



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: 15th 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 14.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 14-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 14th 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 15-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)	46271	43177	37949	18549	2361	148307
Peak Shortage (MW)	545	0	0	0	39	584
Energy Met (MU)	930	1078	973	355	41	3376
Hydro Gen (MU)	134	58	75	31	7	305
Wind Gen (MU)	5	16	21	-----	-----	42
Solar Gen (MU)*	32.42	20.90	94.28	1.27	0.03	149
Energy Shortage (MU)	9.1	0.0	0.0	0.0	1.8	10.9
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47047 19:37	51697 09:40	46617 09:28	18722 18:23	2458 17:47	163366 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	0.033	0.00	0.44	6.04	6.48	77.19	16.33

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	105.4	55.5	-2.1	67	0.0
	Haryana	6475	0	123.2	87.1	0.2	195	0.0
	Rajasthan	12679	0	226.8	80.9	-0.9	248	0.0
	Delhi	4417	0	74.9	59.1	-0.4	261	0.0
	UP	16122	0	289.5	114.6	-2.2	356	0.0
	Uttarakhand	2040	0	38.9	22.2	-1.0	197	0.0
	HP	1598	0	28.7	23.4	-2.1	126	0.0
	J&K(UT) and Ladakh(UT)	2317	579	38.1	32.8	-3.7	177	9.1
	Chandigarh	281	0	4.7	4.7	0.0	33	0.0
WR	Chhattisgarh	3677	0	78.4	24.8	-1.1	232	0.0
	Gujarat	13046	0	257.6	71.1	3.4	450	0.0
	MP	13952	0	247.7	140.4	-2.5	610	0.0
	Maharashtra	22277	0	452.7	164.1	-0.3	373	0.0
	Goa	494	0	10.5	10.2	-0.3	24	0.0
	DD	297	0	6.5	6.2	0.3	55	0.0
	DNH	778	0	18.1	18.1	0.0	63	0.0
	Essar steel	295	0	6.0	6.2	-0.2	208	0.0
	SR	Andhra Pradesh	8700	0	166.7	65.2	-1.3	344
Telangana		10830	0	211.4	105.9	-1.3	415	0.0
Karnataka		12576	0	230.7	69.0	-0.6	491	0.0
Kerala		3610	0	70.4	55.6	1.4	188	0.0
Tamil Nadu		13207	0	287.0	162.6	-0.5	395	0.0
Pondy		341	0	7.1	7.4	-0.3	40	0.0
ER	Bihar	4613	0	82.5	80.9	0.2	90	0.0
	DVC	3078	0	63.6	-32.5	0.6	630	0.0
	Jharkhand	1325	0	24.8	16.0	-0.3	100	0.0
	Odisha	3784	0	68.2	7.8	0.4	275	0.0
	West Bengal	6236	0	113.8	26.7	0.2	220	0.0
	Sikkim	125	0	1.9	1.8	0.1	20	0.0
NER	Arunachal Pradesh	122	1	2.3	1.9	0.3	45	0.0
	Assam	1275	20	22.3	19.6	0.1	113	0.6
	Manipur	218	1	2.6	3.1	-0.4	24	0.0
	Meghalaya	376	0	6.0	3.3	0.7	73	1.1
	Mizoram	106	1	1.6	1.6	-0.3	26	0.0
	Nagaland	129	1	2.1	2.2	-0.2	29	0.0
Tripura	226	1	3.7	2.3	0.1	23	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.5	-10.2	-12.8
Day peak (MW)	515.5	-570.6	-671.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	214.9	-243.8	108.4	-84.5	5.0	-0.1
Actual(MU)	182.8	-240.9	125.3	-75.0	3.6	-4.2
O/D/U/D(MU)	-32.1	2.9	16.9	9.5	-1.4	-4.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4628	15358	5202	2620	588	28396
State Sector	10795	19035	7683	4850	11	42373
Total	15423	34392	12885	7470	600	70769

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	489	1168	511	430	11	2609
Lignite	19	13	48	0	0	80
Hydro	134	58	75	31	7	305
Nuclear	29	24	45	0	0	98
Gas, Naptha & Diesel	32	23	18	0	23	96
RES (Wind, Solar, Biomass & Others)	66	44	160	1	0	272
Total	769	1331	857	463	41	3460

Share of RES in total generation (%)	8.63	3.33	18.69	0.28	0.07	7.87
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.83	9.48	32.69	7.06	16.80	19.51

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.019
Based on State Max Demands	1.085

