



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: 10th 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 09.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 09th 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 10-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)	48578	46380	41486	18157	2422	157023
Peak Shortage (MW)	634	0	0	72	44	750
Energy Met (MU)	951	1093	984	334	42	3403
Hydro Gen (MU)	120	37	87	37	8	289
Wind Gen (MU)	12	68	22	-----	-----	102
Solar Gen (MU)*	31.91	25.20	80.60	1.06	0.02	139
Energy Shortage (MU)	13.5	0.0	0.0	0.2	0.9	14.6
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	48852 19:10	51899 10:34	47068 07:49	18186 18:48	2490 18:07	163027 09:44

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	0.028	0.00	0.00	2.60	2.60	74.18	23.22

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	6000	0	113.5	58.4	-1.8	39	0.0
	Haryana	6596	0	126.5	82.0	1.0	195	0.0
	Rajasthan	13495	0	231.5	70.1	-3.4	246	0.0
	Delhi	4586	0	77.5	65.4	0.7	265	0.0
	UP	15452	595	276.6	106.2	1.8	757	0.8
	Uttarakhand	1993	0	38.0	20.6	-1.2	167	0.0
	HP	1613	0	28.8	24.5	-1.7	127	0.0
	J&K(UT) and Ladakh(UT)	2551	638	53.8	47.2	1.3	362	12.7
	Chandigarh	282	0	4.7	4.7	0.0	53	0.0
WR	Chhattisgarh	3439	0	69.7	16.1	-1.6	385	0.0
	Gujarat	15139	0	317.8	77.8	-3.2	614	0.0
	MP	12896	0	231.1	108.7	-3.1	350	0.0
	Maharashtra	20959	0	428.4	147.6	-1.7	641	0.0
	Goa	496	0	13.5	10.1	2.8	29	0.0
	DD	322	0	7.2	7.0	0.2	33	0.0
	DNH	810	0	19.0	19.0	0.0	38	0.0
	Essar steel	294	0	5.8	6.0	-0.2	237	0.0
	SR	Andhra Pradesh	8193	0	168.6	64.8	-0.8	347
Telangana		10918	0	212.1	121.4	-0.2	569	0.0
Karnataka		12305	0	225.6	64.9	0.1	736	0.0
Kerala		3717	0	73.0	54.9	1.9	267	0.0
Tamil Nadu		14333	0	298.3	157.7	-0.2	474	0.0
Pondy		347	0	6.4	6.8	-0.4	38	0.0
ER	Bihar	4312	0	70.5	70.9	-1.4	195	0.0
	DVC	3104	0	62.8	-29.2	0.5	375	0.0
	Jharkhand	1408	0	23.9	16.0	-0.6	112	0.2
	Odisha	3559	0	65.2	1.7	1.4	380	0.0
	West Bengal	6143	0	109.6	28.6	0.9	280	0.0
NER	Sikkim	142	0	2.0	2.0	0.1	35	0.0
	Arunachal Pradesh	118	2	2.2	1.9	0.2	5	0.0
	Assam	1363	14	23.0	19.4	0.7	97	0.4
	Manipur	206	2	2.7	3.2	-0.5	29	0.0
	Meghalaya	382	0	6.4	3.2	0.8	88	0.5
	Mizoram	105	1	1.8	1.5	0.0	46	0.0
	Nagaland	123	2	2.3	2.1	0.0	26	0.0
Tripura	219	1	3.4	3.3	-0.1	48	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.1	-9.9	-10.1
Day peak (MW)	706.0	-475.0	-767.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	220.8	-270.5	134.0	-87.2	2.8	-0.1
Actual(MU)	208.7	-281.7	155.7	-88.0	5.4	0.0
O/D/U/D(MU)	-12.1	-11.2	21.7	-0.9	2.6	0.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4363	15490	6582	2310	732	29476
State Sector	10096	17058	7650	6400	11	41215
Total	14459	32547	14232	8710	743	70691

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	495	1180	501	412	12	2601
Lignite	18	14	43	0	0	75
Hydro	120	37	87	37	8	289
Nuclear	30	25	40	0	0	95
Gas, Naptha & Diesel	24	34	19	0	21	98
RES (Wind, Solar, Biomass & Others)	71	108	150	1	0	330
Total	758	1398	840	450	41	3487

