



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: 13th 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 12.01.2020.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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 13-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)	45280	46041	37054	17673	2358	148406
Peak Shortage (MW)	576	0	0	0	40	616
Energy Met (MU)	932	1114	937	341	40	3364
Hydro Gen (MU)	109	40	65	34	7	256
Wind Gen (MU)	20	22	41	-----	-----	82
Solar Gen (MU)*	22.98	21.90	90.81	1.47	0.03	137
Energy Shortage (MU)	11.2	0.1	0.0	0.0	1.0	12.3
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	47925 09:28	54647 11:03	42406 09:32	18082 18:46	2388 17:30	161089 09:31

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	0.21	4.85	5.06	79.24	15.71

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	5449	0	103.6	54.7	-0.7	121	0.0
	Haryana	5763	0	114.1	74.6	0.3	202	0.0
	Rajasthan	13669	0	240.4	76.6	-0.3	585	0.0
	Delhi	4262	0	69.3	54.4	-1.2	258	0.0
	UP	16071	0	288.0	108.3	-2.2	682	0.0
	Uttarakhand	1999	0	37.2	21.1	0.0	67	0.0
	HP	1595	0	28.4	22.6	-0.7	192	0.0
	J&K(UT) and Ladakh(UT)	2370	593	47.6	43.5	-1.3	146	11.2
	Chandigarh	243	0	4.0	3.9	0.2	49	0.0
WR	Chhattisgarh	3439	0	74.7	23.4	-1.1	305	0.0
	Gujarat	15923	0	326.9	110.9	5.6	677	0.0
	MP	13741	0	243.1	128.9	-1.5	585	0.0
	Maharashtra	21173	0	425.1	139.9	-1.3	419	0.0
	Goa	430	0	12.2	8.9	2.8	93	0.1
	DD	298	0	6.9	6.3	0.6	46	0.0
	DNH	803	0	18.8	18.7	0.1	45	0.0
	Essar steel	307	0	5.8	5.9	-0.1	209	0.0
	Andhra Pradesh	8624	0	170.8	67.0	-0.5	455	0.0
SR	Telangana	10432	0	210.1	100.3	0.6	362	0.0
	Karnataka	11295	0	207.3	54.4	-1.2	518	0.0
	Kerala	3191	0	63.2	51.6	1.5	213	0.0
	Tamil Nadu	13063	0	279.3	141.5	-0.6	600	0.0
	Pondy	324	0	6.7	6.9	-0.2	31	0.0
	Bihar	4505	0	82.1	80.2	0.4	150	0.0
ER	DVC	3094	0	64.7	-30.1	-0.1	200	0.0
	Jharkhand	1297	0	24.0	16.3	-1.3	50	0.0
	Odisha	3560	0	65.0	3.3	0.3	200	0.0
	West Bengal	5762	0	103.3	16.6	0.3	350	0.0
	Sikkim	119	0	1.7	1.6	0.0	30	0.0
	Arunachal Pradesh	126	2	2.3	1.9	0.3	50	0.0
NER	Assam	1303	27	21.6	19.5	-0.4	103	0.8
	Manipur	208	1	2.6	3.1	-0.5	26	0.0
	Meghalaya	390	0	6.4	3.3	0.7	72	0.2
	Mizoram	105	1	1.5	1.5	-0.2	27	0.0
	Nagaland	127	1	2.3	2.2	-0.1	19	0.0
	Tripura	217	0	3.5	2.1	-0.4	33	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	5.3	-10.3	-9.8
Day peak (MW)	569.7	-508.0	-763.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.8	-214.0	90.8	-91.2	3.9	-0.6
Actual(MU)	202.5	-202.2	84.8	-89.0	3.5	-0.4
O/D/U/D(MU)	-7.3	11.8	-6.0	2.2	-0.5	0.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4794	17375	6452	1960	563	31144
State Sector	10605	17216	7060	5550	11	40442
Total	15399	34590	13512	7510	575	71586

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	496	1162	513	425	11	2607
Lignite	16	13	45	0	0	74
Hydro	109	40	65	34	7	256
Nuclear	29	25	38	0	0	92
Gas, Naptha & Diesel	29	33	18	0	23	103
RES (Wind, Solar, Biomass & Others)	71	50	179	2	0	301
Total	750	1323	858	461	42	3433

