel	31	42	20	0	30	123
RES (Wind, Solar, Biomass & Others)	50	39	149	1	0	240
Total	821	1319	758	459	46	3403

Share of RES in total generation (%)	6.08	2.98	19.72	0.20	0.09	7.04
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	22.87	7.52	32.09	6.37	16.06	16.65

H. Diversity Factor

All India Demand Diversity Factor	1.041

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 : **17-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	919	0.0	13.2	-13.2
2		SASARAM-FATEHPUR	S/C	0	0	0.0	0.0	0.0
3		GAYA-BALIA	S/C	0	397	0.0	6.5	-6.5
4	**HVDC**	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	149	0.0	3.8	-3.8
6	**400 kV**	PUSAULI-VARANASI	S/C	0	116	0.0	2.0	-2.0
7		PUSAULI -ALLAHABAD	S/C	0	179	0.0	1.5	-1.5
8		MUZAFFARPUR-GORAKHPUR	D/C	0	830	0.0	11.3	-11.3
9		PATNA-BALIA	Q/C	0	1003	0.0	18.4	-18.4
10		BIHARSHARIFF-BALIA	D/C	0	439	0.0	6.1	-6.1
11		MOTIHARI-GORAKHPUR	D/C	0	406	0.0	7.9	-7.9
12		BIHARSHARIFF-VARANASI	D/C	28	358	0.0	4.0	-4.0
13	**220 kV**	PUSAULI-SAHUPURI	S/C	0	154	0.0	2.9	-2.9
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	33	0	0.5	0.0	0.5
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
					ER-NR	**1.1**	**77.5**	**-76.3**
Import/Export of ER (With WR)								
18	**765 kV**	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1205	0	20.1	0.0	20.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	276	404	0.0	0.8	-0.8
20	**400 kV**	JHARSUGUDA-RAIGARH	Q/C	52	173	0.0	1.3	-1.3
21		RANCHI-SIPAT	D/C	136	108	0.5	0.0	0.5
22	**220 kV**	BUDHIPADAR-RAIGARH	S/C	11	82	0.0	0.9	-0.9
23		BUDHIPADAR-KORBA	D/C	94	7	1.0	0.0	1.0
					ER-WR	**21.6**	**2.9**	**18.7**
Import/Export of ER (With SR)								
24	**765 kV**	ANGUL-SRIKAKULAM	D/C	0.0	1375.0	0.0	23.1	-23.1
25	**HVDC LINK**	JEYPORE-GAZUWAKA B/B	D/C	1154.0	684.0	0.0	16.0	-16.0
26		TALCHER-KOLAR BIPOLE	D/C	0.0	1978.0	0.0	41.1	-41.1
27	**400 kV**	TALCHER-I/C	D/C	201.0	272.0	0.0	3.3	-3.3
28	**220 kV**	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**80.2**	**-80.2**
Import/Export of ER (With NER)								
29	**400 kV**	BINAGURI-BONGAIGAON	D/C	334	0	5.9	0.0	6
30		ALIPURDUAR-BONGAIGAON	D/C	468	0	8.8	0.0	9
31	**220 kV**	ALIPURDUAR-SALAKATI	D/C	79	11	1.2	0.0	1
					ER-NER	**15.8**	**0.0**	**15.8**
Import/Export of NER (With NR)								
32	**HVDC**	BISWANATH CHARIALI-AGRA	-	671	0	15.1	0.0	15.1
					NER-NR	**15.1**	**0.0**	**15.1**
Import/Export of WR (With NR)								
33	**HVDC**	CHAMPA-KURUKSHETRA	D/C	0	951	0.0	21.2	-21.2
34		V'CHAL B/B	D/C	241	3	4.2	0.0	4.2
35		APL -MHG	D/C	0	1359	0.0	19.5	-19.5
36	**765 kV**	GWALIOR-AGRA	D/C	0	1096	0.0	37.4	-37.4
37		PHAGI-GWALIOR	D/C	0	1412	0.0	24.0	-24.0
38		JABALPUR-ORAI	D/C	0	821	0.0	28.1	-28.1
39		GWALIOR-ORAI	S/C	957	0	14.6	0.0	14.6
40		SATNA-ORAI	S/C	0	1518	0.0	29.0	-29.0
41	**400 kV**	ZERDA-KANKROLI	S/C	78	185	0.0	2.1	-2.1
42		ZERDA -BHINMAL	S/C	0	420	0.0	5.3	-5.3
43		V'CHAL -RIHAND	S/C	970	0	21.7	0.0	21.7
44		RAPP-SHUJALPUR	D/C	148	156	0	0	0
45	**220 kV**	BADOD-KOTA	S/C	15	45	0.5	0.3	0.2
46		BADOD-MORAK	S/C	7	151	0.0	1.1	-1.1
47		MEHGAON-AURAIYA	S/C	113	0	1.5	0.0	1.5
48		MALANPUR-AURAIYA	S/C	60	14	0.5	0.0	0.5
49	**132kV**	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**43.0**	**168.0**	**-125.1**
Import/Export of WR (With SR)								
50	**HVDC LINK**	BHADRAWATI B/B	-	0	1002	0.0	21.1	-21.1
51		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
52	**765 kV**	SOLAPUR-RAICHUR	D/C	593	1527	0.0	18.6	-18.6
53		WARDHA-NIZAMABAD	D/C	44	1598	0.0	24.8	-24.8
54	**400 kV**	KOLHAPUR-KUDGI	D/C	1286	0	16.5	0.0	16.5
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	0	64	1.1	0.0	1.1
					WR-SR	**17.7**	**64.5**	**-46.8**
TRANSNATIONAL EXCHANGE								
58		BHUTAN						**0.7**
59		NEPAL						**-7.1**
60		BANGLADESH						**-13.7**