



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: 21<sup>st</sup> Feb 2020

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033  
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006  
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 20.02.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20<sup>th</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 21-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)	44148	51676	44950	17977	2411	161162
Peak Shortage (MW)	363	0	0	0	25	388
Energy Met (MU)	942	1272	1096	368	41	3718
Hydro Gen (MU)	137	47	90	33	6	313
Wind Gen (MU)	39	33	76	-----	-----	148
Solar Gen (MU)*	33.85	27.20	102.03	1.36	0.01	164
Energy Shortage (MU)	8.7	0.0	0.0	0.0	0.7	9.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49113 08:16	59071 13:02	51036 08:14	18804 18:58	2452 17:59	174986 09:39

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	0.038	0.00	0.00	6.28	6.28	69.13	24.58

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	5526	0	110.3	73.6	-2.2	150	0.0
	Haryana	6414	0	127.1	84.6	-1.7	194	0.0
	Rajasthan	13615	0	246.9	63.5	-3.6	278	0.0
	Delhi	3693	0	63.6	45.9	-1.2	135	0.0
	UP	14500	0	279.7	120.4	-1.1	681	0.0
	Uttarakhand	1951	0	36.5	17.2	0.0	144	0.0
	HP	1599	0	26.9	19.3	0.5	164	0.0
	J&K(UT) and Ladakh(UT)	2413	603	47.0	40.8	-4.0	229	8.7
	Chandigarh	227	0	3.6	3.4	0.1	22	0.0
	Chhattisgarh	4008	0	88.6	39.8	0.1	298	0.0
WR	Gujarat	16392	0	363.5	100.0	4.6	779	0.0
	MP	14297	0	271.7	134.1	-2.5	542	0.0
	Maharashtra	24110	0	499.8	150.1	-1.2	407	0.0
	Goa	538	0	10.9	10.6	-0.2	51	0.0
	DD	339	0	7.6	7.0	0.6	52	0.0
	DNH	796	0	18.5	18.8	-0.3	33	0.0
	Essar steel	784	0	11.1	11.1	0.0	230	0.0
	Andhra Pradesh	9754	0	197.4	62.0	-0.4	431	0.0
SR	Telangana	12741	0	250.3	136.7	0.5	717	0.0
	Karnataka	12642	0	246.6	82.0	-1.1	676	0.0
	Kerala	3647	0	75.3	57.6	1.6	212	0.0
	Tamil Nadu	14781	0	319.1	163.8	-1.8	510	0.0
	Pondy	372	0	7.5	7.8	-0.2	42	0.0
	Bihar	4136	0	76.5	72.7	2.3	473	0.0
ER	DVC	3214	0	66.1	-36.3	0.1	227	0.0
	Jharkhand	1212	0	23.7	18.7	-0.4	89	0.0
	Odisha	3874	0	74.6	1.4	0.7	396	0.0
	West Bengal	6575	0	124.8	25.1	0.5	236	0.0
	Sikkim	129	0	1.8	1.8	0.0	38	0.0
NER	Arunachal Pradesh	121	1	2.3	2.3	-0.2	55	0.0
	Assam	1360	11	23.1	20.2	0.2	109	0.4
	Manipur	203	2	2.8	3.0	-0.2	23	0.0
	Meghalaya	355	0	6.3	5.2	0.1	43	0.2
	Mizoram	93	1	1.6	1.6	-0.1	14	0.0
	Nagaland	129	1	2.1	2.0	-0.1	50	0.0
	Tripura	224	0	3.2	2.3	-0.2	74	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.7	-9.2	-13.2
Day peak (MW)	479.1	-506.2	-897.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.8	-253.2	130.6	-100.2	15.3	0.3
Actual(MU)	196.8	-254.2	135.3	-96.2	15.8	-2.5
O/D/U/D(MU)	-11.0	-1.0	4.7	4.1	0.5	-2.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5893	14053	5862	2210	1146	29164
State Sector	13110	13816	7895	4740	11	39572
Total	19003	27868	13757	6950	1157	68735

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	452	1300	546	461	11	2770
Lignite	25	17	51	0	0	92
Hydro	137	47	90	33	6	313
Nuclear	19	37	45	0	0	100
Gas, Naptha & Diesel	39	60	16	0	13	128
RES (Wind, Solar, Biomass & Others)	100	68	216	1	0	386
Total	772	1528	963	495	30	3789

Share of RES in total generation (%)	12.98	4.45	22.41	0.28	0.03	10.18
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	33.17	9.93	36.40	6.89	19.09	21.07

