



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: 24th Jan 2020

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 23.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 23-जनवरी-2020 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 23rd Jan 2020, is available at the NLDC website.

धन्यवाद,

पॉवर सिस्टम ऑपरेशन कारपोरेशन लिमिटेड
राष्ट्रीय भार प्रेषण केंद्र, नई दिल्ली

Report for previous day

Date of Reporting 24-Jan-20

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)	48119	48758	40765	18623	2430	158695
Peak Shortage (MW)	568	0	0	0	42	610
Energy Met (MU)	950	1168	1022	362	42	3544
Hydro Gen (MU)	128	40	85	32	6	291
Wind Gen (MU)	20	89	64	-----	-----	173
Solar Gen (MU)*	36.61	25.20	77.67	1.45	0.03	141
Energy Shortage (MU)	12.1	0.0	0.0	0.0	0.6	12.8
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48662 19:04	56272 10:28	47912 07:44	18872 18:29	2526 17:57	169201 09:26

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	0.037	0.00	0.35	5.65	6.00	72.51	21.49

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	5682	0	111.0	54.7	-1.2	68	0.0
	Haryana	6640	0	129.6	89.9	1.2	183	0.0
	Rajasthan	13553	0	238.6	56.3	-1.1	558	0.0
	Delhi	4382	0	75.0	59.5	-1.3	259	0.0
	UP	15646	0	270.6	114.1	-2.9	662	0.0
	Uttarakhand	2157	0	39.3	21.6	0.5	156	0.0
	HP	1704	0	31.6	24.6	-0.4	111	0.2
	J&K(UT) and Ladakh(UT)	2390	597	50.6	45.8	-0.6	147	11.9
	Chandigarh	268	0	4.2	4.0	0.2	24	0.0
WR	Chhattisgarh	3753	0	80.8	40.1	-0.9	212	0.0
	Gujarat	15913	0	337.6	62.7	6.5	801	0.0
	MP	13818	0	242.8	134.6	-2.0	620	0.0
	Maharashtra	22723	0	464.3	152.5	-2.5	418	0.0
	Goa	533	0	10.4	10.3	-0.2	53	0.0
	DD	334	0	7.4	6.9	0.5	38	0.0
	DNH	802	0	18.5	18.5	0.0	154	0.0
	Essar steel	291	0	5.7	5.6	0.1	188	0.0
	SR	Andhra Pradesh	9169	0	184.3	71.4	0.3	400
Telangana		11069	0	218.9	108.8	0.0	489	0.0
Karnataka		12149	0	233.2	58.5	-0.7	602	0.0
Kerala		3796	0	76.0	57.5	1.5	187	0.0
Tamil Nadu		14427	0	302.3	152.0	0.3	734	0.0
Pondy		373	0	7.1	7.3	-0.2	56	0.0
ER	Bihar	4650	0	79.4	78.1	-0.3	100	0.0
	DVC	3182	0	65.2	-35.4	0.3	130	0.0
	Jharkhand	1372	0	25.6	18.1	-1.2	70	0.0
	Odisha	5127	0	71.0	7.7	0.4	200	0.0
	West Bengal	6421	0	118.3	28.4	-0.2	170	0.0
	Sikkim	144	0	2.1	1.8	0.2	20	0.0
NER	Arunachal Pradesh	120	1	2.3	2.0	0.2	52	0.0
	Assam	1359	35	22.8	20.1	0.2	129	0.3
	Manipur	201	1	2.7	3.0	-0.3	24	0.0
	Meghalaya	381	0	6.5	5.4	0.0	53	0.3
	Mizoram	112	1	1.9	1.5	-0.1	22	0.0
	Nagaland	129	1	2.5	2.0	0.3	35	0.0
Tripura	216	1	3.4	3.4	0.1	79	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	3.1	-9.8	-10.0
Day peak (MW)	519.9	-560.0	-763.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.3	-240.7	107.8	-93.3	8.1	0.0
Actual(MU)	203.7	-261.9	126.0	-82.3	10.3	-4.2
O/D/U/D(MU)	-14.6	-21.2	18.3	11.0	2.3	-4.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5093	15888	6932	1360	613	29886
State Sector	11440	16386	6990	4550	112	39478
Total	16533	32274	13922	5910	726	69364

