



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: 14th 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 13.12.2019.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-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 13th 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

14-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)	40678	46838	38311	17140	2189	145156
Peak Shortage (MW)	425	0	0	0	37	462
Energy Met (MU)	748	1090	926	332	37	3132
Hydro Gen (MU)	126	36	79	41	9	291
Wind Gen (MU)	3	25	36	-----	-----	64
Solar Gen (MU)*	19.02	21	81.67	1.37	0.03	123
Energy Shortage (MU)	9.2	0.0	0.0	0.0	0.3	9.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	41204 18:28	49850 11:13	44592 07:34	17548 18:26	2360 17:21	149581 18:28

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	0.051	0.00	0.00	6.18	6.18	65.22	28.60

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	4938	0	94.7	51.7	-1.2	185	0.0
	Haryana	5816	0	95.7	70.5	0.4	230	0.0
	Rajasthan	11034	0	202.2	62.3	-1.0	555	0.0
	Delhi	3900	0	66.8	54.8	-0.2	264	0.0
	UP	11777	0	186.8	81.8	-10.1	945	0.0
	Uttarakhand	1521	0	29.5	17.5	-3.1	115	0.0
	HP	1572	0	29.2	22.1	-0.6	109	0.0
	J&K(UT) and Ladakh(UT)	2087	522	38.9	33.1	-0.5	201	9.2
	Chandigarh	231	0	4.3	3.8	0.4	66	0.0
WR	Chhattisgarh	3544	0	75.8	16.4	-1.1	148	0.0
	Gujarat	15014	0	319.3	113.0	2.6	490	0.0
	MP	11008	0	211.0	115.5	-1.3	419	0.0
	Maharashtra	21301	0	438.7	150.8	-7.7	441	0.0
	Goa	613	0	12.6	12.2	0.0	30	0.0
	DD	337	0	7.4	7.0	0.4	43	0.0
	DNH	801	0	18.8	18.9	-0.1	25	0.0
	Essar steel	320	0	6.1	5.8	0.3	295	0.0
	SR	Andhra Pradesh	7658	0	159.3	72.6	0.6	277
Telangana		9791	0	199.6	94.7	1.4	692	0.0
Karnataka		11279	0	204.2	38.5	3.2	980	0.0
Kerala		3640	0	72.4	58.0	1.1	214	0.0
Tamil Nadu		13937	0	283.2	160.0	-1.1	407	0.0
Pondy		357	0	7.3	7.5	-0.2	29	0.0
ER	Bihar	3250	0	53.8	54.6	-1.5	310	0.0
	DVC	2969	0	62.6	-29.0	-1.3	280	0.0
	Jharkhand	1231	0	24.0	17.7	-1.2	31	0.0
	Odisha	4006	0	76.2	14.4	0.2	220	0.0
	West Bengal	6234	0	113.2	18.7	0.9	290	0.0
	Sikkim	104	0	1.8	1.7	0.1	20	0.0
NER	Arunachal Pradesh	117	2	2.1	1.7	0.1	32	0.0
	Assam	1253	12	19.0	15.8	0.9	176	0.3
	Manipur	187	2	2.6	2.7	-0.1	33	0.0
	Meghalaya	344	0	6.0	2.4	0.8	64	0.0
	Mizoram	101	2	1.7	0.7	0.4	28	0.0
	Nagaland	119	3	2.1	2.2	-0.3	64	0.0
Tripura	223	0	3.3	1.2	-0.6	29	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.5	-5.3	-7.1
Day peak (MW)	330.5	-322.7	-547.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	176.5	-179.8	118.2	-114.5	-0.5	-0.1
Actual(MU)	140.0	-174.6	141.1	-109.0	3.3	0.8
O/D/U/D(MU)	-36.5	5.2	22.9	5.5	3.8	0.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5671	16553	7862	1260	694	32039
State Sector	15397	15182	9120	6570	11	46280
Total	21068	31734	16982	7830	705	78319

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	369	1124	441	409	12	2355
Lignite	20	14	40	0	0	73
Hydro	126	36	79	41	9	291
Nuclear	24	25	57	0	0	106
Gas, Naptha & Diesel	26	32	16	0	17	90
RES (Wind, Solar, Biomass & Others)	50	51	159	1	0	262
Total	616	1282	791	451	37	3179

Share of RES in total generation (%)	8.19	3.98	20.10	0.31	0.08	8.24
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	32.60	8.75	37.30	9.31	24.68	20.75

