



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: 31<sup>st</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 30.01.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 30-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 30<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

31-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)	46527	48581	42411	18472	2403	158394
Peak Shortage (MW)	592	0	0	0	47	639
Energy Met (MU)	938	1165	1040	367	43	3553
Hydro Gen (MU)	132	43	98	34	5	312
Wind Gen (MU)	13	26	18	-----	-----	57
Solar Gen (MU)*	37.11	26.70	95.66	1.14	0.20	161
Energy Shortage (MU)	10.9	0.0	0.0	0.0	1.1	12.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48012 09:12	55851 10:33	48461 11:27	18700 19:02	2500 18:22	170363 13:51

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	0.031	0.00	0.10	5.46	5.57	81.79	12.64

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	5595	0	106.9	52.3	-1.1	25	0.0
	Haryana	6357	0	124.0	85.7	0.5	193	0.0
	Rajasthan	13733	0	240.9	60.7	-1.4	362	0.0
	Delhi	4079	0	71.1	56.1	-1.5	179	0.0
	UP	15497	0	271.2	106.7	-0.4	740	0.0
	Uttarakhand	2208	0	39.3	25.6	-0.2	228	0.0
	HP	1714	0	30.8	22.8	0.9	193	0.0
	J&K(UT) and Ladakh(UT)	2404	601	49.9	44.3	0.2	250	10.9
	Chandigarh	264	0	4.1	4.1	0.1	27	0.0
WR	Chhattisgarh	3826	0	83.2	36.9	-0.2	977	0.0
	Gujarat	15590	0	327.8	84.4	1.5	331	0.0
	MP	14118	0	258.0	138.3	-3.3	1857	0.0
	Maharashtra	22417	0	454.7	146.7	-2.0	3477	0.0
	Goa	485	0	10.0	10.2	-0.5	33	0.0
	DD	323	0	7.3	7.1	0.2	41	0.0
	DNH	806	0	18.7	18.7	0.0	32	0.0
	Essar steel	688	0	5.5	5.8	-0.3	264	0.0
	SR	Andhra Pradesh	9605	0	191.8	67.1	0.6	576
Telangana		11300	0	219.4	112.9	-1.0	817	0.0
Karnataka		12745	0	239.4	64.3	-0.7	675	0.0
Kerala		3716	0	74.1	53.4	1.2	237	0.0
Tamil Nadu		14537	0	308.0	162.4	-1.9	428	0.0
Pondy		358	0	7.4	7.6	-0.2	64	0.0
ER		Bihar	4367	0	80.6	78.5	0.6	420
	DVC	3293	0	66.3	-37.6	-0.6	210	0.0
	Jharkhand	1299	0	26.1	16.5	0.2	100	0.0
	Odisha	3803	0	71.2	6.4	0.0	180	0.0
	West Bengal	6430	0	120.5	27.2	-0.1	300	0.0
	Sikkim	126	0	2.0	1.9	0.1	35	0.0
NER	Arunachal Pradesh	119	1	2.1	2.1	-0.1	54	0.0
	Assam	1351	23	24.1	19.6	1.9	98	0.8
	Manipur	181	2	2.6	3.1	-0.5	28	0.0
	Meghalaya	373	1	6.5	6.0	-0.2	345	0.3
	Mizoram	110	0	1.6	1.6	-0.3	24	0.0
	Nagaland	115	2	2.1	2.0	-0.1	16	0.0
	Tripura	234	8	3.9	1.8	-0.1	31	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.8	-10.0	-10.4
Day peak (MW)	388.1	-554.0	-854.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	213.7	-238.6	121.8	-104.4	6.9	-0.6
Actual(MU)	194.7	-255.6	150.4	-99.1	8.1	-1.4
O/D/U/D(MU)	-19.0	-16.9	28.7	5.3	1.2	-0.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6457	14783	8272	2220	613	32345
State Sector	11735	15305	6590	3950	11	37591
Total	18192	30088	14862	6170	625	69936

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	478	1238	545	459	12	2732
Lignite	24	15	50	0	0	89
Hydro	132	43	98	34	5	312
Nuclear	24	33	40	0	0	97
Gas, Naptha & Diesel	26	38	18	0	22	105
RES (Wind, Solar, Biomass & Others)	80	60	148	1	0	289
Total	764	1427	898	494	40	3623

Share of RES in total generation (%)	10.45	4.19	16.47	0.23	0.51	7.97
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.86	9.49	31.80	7.20	12.79	19.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.081

