



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> 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 21.01.2020.**

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 21-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 21<sup>st</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 22-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)	48291	48458	40218	18582	2435	157984
Peak Shortage (MW)	600	0	0	0	38	638
Energy Met (MU)	965	1151	1008	362	41	3527
Hydro Gen (MU)	129	47	84	36	6	301
Wind Gen (MU)	13	32	58	-----	-----	102
Solar Gen (MU)*	32.69	23.40	93.14	1.47	0.03	151
Energy Shortage (MU)	12.4	0.0	0.0	0.0	0.8	13.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49247 09:45	55575 10:34	47600 07:55	19000 18:10	2454 17:54	169468 09:28

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	0.035	0.00	0.31	3.78	4.10	69.86	26.04

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	5567	0	106.5	54.0	-1.4	64	0.0
	Haryana	6655	0	129.6	89.7	-0.2	199	0.0
	Rajasthan	13716	0	240.4	70.3	2.5	523	0.0
	Delhi	4442	0	75.9	60.1	-0.8	220	0.0
	UP	16275	0	283.7	118.5	-0.2	649	0.0
	Uttarakhand	2194	0	41.0	23.4	0.9	176	0.1
	HP	1746	0	32.8	24.4	1.0	212	0.2
	J&K(UT) and Ladakh(UT)	2645	661	51.3	45.2	0.9	321	12.2
	Chandigarh	266	0	4.3	4.4	0.0	23	0.0
WR	Chhattisgarh	3719	0	79.8	30.9	-1.3	211	0.0
	Gujarat	15547	0	327.1	88.2	1.3	702	0.0
	MP	13764	0	243.1	143.2	-2.7	532	0.0
	Maharashtra	22466	0	457.6	151.3	-1.4	599	0.0
	Goa	500	0	10.1	10.3	-0.3	48	0.0
	DD	331	0	7.3	7.0	0.3	36	0.0
	DNH	802	0	18.6	18.5	0.1	42	0.0
	Essar steel	380	0	7.3	7.2	0.1	265	0.0
	SR	Andhra Pradesh	8987	0	180.6	66.4	0.1	428
Telangana		11045	0	216.6	108.2	-0.1	519	0.0
Karnataka		12176	0	233.8	56.9	-0.6	612	0.0
Kerala		3723	0	75.7	57.9	1.8	287	0.0
Tamil Nadu		14256	0	294.0	151.9	0.2	439	0.0
Pondy		352	0	6.9	7.2	-0.2	36	0.0
ER	Bihar	4556	0	79.0	77.4	0.1	300	0.0
	DVC	3115	0	64.7	-37.8	0.5	200	0.0
	Jharkhand	1323	0	26.2	17.1	0.5	100	0.0
	Odisha	3670	0	68.4	5.0	0.3	300	0.0
	West Bengal	6717	0	122.3	24.4	1.7	350	0.0
	Sikkim	129	0	1.9	1.7	0.2	40	0.0
NER	Arunachal Pradesh	112	5	2.1	1.9	0.1	39	0.0
	Assam	1382	30	22.9	19.6	0.7	85	0.4
	Manipur	186	6	2.4	3.1	-0.7	24	0.0
	Meghalaya	376	1	6.5	5.5	0.1	97	0.3
	Mizoram	108	2	1.6	1.5	-0.4	26	0.0
	Nagaland	119	1	2.1	2.0	0.0	28	0.0
Tripura	226	11	3.5	1.8	-0.5	24	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.3	-10.3	-9.8
Day peak (MW)	564.4	-580.0	-748.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.4	-241.7	117.4	-107.8	5.4	-0.3
Actual(MU)	218.9	-249.8	122.8	-97.8	5.2	-0.7
O/D/U/D(MU)	-7.5	-8.1	5.4	10.0	-0.2	-0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5316	13883	6722	1570	588	28079
State Sector	11365	17146	6990	4550	11	40062
Total	16681	31029	13712	6120	600	68141

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	482	1212	499	452	12	2656
Lignite	22	15	47	0	0	84
Hydro	129	47	84	36	6	301
Nuclear	25	25	40	0	0	89
Gas, Naptha & Diesel	32	43	17	0	22	114
RES (Wind, Solar, Biomass & Others)	75	63	195	2	0	334
Total	764	1403	882	489	40	3578

Share of RES in total generation (%)	9.81	4.46	22.14	0.31	0.07	9.34
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.89	9.58	36.18	7.58	14.05	20.25

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.026
Based on State Max Demands	1.083

