



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: 23<sup>rd</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., 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 22.02.2020.**

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-फरवरी-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 22<sup>nd</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 23-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)	42953	49887	48656	17605	2366	161467
Peak Shortage (MW)	530	0	0	0	39	569
Energy Met (MU)	903	1230	1084	352	41	3609
Hydro Gen (MU)	132	38	81	34	4	288
Wind Gen (MU)	22	64	73	-----	-----	159
Solar Gen (MU)*	36.50	27.40	96.22	1.17	0.02	161
Energy Shortage (MU)	13.0	0.0	0.0	0.0	0.7	13.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	45686 08:30	58403 11:04	50708 09:25	18587 19:18	2409 18:03	171379 09:25

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	0.040	0.00	0.08	7.05	7.13	71.72	21.15

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	5914	0	118.0	77.2	-0.9	162	0.0
	Haryana	6099	0	115.6	81.7	0.9	282	0.0
	Rajasthan	13627	0	247.3	62.0	0.2	539	0.0
	Delhi	3592	0	60.7	45.4	-1.3	149	0.0
	UP	13115	200	247.1	109.1	1.4	882	1.3
	Uttarakhand	1884	0	34.6	15.8	-0.3	156	0.0
	HP	1571	0	26.8	19.5	0.0	155	0.0
	J&K(UT) and Ladakh(UT)	2414	604	49.5	44.5	-0.4	229	11.8
	Chandigarh	205	0	3.3	3.4	0.0	20	0.0
WR	Chhattisgarh	3990	0	88.1	42.9	-1.6	255	0.0
	Gujarat	16244	0	349.9	88.2	3.9	660	0.0
	MP	13449	0	255.9	129.9	-4.7	714	0.0
	Maharashtra	23637	0	489.1	154.7	-0.8	455	0.0
	Goa	499	0	10.6	10.1	0.0	39	0.0
	DD	325	0	6.8	6.5	0.3	30	0.0
	DNH	797	0	18.5	18.4	0.1	36	0.0
	Essar steel	769	0	10.8	11.3	-0.5	231	0.0
	Andhra Pradesh	9616	0	194.6	66.0	0.7	396	0.0
SR	Telangana	12454	0	252.2	140.5	0.4	885	0.0
	Karnataka	12207	0	236.8	79.7	-0.5	401	0.0
	Kerala	3738	0	76.9	59.7	2.4	236	0.0
	Tamil Nadu	14418	0	316.4	163.6	0.2	409	0.0
	Pondy	353	0	7.4	7.9	-0.5	33	0.0
	Bihar	3774	0	64.0	63.9	-1.2	261	0.0
ER	DVC	3166	0	65.2	-37.2	0.0	360	0.0
	Jharkhand	1250	0	24.3	18.5	-0.3	75	0.0
	Odisha	3917	0	71.6	3.0	-1.1	370	0.0
	West Bengal	6669	0	124.9	31.1	-0.7	259	0.0
	Sikkim	123	0	1.7	1.8	-0.1	35	0.0
NER	Arunachal Pradesh	116	1	2.0	2.0	-0.1	58	0.0
	Assam	1385	35	22.8	19.6	0.2	112	0.4
	Manipur	189	1	2.6	2.8	-0.3	18	0.0
	Meghalaya	373	0	6.0	5.0	0.1	34	0.2
	Mizoram	89	1	1.7	1.3	0.3	26	0.0
	Nagaland	124	1	2.1	1.9	0.0	39	0.0
Tripura	225	1	3.4	1.5	-0.1	61	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	1.8	-9.9	-14.3
Day peak (MW)	340.7	-545.7	-944.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	204.7	-257.1	136.3	-96.8	12.9	0.1
Actual(MU)	196.5	-261.9	146.7	-98.5	15.9	-1.3
O/D/U/D(MU)	-8.2	-4.8	10.4	-1.7	3.0	-1.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5239	12953	5652	2280	1090	27214
State Sector	15475	15520	8915	4770	11	44691
Total	20714	28472	14567	7050	1101	71904

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	425	1248	530	455	11	2669
Lignite	27	17	54	0	0	98
Hydro	132	38	81	34	4	288
Nuclear	19	37	45	0	0	101
Gas, Naptha & Diesel	36	47	16	0	15	113
RES (Wind, Solar, Biomass & Others)	85	104	210	1	0	400
Total	724	1491	935	490	29	3670

Share of RES in total generation (%)	11.72	7.00	22.46	0.25	0.07	10.91
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.54	12.00	35.91	7.16	13.40	21.51

