



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: 19<sup>th</sup> Jan 2020

To,

1. कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, 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., डोंगतेह, 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 18.01.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.5.5.1 के प्रावधान के अनुसार, दिनांक 18-जनवरी-2020 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 18<sup>th</sup> Jan 2020, is available at the NLDC website.

धन्यवाद,

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड  
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting

19-Jan-20

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	Total
Demand Met during Evening Peak hrs(MW) (at 1900 hrs; from RLDCs)	46170	47056	37363	17517	2412	150518
Peak Shortage (MW)	605	0	0	0	27	632
Energy Met (MU)	945	1097	948	346	41	3377
Hydro Gen (MU)	132	39	76	33	7	287
Wind Gen (MU)	5	39	34	-----	-----	78
Solar Gen (MU)*	32.38	24.10	80.43	1.12	0.05	138
Energy Shortage (MU)	12.3	0.0	0.0	0.0	1.2	13.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47614 19:05	53533 11:00	44966 08:18	18623 18:20	2505 17:40	161538 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	0.029	0.00	0.00	2.67	2.67	77.86	19.47

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	5660	0	110.4	57.0	-2.1	73	0.0
	Haryana	6411	125	126.1	93.1	0.7	219	0.0
	Rajasthan	12764	0	230.2	74.9	-1.1	384	0.0
	Delhi	4256	0	73.3	57.4	-0.2	350	0.0
	UP	15744	0	279.8	125.0	-0.6	714	0.5
	Uttarakhand	2082	0	39.6	20.6	0.4	106	0.0
	HP	1694	20	31.3	23.8	1.1	213	0.0
	J&K(UT) and Ladakh(UT)	2317	579	49.5	44.0	0.5	339	11.8
	Chandigarh	258	0	4.3	4.3	0.0	31	0.0
WR	Chhattisgarh	3624	0	72.5	29.7	-1.2	170	0.0
	Gujarat	15611	0	322.1	88.4	2.7	735	0.0
	MP	12701	0	230.2	129.6	-3.1	561	0.0
	Maharashtra	21477	0	431.8	145.1	-1.8	664	0.0
	Goa	488	0	9.3	9.8	-0.6	54	0.0
	DD	321	0	7.2	6.9	0.3	39	0.0
	DNH	778	0	18.1	18.1	0.0	112	0.0
	Essar steel	290	0	6.1	6.1	0.0	221	0.0
	SR	Andhra Pradesh	8441	0	169.5	64.5	-2.3	246
Telangana		10839	0	209.8	103.8	-1.8	466	0.0
Karnataka		12309	0	228.3	62.7	-2.1	622	0.0
Kerala		3569	0	72.3	57.1	1.4	195	0.0
Tamil Nadu		12272	0	262.1	166.9	0.7	524	0.0
Pondy		325	0	6.1	6.7	-0.5	34	0.0
ER	Bihar	4334	0	73.0	74.3	-2.3	315	0.0
	DVC	3092	0	63.5	-35.9	-0.6	243	0.0
	Jharkhand	1298	0	24.3	15.8	-0.8	63	0.0
	Odisha	3682	0	68.4	5.7	0.0	313	0.0
	West Bengal	6385	0	116.0	22.2	0.2	301	0.0
	Sikkim	140	0	1.2	1.6	-0.4	42	0.0
NER	Arunachal Pradesh	122	2	2.2	2.3	-0.3	30	0.0
	Assam	1364	10	22.6	19.5	0.6	84	0.4
	Manipur	216	4	2.6	3.1	-0.5	47	0.0
	Meghalaya	394	0	6.1	3.1	0.8	84	0.8
	Mizoram	104	1	1.6	1.5	-0.2	22	0.0
	Nagaland	125	3	2.3	2.0	0.1	18	0.0
Tripura	220	2	3.5	1.7	-0.4	24	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.0	-6.4	-8.7
Day peak (MW)	458.7	-254.9	-765.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.7	-248.3	119.5	-111.0	3.4	0.3
Actual(MU)	223.2	-256.3	140.0	-115.6	4.7	-4.1
O/D/U/D(MU)	-13.6	-8.0	20.5	-4.7	1.4	-4.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6004	13718	7062	1710	652	29145
State Sector	12760	17701	8270	4550	11	43292
Total	18764	31418	15332	6260	663	72437

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	463	1183	479	454	11	2591
Lignite	19	16	46	0	0	81
Hydro	132	39	76	33	7	287
Nuclear	24	27	45	0	0	97
Gas, Naptha & Diesel	32	30	18	0	22	102
RES (Wind, Solar, Biomass & Others)	66	71	157	1	0	295
Total	737	1367	821	488	41	3453