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	475	1166	505	437	11	2595
Lignite	24	14	48	0	0	86
Hydro	128	40	85	32	6	291
Nuclear	24	33	39	0	0	96
Gas, Naptha & Diesel	31	32	18	0	20	100
RES (Wind, Solar, Biomass & Others)	86	134	198	1	0	420
Total	769	1418	894	470	36	3588

Share of RES in total generation (%)	11.22	9.46	22.10	0.31	0.08	11.69
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	31.05	14.60	36.06	7.06	15.24	22.49

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
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 :	24-Jan-20
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	7.4	-7.4	
1	765kV	GAYA-VARANASI	D/C	0	761	0.0	9.1	-9.1	
2		SASARAM-FATEHPUR	S/C	92	302	0.0	1.6	-1.6	
3		GAYA-BALIA	S/C	0	427	0.0	6.8	-6.8	
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.6	-4.6	
7		PUSAULI -ALLAHABAD	S/C	0	145	0.0	2.6	-2.6	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	654	0.0	7.3	-7.3	
9		PATNA-BALIA	Q/C	0	825	0.0	12.0	-12.0	
10		BIHARSHARIFF-BALIA	D/C	0	320	0.0	4.2	-4.2	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	119	226	0.0	0.5	-0.5	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	188	0.0	2.9	-2.9
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.6	0.0	0.6	
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	0.6	51.6	-51.0
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1345	0	20.8	0.0	20.8	
19		NEW RANCHI-DHARAMJAIGARH	D/C	514	271	5.3	0.0	5.3	
20		JHARSUGUDA-DURG	D/C	91	106	0.0	0.2	-0.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	122	267	0.0	1.5	-1.5	
22		RANCHI-SIPAT	D/C	194	88	2.1	0.0	2.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	104	0.0	1.3	-1.3	
24		BUDHIPADAR-KORBA	D/C	149	0	2.3	0.0	2.3	
						ER-WR	30.5	3.1	27.4
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	538.0	0.0	12.4	-12.4	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1977.0	0.0	35.6	-35.6	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2610.0	0.0	49.7	-49.7	
28	400 kV	TALCHER-I/C	D/C	866.0	517.0	2.8	0.0	2.8	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	97.6	-97.6
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	105	140	0.1	0.6	0	
31		ALIPURDUAR-BONGAIGAON	D/C	193	169	0.5	0.0	1	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	28	44	0.0	0.1	0	
						ER-NER	0.7	0.7	0.0
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	471	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	31.3	-31.3	
35		VCHAL B/B	D/C	448	493	2.9	2.6	0.2	
36	765 kV	APL -MHG	D/C	0	1926	0.0	33.3	-33.3	
37		GWALIOR-AGRA	D/C	0	2649	0.0	45.0	-45.0	
38		PHAGI-GWALIOR	D/C	264	1188	0.0	16.0	-16.0	
39		JABALPUR-ORAI	D/C	0	855	0.0	27.0	-27.0	
40		GWALIOR-ORAI	S/C	676	0	10.1	0.0	10.1	
41		SATNA-ORAI	S/C	0	1399	0.0	27.0	-27.0	
42		CHITTORGARH-BANASKANTHA	D/C	0	1078	0.0	13.5	-13.5	
43		ZERDA-KANKROLI	S/C	95	158	0.0	0.5	-0.5	
44	400 kV	ZERDA -BHINMAL	S/C	205	307	0.0	2.0	-2.0	
45		VCHAL -RIHAND	S/C	977	0	21.6	0.0	21.6	
46		RAPP-SHUJALPUR	D/C	297	318	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	50	66	0.4	0.4	0.1	
48		BHANPURA-MORAK	S/C	35	110	0.1	0.9	-0.8	
49		MEHGAON-AURAIYA	S/C	96	0	1.0	0.0	1.0	
50		MALANPUR-AURAIYA	S/C	50	17	0.3	0.1	0.2	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	36.3	199.8	-163.4
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	989	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	521	1892	0.0	24.5	-24.5	
55		WARDHA-NIZAMABAD	D/C	0	2539	0.0	40.3	-40.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	868	0	9.8	0.0	9.8	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0	
59		XELDEM-AMBEWADI	S/C	0	91	1.7	0.0	1.7	
						WR-SR	11.5	78.2	-66.7
TRANSNATIONAL EXCHANGE									
60		BHUTAN						3.1	
61		NEPAL						-9.8	
62		BANGLADESH						-10.0	