Share of RES in total generation (%)	9.39	7.70	17.84	0.24	0.05	9.46
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.14	12.17	33.01	8.35	18.76	20.46

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.034
Based on State Max Demands	1.091

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 :	10-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	500	0.0	12.2	-12.2	
5		PUSAULI B/B	S/C	0	297	0.0	7.1	-7.1	
1	765kV	GAYA-VARANASI	D/C	73	720	0.0	5.8	-5.8	
2		SASARAM-FATEHPUR	S/C	106	384	0.0	2.5	-2.5	
3		GAYA-BALIA	S/C	0	518	0.0	7.0	-7.0	
6	400 kV	PUSAULI-VARANASI	S/C	0	258	0.0	5.1	-5.1	
7		PUSAULI -ALLAHABAD	S/C	0	136	0.0	1.9	-1.9	
8		MUZAFFARPUR-GORAKHPUR	D/C	84	700	0.0	4.4	-4.4	
9		PATNA-BALIA	Q/C	0	822	0.0	12.8	-12.8	
10		BIHARSHARIFF-BALIA	D/C	5	312	0.0	2.6	-2.6	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	166	271	0.2	0.0	0.2	
13		220 kV	PUSAULI-SAHUPURI	S/C	0	145	0.0	2.2	-2.2
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	0.8	44.1	-43.3
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1580	0	23.3	0.0	23.3	
19		NEW RANCHI-DHARAMJAIGARH	D/C	690	65	6.5	0.0	6.5	
20		JHARSUGUDA-DURG	D/C	285	180	1.2	0.0	1.2	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	319	108	2.0	0.0	2.0	
22		RANCHI-SIPAT	D/C	254	0	2.7	0.0	2.7	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	40	68	0.0	0.4	-0.4	
24		BUDHIPADAR-KORBA	D/C	238	0	3.9	0.0	3.9	
						ER-WR	39.6	0.4	39.2
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	705.0	0.0	16.2	-16.2	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2463.0	0.0	49.3	-49.3	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1972.0	0.0	37.3	-37.3	
28	400 kV	TALCHER-I/C	D/C	233.0	1466.0	0.0	12.9	-12.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	102.7	-102.7
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	0	390	0.0	5.0	-5	
31		ALIPURDUAR-BONGAIGAON	D/C	138	175	0.2	0.0	0	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	5	73	0.0	0.7	-1	
						ER-NER	0.2	5.7	-5.5
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	0	0	0.0	0.0	0.0	
						NER-NR	0.0	0.0	0.0
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1455	0.0	31.7	-31.7	
35		V'CHAL B/B	D/C	448	203	5.3	2.2	3.1	
36		APL -MHG	D/C	0	1555	0.0	38.7	-38.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2267	0.0	38.4	-38.4	
38		PHAGI-GWALIOR	D/C	0	1511	0.0	19.2	-19.2	
39		JABALPUR-ORAI	D/C	0	909	0.0	27.9	-27.9	
40		GWALIOR-ORAI	S/C	764	0	11.4	0.0	11.4	
41		SATNA-ORAI	S/C	0	1464	0.0	27.8	-27.8	
42		CHITTORGARH-BANASKANTHA	D/C	357	803	0.0	3.6	-3.6	
43	400 kV	ZERDA-KANKROLI	S/C	185	92	0.0	0.9	-0.9	
44		ZERDA -BHINMAL	S/C	217	295	2.0	0.0	2.0	
45		V'CHAL -RIHAND	S/C	964	0	19.6	0.0	19.6	
46		RAPP-SHUJALPUR	D/C	230	235	0	0	0	
47	220 kV	BHANPURA-RANPUR	S/C	33	60	0.4	0.3	0.1	
48		BHANPURA-MORAK	S/C	22	110	0.1	1.0	-0.9	
49		MEHGAON-AURAIYA	S/C	99	0	1.2	0.0	1.2	
50	132kV	MALANPUR-AURAIYA	S/C	49	24	0.3	0.1	0.2	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	40.2	191.9	-151.7
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1016	0.0	24.2	-24.2	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	65	2366	0.0	32.7	-32.7	
55		WARDHA-NIZAMABAD	D/C	0	2694	0.0	42.3	-42.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	732	145	7.1	0.2	6.9	
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	90	1.7	0.0	1.7	
						WR-SR	8.9	99.4	-90.5
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.1	
61		NEPAL						-9.9	
62		BANGLADESH						-10.1	