



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: 25 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 24.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 24-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 24 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 25-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)	48501	48324	39385	18234	2436	156880
Peak Shortage (MW)	539	0	0	0	21	560
Energy Met (MU)	961	1150	965	340	40	3456
Hydro Gen (MU)	123	53	93	31	9	309
Wind Gen (MU)	20	53	38	-----	-----	111
Solar Gen (MU)*	25.80	17.50	76.89	1.82	0.02	122
Energy Shortage (MU)	12.2	0.0	0.0	0.0	0.5	12.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49887 09:49	55241 10:27	46530 09:34	18309 18:47	2513 17:23	167931 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	0.036	0.07	0.59	6.03	6.69	80.49	12.82

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	6103	0	118.6	54.7	-1.5	40	0.0
	Haryana	6685	0	131.1	88.9	0.0	146	0.0
	Rajasthan	12994	0	232.8	53.9	-0.2	373	0.0
	Delhi	4477	0	76.9	59.9	-0.2	272	0.0
	UP	15328	0	276.6	115.5	-1.8	862	0.0
	Uttarakhand	2120	0	39.1	24.3	0.2	172	0.0
	HP	1694	0	30.4	23.9	-1.0	110	0.0
	J&K(UT) and Ladakh(UT)	2470	617	51.4	44.5	1.2	229	12.2
	Chandigarh	270	0	4.5	4.4	0.1	23	0.0
WR	Chhattisgarh	3608	0	78.2	22.2	-0.6	223	0.0
	Gujarat	15786	0	329.8	84.7	-1.4	341	0.0
	MP	13358	0	239.7	125.3	-3.0	567	0.0
	Maharashtra	22403	0	456.7	156.3	-0.2	387	0.0
	Goa	610	0	13.1	12.4	0.1	35	0.0
	DD	332	0	7.4	7.0	0.4	34	0.0
	DNH	821	0	19.0	19.0	0.0	59	0.0
	Essar steel	301	0	5.6	6.1	-0.5	250	0.0
	Andhra Pradesh	8366	0	167.7	65.0	-0.6	299	0.0
SR	Telangana	10749	0	223.4	114.2	0.5	488	0.0
	Karnataka	11574	0	209.0	47.1	-1.2	372	0.0
	Kerala	3580	0	72.5	54.8	1.0	196	0.0
	Tamil Nadu	13349	0	285.9	167.3	-0.1	558	0.0
	Pondy	335	0	6.7	7.2	-0.5	14	0.0
	Bihar	4389	0	71.6	70.3	-0.3	262	0.0
ER	DVC	3157	0	63.5	-32.0	-0.2	305	0.0
	Jharkhand	1310	0	24.1	16.0	-0.5	105	0.0
	Odisha	3668	0	66.9	13.3	0.4	270	0.0
	West Bengal	6051	0	111.8	27.7	0.8	305	0.0
	Sikkim	134	0	2.0	1.9	0.2	40	0.0
	Arunachal Pradesh	114	1	2.2	1.8	0.2	34	0.0
NER	Assam	1395	7	21.7	16.6	0.3	112	0.1
	Manipur	208	0	2.7	3.0	-0.3	70	0.0
	Meghalaya	357	0	6.0	2.4	0.6	95	0.4
	Mizoram	103	1	1.8	1.3	-0.1	22	0.0
	Nagaland	131	1	2.2	2.2	-0.2	18	0.0
	Tripura	219	0	3.5	1.5	0.2	54	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.8	-8.9	-9.9
Day peak (MW)	283.5	-483.8	-762.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	221.8	-247.2	118.1	-94.5	1.9	0.0
Actual(MU)	214.5	-259.7	130.8	-93.2	4.5	-3.1
O/D/U/D(MU)	-7.3	-12.5	12.7	1.4	2.6	-3.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4941	15233	7252	1520	597	29542
State Sector	11500	15367	8670	5390	11	40938
Total	16441	30599	15922	6910	608	70480

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	487	1218	472	422	13	2612
Lignite	23	12	56	0	0	91
Hydro	123	53	93	31	9	309
Nuclear	29	28	44	0	0	101
Gas, Naptha & Diesel	34	35	16	0	18	104
RES (Wind, Solar, Biomass & Others)	76	82	159	2	0	318
Total	772	1428	839	455	41	3534

