



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 Dec 2019

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 19.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-दिसम्बर-2019 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 19th Dec 2019, 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 20-Dec-19

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)	47100	47763	39306	17976	2302	154447
Peak Shortage (MW)	629	0	0	0	27	656
Energy Met (MU)	920	1122	938	337	39	3357
Hydro Gen (MU)	118	48	77	38	9	289
Wind Gen (MU)	5	34	63	-----	-----	102
Solar Gen (MU)*	23.59	21.20	75.88	1.79	0.01	122
Energy Shortage (MU)	12.7	0.0	0.0	0.0	0.2	12.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47191 18:57	53601 11:03	43904 07:41	18300 18:26	2424 17:54	158769 09:44

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	0.03	6.47	6.50	67.60	25.89

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	5518	0	107.5	56.2	-0.9	85	0.0
	Haryana	6533	0	122.4	92.6	1.1	188	0.0
	Rajasthan	12522	0	227.8	62.0	3.5	605	0.0
	Delhi	4181	0	73.2	56.5	-0.5	263	0.0
	UP	14541	0	266.5	102.7	0.5	957	0.8
	Uttarakhand	2087	0	39.4	21.5	0.3	210	0.5
	HP	1676	0	31.1	23.5	0.3	200	0.0
	J&K(UT) and Ladakh(UT)	2458	615	48.1	42.5	0.2	337	11.4
	Chandigarh	262	0	4.5	4.0	0.5	48	0.0
WR	Chhattisgarh	3605	0	76.8	19.5	-1.2	189	0.0
	Gujarat	15582	0	329.4	92.8	4.4	680	0.0
	MP	12666	0	230.9	120.3	-5.2	504	0.0
	Maharashtra	21880	0	444.1	136.3	-0.1	436	0.0
	Goa	530	0	11.5	10.8	0.1	45	0.0
	DD	292	0	4.9	4.5	0.4	35	0.0
	DNH	815	0	18.8	18.8	0.0	69	0.0
	Essar steel	343	0	6.0	5.9	0.1	221	0.0
	Andhra Pradesh	8075	0	166.5	71.5	-0.2	412	0.0
SR	Telangana	10406	0	215.6	109.5	-0.1	557	0.0
	Karnataka	11340	0	202.9	37.8	-0.2	445	0.0
	Kerala	3565	0	71.2	55.6	1.5	223	0.0
	Tamil Nadu	13347	0	274.3	136.6	-0.9	709	0.0
	Pondy	362	0	7.1	7.4	-0.3	26	0.0
	Bihar	4043	0	67.3	67.3	-1.2	180	0.0
ER	DVC	3145	0	64.8	-36.2	0.5	200	0.0
	Jharkhand	1309	0	24.0	15.1	-0.7	120	0.0
	Odisha	3720	0	66.7	10.5	0.3	300	0.0
	West Bengal	6283	0	112.4	33.1	4.3	450	0.0
	Sikkim	125	0	1.9	1.7	0.2	20	0.0
	Arunachal Pradesh	122	2	2.0	2.0	-0.2	30	0.0
NER	Assam	1338	16	20.9	18.1	-1.0	113	0.2
	Manipur	184	1	2.5	2.9	-0.4	34	0.0
	Meghalaya	324	0	6.0	2.9	0.2	135	0.0
	Mizoram	99	1	1.6	1.2	0.0	27	0.0
	Nagaland	144	3	2.0	2.3	-0.4	34	0.0
	Tripura	222	4	3.6	1.7	-0.3	36	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.8	-7.0	-9.9
Day peak (MW)	345.4	-376.0	-748.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	212.3	-213.5	115.8	-115.9	1.4	0.0
Actual(MU)	224.9	-233.3	109.2	-106.9	1.5	-4.6
O/D/U/D(MU)	12.6	-19.8	-6.6	9.0	0.2	-4.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6094	17433	7752	660	651	32590
State Sector	13992	16121	9130	6700	11	45954
Total	20086	33553	16882	7360	663	78544

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	449	1167	467	426	13	2522
Lignite	26	15	43	0	0	84
Hydro	118	48	77	38	9	289
Nuclear	30	28	45	0	0	102
Gas, Naptha & Diesel	33	32	17	0	23	104
RES (Wind, Solar, Biomass & Others)	59	60	190	2	0	311
Total	715	1349	838	466	44	3413

Share of RES in total generation (%)	8.21	4.45	22.71	0.39	0.02	9.11
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.94	10.05	37.18	8.45	19.95	20.58

