



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: 29th 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 28.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-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 28th Dec 2019, 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 29-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)	50017	47409	38016	17331	2410	155183
Peak Shortage (MW)	720	0	0	0	24	744
Energy Met (MU)	997	1111	943	347	41	3439
Hydro Gen (MU)	118	38	78	32	9	275
Wind Gen (MU)	11	83	41	-----	-----	134
Solar Gen (MU)*	27.43	24.10	75.13	1.66	0.03	128
Energy Shortage (MU)	13.9	0.1	0.0	0.0	0.6	14.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	50948 09:24	54216 11:06	44758 08:13	18812 18:53	2472 18:04	165643 09:29

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	0.034	0.00	0.00	2.09	2.09	71.75	26.16

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	6453	0	122.1	57.0	-1.5	67	0.0
	Haryana	6740	0	133.0	85.1	-0.3	253	0.0
	Rajasthan	12646	0	234.6	65.0	-2.0	240	0.0
	Delhi	4630	0	80.4	66.7	1.4	379	0.0
	UP	16335	1065	297.0	125.8	1.6	671	1.2
	Uttarakhand	2130	0	41.5	28.8	0.0	164	0.1
	HP	1677	0	30.0	23.5	-0.6	140	0.0
	J&K(UT) and Ladakh(UT)	2878	720	53.4	45.6	2.3	768	12.6
	Chandigarh	277	0	4.7	4.6	0.1	35	0.0
WR	Chhattisgarh	3605	0	75.8	17.4	-0.7	244	0.0
	Gujarat	15433	0	317.6	71.6	-1.7	476	0.0
	MP	13604	0	246.2	120.2	-2.7	438	0.0
	Maharashtra	20969	0	425.5	131.4	2.0	683	0.0
	Goa	529	0	13.4	11.9	0.9	40	0.1
	DD	322	0	7.2	6.8	0.4	41	0.0
	DNH	804	0	18.7	18.7	0.0	35	0.0
	Essar steel	349	0	6.5	6.5	0.0	245	0.0
	Andhra Pradesh	8436	0	170.1	67.1	0.0	391	0.0
SR	Telangana	10269	0	208.3	104.6	-0.5	473	0.0
	Karnataka	11535	0	208.1	52.4	0.3	543	0.0
	Kerala	3618	0	73.6	58.3	1.6	238	0.0
	Tamil Nadu	13320	0	276.3	155.8	0.8	393	0.0
	Pondy	340	0	6.7	7.2	-0.5	41	0.0
	Bihar	4637	0	76.1	75.9	-1.3	250	0.0
ER	DVC	3193	0	62.7	-34.7	0.8	400	0.0
	Jharkhand	1338	0	24.5	16.2	-1.3	80	0.0
	Odisha	4053	0	70.3	3.7	0.2	230	0.0
	West Bengal	6261	0	111.1	25.1	1.2	400	0.0
	Sikkim	132	0	2.1	1.7	0.4	40	0.0
	Arunachal Pradesh	123	2	2.2	1.9	0.2	38	0.0
NER	Assam	1365	11	22.4	17.3	0.6	92	0.2
	Manipur	198	1	2.6	2.9	-0.3	24	0.0
	Meghalaya	371	0	6.4	3.0	0.5	71	0.4
	Mizoram	104	1	1.7	1.2	0.1	36	0.0
	Nagaland	126	2	2.3	2.1	0.0	17	0.0
	Tripura	222	0	3.5	1.5	-0.3	42	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.3	-7.9	-8.5
Day peak (MW)	363.6	-443.0	-740.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	264.9	-282.0	115.2	-96.6	-1.4	0.1
Actual(MU)	277.7	-308.8	131.5	-106.1	0.2	-5.5
O/D/U/D(MU)	12.8	-26.8	16.3	-9.5	1.6	-5.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5800	15093	7002	2670	597	31161
State Sector	12704	16282	8450	5490	11	42937
Total	18504	31374	15452	8160	608	74098

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	481	1198	472	445	13	2608
Lignite	20	17	52	0	0	88
Hydro	118	38	78	32	9	275
Nuclear	29	27	44	0	0	101
Gas, Naptha & Diesel	28	29	18	0	24	98
RES (Wind, Solar, Biomass & Others)	68	120	159	2	0	348
Total	742	1427	822	479	46	3517

