



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: 11th Dec 2019

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- 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
- 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
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतिह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- 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 10.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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)	45092	49133	38185	18102	2212	152724
Peak Shortage (MW)	522	0	82	0	35	639
Energy Met (MU)	894	1165	888	350	38	3335
Hydro Gen (MU)	127	56	92	44	9	328
Wind Gen (MU)	4	23	37	-----	-----	63
Solar Gen (MU)*	27.52	20	74.08	1.86	0.03	123
Energy Shortage (MU)	12.0	0.0	0.9	0.0	0.3	13.1
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46088 18:20	54747 11:04	40969 08:12	18280 18:39	2312 17:25	155854 18:24

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	0.042	0.00	1.34	7.34	8.68	80.75	10.57

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	5965	0	114.1	52.2	-1.2	156	0.0
	Haryana	6160	0	122.1	98.4	0.3	162	0.0
	Rajasthan	12474	0	228.8	73.7	2.5	486	0.0
	Delhi	3607	0	62.9	53.0	-1.0	191	0.0
	UP	13933	0	249.2	100.1	0.6	790	0.8
	Uttarakhand	1926	0	36.1	19.4	0.8	162	0.1
	HP	1646	0	29.7	21.7	0.7	268	0.0
	J&K(UT) and Ladakh(UT)	2392	598	47.2	40.1	0.8	201	11.2
	Chandigarh	216	0	3.5	3.4	0.2	39	0.0
WR	Chhattisgarh	3508	0	74.4	16.7	-1.1	162	0.0
	Gujarat	15620	0	335.5	92.0	3.4	502	0.0
	MP	13750	0	256.0	146.3	-2.3	419	0.0
	Maharashtra	22074	0	454.0	132.6	-4.6	833	0.0
	Goa	541	0	12.8	11.7	0.5	53	0.0
	DD	330	0	7.4	6.8	0.6	53	0.0
	DNH	819	0	19.0	19.0	0.0	40	0.0
	Essar steel	291	0	5.9	5.5	0.4	295	0.0
	Andhra Pradesh	7624	0	159.7	74.7	-1.1	288	0.2
SR	Telangana	9253	20	187.2	83.2	0.0	418	0.2
	Karnataka	10096	0	188.0	45.2	-0.1	1048	0.2
	Kerala	3523	13	71.5	53.5	1.2	202	0.1
	Tamil Nadu	13379	0	274.8	159.1	2.9	1025	0.3
	Pondy	362	1	7.2	7.4	-0.3	25	0.0
	Bihar	3948	0	70.3	66.4	0.9	110	0.0
ER	DVC	3019	0	62.6	-35.0	-0.1	150	0.0
	Jharkhand	1201	0	24.5	16.0	-0.1	31	0.0
	Odisha	4027	0	76.7	11.6	0.5	200	0.0
	West Bengal	6327	0	114.3	25.6	-1.1	120	0.0
	Sikkim	108	0	1.8	1.6	0.2	25	0.0
	Arunachal Pradesh	121	2	2.1	2.0	-0.1	56	0.0
NER	Assam	1194	24	20.0	15.0	0.0	115	0.2
	Manipur	182	3	2.5	2.9	-0.3	24	0.0
	Meghalaya	364	0	6.0	2.9	0.4	62	0.0
	Mizoram	98	1	1.7	0.9	0.2	26	0.0
	Nagaland	123	2	2.1	2.2	-0.3	31	0.0
	Tripura	216	1	3.4	1.6	-0.4	26	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	6.2	-5.4	-9.7
Day peak (MW)	449.6	-344.6	-744.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	210.2	-203.7	93.0	-96.4	-3.2	0.0
Actual(MU)	209.9	-199.8	97.8	-98.5	-6.0	3.3
O/D/U/D(MU)	-0.4	3.9	4.7	-2.2	-2.8	3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6074	18878	7362	2745	597	35656
State Sector	13561	16087	11060	6300	11	47019
Total	19635	34964	18422	9045	608	82674

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	456	1192	441	420	14	2523
Lignite	23	17	43	0	0	82
Hydro	127	56	92	44	9	328
Nuclear	23	26	57	0	0	106
Gas, Naptha & Diesel	24	45	15	0	25	109
RES (Wind, Solar, Biomass & Others)	57	47	152	2	0	259
Total	711	1383	800	466	48	3407

Share of RES in total generation (%)	8.05	3.42	19.03	0.41	0.06	7.59
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.16	9.35	37.65	9.83	19.03	20.33

