



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: 23th 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., डोंगतिह, 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 22.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 22-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 22th Dec 2019, is available at the NLDC website.

धन्यवाद,

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)	44436	45325	36290	17852	2335	146238
Peak Shortage (MW)	601	0	0	0	23	624
Energy Met (MU)	910	1113	900	334	38	3294
Hydro Gen (MU)	119	43	70	32	9	272
Wind Gen (MU)	22	85	47	-----	-----	154
Solar Gen (MU)*	30.87	19.30	77.42	1.78	0.01	129
Energy Shortage (MU)	11.9	0.0	0.0	0.0	0.7	12.7
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46823 09:40	53950 11:15	41907 09:14	17586 18:47	2373 17:39	158388 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	0.032	0.00	0.00	4.94	4.94	78.37	16.69

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	5580	0	111.3	56.1	-1.6	79	0.0
	Haryana	5990	0	115.8	81.0	0.4	246	0.0
	Rajasthan	12943	0	227.9	50.8	-3.2	293	0.0
	Delhi	4028	0	70.0	53.4	0.1	260	0.0
	UP	14358	150	266.1	113.8	-2.0	447	0.0
	Uttarakhand	1969	0	36.0	20.3	0.7	163	0.0
	HP	1596	0	28.2	21.2	-0.5	154	0.0
	J&K(UT) and Ladakh(UT)	2509	627	50.6	44.3	0.9	337	11.9
	Chandigarh	235	0	3.9	3.9	0.0	39	0.0
WR	Chhattisgarh	3545	0	79.7	22.1	1.8	176	0.0
	Gujarat	15444	0	316.0	85.9	-0.1	644	0.0
	MP	13312	0	240.9	127.5	-3.2	356	0.0
	Maharashtra	21028	0	431.0	142.3	-0.3	529	0.0
	Goa	542	0	11.9	11.1	0.2	43	0.0
	DD	302	0	7.0	6.3	0.7	54	0.0
	DNH	782	0	18.5	18.4	0.1	71	0.0
	Essar steel	365	0	7.5	7.4	0.1	253	0.0
	SR	Andhra Pradesh	8052	0	164.8	72.3	-0.3	344
Telangana		10420	0	216.4	109.0	0.6	468	0.0
Karnataka		10660	0	192.6	39.2	-1.2	450	0.0
Kerala		3248	0	64.7	53.6	0.9	195	0.0
Tamil Nadu		12011	0	254.8	134.6	-0.5	453	0.0
Pondy		314	0	6.3	6.7	-0.4	30	0.0
ER	Bihar	4160	0	73.4	72.8	-0.8	100	0.0
	DVC	3146	0	63.6	-30.8	-0.1	140	0.0
	Jharkhand	1314	0	25.3	17.2	-1.1	40	0.0
	Odisha	3831	0	66.4	14.5	-0.3	230	0.0
	West Bengal	5641	0	104.1	29.2	1.5	260	0.0
	Sikkim	121	0	1.7	1.6	0.1	30	0.0
NER	Arunachal Pradesh	124	1	2.1	2.0	-0.1	38	0.0
	Assam	1267	16	20.3	16.9	0.1	84	0.5
	Manipur	198	2	2.5	3.1	-0.6	18	0.0
	Meghalaya	342	0	5.9	3.1	0.5	68	0.2
	Mizoram	99	1	1.9	1.2	0.2	18	0.0
	Nagaland	135	2	2.1	2.3	-0.4	6	0.0
Tripura	216	4	3.5	1.6	0.2	46	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.6	-7.4	-9.7
Day peak (MW)	422.2	-457.6	-758.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	207.8	-232.2	113.3	-88.8	0.0	0.1
Actual(MU)	207.4	-248.6	127.5	-86.9	-1.0	-1.5
O/D/U/D(MU)	-0.3	-16.4	14.2	1.9	-1.1	-1.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5690	15373	8002	1320	597	30981
State Sector	11600	16907	8670	6550	11	43738
Total	17290	32279	16672	7870	608	74719

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	449	1123	438	406	11	2427
Lignite	20	15	44	0	0	80
Hydro	119	43	70	32	9	272
Nuclear	29	28	44	0	0	101
Gas, Naptha & Diesel	29	27	16	0	23	96
RES (Wind, Solar, Biomass & Others)	83	124	169	2	0	378
Total	729	1360	782	440	43	3353

