



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: 18<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., 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 17.01.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-जनवरी-2020 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 17<sup>th</sup> Jan 2020, 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

18-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)	47543	46662	38222	18203	2396	153026
Peak Shortage (MW)	631	0	0	0	29	660
Energy Met (MU)	927	1099	934	348	40	3349
Hydro Gen (MU)	126	39	86	32	7	290
Wind Gen (MU)	2	28	23	-----	-----	54
Solar Gen (MU)*	30.25	23.00	91.30	1.35	0.05	146
Energy Shortage (MU)	12.8	0.0	0.0	0.0	1.2	14.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47895 18:48	53578 10:28	45589 09:26	18130 18:57	2431 17:36	162874 09:56

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	0.043	0.00	1.17	9.14	10.31	76.48	13.21

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	5868	0	111.6	56.7	-1.1	87	0.0
	Haryana	6575	0	125.3	93.2	0.6	265	0.0
	Rajasthan	12857	0	228.1	74.2	0.1	410	0.0
	Delhi	4590	0	77.3	62.3	0.8	264	0.0
	UP	15494	85	260.9	114.6	-1.6	599	1.1
	Uttarakhand	1998	0	39.1	20.6	-0.1	108	0.0
	HP	1682	10	31.1	23.2	1.5	250	0.0
	J&K(UT) and Ladakh(UT)	2614	653	49.6	41.9	2.3	565	11.7
	Chandigarh	288	0	4.6	4.5	0.0	40	0.0
WR	Chhattisgarh	3689	0	79.3	26.1	-1.0	301	0.0
	Gujarat	15466	0	322.9	90.5	5.0	545	0.0
	MP	12464	0	225.0	122.3	-2.8	936	0.0
	Maharashtra	21302	0	431.4	137.0	-1.0	413	0.0
	Goa	480	0	9.5	9.6	-0.4	27	0.0
	DD	329	0	7.3	6.7	0.6	52	0.0
	DNH	772	0	18.0	18.0	0.0	52	0.0
	Essar steel	309	0	5.8	5.9	-0.1	256	0.0
	SR	Andhra Pradesh	8597	0	167.5	62.1	0.0	351
Telangana		10677	0	209.8	112.3	-0.1	766	0.0
Karnataka		13169	0	233.0	65.1	-1.3	535	0.0
Kerala		3608	0	71.4	56.5	0.5	205	0.0
Tamil Nadu		11660	0	246.6	148.4	0.0	626	0.0
Pondy		271	0	5.4	6.3	-0.9	22	0.0
ER		Bihar	4164	0	74.2	74.2	-1.1	205
	DVC	3328	0	63.4	-34.5	-0.4	215	0.0
	Jharkhand	1294	0	25.2	16.0	-0.3	110	0.0
	Odisha	3940	0	67.9	5.6	0.9	315	0.0
	West Bengal	6276	0	115.0	20.8	2.0	310	0.0
	Sikkim	134	0	2.0	1.9	0.1	20	0.0
NER	Arunachal Pradesh	124	1	2.2	2.4	-0.3	14	0.0
	Assam	1326	10	22.0	19.0	0.2	73	0.3
	Manipur	210	3	2.8	3.1	-0.3	24	0.0
	Meghalaya	372	0	6.0	3.2	0.7	78	0.9
	Mizoram	103	1	1.6	1.6	-0.3	24	0.0
	Nagaland	126	3	2.3	2.1	0.0	31	0.0
Tripura	224	0	3.6	1.9	-0.4	21	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.9	-6.7	-7.2
Day peak (MW)	607.9	-451.2	-561.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.3	-251.2	119.7	-98.3	3.4	0.0
Actual(MU)	225.3	-264.6	133.9	-99.9	3.4	-1.8
O/D/U/D(MU)	-1.0	-13.4	14.2	-1.6	0.0	-1.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5135	15258	7052	1570	698	29713
State Sector	12490	17032	8270	4350	11	42153
Total	17625	32290	15322	5920	710	71866

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	461	1199	454	443	12	2568
Lignite	21	15	47	0	0	83
Hydro	126	39	86	32	7	290
Nuclear	24	21	45	0	0	89
Gas, Naptha & Diesel	31	33	18	0	23	104
RES (Wind, Solar, Biomass & Others)	61	57	157	1	0	277
Total	724	1364	805	477	42	3412

