



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: 19th Dec 2019

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 18.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-दिसम्बर-2019 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 18th 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 19-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)	46721	48209	38637	17834	2353	153754
Peak Shortage (MW)	763	0	0	0	26	789
Energy Met (MU)	912	1106	916	341	40	3315
Hydro Gen (MU)	122	47	84	39	9	300
Wind Gen (MU)	8	64	55	-----	-----	128
Solar Gen (MU)*	28.45	20.22	65.29	2.10	0.04	116
Energy Shortage (MU)	12.6	0.1	0.0	0.0	0.3	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46969 18:36	51553 10:27	44135 07:53	18074 18:23	2482 17:26	155993 18:29

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	0.036	0.00	0.58	4.35	4.93	73.53	21.54

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	5656	0	109.4	58.2	-1.2	112	0.0
	Haryana	6515	0	120.7	91.8	0.4	229	0.5
	Rajasthan	12191	0	223.2	61.8	2.1	593	0.0
	Delhi	4162	0	70.2	56.2	-1.6	235	0.0
	UP	14136	55	263.3	106.2	0.7	783	0.0
	Uttarakhand	2021	0	39.3	21.7	0.9	170	0.3
	HP	1703	0	31.5	23.0	1.2	312	0.0
	J&K(UT) and Ladakh(UT)	2551	638	50.2	42.8	2.1	463	11.9
	Chandigarh	256	0	4.4	4.2	0.3	44	0.0
WR	Chhattisgarh	3461	0	76.2	17.9	0.0	271	0.0
	Gujarat	14780	0	316.4	89.4	0.4	793	0.0
	MP	12056	0	224.1	109.9	-2.9	412	0.0
	Maharashtra	21743	0	444.6	132.8	-0.2	435	0.0
	Goa	580	0	12.4	11.7	0.1	34	0.1
	DD	330	0	7.4	6.9	0.5	48	0.0
	DNH	814	0	18.8	18.8	0.1	46	0.0
	Essar steel	308	0	5.8	6.0	-0.2	238	0.0
	Andhra Pradesh	7831	0	160.2	68.3	0.3	571	0.0
SR	Telangana	10429	0	211.7	109.7	0.8	534	0.0
	Karnataka	10941	0	196.4	36.7	-0.4	505	0.0
	Kerala	3541	0	69.8	55.7	1.4	283	0.0
	Tamil Nadu	13471	0	270.6	140.1	-0.3	601	0.0
	Pondy	360	0	7.1	7.5	-0.3	21	0.0
	Bihar	3991	0	71.0	67.7	1.7	150	0.0
ER	DVC	3123	0	63.7	-33.7	0.1	100	0.0
	Jharkhand	1272	0	23.9	15.7	-1.2	50	0.0
	Odisha	3712	0	69.3	13.6	-0.7	180	0.0
	West Bengal	6188	0	111.2	34.7	2.7	380	0.0
	Sikkim	121	0	1.8	1.6	0.2	25	0.0
	Arunachal Pradesh	120	2	2.1	1.7	0.2	60	0.0
NER	Assam	1379	18	22.0	17.8	0.1	124	0.2
	Manipur	203	1	2.6	2.9	-0.3	42	0.0
	Meghalaya	347	0	6.0	2.9	0.4	80	0.0
	Mizoram	101	1	1.8	1.1	0.1	39	0.0
	Nagaland	128	2	2.2	2.3	-0.3	16	0.0
	Tripura	227	4	3.5	1.6	-0.4	28	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.3	-7.0	-9.6
Day peak (MW)	294.3	-428.2	-750.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	215.1	-223.2	114.9	-109.7	2.8	0.0
Actual(MU)	222.8	-242.6	119.6	-103.9	1.8	-2.4
O/D/U/D(MU)	7.7	-19.4	4.7	5.7	-1.1	-2.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4671	18693	8552	1260	651	33827
State Sector	11682	16581	8630	6700	11	43604
Total	16353	35273	17182	7960	663	77431

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	438	1129	457	423	12	2458
Lignite	25	15	44	0	0	83
Hydro	122	47	84	39	9	300
Nuclear	29	28	44	0	0	101
Gas, Naptha & Diesel	32	33	16	0	22	104
RES (Wind, Solar, Biomass & Others)	65	97	167	2	0	331
Total	711	1348	812	464	43	3377

