



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: 24<sup>th</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 23.01.2019.**

महोदय/Dear Sir,

आईईंजींसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23<sup>rd</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

24-Jan-19

A. Maximum Demand

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	44579	47291	41182	18043	2349	153444
Peak Shortage (MW)	548	0	0	0	53	601
Energy Met (MU)	880	1118	931	370	42	3341
Hydro Gen (MU)	115	25	80	29	7	257
Wind Gen (MU)	9	24	20	-----	-----	53
Solar Gen (MU)*	13.44	20.81	70.78	0.86	0.05	106
Energy Shortage (MU)	11.4	0.0	0.0	0.0	0.3	11.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45264 18:57	55277 09:30	43477 09:44	18476 19:16	2495 18:00	157453 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	0.048	0.00	0.09	9.26	9.35	71.64	19.00

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	5516	0	105.3	31.8	-0.3	146	0.0
	Haryana	6485	0	118.9	73.7	0.0	212	0.0
	Rajasthan	11214	0	227.0	63.4	-1.2	254	0.0
	Delhi	4147	0	70.8	55.1	-0.7	213	0.0
	UP	13345	0	242.7	92.6	0.8	268	0.8
	Uttarakhand	1943	0	37.3	27.0	-0.5	147	0.0
	HP	1585	6	29.3	24.0	0.3	238	0.1
	J&K	2356	589	45.3	42.3	-4.2	123	10.5
WR	Chandigarh	241	0	3.8	3.9	-0.1	42	0.0
	Chhattisgarh	3825	0	82.7	34.9	-0.8	343	0.0
	Gujarat	15177	0	327.6	89.1	1.1	890	0.0
	MP	13041	0	241.9	131.9	-0.9	568	0.0
	Maharashtra	20906	0	417.4	130.2	0.5	533	0.0
	Goa	498	0	12.0	10.9	0.5	26	0.0
	DD	314	0	7.2	6.9	0.3	30	0.0
	DNH	780	0	18.2	17.9	0.3	46	0.0
SR	Essar steel	534	0	10.9	10.9	0.0	519	0.0
	Andhra Pradesh	8246	0	167.5	63.8	1.2	658	0.0
	Telangana	9210	0	185.8	89.2	0.3	401	0.0
	Karnataka	11224	0	216.0	87.6	-0.3	819	0.0
	Kerala	3412	0	65.1	49.2	1.0	212	0.0
	Tamil Nadu	13966	0	289.8	142.4	-0.1	522	0.0
	Pondy	360	0	7.0	7.2	-0.3	30	0.0
	ER	Bihar	3933	0	68.7	65.2	-1.9	460
DVC		3285	0	67.6	-45.7	-1.4	396	0.0
Jharkhand		1159	0	24.5	18.3	-0.7	169	0.0
Odisha		4020	0	81.8	33.8	0.0	267	0.0
West Bengal		6676	0	125.7	24.0	1.0	309	0.0
Sikkim		98	0	1.4	2.2	-0.8	18	0.0
NER	Arunachal Pradesh	117	2	2.1	2.0	0.1	38	0.0
	Assam	1387	36	23.3	18.8	1.3	90	0.3
	Manipur	176	2	2.8	3.0	-0.3	17	0.0
	Meghalaya	337	0	5.9	5.3	-0.2	30	0.0
	Mizoram	95	3	1.9	1.7	0.0	5	0.0
	Nagaland	129	4	2.2	2.0	-0.1	42	0.0
	Tripura	295	1	3.9	3.7	0.4	71	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	0.0	-6.8	-14.6
Day peak (MW)	47.3	-322.0	-838.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	160.0	-196.5	111.6	-76.4	0.9	-0.4
Actual(MU)	157.0	-201.2	111.7	-75.7	2.0	-6.3
O/D/U/D(MU)	-3.0	-4.7	0.0	0.7	1.1	-5.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	2995	13816	6852	1745	207	25614
State Sector	11270	15111	8740	4275	50	39446
Total	14265	28927	15592	6020	256	65060

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	515	1182	509	438	9	2654
Lignite	19	15	55	0	0	89
Hydro	115	25	80	29	7	257
Nuclear	24	28	32	0	0	83
Gas, Naptha & Diesel	29	43	18	0	27	118
RES (Wind, Solar, Biomass & Others)	50	47	131	1	0	230
Total	753	1341	825	468	44	3430

Share of RES in total generation (%)	6.64	3.50	15.93	0.29	0.11	6.70
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.10	7.45	29.47	6.47	16.26	16.60

