



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: 9<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 08.01.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 08<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

9-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)	47439	46086	38755	17364	2365	152009
Peak Shortage (MW)	704	0	0	0	34	738
Energy Met (MU)	940	1102	965	342	41	3391
Hydro Gen (MU)	108	40	83	32	8	271
Wind Gen (MU)	7	41	35	-----	-----	83
Solar Gen (MU)*	23.92	20.10	77.10	1.26	0.03	122
Energy Shortage (MU)	12.3	0.0	0.0	0.0	0.7	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47323 19:00	52829 11:06	46290 07:57	16939 18:17	2431 18:58	159710 09:54

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	0.039	0.00	0.90	5.61	6.52	75.56	17.93

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	5748	0	112.6	57.4	-1.4	12	0.0
	Haryana	6531	0	120.2	74.9	0.1	202	0.0
	Rajasthan	12950	79	239.0	75.5	-0.8	430	0.0
	Delhi	4282	0	74.7	63.4	-0.2	324	0.0
	UP	14413	0	269.2	103.8	-2.4	620	0.0
	Uttarakhand	2153	0	40.1	23.5	-0.6	81	0.0
	HP	1608	0	27.9	23.3	-0.6	137	0.0
	J&K(UT) and Ladakh(UT)	2696	674	51.9	45.8	0.6	449	12.3
	Chandigarh	278	0	4.7	4.5	0.3	38	0.0
WR	Chhattisgarh	3597	0	74.2	20.4	-1.3	311	0.0
	Gujarat	15183	0	320.9	92.2	-0.5	747	0.0
	MP	12574	0	227.7	119.5	-3.4	834	0.0
	Maharashtra	21599	0	436.9	145.7	-1.9	494	0.0
	Goa	493	0	10.4	10.1	-0.3	37	0.0
	DD	326	0	7.3	6.8	0.5	61	0.0
	DNH	803	0	18.9	18.9	0.0	55	0.0
	Essar steel	298	0	5.9	6.3	-0.4	240	0.0
	Andhra Pradesh	7990	0	166.8	62.1	-0.8	245	0.0
SR	Telangana	10744	0	209.4	112.8	0.4	462	0.0
	Karnataka	11803	0	216.7	57.4	-0.5	569	0.0
	Kerala	3335	0	66.7	55.0	1.2	185	0.0
	Tamil Nadu	14372	0	298.3	155.8	0.5	440	0.0
	Pondy	327	0	6.9	7.3	-0.4	27	0.0
	Bihar	4457	0	79.5	77.9	0.2	217	0.0
ER	DVC	3142	0	63.6	-29.2	-0.6	205	0.0
	Jharkhand	1333	0	25.6	16.7	-0.3	130	0.0
	Odisha	3533	0	64.6	3.1	0.3	210	0.0
	West Bengal	5533	0	106.8	26.5	-0.2	250	0.0
	Sikkim	149	0	2.1	2.0	0.2	57	0.0
	Arunachal Pradesh	114	2	2.1	1.9	0.2	23	0.0
NER	Assam	1312	16	22.0	19.2	0.3	99	0.2
	Manipur	201	2	2.6	3.1	-0.5	14	0.0
	Meghalaya	372	0	6.5	3.1	0.8	79	0.5
	Mizoram	100	0	1.8	1.4	0.1	26	0.0
	Nagaland	128	1	2.2	2.1	-0.2	22	0.0
	Tripura	217	0	3.9	2.5	0.8	62	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-9.1	-10.1
Day peak (MW)	601.7	-562.1	-766.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.2	-259.8	126.2	-82.3	1.1	-0.5
Actual(MU)	211.3	-271.9	140.8	-80.5	3.3	2.9
O/D/U/D(MU)	-2.9	-12.2	14.6	1.8	2.1	3.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4093	14894	7482	2310	698	29478
State Sector	10096	16347	7860	5650	11	39965
Total	14189	31242	15342	7960	710	69442

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	522	1207	490	419	13	2651
Lignite	19	14	44	0	0	77
Hydro	108	40	83	32	8	271
Nuclear	29	28	40	0	0	97
Gas, Naptha & Diesel	23	36	18	0	21	99
RES (Wind, Solar, Biomass & Others)	59	69	161	1	0	289
Total	760	1394	835	452	43	3484

Share of RES in total generation (%)	7.71	4.95	19.23	0.29	0.07	8.31
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	25.74	9.80	33.93	7.46	18.59	18.86

