



**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: 16<sup>th</sup>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., 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 15.01.2019.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-जनवरी-2019 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके 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 15<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

16-Jan-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	47463	45705	35876	17598	2334	148976
Peak Shortage (MW)	595	0	33	0	23	651
Energy Met (MU)	976	1073	842	352	42	3285
Hydro Gen (MU)	111	29	60	29	7	236
Wind Gen (MU)	7	39	41	-----	-----	87
Solar Gen (MU)*	22.64	20.1	70.92	0.87	0.04	115
Energy Shortage (MU)	9.9	0.0	0.0	0.0	0.1	10.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48602 18:28	53533 10:01	41559 09:19	18169 18:50	2354 17:54	157723 09:18

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	0.042	0.00	0.25	6.06	6.32	67.04	26.64

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	5645	0	116.9	33.2	0.4	122	0.0
	Haryana	6810	0	131.7	73.4	0.7	189	0.0
	Rajasthan	12254	0	237.6	80.2	-0.3	582	0.0
	Delhi	4256	0	72.2	55.7	0.0	367	0.0
	UP	14928	0	295.3	107.3	0.9	346	1.6
	Uttarakhand	2140	0	40.6	25.5	0.2	139	0.0
	HP	1640	0	25.8	24.3	0.2	125	0.0
WR	J&K	2734	683	52.5	42.5	4.8	562	8.3
	Chandigarh	236	0	3.8	3.9	-0.1	25	0.0
	Chhattisgarh	3766	0	80.1	33.6	-1.5	349	0.0
	Gujarat	13507	0	282.7	80.7	2.4	877	0.0
	MP	13480	0	249.2	136.2	-0.7	446	0.0
	Maharashtra	21138	0	418.4	115.0	1.2	550	0.0
	Goa	458	0	9.5	8.8	0.1	61	0.0
	DD	306	0	6.6	6.5	0.1	23	0.0
	DNH	753	0	17.3	17.2	0.1	40	0.0
	Essar steel	435	0	9.1	8.9	0.2	277	0.0
SR	Andhra Pradesh	7825	0	151.4	54.5	0.3	623	0.0
	Telangana	8712	0	171.6	65.7	0.3	428	0.0
	Karnataka	11444	0	204.2	71.8	-0.3	540	0.0
	Kerala	3479	0	67.9	57.1	0.4	220	0.0
	Tamil Nadu	11846	0	240.3	114.9	-0.7	375	0.0
	Pondy	329	0	6.5	6.7	-0.3	40	0.0
ER	Bihar	4219	0	74.5	69.2	0.3	460	0.0
	DVC	2858	0	65.7	-42.7	1.1	396	0.0
	Jharkhand	999	0	21.4	14.9	0.5	169	0.0
	Odisha	3828	0	71.9	24.0	0.7	267	0.0
	West Bengal	6436	0	116.8	23.1	0.7	309	0.0
NER	Sikkim	92	0	1.3	1.8	-0.5	18	0.0
	Arunachal Pradesh	112	2	2.2	2.0	0.2	57	0.0
	Assam	1299	8	22.9	17.0	1.3	65	0.1
	Manipur	173	2	2.9	3.1	-0.2	30	0.0
	Meghalaya	371	0	6.5	5.3	-0.1	39	0.0
	Mizoram	97	3	1.9	1.7	0.1	20	0.0
	Nagaland	123	2	2.1	2.0	-0.2	14	0.0
Tripura	208	1	3.8	2.0	-0.2	70	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.8	-6.7	-14.0
Day peak (MW)	115.8	-316.0	-817.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	182.6	-195.5	93.5	-81.6	0.6	-0.4
Actual(MU)	177.8	-194.2	86.4	-73.9	-0.3	-4.1
O/D/U/D(MU)	-4.8	1.3	-7.1	7.7	-0.8	-3.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2534	15071	5712	1990	156	25463
State Sector	9715	16228	9680	4125	50	39798
Total	12249	31299	15392	6115	206	65260

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	574	1111	451	423	9	2567
Lignite	20	15	46	0	0	80
Hydro	111	28	60	29	7	236
Nuclear	24	31	31	0	0	86
Gas, Naptha & Diesel	31	41	20	0	30	122
RES (Wind, Solar, Biomass & Others)	57	62	153	1	0	272
Total	815	1287	761	453	46	3363

Share of RES in total generation (%)	6.96	4.79	20.07	0.20	0.09	8.09
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	23.47	9.41	32.11	6.61	15.91	17.67