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.042
Based on State Max Demands	1.093

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 : 11-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	501	0.0	6.9	-6.9
5		PUSAULI B/B	S/C	0	196	0.0	4.9	-4.9
1	765kV	GAYA-VARANASI	D/C	0	794	0.0	13.0	-13.0
2		SASARAM-FATEHPUR	S/C	0	177	0.0	6.6	-6.6
3		GAYA-BALIA	S/C	0	391	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	S/C	0	136	0.0	2.5	-2.5
7		PUSAULI -ALLAHABAD	S/C	0	127	0.0	2.2	-2.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	900	0.0	12.1	-12.1
9		PATNA-BALIA	Q/C	0	867	0.0	17.1	-17.1
10		BIHARSHARIFF-BALIA	D/C	0	371	0.0	6.0	-6.0
11		MOTIHARI-GORAKHPUR	D/C	3	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	346	0.0	4.1	-4.1
13	220 kV	PUSAULI-SAHUPURI	S/C	18	120	0.0	0.9	-0.9
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	72.0	-71.6
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	976	0	12.0	0.0	12.0
19		NEW RANCHI-DHARAMJAIGARH	D/C	421	315	0.6	0.0	0.6
20		JHARSUGUDA-DURG	D/C	54	188	0.0	2.0	-2.0
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	252	103	2.0	0.0	2.0
22		RANCHI-SIPAT	D/C	181	81	1.0	0.0	1.0
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	133	0.0	2.0	-2.0
24		BUDHIPADAR-KORBA	D/C	103	0	1.4	0.0	1.4
ER-WR						17.0	4.0	13.0
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	533.0	0.0	12.3	-12.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1974.0	0.0	37.2	-37.2
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1778.0	0.0	34.3	-34.3
28	400 kV	TALCHER-I/C	D/C	660.0	229.0	5.3	0.0	5.3
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	83.8	-83.8
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	368	203	1.7	0.0	2
31		ALIPURDUAR-BONGAIGAON	D/C	424	0	5.6	0.0	6
32	220 kV	ALIPURDUAR-SALAKATI	D/C	77	36	0.7	0.0	1
ER-NER						8.0	0.0	8.0
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	480	0	2.9	0.0	2.9
NER-NR						2.9	0.0	2.9
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	848	0.0	16.0	-16.0
35		VCHAL B/B	D/C	451	0	9.5	0.0	9.5
36		APL -MHG	D/C	0	1364	0.0	33.9	-33.9
37	765 kV	GWALIOR-AGRA	D/C	0	2118	0.0	35.6	-35.6
38		PHAGI-GWALIOR	D/C	0	1700	0.0	25.1	-25.1
39		JABALPUR-ORAI	D/C	0	710	0.0	26.5	-26.5
40		GWALIOR-ORAI	S/C	685	0	10.3	0.0	10.3
41		SATNA-ORAI	S/C	0	1322	0.0	28.6	-28.6
42	400 kV	CHITTORGARH-BANASKANTHA	D/C	0	716	0.0	4.6	-4.6
43		ZERDA-KANKROLI	S/C	92	128	0.0	0.1	-0.1
44		ZERDA -BHINMAL	S/C	63	374	0.0	3.0	-3.0
45		VCHAL -RIHAND	S/C	981	0	22.8	0.0	22.8
46		RAPP-SHUJALPUR	D/C	161	220	0	0	0
47		BHANPURA-RANPUR	S/C	16	74	0.9	0.0	0.9
48		220 kV	BHANPURA-MORAK	S/C	0	136	0.0	1.4
49	MEHGAON-AURAIYA		S/C	125	0	1.3	0.0	1.3
50	MALANPUR-AURAIYA		S/C	77	20	0.6	0.0	0.6
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						45.3	175.1	-129.9
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	809	0.0	13.4	-13.4
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	522	1733	0.0	14.2	-14.2
55		WARDHA-NIZAMABAD	D/C	1355	2259	0.0	32.6	-32.6
56	400 kV	KOLHAPUR-KUDGI	D/C	719	83	10.6	0.0	10.6
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58	220 kV	PONDA-AMBEWADI	S/C	0	79	0.0	1.2	-1.2
59		XELDEM-AMBEWADI	S/C	0	88	1.4	0.0	1.4
WR-SR						12.0	61.4	-49.3
TRANSNATIONAL EXCHANGE								
60		BHUTAN						6.2
61		NEPAL						-5.4
62		BANGLADESH						-9.7