



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: 24 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 23.12.2019.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-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 23 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)	48874	48017	38618	18055	2407	155971
Peak Shortage (MW)	690	0	0	0	19	709
Energy Met (MU)	949	1145	945	339	41	3420
Hydro Gen (MU)	125	54	95	36	9	320
Wind Gen (MU)	18	65	44	-----	-----	126
Solar Gen (MU)*	30.68	17.50	70.92	1.69	0.02	121
Energy Shortage (MU)	12.2	0.0	0.0	0.1	0.8	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	49367 18:26	55629 11:08	45829 09:41	17853 18:26	2533 17:30	165904 09:38

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	0.043	0.00	0.82	9.40	10.22	74.13	15.65

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	5913	0	112.8	52.1	-2.0	55	0.0
	Haryana	6835	0	125.5	85.7	0.9	288	0.1
	Rajasthan	12948	0	232.5	58.4	-2.5	427	0.0
	Delhi	4486	0	74.2	58.5	-1.3	174	0.0
	UP	15326	0	280.7	114.3	-0.3	920	0.0
	Uttarakhand	2049	0	38.8	23.9	0.1	113	0.0
	HP	1700	0	30.0	22.6	-0.2	208	0.0
	J&K(UT) and Ladakh(UT)	2759	690	50.8	42.4	0.9	497	12.0
	Chandigarh	264	0	4.4	4.5	-0.1	25	0.0
WR	Chhattisgarh	3666	0	78.0	21.4	-0.8	533	0.0
	Gujarat	16097	0	326.4	81.0	-2.0	409	0.0
	MP	13714	0	246.6	125.1	-3.0	824	0.0
	Maharashtra	21891	0	447.6	149.5	0.6	468	0.0
	Goa	601	0	12.9	12.1	0.2	38	0.0
	DD	329	0	7.2	6.8	0.4	44	0.0
	DNH	813	0	18.9	18.7	0.2	156	0.0
	Essar steel	409	0	7.4	7.3	0.1	324	0.0
	SR	Andhra Pradesh	8334	0	166.1	63.8	-0.3	476
Telangana		10711	0	218.6	111.8	0.9	350	0.0
Karnataka		11250	0	203.7	43.0	-0.5	699	0.0
Kerala		3522	0	71.9	52.8	1.8	289	0.0
Tamil Nadu		13616	0	277.7	156.9	-0.5	544	0.0
Pondy		283	0	6.8	7.3	-0.5	25	0.0
ER	Bihar	4272	0	72.2	71.9	-0.4	270	0.0
	DVC	3340	0	66.9	-32.2	0.8	415	0.0
	Jharkhand	1320	0	25.9	17.0	-0.3	135	0.1
	Odisha	3675	0	65.7	11.4	-0.1	250	0.0
	West Bengal	6007	0	106.8	26.4	0.9	402	0.0
	Sikkim	133	0	1.9	1.8	0.2	45	0.0
NER	Arunachal Pradesh	122	1	2.4	1.9	0.3	58	0.0
	Assam	1365	20	22.8	17.9	0.3	102	0.3
	Manipur	195	1	2.5	3.0	-0.4	65	0.0
	Meghalaya	339	0	6.0	2.4	0.5	40	0.4
	Mizoram	109	0	1.9	1.2	0.2	25	0.0
	Nagaland	121	1	2.1	2.3	-0.4	17	0.0
	Tripura	225	0	3.3	1.4	0.0	60	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.0	-7.7	-10.1
Day peak (MW)	475.7	-462.4	-763.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	217.9	-237.4	112.8	-97.3	3.9	-0.1
Actual(MU)	211.0	-251.9	129.6	-92.6	4.5	0.5
O/D/U/D(MU)	-6.9	-14.5	16.8	4.7	0.6	0.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4691	16033	8002	1520	597	30842
State Sector	12300	16549	8670	6050	11	43580
Total	16991	32581	16672	7570	608	74422

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	470	1181	458	411	14	2535
Lignite	24	14	51	0	0	90
Hydro	125	54	95	36	9	320
Nuclear	29	28	44	0	0	101
Gas, Naptha & Diesel	33	35	16	0	17	102
RES (Wind, Solar, Biomass & Others)	77	97	159	2	0	335
Total	759	1409	825	450	41	3483

