



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: 20th 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., 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 19.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-जनवरी-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 19th Jan 2020, is available at the NLDC website.

धन्यवाद,

पावर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 20-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)	43761	45143	35787	17544	2350	144585
Peak Shortage (MW)	541	0	0	0	52	593
Energy Met (MU)	911	1088	892	340	41	3270
Hydro Gen (MU)	128	42	64	27	7	269
Wind Gen (MU)	12	81	23	-----	-----	115
Solar Gen (MU)*	31.94	21.80	80.31	1.06	0.03	135
Energy Shortage (MU)	12.9	0.0	0.0	0.0	1.3	14.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46687 09:51	53059 11:03	43622 09:25	17901 18:38	2369 17:59	159665 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	0.033	0.00	0.00	4.22	4.22	74.44	21.33

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	5647	0	104.6	55.7	-1.3	75	0.0
	Haryana	5828	0	115.6	84.0	0.8	218	0.0
	Rajasthan	13193	0	228.2	69.0	-0.8	427	0.0
	Delhi	4566	0	71.7	55.8	-0.1	288	0.0
	UP	15218	0	271.3	121.4	0.1	1009	1.1
	Uttarakhand	2053	0	36.7	18.9	0.0	187	0.0
	HP	1656	0	28.7	22.1	0.1	287	0.0
	J&K(UT) and Ladakh(UT)	2299	575	50.0	44.8	-0.9	338	11.8
	Chandigarh	242	0	3.9	3.8	0.0	29	0.0
WR	Chhattisgarh	3576	0	78.7	27.7	-1.6	171	0.0
	Gujarat	15239	0	313.5	62.9	3.3	666	0.0
	MP	12603	0	229.3	130.8	-1.9	431	0.0
	Maharashtra	21473	0	426.8	145.3	-0.8	486	0.0
	Goa	442	0	8.7	8.7	-0.3	21	0.0
	DD	297	0	6.6	6.3	0.3	32	0.0
	DNH	765	0	18.1	18.2	-0.1	27	0.0
	Essar steel	300	0	6.0	5.8	0.2	222	0.0
	SR	Andhra Pradesh	8814	0	170.2	65.5	-0.4	588
Telangana		10667	0	208.6	103.8	-0.1	412	0.0
Karnataka		12252	0	192.3	56.7	-0.2	718	0.0
Kerala		3410	0	67.8	56.1	1.4	202	0.0
Tamil Nadu		12149	0	246.7	155.0	0.4	403	0.0
Pondy		289	0	6.0	6.2	-0.2	46	0.0
ER	Bihar	4403	0	75.0	74.4	-0.6	863	0.0
	DVC	3098	0	63.2	-33.8	0.1	233	0.0
	Jharkhand	1267	0	24.0	15.9	-1.5	109	0.0
	Odisha	3667	0	68.4	8.9	-0.2	281	0.0
	West Bengal	5706	0	107.4	20.4	0.8	267	0.0
	Sikkim	117	0	1.6	1.7	-0.1	33	0.0
NER	Arunachal Pradesh	118	1	2.2	2.1	-0.1	30	0.0
	Assam	1245	22	22.7	18.2	1.8	107	0.6
	Manipur	213	2	2.6	3.1	-0.5	24	0.0
	Meghalaya	362	0	6.1	3.0	0.7	98	0.7
	Mizoram	102	1	1.6	1.4	-0.1	22	0.0
	Nagaland	118	1	2.2	2.0	0.0	26	0.0
Tripura	278	0	3.4	1.8	-0.4	47	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.6	-8.3	-10.2
Day peak (MW)	503.6	-516.0	-771.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	226.6	-259.9	117.9	-88.2	3.5	-0.1
Actual(MU)	208.1	-265.1	142.6	-95.1	4.5	-4.9
O/D/U/D(MU)	-18.5	-5.2	24.6	-6.9	1.0	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6205	15058	7172	1710	588	30733
State Sector	12625	17699	8270	4550	11	43155
Total	18830	32757	15442	6260	600	73888