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.064

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 : 23-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	74	821	0.0	8.9	-8.9
2		SASARAM-FATEHPUR	S/C	112	295	0.0	2.5	-2.5
3		GAYA-BALIA	S/C	0	432	0.0	6.6	-6.6
6	400 kV	PUSAULI-VARANASI	S/C	0	225	0.0	4.1	-4.1
7		PUSAULI -ALLAHABAD	S/C	0	131	0.0	1.8	-1.8
8		MUZAFFARPUR-GORAKHPUR	D/C	252	341	0.4	0.0	0.4
9		PATNA-BALIA	Q/C	0	669	0.0	7.7	-7.7
10		BIHARSHARIFF-BALIA	D/C	66	312	0.0	3.2	-3.2
11		MOTIHARI-GORAKHPUR	D/C	0	493	0.0	8.0	-8.0
12		BIHARSHARIFF-VARANASI	D/C	204	242	0.0	0.0	0.0
13	220 kV	PUSAULI-SAHUPURI	S/C	0	179	0.0	2.7	-2.7
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>0.8</b>	<b>51.4</b>	<b>-50.6</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1692	0	34.2	0.0	34.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	848	0	11.5	0.0	11.5
20		JHARSUGUDA-DURG	D/C	188	47	1.5	0.0	1.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	96	409	0.0	4.2	-4.2
22		RANCHI-SIPAT	D/C	261	0	3.0	0.0	3.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	0	0.0	0.0	0.0
24		BUDHIPADAR-KORBA	D/C	105	0	1.2	0.0	1.2
<b>ER-WR</b>						<b>51.4</b>	<b>4.2</b>	<b>47.2</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	2452.0	0.0	50.2	-50.2
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2617.0	0.0	48.9	-48.9
28	400 kV	TALCHER-I/C	D/C	0.0	983.0	0.0	7.3	-7.3
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>115.3</b>	<b>-115.3</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	606	0.0	10.4	-10
31		ALIPURDUAR-BONGAIGAON	D/C	0	918	0.0	15.8	-16
32	220 kV	ALIPURDUAR-SALAKATI	D/C	0	179	0.0	2.9	-3
<b>ER-NER</b>						<b>0.0</b>	<b>29.1</b>	<b>-29.1</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	502	0.0	12.0	-12.0
<b>NER-NR</b>						<b>0.0</b>	<b>12.0</b>	<b>-12.0</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	446	493	5.6	3.0	2.6
36	765 kV	APL -MHG	D/C	0	1923	0.0	40.7	-40.7
37		GWALIOR-AGRA	D/C	0	2621	0.0	42.9	-42.9
38		PHAGI-GWALIOR	D/C	0	1401	0.0	21.0	-21.0
39		JABALPUR-ORAI	D/C	0	1000	0.0	31.2	-31.2
40		GWALIOR-ORAI	S/C	630	0	10.3	0.0	10.3
41		SATNA-ORAI	S/C	0	1438	0.0	27.7	-27.7
42		CHITTORGARH-BANASKANTHA	D/C	7	1309	0.0	6.8	-6.8
43	400 kV	ZERDA-KANKROLI	S/C	137	219	0.0	0.2	-0.2
44		ZERDA -BHINMAL	S/C	173	395	0.0	0.6	-0.6
45		V'CHAL -RIHAND	S/C	993	0	22.9	0.0	22.9
46	220 kV	RAPP-SHUJALPUR	D/C	152	313	0	1	-1
47		BHANPURA-RANPUR	S/C	7	109	0.1	1.0	-0.9
48		BHANPURA-MORAK	S/C	7	143	0.0	1.8	-1.8
49		MEHGAON-AURAIYA	S/C	89	0	1.3	0.0	1.3
50		MALANPUR-AURAIYA	S/C	48	20	0.5	0.0	0.5
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>40.8</b>	<b>177.6</b>	<b>-136.8</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	999	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	551	2327	1.0	25.9	-24.9
55		WARDHA-NIZAMABAD	D/C	0	2934	0.0	45.9	-45.9
56	400 kV	KOLHAPUR-KUDGI	D/C	1142	0	16.2	0.0	16.2
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	66	0.0	1.4	-1.4
59		XELDEM-AMBEWADI	S/C	0	97	1.8	0.0	1.8
<b>WR-SR</b>						<b>19.0</b>	<b>96.9</b>	<b>-77.9</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						1.8
61		NEPAL						-9.9
62		BANGLADESH						-14.3