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 : 15-Jan-20

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	297	0.0	7.2	-7.2
1	765kV	GAYA-VARANASI	D/C	59	863	0.0	9.9	-9.9
2		SASARAM-FATEHPUR	S/C	74	396	0.0	3.8	-3.8
3		GAYA-BALIA	S/C	0	434	0.0	5.6	-5.6
6	400 kV	PUSAULI-VARANASI	S/C	0	238	0.0	4.6	-4.6
7		PUSAULI -ALLAHABAD	S/C	0	165	0.0	2.4	-2.4
8		MUZAFFARPUR-GORAKHPUR	D/C	0	772	0.0	7.9	-7.9
9		PATNA-BALIA	Q/C	0	849	0.0	14.8	-14.8
10		BIHARSHARIFF-BALIA	D/C	0	427	0.0	4.7	-4.7
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	125	319	0.0	1.4	-1.4
13		220 kV	PUSAULI-SAHUPURI	S/C	2	168	0.0	2.0
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0
15		GARWAH-RIHAND	S/C	30	0	0.7	0.0	0.7
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						0.7	57.0	-56.3
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1268	0	22.5	0.0	22.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	867	286	5.3	0.0	5.3
20		JHARSUGUDA-DURG	D/C	281	185	0.6	0.0	0.6
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	222	299	0.0	0.8	-0.8
22		RANCHI-SIPAT	D/C	303	114	1.8	0.0	1.8
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	88	0.0	1.1	-1.1
24		BUDHIPADAR-KORBA	D/C	186	0	3.2	0.0	3.2
ER-WR						33.3	1.9	31.5
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	16.2	-16.2
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1979.0	0.0	45.3	-45.3
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2203.0	0.0	37.2	-37.2
28	400 kV	TALCHER-I/C	D/C	378.0	815.0	0.0	3.5	-3.5
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	98.7	-98.7
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	210	153	2.2	0.0	2
31		ALIPURDUAR-BONGAIGAON	D/C	254	134	3.5	0.0	4
32	220 kV	ALIPURDUAR-SALAKATI	D/C	47	38	0.5	0.0	1
ER-NER						6.2	0.0	6.2
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	11.2	0.0	11.2
NER-NR						11.2	0.0	11.2
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	856	0.0	23.7	-23.7
35		V'CHAL B/B	D/C	449	491	9.3	0.8	8.4
36		APL -MHG	D/C	0	1366	0.0	33.3	-33.3
37	765 kV	GWALIOR-AGRA	D/C	0	2731	0.0	42.4	-42.4
38		PHAGI-GWALIOR	D/C	0	1498	0.0	22.5	-22.5
39		JABALPUR-ORAI	D/C	0	959	0.0	28.6	-28.6
40		GWALIOR-ORAI	S/C	661	0	11.7	0.0	11.7
41		SATNA-ORAI	S/C	0	1455	0.0	28.8	-28.8
42		CHITTORGARH-BANASKANTHA	D/C	490	946	1.7	8.0	-6.3
43	400 kV	ZERDA-KANKROLI	S/C	197	126	0.2	0.0	0.2
44		ZERDA -BHINMAL	S/C	170	322	0.0	2.4	-2.4
45		V'CHAL -RIHAND	S/C	986	0	23.1	0.0	23.1
46		RAPP-SHUJALPUR	D/C	261	302	0	0	0
47	220 kV	BHANPURA-RANPUR	S/C	25	80	0.7	0.2	0.4
48		BHANPURA-MORAK	S/C	45	90	0.2	0.8	-0.6
49		MEHGAON-AURAIYA	S/C	135	0	1.9	0.0	1.9
50	132kV	MALANPUR-AURAIYA	S/C	81	17	0.8	0.0	0.8
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						49.6	191.8	-142.2
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	19.9	-19.9
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	250	2159	0.3	23.8	-23.5
55		WARDHA-NIZAMABAD	D/C	0	2159	0.0	36.4	-36.4
56	400 kV	KOLHAPUR-KUDGI	D/C	766	2	8.8	0.0	8.8
57	220 kV	KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0
58		PONDA-AMBEWADI	S/C	1	0	0.0	0.0	0.0
59		XELDEM-AMBEWADI	S/C	0	90	1.6	0.0	1.6
WR-SR						10.7	80.0	-69.4
TRANSNATIONAL EXCHANGE								
60		BHUTAN						4.5
61		NEPAL						-10.2
62		BANGLADESH						-12.8