



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: 22<sup>nd</sup> Feb 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 21.02.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-फरवरी-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 21<sup>st</sup> Feb 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 22-Feb-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)	43079	48202	48365	18259	2317	160222
Peak Shortage (MW)	600	0	0	0	55	655
Energy Met (MU)	873	1225	1089	370	41	3599
Hydro Gen (MU)	133	43	88	27	4	294
Wind Gen (MU)	21	59	69	-----	-----	148
Solar Gen (MU)*	34.88	26.00	95.69	1.35	0.02	158
Energy Shortage (MU)	11.9	0.0	0.0	0.0	1.0	12.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45658 09:55	59385 11:10	51878 10:21	18588 18:45	2377 19:12	174553 10:15

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	0.01	0.63	6.78	7.42	76.23	16.35

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	5310	0	105.7	66.2	-1.6	163	0.0
	Haryana	6032	0	107.8	74.7	0.7	429	0.0
	Rajasthan	13730	0	248.9	63.2	-0.9	353	0.0
	Delhi	4141	0	64.3	49.1	-1.4	162	0.0
	UP	13034	0	234.2	92.1	-2.0	612	0.0
	Uttarakhand	1738	0	32.8	14.6	-1.0	214	0.0
	HP	1544	0	26.2	19.3	-0.5	192	0.0
	J&K(UT) and Ladakh(UT)	2499	625	50.2	43.9	0.2	229	11.9
	Chandigarh	224	0	3.4	3.2	0.1	39	0.0
WR	Chhattisgarh	4026	0	88.7	43.0	0.2	277	0.0
	Gujarat	15652	0	334.7	92.6	3.7	552	0.0
	MP	14184	0	264.2	138.4	-3.8	668	0.0
	Maharashtra	23511	0	491.7	149.8	-1.5	433	0.0
	Goa	477	0	10.6	10.4	-0.3	29	0.0
	DD	309	0	5.9	5.6	0.3	55	0.0
	DNH	785	0	18.4	18.3	0.1	56	0.0
	Essar steel	773	0	10.8	10.2	0.6	259	0.0
	Andhra Pradesh	9936	0	194.6	66.6	-0.3	349	0.0
SR	Telangana	12743	0	254.3	141.2	0.4	576	0.0
	Karnataka	13001	0	243.4	82.9	-1.6	509	0.0
	Kerala	3609	0	74.7	56.3	1.5	224	0.0
	Tamil Nadu	14508	0	314.8	163.1	-0.1	531	0.0
	Pondy	375	0	7.7	7.9	-0.3	34	0.0
	Bihar	4042	0	76.2	74.6	-0.1	380	0.0
ER	DVC	3121	0	66.2	-33.4	-0.4	235	0.0
	Jharkhand	1243	0	24.5	20.0	-1.0	103	0.0
	Odisha	3636	0	71.5	2.5	-1.2	223	0.0
	West Bengal	6754	0	130.0	28.9	-0.9	337	0.0
	Sikkim	129	0	1.8	1.8	0.0	36	0.0
	Arunachal Pradesh	119	1	2.1	2.0	-0.1	92	0.0
NER	Assam	1359	35	22.9	19.9	0.1	93	0.7
	Manipur	199	1	2.8	2.8	0.0	24	0.0
	Meghalaya	361	0	6.1	5.0	0.1	54	0.2
	Mizoram	91	1	1.6	1.5	0.0	14	0.0
	Nagaland	129	1	2.1	2.0	0.0	52	0.0
	Tripura	223	0	3.4	1.8	-0.2	40	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-10.3	-8.0
Day peak (MW)	368.6	-487.0	-585.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	176.9	-248.1	146.5	-88.7	13.3	-0.2
Actual(MU)	155.4	-256.5	166.2	-90.0	16.1	-8.9
O/D/U/D(MU)	-21.6	-8.4	19.7	-1.3	2.8	-8.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5893	12593	5052	1160	1125	25823
State Sector	14020	14903	8285	4630	11	41849
Total	19913	27495	13337	5790	1136	67671

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	440	1239	523	459	12	2672
Lignite	27	17	51	0	0	94
Hydro	133	43	88	27	4	294
Nuclear	19	37	45	0	0	100
Gas, Naptha & Diesel	37	46	16	0	14	114
RES (Wind, Solar, Biomass & Others)	81	100	205	1	0	388
Total	737	1481	928	487	30	3663

Share of RES in total generation (%)	11.03	6.75	22.13	0.29	0.07	10.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.59	12.11	36.41	5.80	13.71	21.36

