



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: 28th 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 27.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 27-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 27th 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)	50716	47726	39097	17393	2385	157317
Peak Shortage (MW)	705	0	0	0	31	736
Energy Met (MU)	1005	1116	963	343	41	3468
Hydro Gen (MU)	118	39	87	34	8	286
Wind Gen (MU)	4	73	22	-----	-----	100
Solar Gen (MU)*	30.07	23.70	75.62	1.64	0.02	131
Energy Shortage (MU)	13.3	0.1	0.0	0.0	0.5	13.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51235 18:58	53642 11:10	46574 09:41	18650 18:35	2422 17:51	168917 09:28

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	0.035	0.00	0.00	2.05	2.05	67.80	30.15

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	6619	0	120.9	59.5	-1.6	60	0.0
	Haryana	6868	0	133.6	83.5	0.7	262	0.6
	Rajasthan	12949	0	235.0	68.2	1.3	543	0.0
	Delhi	4872	0	82.0	63.3	0.3	240	0.0
	UP	16369	310	304.8	125.9	0.7	1089	0.0
	Uttarakhand	2233	0	41.4	27.7	0.5	141	0.3
	HP	1729	0	30.4	23.1	0.2	325	0.0
	J&K(UT) and Ladakh(UT)	2625	656	52.5	43.0	4.2	507	12.4
	Chandigarh	292	0	4.9	4.5	0.5	75	0.0
WR	Chhattisgarh	3578	0	75.3	18.3	-2.4	323	0.0
	Gujarat	15603	0	320.9	75.9	-1.6	482	0.0
	MP	13620	0	245.1	116.7	-2.9	496	0.0
	Maharashtra	20969	0	428.5	151.4	-0.5	421	0.0
	Goa	611	0	13.5	12.7	0.2	32	0.1
	DD	331	0	7.4	7.0	0.4	42	0.0
	DNH	791	0	18.7	18.8	-0.1	30	0.0
	Essar steel	352	0	6.5	6.1	0.4	254	0.0
	SR	Andhra Pradesh	8606	0	172.6	68.5	0.9	560
Telangana		11180	0	225.7	119.1	0.5	691	0.0
Karnataka		11741	0	211.6	56.7	1.6	598	0.0
Kerala		3682	0	74.4	58.7	2.1	217	0.0
Tamil Nadu		13090	0	271.4	159.7	-0.3	876	0.0
Pondy		345	0	6.8	7.1	-0.3	55	0.0
ER	Bihar	4527	0	77.7	76.1	0.2	250	0.0
	DVC	3222	0	64.9	-37.8	0.6	250	0.0
	Jharkhand	1349	0	25.1	16.1	-0.6	180	0.0
	Odisha	3672	0	66.2	6.1	-0.5	200	0.0
	West Bengal	6267	0	107.0	21.7	1.6	400	0.0
	Sikkim	136	0	2.1	1.8	0.4	25	0.0
NER	Arunachal Pradesh	121	1	2.3	1.9	0.2	41	0.0
	Assam	1365	19	22.8	17.7	0.7	82	0.2
	Manipur	196	2	2.7	3.1	-0.4	31	0.0
	Meghalaya	354	0	6.2	3.0	0.4	85	0.2
	Mizoram	106	1	1.7	1.2	0.1	36	0.0
	Nagaland	128	2	2.3	2.3	-0.2	17	0.0
Tripura	221	0	3.3	1.4	-0.6	15	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.4	-8.9	-7.0
Day peak (MW)	251.0	-473.0	-528.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	250.6	-270.6	120.0	-100.8	-1.3	-2.1
Actual(MU)	258.0	-284.9	138.7	-117.3	0.1	-5.4
O/D/U/D(MU)	7.4	-14.3	18.7	-16.5	1.3	-3.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	6510	15033	6752	2120	597	31011
State Sector	12169	15617	8660	4640	11	41097
Total	18679	30649	15412	6760	608	72108

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	500	1194	488	454	13	2649
Lignite	21	16	55	0	0	92
Hydro	118	39	88	34	8	286
Nuclear	29	27	44	0	0	101
Gas, Naptha & Diesel	34	36	18	0	25	112
RES (Wind, Solar, Biomass & Others)	63	110	140	2	0	315
Total	765	1422	832	489	46	3555

Share of RES in total generation (%)	8.28	7.74	16.79	0.34	0.04	8.85
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.54	12.37	32.62	7.21	18.25	19.74