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.040
Based on State Max Demands	1.087

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 : 14-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	196	0.0	4.8	-4.8
1	765kV	GAYA-VARANASI	D/C	80	1146	0.0	11.9	-11.9
2		SASARAM-FATEHPUR	S/C	0	620	0.0	6.7	-6.7
3		GAYA-BALIA	S/C	0	392	0.0	2.2	-2.2
6	400 kV	PUSAULI-VARANASI	S/C	0	161	0.0	2.5	-2.5
7		PUSAULI -ALLAHABAD	S/C	0	166	0.0	2.2	-2.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	968	0.0	11.2	-11.2
9		PATNA-BALIA	Q/C	0	1166	0.0	14.8	-14.8
10		BIHARSHARIFF-BALIA	D/C	0	536	0.0	7.3	-7.3
11		MOTIHARI-GORAKHPUR	D/C	4	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	73	455	0.0	4.2	-4.2
13	220 kV	PUSAULI-SAHUPURI	S/C	56	76	0.0	0.5	-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	63.3	-63.1
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1467	84	16.4	0.0	16.4
19		NEW RANCHI-DHARAMJAIGARH	D/C	169	725	0.0	6.8	-6.8
20		JHARSUGUDA-DURG	D/C	12	314	0.0	3.3	-3.3
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	273	166	1.0	0.0	1.0
22		RANCHI-SIPAT	D/C	116	211	0.0	1.1	-1.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	140	0.0	2.2	-2.2
24		BUDHIPADAR-KORBA	D/C	153	0	2.2	0.0	2.2
ER-WR						19.6	13.5	6.1
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	684.0	0.0	16.1	-16.1
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1983.0	0.0	36.5	-36.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2201.0	0.0	40.7	-40.7
28	400 kV	TALCHER-I/C	D/C	899.0	995.0	0.0	2.1	-2.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	93.3	-93.3
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	234	23	3.4	0.0	3
31		ALIPURDUAR-BONGAIGAON	D/C	200	0	2.5	0.0	2
32	220 kV	ALIPURDUAR-SALAKATI	D/C	44	37	0.5	0.0	0
ER-NER						6.3	0.0	6.3
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	485	0	10.4	0.0	10.4
NER-NR						10.4	0.0	10.4
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	580	0.0	13.2	-13.2
35		VCHAL B/B	D/C	363	0	9.8	0.0	9.8
36		APL -MHG	D/C	0	884	0.0	13.9	-13.9
37	765 kV	GWALIOR-AGRA	D/C	0	2361	0.0	34.1	-34.1
38		PHAGI-GWALIOR	D/C	0	1698	0.0	22.1	-22.1
39		JABALPUR-ORAI	D/C	77	684	0.0	18.9	-18.9
40		GWALIOR-ORAI	S/C	780	0	11.8	0.0	11.8
41		SATNA-ORAI	S/C	0	1379	0.0	25.5	-25.5
42		CHITTORGARH-BANASKANTHA	D/C	539	759	0.0	2.2	-2.2
43		ZERDA-KANKROLI	S/C	188	106	0.8	0.0	0.8
44	400 kV	ZERDA -BHINMAL	S/C	139	354	0.0	2.7	-2.7
45		VCHAL -RIHAND	S/C	982	0	21.3	0.0	21.3
46		RAPP-SHUJALPUR	D/C	274	260	1	2	0
47	220 kV	BHANPURA-RANPUR	S/C	25	79	0.6	0.0	0.6
48		BHANPURA-MORAK	S/C	36	141	0.0	1.6	-1.6
49		MEHGAON-AURAIYA	S/C	131	0	1.4	0.0	1.4
50	132kV	MALANPUR-AURAIYA	S/C	99	13	0.8	0.0	0.8
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						47.8	136.0	-88.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	813	0.0	16.3	-16.3
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2229	0.0	31.1	-31.1
55		WARDHA-NIZAMABAD	D/C	1963	2781	0.0	40.5	-40.5
56	400 kV	KOLHAPUR-KUDGI	D/C	534	0	7.9	0.0	7.9
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	0	67	0.0	1.3	-1.3
59		XELDEM-AMBEWADI	S/C	0	76	1.4	0.0	1.4
WR-SR						9.3	89.1	-79.7
TRANSNATIONAL EXCHANGE								
60		BHUTAN						6.5
61		NEPAL						-5.3
62		BANGLADESH						-7.1