Share of RES in total generation (%)	9.18	7.17	20.59	0.46	0.09	9.81
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.37	12.70	36.37	8.81	21.20	21.69

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.046
Based on State Max Demands	1.095

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 : 19-Dec-19

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	198	0.0	4.9	-4.9
1	765kV	GAYA-VARANASI	D/C	0	1177	0.0	14.8	-14.8
2		SASARAM-FATEHPUR	S/C	0	501	0.0	5.9	-5.9
3		GAYA-BALIA	S/C	0	441	0.0	4.2	-4.2
6	400 kV	PUSAULI-VARANASI	S/C	0	143	0.0	2.5	-2.5
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.2	-2.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	895	0.0	12.6	-12.6
9		PATNA-BALIA	Q/C	0	1123	0.0	18.4	-18.4
10		BIHARSHARIFF-BALIA	D/C	0	467	0.0	7.0	-7.0
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	380	0.0	4.0	-4.0
13		220 kV	PUSAULI-SAHUPURI	S/C	9	63	0.0	0.5
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	72.1	-71.8
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1270	420	11.1	0.0	11.1
19		NEW RANCHI-DHARAMJAIGARH	D/C	438	503	0.0	0.4	-0.4
20		JHARSUGUDA-DURG	D/C	10	371	0.0	2.0	-2.0
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	328	51	3.0	0.0	3.0
22		RANCHI-SIPAT	D/C	185	263	0.2	0.0	0.2
23	220 kV	BUDHIPADAR-RAIGARH	S/C	29	91	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	155	0	2.2	0.0	2.2
ER-WR						16.5	3.4	13.1
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	625.0	0.0	14.7	-14.7
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2478.0	0.0	45.0	-45.0
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1987.0	0.0	34.1	-34.1
28	400 kV	TALCHER-I/C	D/C	717.0	1276.0	0.0	4.3	-4.3
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	93.8	-93.8
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	241	38	3.1	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	275	0	3.9	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	55	44	0.4	0.0	0
ER-NER						7.4	0.0	7.4
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	485	0	10.0	0.0	10.0
NER-NR						10.0	0.0	10.0
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1727	0.0	27.0	-27.0
35		V'CHAL B/B	D/C	230	490	2.3	5.7	-3.4
36	765 kV	APL -MHG	D/C	0	1556	0.0	26.5	-26.5
37		GWALIOR-AGRA	D/C	0	2438	0.0	45.4	-45.4
38		PHAGI-GWALIOR	D/C	0	1682	0.0	23.7	-23.7
39		JABALPUR-ORAI	D/C	0	820	0.0	29.6	-29.6
40		GWALIOR-ORAI	S/C	702	0	10.9	0.0	10.9
41		SATNA-ORAI	S/C	0	1428	0.0	30.0	-30.0
42		CHITTORGARH-BANASKANTHA	D/C	104	849	0.0	4.9	-4.9
43		ZERDA-KANKROLI	S/C	102	104	0.4	0.0	0.4
44	400 kV	ZERDA -BHINMAL	S/C	73	309	0.0	2.0	-2.0
45		V'CHAL -RIHAND	S/C	976	0	22.2	0.0	22.2
46		RAPP-SHUJALPUR	D/C	137	335	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	20	70	0.6	0.1	0.5
48		BHANPURA-MORAK	S/C	3	125	0.0	1.6	-1.6
49		MEHGAON-AURAIYA	S/C	83	0	0.9	0.0	0.9
50		MALANPUR-AURAIYA	S/C	32	28	0.1	0.2	-0.1
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						37.5	197.7	-160.3
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	505	0.0	11.8	-11.8
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	472	1908	0.7	24.1	-23.4
55		WARDHA-NIZAMABAD	D/C	0	2350	0.0	43.1	-43.1
56	400 kV	KOLHAPUR-KUDGI	D/C	746	0	9.2	0.0	9.2
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	103	0.0	1.4	-1.4
59		XELDEM-AMBEWADI	S/C	0	115	1.6	0.0	1.6
WR-SR						11.6	80.5	-68.9
TRANSNATIONAL EXCHANGE								
60		BHUTAN						6.3
61		NEPAL						-7.0
62		BANGLADESH						-9.6