



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: 12th 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 11.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11-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 11th 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 12-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)	47292	47495	39669	18244	2428	155128
Peak Shortage (MW)	578	0	0	0	30	608
Energy Met (MU)	967	1120	982	346	42	3457
Hydro Gen (MU)	109	51	75	30	7	273
Wind Gen (MU)	24	57	47	-----	-----	128
Solar Gen (MU)*	26.19	23.00	87.37	1.45	0.01	138
Energy Shortage (MU)	12.4	0.0	0.0	0.0	0.7	13.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49411 09:29	54521 10:35	44389 08:29	18344 18:45	2502 17:37	164111 09:30

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	0.10	5.08	5.19	70.21	24.61

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	5857	0	111.8	62.8	-1.5	44	0.0
	Haryana	6522	0	128.5	85.2	0.9	180	0.0
	Rajasthan	13560	0	237.6	68.3	-1.9	465	0.0
	Delhi	4522	0	72.7	58.0	-1.0	209	0.0
	UP	16528	0	288.3	117.2	0.0	662	0.0
	Uttarakhand	2183	0	40.7	23.9	0.3	140	0.0
	HP	1661	0	30.3	23.6	0.2	222	0.0
	J&K(UT) and Ladakh(UT)	2370	592	52.5	47.2	0.0	203	12.4
	Chandigarh	259	0	4.4	4.2	0.2	35	0.0
WR	Chhattisgarh	3460	0	72.9	22.1	-1.5	261	0.0
	Gujarat	15957	0	327.6	85.7	5.6	414	0.0
	MP	13525	0	239.8	117.6	-2.5	488	0.0
	Maharashtra	21650	0	434.1	134.1	0.3	698	0.0
	Goa	496	0	13.6	10.0	3.0	42	0.0
	DD	329	0	7.3	6.8	0.5	45	0.0
	DNH	805	0	18.6	18.6	0.0	41	0.0
	Essar steel	351	0	5.8	6.1	-0.3	253	0.0
	Andhra Pradesh	8372	0	171.3	67.2	-0.1	300	0.0
SR	Telangana	10829	0	212.3	100.9	0.6	595	0.0
	Karnataka	12284	0	222.3	58.0	-1.4	582	0.0
	Kerala	3471	0	70.9	55.9	1.6	202	0.0
	Tamil Nadu	14212	0	298.1	148.0	0.4	468	0.0
	Pondy	358	0	7.2	7.5	-0.3	26	0.0
	Bihar	4461	0	79.9	77.2	1.1	197	0.0
ER	DVC	3110	0	64.4	-30.0	0.5	243	0.0
	Jharkhand	1353	0	24.6	17.0	-1.1	113	0.0
	Odisha	3630	0	65.2	6.8	0.1	293	0.0
	West Bengal	6091	0	110.0	20.4	0.6	216	0.0
	Sikkim	161	0	2.0	1.6	0.4	53	0.0
NER	Arunachal Pradesh	124	2	2.4	1.8	0.4	39	0.0
	Assam	1356	15	23.1	19.2	0.6	111	0.5
	Manipur	213	1	2.7	3.1	-0.4	31	0.0
	Meghalaya	390	0	6.3	3.2	0.7	75	0.2
	Mizoram	105	2	1.6	1.5	-0.2	27	0.0
	Nagaland	127	1	2.4	2.1	0.2	26	0.0
Tripura	221	0	3.6	2.3	-0.3	25	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.3	-8.9	-8.8
Day peak (MW)	518.9	-631.4	-760.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.8	-259.3	97.5	-82.4	2.4	-0.1
Actual(MU)	239.7	-271.2	96.7	-74.9	3.4	-6.3
O/D/U/D(MU)	-2.1	-11.9	-0.8	7.5	1.0	-6.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4363	16640	5452	2810	698	29963
State Sector	10500	16581	6940	4890	11	38922
Total	14863	33220	12392	7700	710	68884

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	494	1173	522	418	13	2619
Lignite	16	14	46	0	0	76
Hydro	109	51	75	30	7	273
Nuclear	30	25	43	0	0	98
Gas, Naptha & Diesel	28	37	18	0	24	107
RES (Wind, Solar, Biomass & Others)	77	94	183	1	0	355
Total	755	1393	888	449	44	3528