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.052

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 : 22-Feb-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	251	0.0	5.9	-5.9	
1	765kV	GAYA-VARANASI	D/C	262	862	0.0	8.4	-8.4	
2		SASARAM-FATEHPUR	S/C	213	222	0.0	1.0	-1.0	
3	400 kV	GAYA-BALIA	S/C	0	405	0.0	2.4	-2.4	
6		PUSAULI-VARANASI	S/C	0	231	0.0	4.3	-4.3	
7		PUSAULI -ALLAHABAD	S/C	0	107	0.0	1.6	-1.6	
8		MUZAFFARPUR-GORAKHPUR	D/C	290	227	1.0	0.0	1.0	
9		PATNA-BALIA	Q/C	99	688	0.0	7.2	-7.2	
10		BIHARSHARIFF-BALIA	D/C	108	334	0.0	2.9	-2.9	
11		MOTIHARI-GORAKHPUR	D/C	0	483	0.0	7.2	-7.2	
12		BIHARSHARIFF-VARANASI	D/C	276	199	1.0	0.0	1.0	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	152	0.0	2.9	-2.9
14		132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15	GARWAH-RIHAND		S/C	30	0	0.4	0.0	0.4	
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>2.3</b>	<b>43.6</b>	<b>-41.3</b>	
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	2127	0	32.8	0.0	32.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1016	0	14.4	0.0	14.4	
20		JHARSUGUDA-DURG	D/C	142	52	1.1	0.0	1.1	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	94	356	0.0	4.5	-4.5	
22		RANCHI-SIPAT	D/C	324	0	5.6	0.0	5.6	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	96	0	1.2	0.0	1.2	
<b>ER-WR</b>						<b>55.1</b>	<b>4.5</b>	<b>50.6</b>	
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	668.0	0.0	16.2	-16.2	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2462.0	0.0	50.2	-50.2	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2836.0	0.0	54.4	-54.4	
28	400 kV	TALCHER-I/C	D/C	150.0	1070.0	0.0	7.5	-7.5	
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>120.8</b>	<b>-120.8</b>	
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	546	0.0	9.9	-10	
31		ALIPURDUAR-BONGAIGAON	D/C	0	821	0.0	15.0	-15	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	160	0.0	2.5	-2	
<b>ER-NER</b>						<b>0.0</b>	<b>27.3</b>	<b>-27.3</b>	
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	504	0.0	10.7	-10.7	
<b>NER-NR</b>						<b>0.0</b>	<b>10.7</b>	<b>-10.7</b>	
<b>Import/Export of WR (With NR)</b>									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	0	0.0	0.0	0.0	
35		V'CHAL B/B	D/C	449	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1640	0.0	31.2	-31.2	
37	765 kV	GWALIOR-AGRA	D/C	0	2575	0.0	41.8	-41.8	
38		PHAGI-GWALIOR	D/C	0	1404	0.0	18.5	-18.5	
39		JABALPUR-ORAI	D/C	0	961	0.0	26.8	-26.8	
40		GWALIOR-ORAI	S/C	610	0	10.2	0.0	10.2	
41		SATNA-ORAI	S/C	0	1386	0.0	25.8	-25.8	
42		CHITTORGARH-BANASKANTHA	D/C	322	1158	0.0	7.0	-7.0	
43	400 kV	ZERDA-KANKROLI	S/C	212	212	0.0	0.3	-0.3	
44		ZERDA -BHINMAL	S/C	338	353	0.0	0.6	-0.6	
45		V'CHAL -RIHAND	S/C	987	0	22.7	0.0	22.7	
46		RAPP-SHUJALPUR	D/C	294	301	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	16	106	0.3	1.1	-0.8	
48		BHANPURA-MORAK	S/C	16	149	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	96	0	1.3	0.0	1.3	
50	132kV	MALANPUR-AURAIYA	S/C	55	22	0.6	0.0	0.6	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
<b>WR-NR</b>						<b>47.3</b>	<b>155.2</b>	<b>-108.0</b>	
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	999	0.0	23.6	-23.6	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2429	0.0	30.5	-30.5	
55		WARDHA-NIZAMABAD	D/C	0	3118	0.0	50.0	-50.0	
56	400 kV	KOLHAPUR-KUDGI	D/C	877	0	13.9	0.0	13.9	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	62	0.0	1.2	-1.2	
59		XELDEM-AMBEWADI	S/C	1	100	1.9	0.0	1.9	
<b>WR-SR</b>						<b>15.8</b>	<b>105.2</b>	<b>-89.5</b>	
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						1.7	
61		NEPAL						-10.3	
62		BANGLADESH						-8.0	