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 :	31-Jan-20
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for 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	7.5	-7.5	
1	765kV	GAYA-VARANASI	D/C	72	851	0.0	9.0	-9.0	
2		SASARAM-FATEHPUR	S/C	55	333	0.0	4.3	-4.3	
3		GAYA-BALIA	S/C	0	548	0.0	8.1	-8.1	
6	400 kV	PUSAULI-VARANASI	S/C	0	233	0.0	4.6	-4.6	
7		PUSAULI -ALLAHABAD	S/C	0	157	0.0	2.7	-2.7	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	732	0.0	9.1	-9.1	
9		PATNA-BALIA	Q/C	0	741	0.0	14.7	-14.7	
10		BIHARSHARIFF-BALIA	D/C	0	359	0.0	5.3	-5.3	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	127	253	0.0	1.8	-1.8	
13	220 kV	PUSAULI-SAHUPURI	S/C	42	40	0.0	0.1	-0.1	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.7	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>0.7</b>	<b>59.7</b>	<b>-59.0</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1672	0	22.7	0.0	22.7	
19		NEW RANCHI-DHARAMJAIGARH	D/C	537	382	1.2	0.0	1.2	
20		JHARSUGUDA-DURG	D/C	91	148	0.0	0.9	-0.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	78	364	0.0	3.2	-3.2	
22		RANCHI-SIPAT	D/C	207	136	0.4	0.0	0.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	1	104	0.0	1.3	-1.3	
24		BUDHIPADAR-KORBA	D/C	152	0	2.3	0.0	2.3	
						<b>ER-WR</b>	<b>26.6</b>	<b>5.3</b>	<b>21.2</b>
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	533.0	0.0	12.3	-12.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1984.0	0.0	47.9	-47.9	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2683.0	0.0	47.8	-47.8	
28	400 kV	TALCHER-I/C	D/C	0.0	963.0	0.0	5.2	-5.2	
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>108.0</b>	<b>-108.0</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	175	94	1.0	0.0	1	
31		ALIPURDUAR-BONGAIGAON	D/C	272	104	1.9	0.0	2	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	60	34	0.4	0.0	0	
						<b>ER-NER</b>	<b>3.3</b>	<b>0.0</b>	<b>3.3</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	477	0	12.3	0.0	12.3	
						<b>NER-NR</b>	<b>12.3</b>	<b>0.0</b>	<b>12.3</b>
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2302	0.0	31.4	-31.4	
35		V'CHAL B/B	D/C	447	0	12.1	0.0	12.1	
36	765 kV	APL -MHG	D/C	0	1927	0.0	46.9	-46.9	
37		GWALIOR-AGRA	D/C	0	2619	0.0	42.9	-42.9	
38		PHAGI-GWALIOR	D/C	0	1433	0.0	19.7	-19.7	
39		JABALPUR-ORAI	D/C	0	878	0.0	27.8	-27.8	
40		GWALIOR-ORAI	S/C	696	0	11.6	0.0	11.6	
41		SATNA-ORAI	S/C	0	1447	0.0	29.2	-29.2	
42		CHITTORGARH-BANASKANTHA	D/C	631	538	2.8	3.5	-0.7	
43	400 kV	ZERDA-KANKROLI	S/C	274	69	1.6	0.0	1.6	
44		ZERDA -BHINMAL	S/C	421	219	0.0	0.0	0.0	
45		V'CHAL -RIHAND	S/C	975	0	22.7	0.0	22.7	
46	220 kV	RAPP-SHUJALPUR	D/C	308	325	2	2	0	
47		BHANPURA-RANPUR	S/C	42	75	0.5	0.5	0.1	
48		BHANPURA-MORAK	S/C	42	114	0.1	1.3	-1.2	
49		MEHGAON-AURAIYA	S/C	105	0	1.3	0.0	1.3	
50	132kV	MALANPUR-AURAIYA	S/C	58	30	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>54.9</b>	<b>205.0</b>	<b>-150.2</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	1006	0.0	23.8	-23.8	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	256	2091	0.2	25.9	-25.7	
55		WARDHA-NIZAMABAD	D/C	0	2687	0.0	40.4	-40.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	559	91	4.3	0.1	4.2	
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	86	1.5	0.0	1.5	
						<b>WR-SR</b>	<b>6.0</b>	<b>90.2</b>	<b>-84.2</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						2.8	
61		NEPAL						-10.0	
62		BANGLADESH						-10.4	