H. Diversity Factor

All India Demand Diversity Factor	1.048
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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 : 24-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	749	0.0	10.4	-10.4	
2		SASARAM-FATEHPUR	S/C	0	413	0.0	6.2	-6.2	
3		GAYA-BALIA	S/C	0	320	0.0	3.5	-3.5	
4		ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0	
5	400 kV	PUSAULI B/B	S/C	2	149	0.0	3.5	-3.5	
6		PUSAULI-VARANASI	S/C	30	104	0.0	1.6	-1.6	
7		PUSAULI -ALLAHABAD	S/C	0	116	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	775	0.0	8.6	-8.6	
9		PATNA-BALIA	Q/C	0	969	0.0	17.1	-17.1	
10		BIHARSHARIFF-BALIA	D/C	0	307	0.0	4.1	-4.1	
11		MOTIHARI-GORAKHPUR	D/C	0	487	0.0	7.7	-7.7	
12		BIHARSHARIFF-VARANASI	D/C	9	272	0.0	2.9	-2.9	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	134	0.0	2.2	-2.2
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	0.6	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>69.9</b>	<b>-68.7</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH S/C	D/C	1510	0	27.8	0.0	27.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	533	553	0.0	0.4	-0.4	
20	400 kV	JHARSUGUDA-RAIGARH	Q/C	237	185	1.0	0.0	1.0	
21		RANCHI-SIPAT	D/C	230	118	0.9	0.0	0.9	
22	220 kV	BUDHIPADAR-RAIGARH	S/C	4	83	0.0	0.9	-0.9	
23		BUDHIPADAR-KORBA	D/C	127	8	1.5	0.0	1.5	
<b>ER-WR</b>						<b>31.1</b>	<b>1.3</b>	<b>29.8</b>	
<b>Import/Export of ER (With SR)</b>									
24	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1800.0	0.0	26.2	-26.2	
25	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	649.0	0.0	16.0	-16.0	
26	LINK	TALCHER-KOLAR BIPOLE	D/C	0.0	1991.0	0.0	48.0	-48.0	
27	400 kV	TALCHER-I/C	D/C	0.0	320.0	0.0	11.5	-11.5	
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>90.1</b>	<b>-90.1</b>	
<b>Import/Export of ER (With NER)</b>									
29	400 kV	BINAGURI-BONGAIGAON	D/C	287	0	5.2	0.0	5	
30		ALIPURDUAR-BONGAIGAON	D/C	420	0	7.8	0.0	8	
31	220 kV	ALIPURDUAR-SALAKATI	D/C	70	11	0.9	0.0	1	
<b>ER-NER</b>						<b>13.9</b>	<b>0.0</b>	<b>13.9</b>	
<b>Import/Export of NER (With NR)</b>									
32	HVDC	BISWANATH CHARIALI-AGRA	-	664	0	16.6	0.0	16.6	
<b>NER-NR</b>						<b>16.6</b>	<b>0.0</b>	<b>16.6</b>	
<b>Import/Export of WR (With NR)</b>									
33	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1008	0.0	22.6	-22.6	
34		V'CHAL B/B	D/C	240	0	6.0	0.0	6.0	
35		APL -MHG	D/C	0	944	0.0	21.8	-21.8	
36		GWALIOR-AGRA	D/C	0	1280	0.0	40.0	-40.0	
37	765 kV	PHAGI-GWALIOR	D/C	0	822	0.0	13.2	-13.2	
38		JABALPUR-ORAI	D/C	0	699	0.0	21.9	-21.9	
39		GWALIOR-ORAI	S/C	505	0	9.2	0.0	9.2	
40		SATNA-ORAI	S/C	0	1274	0.0	24.6	-24.6	
41		400 kV	ZERDA-KANKROLI	S/C	129	167	0.0	0.4	-0.4
42			ZERDA -BHINMAL	S/C	45	299	0.0	3.5	-3.5
43	V'CHAL -RIHAND		S/C	965	0	19.7	0.0	19.7	
44	RAPP-SHUJALPUR		D/C	189	152	0	0	0	
45	220 kV	BADOD-KOTA	S/C	28	48	0.5	0.0	0.5	
46		BADOD-MORAK	S/C	18	128	0.0	1.2	-1.1	
47		MEHGAON-AURAIYA	S/C	98	0	1.2	0.0	1.2	
48		MALANPUR-AURAIYA	S/C	57	32	0.4	0.1	0.4	
49	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>37.4</b>	<b>149.2</b>	<b>-111.8</b>	
<b>Import/Export of WR (With SR)</b>									
50	HVDC	BHADRAWATI B/B	-	0	1002	0.0	24.0	-24.0	
51	LINK	BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
52	765 kV	SOLAPUR-RAICHUR	D/C	37	2059	0.0	23.5	-23.5	
53		WARDHA-NIZAMABAD	D/C	0	2257	0.0	29.4	-29.4	
54	400 kV	KOLHAPUR-KUDGI	D/C	1224	0	16.9	0.0	16.9	
55		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
56	220 kV	PONDA-AMBEWADI	S/C	0	78	0.0	1.3	-1.3	
57		XELDEM-AMBEWADI	S/C	0	58	1.0	0.0	1.0	
<b>WR-SR</b>						<b>17.9</b>	<b>78.2</b>	<b>-60.3</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
58		BHUTAN						<b>0.0</b>	
59		NEPAL						<b>-6.8</b>	
60		BANGLADESH						<b>-14.6</b>	