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	426	1130	444	434	11	2445
Lignite	21	14	45	0	0	80
Hydro	128	42	64	27	7	269
Nuclear	25	27	40	0	0	92
Gas, Naptha & Diesel	33	25	18	0	22	97
RES (Wind, Solar, Biomass & Others)	72	121	139	1	0	334
Total	706	1360	749	462	40	3317

Share of RES in total generation (%)	10.23	8.92	18.60	0.24	0.07	10.07
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.00	14.02	32.42	6.05	18.28	20.94

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.088

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 : 20-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)
Import/Export of ER (With NR)								
4	HVDC	ALIPURDUAR-AGRA	-	0	0	0.0	0.0	0.0
5		PUSAULI B/B	S/C	0	300	0.0	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	0	1000	0.0	11.3	-11.3
2		SASARAM-FATEHPUR	S/C	0	496	0.0	5.0	-5.0
3		GAYA-BALIA	S/C	0	591	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	S/C	0	207	0.0	4.3	-4.3
7		PUSAULI -ALLAHABAD	S/C	0	187	0.0	2.9	-2.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	953	0.0	11.5	-11.5
9		PATNA-BALIA	Q/C	0	1006	0.0	15.4	-15.4
10		BIHARSHARIFF-BALIA	D/C	0	471	0.0	6.4	-6.4
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	5	495	0.0	4.4	-4.4
13		220 kV	PUSAULI-SAHUPURI	S/C	0	149	0.0	1.4
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
ER-NR						0.7	71.1	-70.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	6553	0	23.0	0.0	23.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	512	140	3.3	0.0	3.3
20		JHARSUGUDA-DURG	D/C	1000101	141	1.6	0.0	1.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	207	94	1.3	0.0	1.3
22		RANCHI-SIPAT	D/C	197	49	1.4	0.0	1.4
23	220 kV	BUDHIPADAR-RAIGARH	S/C	17	83	0.0	0.9	-0.9
24		BUDHIPADAR-KORBA	D/C	172	0	2.7	0.0	2.7
ER-WR						33.2	0.9	32.4
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	529.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2464.0	0.0	42.1	-42.1
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2582.0	0.0	50.6	-50.6
28	400 kV	TALCHER-I/C	D/C	408.0	788.0	0.0	1.8	-1.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	104.9	-104.9
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	173	78	2.5	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	320	82	4.0	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	46	38	0.5	0.0	1
ER-NER						7.0	0.0	7.0
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.7	0.0	11.7
NER-NR						11.7	0.0	11.7
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2349	0.0	21.2	-21.2
35		VCHAL B/B	D/C	448	0	10.2	0.0	10.2
36		APL -MHG	D/C	0	1926	0.0	39.7	-39.7
37	765 kV	GWALIOR-AGRA	D/C	0	2769	0.0	46.0	-46.0
38		PHAGI-GWALIOR	D/C	0	1601	0.0	19.3	-19.3
39		JABALPUR-ORAI	D/C	0	939	0.0	28.6	-28.6
40		GWALIOR-ORAI	S/C	634	0	9.7	0.0	9.7
41		SATNA-ORAI	S/C	0	1419	0.0	27.8	-27.8
42		CHITTORGARH-BANASKANTHA	D/C	0	1255	0.0	8.5	-8.5
43	400 kV	ZERDA-KANKROLI	S/C	70	222	0.0	0.7	-0.7
44		ZERDA -BHINMAL	S/C	0	483	0.0	4.0	-4.0
45		VCHAL-RIHAND	S/C	986	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	261	391	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	21	98	0.5	0.3	0.1
48		BHANPURA-MORAK	S/C	20	107	0.0	0.9	-0.9
49		MEHGAON-AURAIYA	S/C	92	0	0.9	0.0	0.9
50	132kV	MALANPUR-AURAIYA	S/C	47	29	0.3	0.1	0.2
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.9	197.7	-153.8
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	985	0.0	14.7	-14.7
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	221	2163	0.1	28.8	-28.7
55		WARDHA-NIZAMABAD	D/C	0	2343	0.0	42.0	-42.0
56	400 kV	KOLHAPUR-KUDGI	D/C	611	121	4.9	0.1	4.9
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	90	1.7	0.0	1.7
WR-SR						6.7	85.5	-78.8
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.6
61		NEPAL						-8.3
62		BANGLADESH						-10.2