



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: 21<sup>st</sup> Jan 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tolleygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 20.01.2019.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 20-जनवरी-2019 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 20<sup>th</sup> 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

21-Jan-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	42786	45785	37336	17262	2339	145508
Peak Shortage (MW)	775	0	83	232	42	1132
Energy Met (MU)	926	1108	872	350	42	3298
Hydro Gen (MU)	115	19	61	21	7	224
Wind Gen (MU)	12	20	50	-----	-----	82
Solar Gen (MU)*	20.12	20.71	71.67	0.83	0.02	113
Energy Shortage (MU)	18.0	0.0	0.0	0.7	0.3	19.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	44000 11:33	54969 10:59	41436 09:30	18008 19:20	2403 17:51	155409 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	0.033	0.00	0.14	2.72	2.86	72.01	25.13

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	5502	0	109.1	32.4	0.1	219	0.0
	Haryana	5940	0	118.6	74.4	0.1	160	0.0
	Rajasthan	12569	0	239.6	69.9	-0.3	456	0.0
	Delhi	4064	0	64.6	49.3	-1.8	102	0.0
	UP	13609	0	280.0	109.7	0.2	198	4.0
	Uttarakhand	2026	0	36.2	21.4	0.3	118	0.0
	HP	1491	0	25.3	21.0	-0.7	103	2.6
WR	J&K	2676	669	49.0	45.1	-1.2	449	11.3
	Chandigarh	210	0	3.4	3.7	-0.3	27	0.0
	Chhattisgarh	3793	0	84.7	38.6	2.8	193	0.0
	Gujarat	15056	0	321.9	78.8	1.0	735	0.0
	MP	13659	0	250.8	141.8	-0.9	608	0.0
	Maharashtra	19972	0	403.2	124.0	0.7	645	0.0
	Goa	498	0	12.0	9.2	2.1	55	0.0
	DD	294	0	6.8	6.6	0.1	32	0.0
	DNH	749	0	17.2	17.1	0.1	60	0.0
	Essar steel	637	0	11.9	11.3	0.6	302	0.0
SR	Andhra Pradesh	8102	0	163.4	67.7	0.0	478	0.0
	Telangana	8981	0	181.2	70.4	0.0	392	0.0
	Karnataka	10336	0	197.4	73.0	-0.4	578	0.0
	Kerala	3017	0	58.8	49.6	0.5	164	0.0
	Tamil Nadu	12473	0	264.6	139.9	0.3	439	0.0
	Pondy	314	0	6.5	6.7	-0.2	51	0.0
ER	Bihar	4274	0	76.2	72.2	-1.1	460	0.0
	DVC	3134	0	65.4	-42.0	-0.6	396	0.0
	Jharkhand	999	232	23.2	16.0	0.6	169	0.7
	Odisha	3720	0	73.3	25.0	0.5	267	0.0
	West Bengal	6138	0	111.0	12.3	-0.3	309	0.0
NER	Sikkim	84	0	1.1	1.8	-0.6	18	0.0
	Arunachal Pradesh	118	2	2.3	2.0	0.3	53	0.0
	Assam	1328	28	22.2	16.6	1.0	90	0.2
	Manipur	185	3	3.0	3.0	-0.1	18	0.0
	Meghalaya	331	0	6.4	5.6	-0.1	31	0.0
	Mizoram	93	2	1.8	1.7	0.0	5	0.0
	Nagaland	110	3	2.1	2.0	0.0	17	0.0
Tripura	242	1	4.0	3.8	0.6	50	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.7	-6.8	-14.1
Day peak (MW)	74.2	-311.0	-820.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	167.2	-178.5	95.9	-84.0	-0.2	0.5
Actual(MU)	162.4	-178.3	92.6	-77.1	0.1	-0.3
O/D/U/D(MU)	-4.8	0.2	-3.2	6.9	0.2	-0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	3370	15227	6602	2515	292	28005
State Sector	11470	15118	10680	4165	50	41483
Total	14840	30345	17282	6680	341	69488

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	538	1151	451	429	9	2578
Lignite	19	19	58	0	0	96
Hydro	115	19	61	21	7	224
Nuclear	24	31	32	0	0	87
Gas, Naptha & Diesel	28	41	18	0	30	117
RES (Wind, Solar, Biomass & Others)	61	42	161	1	0	265
Total	785	1303	781	451	45	3366
Share of RES in total generation (%)	7.81	3.21	20.64	0.20	0.04	7.88
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.53	7.08	32.47	4.95	15.43	17.11