Share of RES in total generation (%)	8.98	5.21	19.12	0.24	0.12	8.56
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.16	10.08	33.89	6.95	17.70	19.67

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.035
Based on State Max Demands	1.088

Diversity factor = Sum of regional or state-wise 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 : 19-Jan-20

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>								
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	300	0.0	7.3	-7.3
1	765kV	GAYA-VARANASI	D/C	0	1052	0.0	11.4	-11.4
2		SASARAM-FATEHPUR	S/C	0	458	0.0	5.5	-5.5
3		GAYA-BALIA	S/C	0	597	0.0	7.2	-7.2
6	400 kV	PUSAULI-VARANASI	S/C	0	221	0.0	4.1	-4.1
7		PUSAULI -ALLAHABAD	S/C	0	185	0.0	3.0	-3.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	1021	0.0	12.7	-12.7
9		PATNA-BALIA	Q/C	0	1043	0.0	16.9	-16.9
10		BIHARSHARIFF-BALIA	D/C	0	534	0.0	6.1	-6.1
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	35	482	0.0	4.3	-4.3
13	220 kV	PUSAULI-SAHUPURI	S/C	5	100	0.0	1.1	-1.1
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6
16		KARMANASA-SAHUPURI	S/C	0	0	0.0	0.0	0.0
17		KARMANASA-CHANDAULI	S/C	0	0	0.0	0.0	0.0
<b>ER-NR</b>						<b>0.6</b>	<b>72.3</b>	<b>-71.7</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1105	0	15.6	0.0	15.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	443	422	0.0	2.2	-2.2
20		JHARSUGUDA-DURG	D/C	146	269	0.0	2.7	-2.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	185	227	0.0	0.3	-0.3
22		RANCHI-SIPAT	D/C	179	128	0.0	0.2	-0.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	100	0.0	1.3	-1.3
24		BUDHIPADAR-KORBA	D/C	126	0	1.9	0.0	1.9
<b>ER-WR</b>						<b>17.5</b>	<b>6.6</b>	<b>10.9</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	529.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1977.0	0.0	35.5	-35.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2654.0	0.0	54.1	-54.1
28	400 kV	TALCHER-I/C	D/C	906.0	234.0	4.6	0.0	4.6
29	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>101.8</b>	<b>-101.8</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	198	68	2.2	0.0	2
31		ALIPURDUAR-BONGAIGAON	D/C	330	99	3.8	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	56	43	0.5	0.0	0
<b>ER-NER</b>						<b>6.5</b>	<b>0.0</b>	<b>6.5</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.7	0.0	11.7
<b>NER-NR</b>						<b>11.7</b>	<b>0.0</b>	<b>11.7</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2353	0.0	49.7	-49.7
35		VCHAL B/B	D/C	360	0	9.7	0.0	9.7
36		APL -MHG	D/C	0	1927	0.0	39.4	-39.4
37	765 kV	GWALIOR-AGRA	D/C	0	2555	0.0	41.7	-41.7
38		PHAGI-GWALIOR	D/C	0	1494	0.0	21.4	-21.4
39		JABALPUR-ORAI	D/C	0	877	0.0	27.2	-27.2
40		GWALIOR-ORAI	S/C	697	0	11.1	0.0	11.1
41		SATNA-ORAI	S/C	0	1300	0.0	25.8	-25.8
42		CHITTORGARH-BANASKANTHA	D/C	387	895	0.0	3.5	-3.5
43		ZERDA-KANKROLI	S/C	173	109	0.5	0.0	0.5
44	400 kV	ZERDA -BHINMAL	S/C	100	395	0.0	3.7	-3.7
45		VCHAL -RIHAND	S/C	978	0	22.6	0.0	22.6
46		RAPP-SHUJALPUR	D/C	169	340	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	18	73	0.4	0.5	-0.1
48		BHANPURA-MORAK	S/C	30	108	0.1	1.1	-1.0
49		MEHGAON-AURAIYA	S/C	98	0	1.0	0.0	1.0
50	132kV	MALANPUR-AURAIYA	S/C	57	24	0.4	0.1	0.3
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>45.8</b>	<b>214.8</b>	<b>-169.0</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	512	0.0	12.2	-12.2
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2072	0.0	29.9	-29.9
55		WARDHA-NIZAMABAD	D/C	0	2456	0.0	42.6	-42.6
56	400 kV	KOLHAPUR-KUDGI	D/C	869	40	6.7	0.0	6.7
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	1	98	1.2	0.0	1.2
<b>WR-SR</b>						<b>7.9</b>	<b>84.7</b>	<b>-76.8</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>4.0</b>
61		NEPAL						<b>-6.4</b>
62		BANGLADESH						<b>-8.7</b>