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.094

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-Dec-19
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	0	0.0	0.0	0.0	
5		PUSAULI B/B	S/C	0	198	0.0	4.8	-4.8	
1	765kV	GAYA-VARANASI	D/C	0	1192	0.0	15.3	-15.3	
2		SASARAM-FATEHPUR	S/C	0	425	0.0	6.1	-6.1	
3		GAYA-BALIA	S/C	0	523	0.0	4.3	-4.3	
6	400 kV	PUSAULI-VARANASI	S/C	0	136	0.0	2.4	-2.4	
7		PUSAULI -ALLAHABAD	S/C	0	147	0.0	2.2	-2.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	865	0.0	11.6	-11.6	
9		PATNA-BALIA	Q/C	0	1156	0.0	19.7	-19.7	
10		BIHARSHARIFF-BALIA	D/C	0	493	0.0	7.4	-7.4	
11		MOTIHARI-GORAKHPUR	D/C	2	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	0	414	0.0	4.4	-4.4	
13		220 kV	PUSAULI-SAHUPURI	S/C	11	83	0.0	0.7	-0.7
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.3	0.0	0.3	
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	0.3	74.2	-73.9
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	896	421	9.0	0.0	9.0	
19		NEW RANCHI-DHARAMJAIGARH	D/C	298	477	0.0	0.6	-0.6	
20		JHARSUGUDA-DURG	D/C	58	198	0.0	1.4	-1.4	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	275	121	2.1	0.0	2.1	
22		RANCHI-SIPAT	D/C	124	138	0.3	0.0	0.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	135	0.0	1.5	-1.5	
24		BUDHIPADAR-KORBA	D/C	172	0	2.2	0.0	2.2	
						ER-WR	13.7	3.5	10.2
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	679.0	0.0	15.1	-15.1	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1978.0	0.0	41.2	-41.2	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1795.0	0.0	34.8	-34.8	
28	400 kV	TALCHER-I/C	D/C	423.0	486.0	0.0	0.6	-0.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	91.1	-91.1
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	237	35	3.1	0.0	3	
31		ALIPURDUAR-BONGAIGAON	D/C	269	0	3.7	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	45	18	0.5	0.0	0	
						ER-NER	7.2	0.0	7.2
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	390	0	9.3	0.0	9.3	
						NER-NR	9.3	0.0	9.3
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1842	0.0	32.0	-32.0	
35		V'CHAL B/B	D/C	230	345	1.6	0.0	1.6	
36	765 kV	APL -MHG	D/C	0	1923	0.0	33.0	-33.0	
37		GWALIOR-AGRA	D/C	0	2569	0.0	45.5	-45.5	
38		PHAGI-GWALIOR	D/C	0	1758	0.0	22.0	-22.0	
39		JABALPUR-ORAI	D/C	0	910	0.0	28.5	-28.5	
40		GWALIOR-ORAI	S/C	654	0	10.3	0.0	10.3	
41		SATNA-ORAI	S/C	0	1463	0.0	29.6	-29.6	
42		CHITTOGARH-BANASKANTHA	D/C	250	713	0.0	2.1	-2.1	
43		ZERDA-KANKROLI	S/C	154	123	1.2	0.0	1.2	
44	400 kV	ZERDA -BHINMAL	S/C	119	347	0.0	1.2	-1.2	
45		V'CHAL -RIHAND	S/C	976	0	22.8	0.0	22.8	
46		RAPP-SHUJALPUR	D/C	126	343	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	31	79	0.8	0.1	0.7	
48		BHANPURA-MORAK	S/C	19	135	0.0	0.9	-0.9	
49		MEHGAON-AURAIYA	S/C	89	0	0.9	0.0	0.9	
50	132kV	MALANPUR-AURAIYA	S/C	45	29	0.2	0.1	0.1	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	37.7	195.9	-158.2
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	505	0.0	11.9	-11.9	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	627	2074	0.8	23.2	-22.4	
55		WARDHA-NIZAMABAD	D/C	0	2389	0.0	41.1	-41.1	
56	400 kV	KOLHAPUR-KUDGI	D/C	899	0	13.1	0.0	13.1	
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58		PONDA-AMBEWADI	S/C	0	66	0.0	1.3	-1.3	
59		XELDEM-AMBEWADI	S/C	0	74	1.4	0.0	1.4	
						WR-SR	15.3	77.4	-62.1
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.8	
61		NEPAL						-7.0	
62		BANGLADESH						-9.9	