H. Diversity Factor

All India Demand Diversity Factor	1.035
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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-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)	
<b>Import/Export of ER (With NR)</b>									
1	765kV	GAYA-VARANASI	D/C	0	661	0.0	9.6	-9.6	
2		SASARAM-FATEHPUR	S/C	0	312	0.0	3.7	-3.7	
3		GAYA-BALIA	S/C	0	311	0.0	5.1	-5.1	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	400 kV	PUSAULI B/B	S/C	0	149	0.0	3.8	-3.8	
6		PUSAULI-VARANASI	S/C	0	129	0.0	2.5	-2.5	
7		PUSAULI -ALLAHABAD	S/C	0	83	0.0	1.1	-1.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	527	0.0	7.9	-7.9	
9		PATNA-BALIA	Q/C	0	914	0.0	18.6	-18.6	
10		BIHARSHARIFF-BALIA	D/C	0	279	0.0	4.1	-4.1	
11		MOTIHARI-GORAKHPUR	D/C	0	408	0.0	7.5	-7.5	
12		BIHARSHARIFF-VARANASI	D/C	33	229	0.0	2.3	-2.3	
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	0.7	0.0	0.7
16			KARMANASA-SAHUPURI	S/C	41	0	0.7	0.0	0.7
17			KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>1.3</b>	<b>69.1</b>	<b>-67.8</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1258	0	19.9	0.0	19.9	
19		NEW RANCHI-DHARAMJAIGARH	D/C	109	502	0.0	2.7	-2.7	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	22	182	0.0	3.1	-3.1	
21		RANCHI-SIPAT	D/C	114	117	0.0	0.5	-0.5	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	0	90	0.0	1.0	-1.0	
23		BUDHIPADAR-KORBA	D/C	85	17	0.9	0.0	0.9	
<b>ER-WR</b>						<b>20.8</b>	<b>7.3</b>	<b>13.5</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1575.0	0.0	26.2	-26.2	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	638.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1971.0	0.0	39.5	-39.5	
27	400 kV	TALCHER-I/C	D/C	255.0	198.0	2.3	0.0	2.3	
28	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
<b>ER-SR</b>						<b>0.0</b>	<b>81.7</b>	<b>-81.7</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	306	51	4.9	0.0	5	
30		ALIPURDUAR-BONGAIGAON	D/C	435	0	7.6	0.0	8	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	85	26	0.9	0.0	1	
<b>ER-NER</b>						<b>13.5</b>	<b>0.0</b>	<b>13.5</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	668	0	13.9	0.0	13.9	
<b>NER-NR</b>						<b>13.9</b>	<b>0.0</b>	<b>13.9</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1503	0.0	23.5	-23.5	
34		V'CHAL B/B	D/C	241	253	3.6	2.2	1.4	
35		APL -MHG	D/C	0	1736	0.0	38.9	-38.9	
36		GWALIOR-AGRA	D/C	0	892	0.0	29.3	-29.3	
37	765 kV	PHAGI-GWALIOR	D/C	0	1136	0.0	15.8	-15.8	
38		JABALPUR-ORAI	D/C	0	545	0.0	18.5	-18.5	
39		GWALIOR-ORAI	S/C	670	0	10.9	0.0	10.9	
40		SATNA-ORAI	S/C	0	1077	0.0	22.6	-22.6	
41		400 kV	ZERDA-KANKROLI	S/C	146	67	0.9	0.0	0.9
42			ZERDA -BHINMAL	S/C	129	251	0.0	2.3	-2.3
43	V'CHAL -RIHAND		S/C	984	0	20.5	0.0	20.5	
44	RAPP-SHUJALPUR		D/C	187	125	0	0	0	
45	220 kV	BADOD-KOTA	S/C	28	15	0.8	0.1	0.7	
46		BADOD-MORAK	S/C	4	109	0.0	0.9	-0.9	
47		MEHGAON-AURAIYA	S/C	128	0	1.9	0.0	1.9	
48		MALANPUR-AURAIYA	S/C	72	3	0.9	0.0	0.9	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>39.9</b>	<b>154.0</b>	<b>-114.1</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	1002	0.0	19.1	-19.1	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	333	2019	0.0	23.2	-23.2	
53		WARDHA-NIZAMABAD	D/C	0	1981	0.0	25.6	-25.6	
54	400 kV	KOLHAPUR-KUDGI	D/C	1058	0	14.3	0.0	14.3	
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56	220 kV	PONDA-AMBEWADI	S/C	3	52	0.0	0.3	-0.2	
57		XELDEM-AMBEWADI	S/C	1	48	0.6	0.0	0.6	
<b>WR-SR</b>						<b>14.9</b>	<b>68.2</b>	<b>-53.3</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>0.7</b>	
59		NEPAL						<b>-6.8</b>	
60		BANGLADESH						<b>-14.1</b>	