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.038
Based on State Max Demands	1.094

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 : 9-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	501	0.0	12.0	-12.0
5		PUSAULI B/B	S/C	0	297	0.0	7.7	-7.7
1	765kV	GAYA-VARANASI	D/C	162	603	0.0	5.0	-5.0
2		SASARAM-FATEHPUR	S/C	155	245	0.0	0.3	-0.3
3		GAYA-BALIA	S/C	0	548	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	S/C	0	275	0.0	6.0	-6.0
7		PUSAULI -ALLAHABAD	S/C	0	96	0.0	1.5	-1.5
8		MUZAFFARPUR-GORAKHPUR	D/C	165	490	0.0	2.3	-2.3
9		PATNA-BALIA	Q/C	0	1105	0.0	16.2	-16.2
10		BIHARSHARIFF-BALIA	D/C	0	515	0.0	6.5	-6.5
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	196	155	1.8	0.0	1.8
13		220 kV	PUSAULI-SAHUPURI	S/C	0	129	0.0	2.6
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
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>2.4</b>	<b>48.6</b>	<b>-46.2</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1657	0	20.6	0.0	20.6
19		NEW RANCHI-DHARAMJAIGARH	D/C	610	0	8.4	0.0	8.4
20		JHARSUGUDA-DURG	D/C	166	247	0.5	0.3	0.2
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	303	141	1.9	0.0	1.9
22		RANCHI-SIPAT	D/C	251	0	3.5	0.0	3.5
23	220 kV	BUDHIPADAR-RAIGARH	S/C	35	85	0.0	0.7	-0.7
24		BUDHIPADAR-KORBA	D/C	226	0	3.8	0.0	3.8
<b>ER-WR</b>						<b>38.7</b>	<b>0.9</b>	<b>37.8</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	666.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2469.0	0.0	45.5	-45.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1804.0	0.0	32.6	-32.6
28	400 kV	TALCHER-I/C	D/C	999.0	1394.0	0.0	7.2	-7.2
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>94.2</b>	<b>-94.2</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	333	0.0	4.8	-5
31		ALIPURDUAR-BONGAIGAON	D/C	226	111	1.2	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	10	57	0.0	0.6	-1
<b>ER-NER</b>						<b>1.2</b>	<b>5.4</b>	<b>-4.2</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0
<b>NER-NR</b>						<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2229	0.0	44.9	-44.9
35		V'CHAL B/B	D/C	448	489	0.5	0.0	0.5
36		APL -MHG	D/C	0	1553	0.0	35.6	-35.6
37	765 kV	GWALIOR-AGRA	D/C	0	2176	0.0	36.4	-36.4
38		PHAGI-GWALIOR	D/C	0	1316	0.0	14.9	-14.9
39		JABALPUR-ORAI	D/C	0	720	0.0	22.2	-22.2
40		GWALIOR-ORAI	S/C	619	0	9.6	0.0	9.6
41		SATNA-ORAI	S/C	0	1329	0.0	27.5	-27.5
42		CHITTORGARH-BANASKANTHA	D/C	357	511	0.0	1.6	-1.6
43	400 kV	ZERDA-KANKROLI	S/C	170	87	1.5	0.0	1.5
44		ZERDA -BHINMAL	S/C	109	354	0.0	1.8	-1.8
45		V'CHAL -RIHAND	S/C	978	0	22.8	0.0	22.8
46		RAPP-SHUJALPUR	D/C	224	206	1	0	1
47	220 kV	BHANPURA-RANPUR	S/C	22	63	0.7	0.1	0.6
48		BHANPURA-MORAK	S/C	40	82	0.2	0.7	-0.5
49		MEHGAON-AURAIYA	S/C	85	14	0.9	0.0	0.9
50	132kV	MALANPUR-AURAIYA	S/C	42	24	0.2	0.1	0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>37.7</b>	<b>185.7</b>	<b>-147.9</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	1016	0.0	22.3	-22.3
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	180	2084	0.0	30.2	-30.2
55		WARDHA-NIZAMABAD	D/C	0	2492	0.0	37.2	-37.2
56	400 kV	KOLHAPUR-KUDGI	D/C	434	99	3.4	0.0	3.4
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	90	1.7	0.0	1.7
<b>WR-SR</b>						<b>5.2</b>	<b>89.7</b>	<b>-84.5</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>4.5</b>
61		NEPAL						<b>-9.1</b>
62		BANGLADESH						<b>-10.1</b>