Share of RES in total generation (%)	10.18	6.90	19.28	0.38	0.05	9.62
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	30.50	12.69	36.22	8.47	22.72	21.72

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.032
Based on State Max Demands	1.077

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 :	24-Dec-19
Sl No	Voltage Level	Line Details	Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)	
								Import=(+ve) /Export =(-ve) for 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	906	0.0	11.5	-11.5	
2		SASARAM-FATEHPUR	S/C	0	428	0.0	5.0	-5.0	
3		GAYA-BALIA	S/C	0	440	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	219	0.0	4.0	-4.0	
7		PUSAULI -ALLAHABAD	S/C	0	166	0.0	2.8	-2.8	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	911	0.0	9.9	-9.9	
9		PATNA-BALIA	Q/C	0	881	0.0	14.0	-14.0	
10		BIHARSHARIFF-BALIA	D/C	0	411	0.0	6.3	-6.3	
11		MOTIHARI-GORAKHPUR	D/C	4	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	28	360	0.0	3.7	-3.7	
13	220 kV	PUSAULI-SAHUPURI	S/C	9	78	0.0	0.8	-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	64.9	-64.5	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1450	0	19.8	0.0	19.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	534	203	4.0	0.0	4.0	
20		JHARSUGUDA-DURG	D/C	158	150	0.2	0.0	0.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	360	70	3.2	0.0	3.2	
22		RANCHI-SIPAT	D/C	248	37	2.4	0.0	2.4	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	18	97	0.0	1.0	-1.0	
24		BUDHIPADAR-KORBA	D/C	189	0	2.4	0.0	2.4	
ER-WR						32.0	1.0	31.0	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	675.0	0.0	11.9	-11.9	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2460.0	0.0	48.9	-48.9	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2168.0	0.0	34.8	-34.8	
28	400 kV	TALCHER-I/C	D/C	0.0	1243.0	0.0	18.8	-18.8	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	95.5	-95.5	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	298	151	2.5	0.0	2	
31		ALIPURDUAR-BONGAIGAON	D/C	347	142	3.2	0.0	3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	63	49	0.3	0.0	0	
ER-NER						6.0	0.0	6.0	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	488	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	1507	0.0	31.7	-31.7	
35		VCHAL B/B	D/C	450	0	8.8	0.0	8.8	
36	765 kV	APL -MHG	D/C	0	1550	0.0	31.9	-31.9	
37		GWALIOR-AGRA	D/C	0	2808	0.0	49.5	-49.5	
38		PHAGI-GWALIOR	D/C	0	1421	0.0	18.6	-18.6	
39		JABALPUR-ORAI	D/C	0	958	0.0	31.6	-31.6	
40		GWALIOR-ORAI	S/C	682	0	10.5	0.0	10.5	
41		SATNA-ORAI	S/C	0	1503	0.0	28.6	-28.6	
42		CHITTORGARH-BANASKANTHA	D/C	192	795	0.0	5.1	-5.1	
43	400 kV	ZERDA-KANKROLI	S/C	139	109	0.9	0.0	0.9	
44		ZERDA -BHINMAL	S/C	195	228	0.0	0.4	-0.4	
45		VCHAL-RIHAND	S/C	971	0	20.7	0.0	20.7	
46	220 kV	RAPP-SHUJALPUR	D/C	208	271	0	1	-1	
47		BHANPURA-RANPUR	S/C	33	64	0.8	0.1	0.7	
48		BHANPURA-MORAK	S/C	34	84	0.2	0.6	-0.5	
49		MEHGAON-AURAIYA	S/C	83	0	1.0	0.0	1.0	
50	132kV	MALANPUR-AURAIYA	S/C	33	38	0.2	0.1	0.0	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						42.9	198.8	-155.9	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.3	-12.3	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	531	2016	0.0	23.6	-23.6	
55		WARDHA-NIZAMABAD	D/C	0	2698	0.0	42.3	-42.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	872	0	12.6	0.0	12.6	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	0	81	0.0	1.5	-1.5	
59		XELDEM-AMBEWADI	S/C	0	90	1.7	0.0	1.7	
WR-SR						14.3	79.7	-65.4	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						5.0	
61		NEPAL						-7.7	
62		BANGLADESH						-10.1	