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-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	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	299	0.0	7.0	-7.0
1	765kV	GAYA-VARANASI	D/C	0	833	0.0	13.0	-13.0
2		SASARAM-FATEHPUR	S/C	27	348	0.0	4.1	-4.1
3		GAYA-BALIA	S/C	0	453	0.0	7.8	-7.8
6	400 kV	PUSAULI-VARANASI	S/C	0	215	0.0	4.1	-4.1
7		PUSAULI -ALLAHABAD	S/C	0	168	0.0	2.7	-2.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	716	0.0	9.7	-9.7
9		PATNA-BALIA	Q/C	0	807	0.0	14.9	-14.9
10		BIHARSHARIFF-BALIA	D/C	0	369	0.0	5.5	-5.5
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	62	325	0.0	3.2	-3.2
13	220 kV	PUSAULI-SAHUPURI	S/C	3	156	0.0	1.9	-1.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.8	0.0	0.8
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>66.7</b>	<b>-66.0</b>
<b>Import/Export of ER (With WR)</b>								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	600	0	18.2	0.0	18.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	582	262	2.2	0.0	2.2
20		JHARSUGUDA-DURG	D/C	70	241	0.0	2.5	-2.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	239	220	0.3	0.0	0.3
22		RANCHI-SIPAT	D/C	218	90	1.1	0.0	1.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	95	0.0	1.4	-1.4
24		BUDHIPADAR-KORBA	D/C	159	0	2.3	0.0	2.3
<b>ER-WR</b>						<b>24.1</b>	<b>3.9</b>	<b>20.2</b>
<b>Import/Export of ER (With SR)</b>								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	546.0	0.0	11.9	-11.9
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1982.0	0.0	40.5	-40.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2362.0	0.0	46.5	-46.5
28	400 kV	TALCHER-I/C	D/C	895.0	788.0	1.5	0.0	1.5
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>98.9</b>	<b>-98.9</b>
<b>Import/Export of ER (With NER)</b>								
30	400 kV	BINAGURI-BONGAIGAON	D/C	158	176	1.4	0.0	1
31		ALIPURDUAR-BONGAIGAON	D/C	276	222	2.7	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	45	60	0.2	0.0	0
<b>ER-NER</b>						<b>4.3</b>	<b>0.0</b>	<b>4.3</b>
<b>Import/Export of NER (With NR)</b>								
33	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	10.8	0.0	10.8
<b>NER-NR</b>						<b>10.8</b>	<b>0.0</b>	<b>10.8</b>
<b>Import/Export of WR (With NR)</b>								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2354	0.0	43.8	-43.8
35		VCHAL B/B	D/C	449	103	10.2	0.4	9.9
36	765 kV	APL -MHG	D/C	0	1922	0.0	37.7	-37.7
37		GWALIOR-AGRA	D/C	0	2680	0.0	44.6	-44.6
38		PHAGI-GWALIOR	D/C	0	1510	0.0	20.6	-20.6
39		JABALPUR-ORAI	D/C	0	909	0.0	27.8	-27.8
40		GWALIOR-ORAI	S/C	682	0	10.7	0.0	10.7
41		SATNA-ORAI	S/C	0	1398	0.0	28.0	-28.0
42		CHITTORGARH-BANASKANTHA	D/C	380	897	0.0	4.1	-4.1
43	400 kV	ZERDA-KANKROLI	S/C	168	157	0.3	0.0	0.3
44		ZERDA -BHINMAL	S/C	249	467	0.0	2.4	-2.4
45		VCHAL-RIHAND	S/C	984	0	22.5	0.0	22.5
46	220 kV	RAPP-SHUJALPUR	D/C	181	335	1	2	-1
47		BHANPURA-RANPUR	S/C	30	103	0.2	0.5	-0.3
48		BHANPURA-MORAK	S/C	15	115	0.0	1.3	-1.3
49		MEHGAON-AURAIYA	S/C	89	0	0.8	0.0	0.8
50		MALANPUR-AURAIYA	S/C	44	28	0.2	0.1	0.1
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
<b>WR-NR</b>						<b>45.6</b>	<b>213.3</b>	<b>-167.6</b>
<b>Import/Export of WR (With SR)</b>								
52	HVDC	BHADRAWATI B/B	-	0	613	0.0	13.0	-13.0
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	532	2009	1.0	24.4	-23.4
55		WARDHA-NIZAMABAD	D/C	0	2351	0.0	39.8	-39.8
56	400 kV	KOLHAPUR-KUDGI	D/C	925	0	9.7	0.0	9.7
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	89	1.6	0.0	1.6
<b>WR-SR</b>						<b>12.4</b>	<b>77.3</b>	<b>-64.9</b>
<b>TRANSNATIONAL EXCHANGE</b>								
60		BHUTAN						<b>4.3</b>
61		NEPAL						<b>-10.3</b>
62		BANGLADESH						<b>-9.8</b>