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.070

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 : 28-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	7.1	-7.1
1	765kV	GAYA-VARANASI	D/C	0	931	0.0	12.2	-12.2
2		SASARAM-FATEHPUR	S/C	0	434	0.0	6.1	-6.1
3		GAYA-BALIA	S/C	0	575	0.0	9.5	-9.5
6	400 kV	PUSAULI-VARANASI	S/C	0	205	0.0	3.8	-3.8
7		PUSAULI -ALLAHABAD	S/C	0	180	0.0	3.2	-3.2
8		MUZAFFARPUR-GORAKHPUR	D/C	0	976	0.0	12.5	-12.5
9		PATNA-BALIA	Q/C	0	915	0.0	15.9	-15.9
10		BIHARSHARIFF-BALIA	D/C	0	467	0.0	7.8	-7.8
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	0	469	0.0	5.2	-5.2
13		220 kV	PUSAULI-SAHUPURI	S/C	0	161	0.0	2.6
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.3	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	78.8	-78.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	876	212	6.7	0.0	6.7
19		NEW RANCHI-DHARAMJAIGARH	D/C	506	117	3.2	0.0	3.2
20		JHARSUGUDA-DURG	D/C	3	257	0.0	3.6	-3.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	236	112	1.0	0.0	1.0
22		RANCHI-SIPAT	D/C	222	25	1.6	0.0	1.6
23	220 kV	BUDHIPADAR-RAIGARH	S/C	4	90	0.0	1.2	-1.2
24		BUDHIPADAR-KORBA	D/C	187	0	2.9	0.0	2.9
ER-WR						15.4	4.8	10.6
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	668.0	0.0	11.3	-11.3
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2474.0	0.0	48.6	-48.6
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2146.0	0.0	42.8	-42.8
28	400 kV	TALCHER-I/C	D/C	383.0	933.0	0.0	6.6	-6.6
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	102.6	-102.6
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	291	35	4.5	0.0	4
31		ALIPURDUAR-BONGAIGAON	D/C	340	0	5.1	0.0	5
32	220 kV	ALIPURDUAR-SALAKATI	D/C	68	17	1.1	0.0	1
ER-NER						10.6	0.0	10.6
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	490	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	2507	0.0	39.6	-39.6
35		V'CHAL B/B	D/C	229	490	1.0	0.0	1.0
36		APL -MHG	D/C	0	1925	0.0	42.9	-42.9
37	765 kV	GWALIOR-AGRA	D/C	0	2791	0.0	51.7	-51.7
38		PHAGI-GWALIOR	D/C	0	1531	0.0	20.2	-20.2
39		JABALPUR-ORAI	D/C	0	982	0.0	33.5	-33.5
40		GWALIOR-ORAI	S/C	681	0	11.8	0.0	11.8
41		SATNA-ORAI	S/C	0	1601	0.0	32.5	-32.5
42		CHITTORGARH-BANASKANTHA	D/C	307	964	0.0	3.2	-3.2
43	400 kV	ZERDA-KANKROLI	S/C	158	151	0.7	0.0	0.7
44		ZERDA -BHINMAL	S/C	58	407	0.0	2.6	-2.6
45		V'CHAL -RIHAND	S/C	975	0	22.4	0.0	22.4
46		RAPP-SHUJALPUR	D/C	63	335	0	3	-3
47	220 kV	BHANPURA-RANPUR	S/C	27	65	0.4	0.3	0.1
48		BHANPURA-MORAK	S/C	21	104	0.1	1.0	-1.0
49		MEHGAON-AURAIYA	S/C	82	0	1.0	0.0	1.0
50	132kV	MALANPUR-AURAIYA	S/C	37	33	0.1	0.1	0.0
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						37.5	230.4	-192.9
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	498	0.0	11.8	-11.8
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	1986	0.0	28.5	-28.5
55		WARDHA-NIZAMABAD	D/C	0	2821	0.0	51.5	-51.5
56	400 kV	KOLHAPUR-KUDGI	D/C	872	0	11.1	0.0	11.1
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	89	0.0	1.5	-1.5
59		XELDEM-AMBEWADI	S/C	0	100	1.8	0.0	1.8
WR-SR						12.9	93.3	-80.4
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.4
61		NEPAL						-8.9
62		BANGLADESH						-7.0