Share of RES in total generation (%)	11.35	9.12	21.63	0.41	0.02	11.26
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.61	14.31	36.25	7.75	20.15	22.40

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.072

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 : 23-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	1008	0.0	13.0	-13.0
2		SASARAM-FATEHPUR	S/C	0	376	0.0	4.8	-4.8
3		GAYA-BALIA	S/C	0	445	0.0	3.6	-3.6
6	400 kV	PUSAULI-VARANASI	S/C	0	204	0.0	4.2	-4.2
7		PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.0	-3.0
8		MUZAFFARPUR-GORAKHPUR	D/C	0	873	0.0	11.5	-11.5
9		PATNA-BALIA	Q/C	0	973	0.0	15.7	-15.7
10		BIHARSHARIFF-BALIA	D/C	0	540	0.0	6.9	-6.9
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	343	0.0	3.4	-3.4
13		220 kV	PUSAULI-SAHUPURI	S/C	20	79	0.0	0.6
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	66.7	-66.4
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1348	0	19.2	0.0	19.2
19		NEW RANCHI-DHARAMJAIGARH	D/C	550	273	4.1	0.0	4.1
20		JHARSUGUDA-DURG	D/C	999999	140	0.1	0.0	0.1
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	317	141	1.7	0.0	1.7
22		RANCHI-SIPAT	D/C	238	74	2.1	0.0	2.1
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	104	0.0	1.2	-1.2
24		BUDHIPADAR-KORBA	D/C	171	0	2.5	0.0	2.5
ER-WR						29.7	1.2	28.5
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	505.0	0.0	9.8	-9.8
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2469.0	0.0	47.6	-47.6
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2356.0	0.0	41.5	-41.5
28	400 kV	TALCHER-I/C	D/C	314.0	1179.0	0.0	9.0	-9.0
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	98.8	-98.8
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	313	0	4.5	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	354	0	5.2	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	69	10	0.8	0.0	1
ER-NER						10.5	0.0	10.5
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	488	0	11.8	0.0	11.8
NER-NR						11.8	0.0	11.8
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2205	0.0	37.3	-37.3
35		VCHAL B/B	D/C	449	0	8.1	0.0	8.1
36		APL -MHG	D/C	0	1553	0.0	32.3	-32.3
37	765 kV	GWALIOR-AGRA	D/C	0	2630	0.0	45.8	-45.8
38		PHAGI-GWALIOR	D/C	0	1227	0.0	15.5	-15.5
39		JABALPUR-ORAI	D/C	0	837	0.0	28.4	-28.4
40		GWALIOR-ORAI	S/C	609	0	9.6	0.0	9.6
41		SATNA-ORAI	S/C	0	1448	0.0	30.6	-30.6
42		CHITTORGARH-BANASKANTHA	D/C	208	814	0.0	4.6	-4.6
43	400 kV	ZERDA-KANKROLI	S/C	175	114	1.1	0.0	1.1
44		ZERDA -BHINMAL	S/C	230	276	0.0	0.1	-0.1
45		VCHAL-RIHAND	S/C	972	0	21.4	0.0	21.4
46		RAPP-SHUJALPUR	D/C	304	187	1	0	1
47	220 kV	BHANPURA-RANPUR	S/C	46	62	0.9	0.1	0.8
48		BHANPURA-MORAK	S/C	42	85	0.2	0.6	-0.4
49		MEHGAON-AURAIYA	S/C	106	0	1.1	0.0	1.1
50	132kV	MALANPUR-AURAIYA	S/C	63	31	0.3	0.1	0.2
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						44.0	195.5	-151.5
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	623	1967	0.0	24.4	-24.4
55		WARDHA-NIZAMABAD	D/C	0	2660	0.0	45.0	-45.0
56	400 kV	KOLHAPUR-KUDGI	D/C	878	0	11.8	0.0	11.8
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	74	0.0	1.3	-1.3
59		XELDEM-AMBEWADI	S/C	0	82	1.5	0.0	1.5
WR-SR						13.2	82.8	-69.5
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.6
61		NEPAL						-7.4
62		BANGLADESH						-9.7