H. Diversity Factor

All India Demand Diversity Factor	1.041
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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 : 16-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	824	0.0	11.2	-11.2	
2		SASARAM-FATEHPUR	S/C	0	226	0.0	1.1	-1.1	
3		GAYA-BALIA	S/C	0	364	0.0	6.3	-6.3	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	400 kV	PUSAULI B/B	S/C	0	150	0.0	4.0	-4.0	
6		PUSAULI-VARANASI	S/C	0	118	0.0	2.3	-2.3	
7		PUSAULI -ALLAHABAD	S/C	0	82	0.0	1.2	-1.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	762	0.0	10.3	-10.3	
9		PATNA-BALIA	Q/C	0	943	0.0	18.0	-18.0	
10		BIHARSHARIFF-BALIA	D/C	0	374	0.0	5.2	-5.2	
11		MOTIHARI-GORAKHPUR	D/C	0	393	0.0	7.4	-7.4	
12		BIHARSHARIFF-VARANASI	D/C	41	336	0.0	3.1	-3.1	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	155	0.0	1.6	-1.6
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	36	0	0.6	0.0	0.6	
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0	
<b>ER-NR</b>						<b>1.2</b>	<b>71.6</b>	<b>-70.4</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1372	38	17.1	0.0	17.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	239	354	0.0	1.2	-1.2	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	250	139	0.8	0.0	0.8	
21		RANCHI-SIPAT	D/C	113	104	0.3	0.0	0.3	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	4	82	0.0	0.9	-0.9	
23		BUDHIPADAR-KORBA	D/C	97	16	1.1	0.0	1.1	
<b>ER-WR</b>						<b>19.2</b>	<b>2.1</b>	<b>17.1</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1548.0	0.0	25.7	-25.7	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	684.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1980.0	0.0	37.9	-37.9	
27	400 kV	TALCHER-I/C	D/C	343.0	397.0	2.9	0.0	2.9	
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>79.6</b>	<b>-79.6</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	334	0	5.7	0.0	6	
30		ALIPURDUAR-BONGAIGAON	D/C	479	0	8.2	0.0	8	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	75	6	1.1	0.0	1	
<b>ER-NER</b>						<b>15.0</b>	<b>0.0</b>	<b>15.0</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	662	0	15.5	0.0	15.5	
<b>NER-NR</b>						<b>15.5</b>	<b>0.0</b>	<b>15.5</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	951	0.0	18.8	-18.8	
34		V'CHAL B/B	D/C	241	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	1364	0.0	28.6	-28.6	
36		GWALIOR-AGRA	D/C	0	1083	0.0	39.1	-39.1	
37	765 kV	PHAGI-GWALIOR	D/C	0	1470	0.0	24.2	-24.2	
38		JABALPUR-ORAI	D/C	0	793	0.0	25.6	-25.6	
39		GWALIOR-ORAI	S/C	667	0	12.1	0.0	12.1	
40		SATNA-ORAI	S/C	0	1325	0.0	27.0	-27.0	
41		400 kV	ZERDA-KANKROLI	S/C	83	144	0.0	0.9	-0.9
42			ZERDA -BHINMAL	S/C	0	342	0.0	4.3	-4.3
43	V'CHAL -RIHAND		S/C	975	0	21.0	0.0	21.0	
44	RAPP-SHUJALPUR		D/C	183	212	0	0	0	
45	220 kV	BADOD-KOTA	S/C	20	39	0.5	0.2	0.3	
46		BADOD-MORAK	S/C	22	117	0.0	1.0	-1.0	
47		MEHGAON-AURAIYA	S/C	117	0	1.6	0.0	1.6	
48		MALANPUR-AURAIYA	S/C	58	12	0.3	0.0	0.3	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>41.5</b>	<b>169.8</b>	<b>-128.4</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	999	0.0	17.6	-17.6	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	575	1873	0.0	20.2	-20.2	
53		WARDHA-NIZAMABAD	D/C	0	1896	0.0	25.4	-25.4	
54	400 kV	KOLHAPUR-KUDGI	D/C	1206	0	15.2	0.0	15.2	
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	65	1.2	0.0	1.2	
<b>WR-SR</b>						<b>16.4</b>	<b>63.1</b>	<b>-46.7</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>0.8</b>	
59		NEPAL						<b>-6.7</b>	
60		BANGLADESH						<b>-14.0</b>	