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.067

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 :	21-Feb-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	2	379	0.0	7.8	-7.8	
1	765kV	GAYA-VARANASI	D/C	0	906	0.0	9.8	-9.8	
2		SASARAM-FATEHPUR	S/C	88	306	0.0	1.6	-1.6	
3		GAYA-BALIA	S/C	0	455	0.0	3.4	-3.4	
6	400 kV	PUSAULI-VARANASI	S/C	1	269	0.0	4.7	-4.7	
7		PUSAULI -ALLAHABAD	S/C	7	163	0.0	2.1	-2.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	180	383	0.0	0.4	-0.4	
9		PATNA-BALIA	Q/C	0	767	0.0	9.2	-9.2	
10		BIHARSHARIFF-BALIA	D/C	0	371	0.0	4.2	-4.2	
11		MOTIHARI-GORAKHPUR	D/C	0	493	0.0	8.2	-8.2	
12		BIHARSHARIFF-VARANASI	D/C	168	245	0.5	0.0	0.5	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	162	0.0	3.0	-3.0
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>1.0</b>	<b>54.3</b>	<b>-53.3</b>
<b>Import/Export of ER (With WR)</b>									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1228	0	27.1	0.0	27.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	1130	0	13.4	0.0	13.4	
20		JHARSUGUDA-DURG	D/C	157	57	0.8	0.0	0.8	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	0	248	0.0	4.8	-4.8	
22		RANCHI-SIPAT	D/C	367	0	4.0	0.0	4.0	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0	
24		BUDHIPADAR-KORBA	D/C	90	0	1.2	0.0	1.2	
						<b>ER-WR</b>	<b>46.5</b>	<b>4.8</b>	<b>41.7</b>
<b>Import/Export of ER (With SR)</b>									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	668.0	0.0	16.3	-16.3	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2453.0	0.0	42.8	-42.8	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2702.0	0.0	51.7	-51.7	
28	400 kV	TALCHER-I/C	D/C	428.0	651.0	1.9	0.0	1.9	
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>110.7</b>	<b>-110.7</b>
<b>Import/Export of ER (With NER)</b>									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	612	0.0	10.0	-10	
31		ALIPURDUAR-BONGAIGAON	D/C	0	926	0.0	15.4	-15	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	179	0.0	1.5	-1	
						<b>ER-NER</b>	<b>0.0</b>	<b>26.8</b>	<b>-26.8</b>
<b>Import/Export of NER (With NR)</b>									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	503	0.0	11.2	-11.2	
						<b>NER-NR</b>	<b>0.0</b>	<b>11.2</b>	<b>-11.2</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	448	153	2.2	0.0	2.2	
36		APL -MHG	D/C	0	1644	0.0	38.7	-38.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2705	0.0	46.5	-46.5	
38		PHAGI-GWALIOR	D/C	0	1624	0.0	23.2	-23.2	
39		JABALPUR-ORAI	D/C	0	1037	0.0	33.0	-33.0	
40		GWALIOR-ORAI	S/C	657	0	11.1	0.0	11.1	
41		SATNA-ORAI	S/C	0	1415	0.0	29.7	-29.7	
42		CHITTORGARH-BANASKANTHA	D/C	310	961	0.0	7.4	-7.4	
43	400 kV	ZERDA-KANKROLI	S/C	207	150	0.8	0.0	0.8	
44		ZERDA -BHINMAL	S/C	344	99	2.9	0.0	2.9	
45		V'CHAL -RIHAND	S/C	986	0	22.8	0.0	22.8	
46		RAPP-SHUJALPUR	D/C	135	426	0	2	-2	
47	220 kV	BHANPURA-RANPUR	S/C	7	120	0.3	1.1	-0.8	
48		BHANPURA-MORAK	S/C	24	144	0.0	1.7	-1.7	
49		MEHGAON-AURAIYA	S/C	93	0	1.4	0.0	1.4	
50	132kV	MALANPUR-AURAIYA	S/C	54	16	0.6	0.0	0.5	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						<b>WR-NR</b>	<b>42.0</b>	<b>183.2</b>	<b>-141.3</b>
<b>Import/Export of WR (With SR)</b>									
52	HVDC	BHADRAWATI B/B	-	0	995	0.0	18.6	-18.6	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	556	1889	1.0	23.7	-22.7	
55		WARDHA-NIZAMABAD	D/C	0	2701	0.0	47.5	-47.5	
56	400 kV	KOLHAPUR-KUDGI	D/C	1079	0	16.7	0.0	16.7	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	100	0.0	1.5	-1.5	
59		XELDEM-AMBEWADI	S/C	1	97	1.6	0.0	1.6	
						<b>WR-SR</b>	<b>19.3</b>	<b>91.3</b>	<b>-72.0</b>
<b>TRANSNATIONAL EXCHANGE</b>									
60		BHUTAN						1.7	
61		NEPAL						-9.2	
62		BANGLADESH						-13.2	