Share of RES in total generation (%)	9.79	5.75	18.89	0.41	0.05	9.00
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.48	11.37	35.21	7.29	23.45	20.60

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.063

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 : 25-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	299	0.0	7.4	-7.4
1	765kV	GAYA-VARANASI	D/C	0	868	0.0	11.3	-11.3
2		SASARAM-FATEHPUR	S/C	0	177	0.0	5.2	-5.2
3		GAYA-BALIA	S/C	0	436	0.0	7.0	-7.0
6	400 kV	PUSAULI-VARANASI	S/C	0	222	0.0	4.2	-4.2
7		PUSAULI -ALLAHABAD	S/C	0	176	0.0	2.9	-2.9
8		MUZAFFARPUR-GORAKHPUR	D/C	0	900	0.0	10.5	-10.5
9		PATNA-BALIA	Q/C	0	864	0.0	15.1	-15.1
10		BIHARSHARIFF-BALIA	D/C	0	455	0.0	7.3	-7.3
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	35	369	0.0	3.6	-3.6
13		220 kV	PUSAULI-SAHUPURI	S/C	15	85	0.0	0.8
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	67.8	-67.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1415	0	21.2	0.0	21.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	554	194	3.8	0.0	3.8
20		JHARSUGUDA-DURG	D/C	141	144	0.0	0.7	-0.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	381	127	2.9	0.0	2.9
22		RANCHI-SIPAT	D/C	249	40	1.8	0.0	1.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	13	86	0.0	0.7	-0.7
24		BUDHIPADAR-KORBA	D/C	191	0	2.6	0.0	2.6
ER-WR						32.2	1.3	30.9
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	675.0	0.0	12.4	-12.4
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2465.0	0.0	49.2	-49.2
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2017.0	0.0	38.0	-38.0
28	400 kV	TALCHER-I/C	D/C	0.0	1223.0	0.0	12.8	-12.8
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	99.6	-99.6
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	215	131	2.7	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	269	104	3.1	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	47	48	0.4	0.0	0
ER-NER						6.2	0.0	6.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	489	0	11.5	0.0	11.5
NER-NR						11.5	0.0	11.5
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1852	0.0	38.4	-38.4
35		V'CHAL B/B	D/C	230	250	5.1	0.9	4.2
36	765 kV	APL -MHG	D/C	0	1365	0.0	33.9	-33.9
37		GWALIOR-AGRA	D/C	0	2494	0.0	48.0	-48.0
38		PHAGI-GWALIOR	D/C	0	1339	0.0	20.3	-20.3
39		JABALPUR-ORAI	D/C	0	842	0.0	27.5	-27.5
40		GWALIOR-ORAI	S/C	756	0	12.2	0.0	12.2
41		SATNA-ORAI	S/C	0	1561	0.0	30.8	-30.8
42		CHITTORGARH-BANASKANTHA	D/C	214	744	0.0	1.9	-1.9
43		ZERDA-KANKROLI	S/C	178	81	1.4	0.0	1.4
44	400 kV	ZERDA -BHINMAL	S/C	293	265	0.3	0.0	0.3
45		V'CHAL -RIHAND	S/C	971	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	229	243	0	0	0
47	220 kV	BHANPURA-RANPUR	S/C	40	37	0.9	0.0	0.8
48		BHANPURA-MORAK	S/C	33	66	0.2	0.5	-0.3
49		MEHGAON-AURAIYA	S/C	91	0	1.1	0.0	1.1
50	132kV	MALANPUR-AURAIYA	S/C	43	40	0.2	0.1	0.1
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						43.7	202.3	-158.6
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.1	-12.1
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	183	1895	0.1	27.2	-27.1
55		WARDHA-NIZAMABAD	D/C	0	2510	0.0	44.8	-44.8
56	400 kV	KOLHAPUR-KUDGI	D/C	819	0	12.3	0.0	12.3
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	100	0.0	1.6	-1.6
59		XELDEM-AMBEWADI	S/C	0	111	1.8	0.0	1.8
WR-SR						14.1	85.7	-71.6
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.8
61		NEPAL						-8.9
62		BANGLADESH						-9.9