Share of RES in total generation (%)	9.12	8.39	19.29	0.36	0.07	9.89
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	28.90	12.94	34.17	7.12	18.98	20.56

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.081

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 : 29-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	297	0.0	7.0	-7.0
1	765kV	GAYA-VARANASI	D/C	0	993	0.0	11.0	-11.0
2		SASARAM-FATEHPUR	S/C	0	436	0.0	5.1	-5.1
3		GAYA-BALIA	S/C	0	568	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	S/C	0	205	0.0	3.7	-3.7
7		PUSAULI -ALLAHABAD	S/C	0	185	0.0	3.1	-3.1
8		MUZAFFARPUR-GORAKHPUR	D/C	0	957	0.0	12.1	-12.1
9		PATNA-BALIA	Q/C	0	897	0.0	15.5	-15.5
10		BIHARSHARIFF-BALIA	D/C	0	463	0.0	7.8	-7.8
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	418	0.0	4.9	-4.9
13		220 kV	PUSAULI-SAHUPURI	S/C	0	149	0.0	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	0.4	0.0	0.4
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						0.4	74.4	-74.0
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5042	443	4.3	0.0	4.3
19		NEW RANCHI-DHARAMJAIGARH	D/C	616	49	5.5	0.0	5.5
20		JHARSUGUDA-DURG	D/C	999810	397	0.0	3.5	-3.5
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	285	97	2.0	0.0	2.0
22		RANCHI-SIPAT	D/C	236	0	2.8	0.0	2.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	153	0.0	2.0	-2.0
24		BUDHIPADAR-KORBA	D/C	199	7	2.1	0.0	2.1
ER-WR						16.7	5.5	11.2
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	504.0	0.0	8.8	-8.8
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2467.0	0.0	44.8	-44.8
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2110.0	0.0	41.3	-41.3
28	400 kV	TALCHER-I/C	D/C	420.0	976.0	0.0	4.1	-4.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	94.8	-94.8
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	304	47	4.1	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	350	8	5.2	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	76	13	0.9	0.0	1
ER-NER						10.2	0.0	10.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	491	0	11.2	0.0	11.2
NER-NR						11.2	0.0	11.2
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2704	0.0	54.9	-54.9
35		VCHAL B/B	D/C	0	487	0.0	6.6	-6.6
36		APL -MHG	D/C	0	1926	0.0	39.5	-39.5
37	765 kV	GWALIOR-AGRA	D/C	0	2739	0.0	52.8	-52.8
38		PHAGI-GWALIOR	D/C	0	1685	0.0	22.2	-22.2
39		JABALPUR-ORAI	D/C	0	1002	0.0	33.9	-33.9
40		GWALIOR-ORAI	S/C	644	0	10.6	0.0	10.6
41		SATNA-ORAI	S/C	0	1492	0.0	30.9	-30.9
42		CHITTORGARH-BANASKANTHA	D/C	135	1142	0.0	4.5	-4.5
43	400 kV	ZERDA-KANKROLI	S/C	137	190	0.5	0.0	0.5
44		ZERDA -BHINMAL	S/C	114	432	0.0	2.4	-2.4
45		VCHAL -RIHAND	S/C	969	0	22.1	0.0	22.1
46		RAPP-SHUJALPUR	D/C	87	375	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	30	75	0.4	0.3	0.0
48		BHANPURA-MORAK	S/C	17	104	0.0	1.1	-1.1
49		MEHGAON-AURAIYA	S/C	74	0	0.8	0.0	0.8
50	132kV	MALANPUR-AURAIYA	S/C	28	38	0.1	0.2	-0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						34.4	250.5	-216.1
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	495	0.0	11.0	-11.0
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	44	2068	0.0	29.7	-29.7
55		WARDHA-NIZAMABAD	D/C	0	2846	0.0	48.6	-48.6
56	400 kV	KOLHAPUR-KUDGI	D/C	746	0	9.4	0.0	9.4
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	3	91	0.0	0.6	-0.5
59		XELDEM-AMBEWADI	S/C	1	101	1.2	0.0	1.2
WR-SR						10.6	89.9	-79.3
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.3
61		NEPAL						-7.9
62		BANGLADESH						-8.5