Share of RES in total generation (%)	8.45	4.21	19.46	0.29	0.12	8.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.24	8.58	35.64	7.06	17.13	19.24

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.083

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 : 18-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	299	0.0	7.2	-7.2
1	765kV	GAYA-VARANASI	D/C	0	940	0.0	10.8	-10.8
2		SASARAM-FATEHPUR	S/C	24	444	0.0	4.8	-4.8
3		GAYA-BALIA	S/C	0	602	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	S/C	0	219	0.0	4.1	-4.1
7		PUSAULI -ALLAHABAD	S/C	0	176	0.0	2.9	-2.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	986	0.0	11.4	-11.4
9		PATNA-BALIA	Q/C	0	958	0.0	14.2	-14.2
10		BIHARSHARIFF-BALIA	D/C	0	513	0.0	6.3	-6.3
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	33	465	0.0	4.0	-4.0
13	220 kV	PUSAULI-SAHUPURI	S/C	5	95	0.0	1.2	-1.2
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>68.2</b>	<b>-67.6</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5663	0	18.0	0.0	18.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	341	374	0.0	0.5	-0.5
20		JHARSUGUDA-DURG	D/C	200	280	0.0	2.9	-2.9
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	133	143	0.0	0.1	-0.1
22		RANCHI-SIPAT	D/C	142	91	0.7	0.0	0.7
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	101	0.0	1.5	-1.5
24		BUDHIPADAR-KORBA	D/C	149	0	2.5	0.0	2.5
<b>ER-WR</b>						<b>21.2</b>	<b>5.0</b>	<b>16.2</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	529.0	0.0	10.8	-10.8
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	33.1	-33.1
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	3069.0	0.0	52.9	-52.9
28	400 kV	TALCHER-I/C	D/C	1057.0	631.0	7.0	0.0	7.0
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>96.8</b>	<b>-96.8</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	176	87	2.7	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	299	40	4.4	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	54	30	0.6	0.0	1
<b>ER-NER</b>						<b>7.7</b>	<b>0.0</b>	<b>7.7</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	469	0	11.6	0.0	11.6
<b>NER-NR</b>						<b>11.6</b>	<b>0.0</b>	<b>11.6</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1862	0.0	37.7	-37.7
35		V'CHAL B/B	D/C	449	0	9.0	0.0	9.0
36		APL -MHG	D/C	0	1925	0.0	39.3	-39.3
37	765 kV	GWALIOR-AGRA	D/C	0	2476	0.0	44.9	-44.9
38		PHAGI-GWALIOR	D/C	0	1667	0.0	21.4	-21.4
39		JABALPUR-ORAI	D/C	0	921	0.0	28.1	-28.1
40		GWALIOR-ORAI	S/C	650	0	7.0	0.0	7.0
41		SATNA-ORAI	S/C	0	1347	0.0	23.3	-23.3
42		CHITTORGARH-BANASKANTHA	D/C	313	780	0.0	3.2	-3.2
43		ZERDA-KANKROLI	S/C	154	136	0.5	0.0	0.5
44	400 kV	ZERDA -BHINMAL	S/C	46	422	3.4	0.0	3.4
45		V'CHAL -RIHAND	S/C	970	0	22.2	0.0	22.2
46		RAPP-SHUJALPUR	D/C	124	395	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	14	82	0.1	0.1	-0.1
48		BHANPURA-MORAK	S/C	67	110	0.3	0.7	-0.4
49		MEHGAON-AURAIYA	S/C	96	0	1.0	0.0	1.0
50	132kV	MALANPUR-AURAIYA	S/C	63	18	0.5	0.0	0.5
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>44.0</b>	<b>199.9</b>	<b>-155.9</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	12.7	-12.7
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2228	0.0	28.7	-28.7
55		WARDHA-NIZAMABAD	D/C	0	2622	0.0	43.6	-43.6
56	400 kV	KOLHAPUR-KUDGI	D/C	716	80	7.0	0.0	7.0
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	85	1.6	0.0	1.6
<b>WR-SR</b>						<b>8.6</b>	<b>85.0</b>	<b>-76.5</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>3.9</b>
61		NEPAL						<b>-6.7</b>
62		BANGLADESH						<b>-7.2</b>