Share of RES in total generation (%)	10.23	6.73	20.60	0.33	0.02	10.07
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.70	12.17	33.97	6.96	16.86	20.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.102

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 :	12-Jan-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)	
Import/Export of ER (With NR)									
4	HVDC	ALIPURDUAR-AGRA	-	0	500	0.0	11.7	-11.7	
5		PUSAULI B/B	S/C	0	297	0.0	7.0	-7.0	
1	765kV	GAYA-VARANASI	D/C	0	991	0.0	13.8	-13.8	
2		SASARAM-FATEHPUR	S/C	76	318	0.0	2.7	-2.7	
3		GAYA-BALIA	S/C	0	0	0.0	0.0	0.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	243	0.0	4.8	-4.8	
7		PUSAULI -ALLAHABAD	S/C	0	140	0.0	2.1	-2.1	
8		MUZAFFARPUR-GORAKHPUR	D/C	70	600	0.0	4.8	-4.8	
9		PATNA-BALIA	Q/C	0	840	0.0	14.8	-14.8	
10		BIHARSHARIFF-BALIA	D/C	0	340	0.0	3.8	-3.8	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	161	205	0.1	0.0	0.1	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	152	0.0	2.4	-2.4	
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						0.8	49.2	-48.4	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	650	352	5.0	0.0	5.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	576	113	5.5	0.0	5.5	
20		JHARSUGUDA-DURG	D/C	0	333	0.0	3.7	-3.7	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	129	259	0.0	1.7	-1.7	
22		RANCHI-SIPAT	D/C	201	29	2.0	0.0	2.0	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	104	0.0	1.7	-1.7	
24		BUDHIPADAR-KORBA	D/C	139	0	2.2	0.0	2.2	
ER-WR						14.7	7.1	7.6	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.6	-16.6	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2.0	0.0	0.0	0.0	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2003.0	0.0	38.4	-38.4	
28	400 kV	TALCHER-I/C	D/C	1620.0	0.0	35.6	0.0	35.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	55.0	-55.0	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	140	331	0.1	3.8	-4	
31		ALIPURDUAR-BONGAIGAON	D/C	178	210	1.0	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	30	61	0.0	0.5	0	
ER-NER						1.1	4.3	-3.2	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	364	0	0.5	0.0	0.5	
NER-NR						0.5	0.0	0.5	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2354	0.0	38.1	-38.1	
35		VCHAL B/B	D/C	448	300	0.2	0.0	0.2	
36	765 kV	APL -MHG	D/C	0	2105	0.0	45.1	-45.1	
37		GWALIOR-AGRA	D/C	0	2334	0.0	41.9	-41.9	
38		PHAGI-GWALIOR	D/C	0	1756	0.0	21.5	-21.5	
39		JABALPUR-ORAI	D/C	0	986	0.0	33.2	-33.2	
40		GWALIOR-ORAI	S/C	929	0	13.4	0.0	13.4	
41		SATNA-ORAI	S/C	0	1671	0.0	32.0	-32.0	
42		CHITTORGARH-BANASKANTHA	D/C	230	1047	0.6	6.3	-5.7	
43	400 kV	ZERDA-KANKROLI	S/C	154	165	1.0	0.0	1.0	
44		ZERDA -BHINMAL	S/C	234	385	0.0	0.3	-0.3	
45		VCHAL -RIHAND	S/C	973	0	21.5	0.0	21.5	
46	220 kV	RAPP-SHUJALPUR	D/C	156	434	0	1	-1	
47		BHANPURA-RANPUR	S/C	28	72	0.5	0.3	0.2	
48		BHANPURA-MORAK	S/C	26	106	0.0	1.0	-0.9	
49		MEHGAON-AURAIYA	S/C	101	0	1.2	0.0	1.2	
50		MALANPUR-AURAIYA	S/C	50	20	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						38.7	220.6	-181.9	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	24.0	-24.0	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	0	1858	0.0	30.6	-30.6	
55		WARDHA-NIZAMABAD	D/C	0	2025	0.0	36.3	-36.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	654	0	8.0	0.0	8.0	
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						9.7	90.9	-81.2	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.3	
61		NEPAL						-8.9	
62		BANGLADESH						-8.8	