Share of RES in total generation (%)	9.44	3.80	20.82	0.33	0.07	8.77
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.87	8.72	32.86	7.75	16.90	18.90

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.027
Based on State Max Demands	1.088

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 : 13-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	299	0.0	7.3	-7.3
1	765kV	GAYA-VARANASI	D/C	0	1166	0.0	15.8	-15.8
2		SASARAM-FATEHPUR	S/C	3	431	0.0	4.5	-4.5
3		GAYA-BALIA	S/C	0	0	0.0	0.0	0.0
6	400 kV	PUSAULI-VARANASI	S/C	0	217	0.0	4.6	-4.6
7		PUSAULI -ALLAHABAD	S/C	0	148	0.0	2.7	-2.7
8		MUZAFFARPUR-GORAKHPUR	D/C	0	837	0.0	9.7	-9.7
9		PATNA-BALIA	Q/C	0	1019	0.0	15.8	-15.8
10		BIHARSHARIFF-BALIA	D/C	0	491	0.0	6.2	-6.2
11		MOTIHARI-GORAKHPUR	D/C	0	3	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	63	313	0.0	2.3	-2.3
13	220 kV	PUSAULI-SAHUPURI	S/C	0	146	0.0	2.6	-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	0.7	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	64.2	-63.5
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	653	447	0.7	0.0	0.7
19		NEW RANCHI-DHARAMJAIGARH	D/C	370	332	0.3	0.0	0.3
20		JHARSUGUDA-DURG	D/C	0	478	0.0	7.2	-7.2
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	56	443	0.0	4.1	-4.1
22		RANCHI-SIPAT	D/C	144	137	0.7	0.0	0.7
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	126	0.0	1.8	-1.8
24		BUDHIPADAR-KORBA	D/C	152	8	1.5	0.0	1.5
ER-WR						3.2	13.0	-9.8
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	18.0	989.0	0.0	2.1	-2.1
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2025.0	0.0	39.1	-39.1
28	400 kV	TALCHER-I/C	D/C	1609.0	0.0	33.7	0.0	33.7
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
ER-SR						0.0	57.3	-57.3
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	185	92	2.5	0.0	2
31		ALIPURDUAR-BONGAIGAON	D/C	224	73	2.9	0.0	3
32	220 kV	ALIPURDUAR-SALAKATI	D/C	44	21	0.4	0.0	0
ER-NER						5.7	0.0	5.7
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	472	0	10.4	0.0	10.4
NER-NR						10.4	0.0	10.4
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1853	0.0	29.4	-29.4
35		VCHAL B/B	D/C	449	0	8.4	0.0	8.4
36		APL -MHG	D/C	0	1921	0.0	34.7	-34.7
37	765 kV	GWALIOR-AGRA	D/C	0	2424	0.0	42.0	-42.0
38		PHAGI-GWALIOR	D/C	0	1857	0.0	23.5	-23.5
39		JABALPUR-ORAI	D/C	0	955	0.0	33.1	-33.1
40		GWALIOR-ORAI	S/C	888	0	14.0	0.0	14.0
41		SATNA-ORAI	S/C	0	1428	0.0	28.2	-28.2
42	400 kV	CHITTORGARH-BANASKANTHA	D/C	264	641	0.6	4.4	-3.8
43		ZERDA-KANKROLI	S/C	207	52	1.3	0.0	1.3
44		ZERDA -BHINMAL	S/C	305	172	0.0	0.7	-0.7
45		VCHAL -RIHAND	S/C	973	0	22.6	0.0	22.6
46		RAPP-SHUJALPUR	D/C	203	349	0	1	-1
47		BHANPURA-RANPUR	S/C	30	77	0.6	0.2	0.4
48		220 kV	BHANPURA-MORAK	S/C	36	108	0.1	0.9
49	MEHGAON-AURAIYA		S/C	100	0	1.5	0.0	1.5
50	MALANPUR-AURAIYA		S/C	49	18	0.5	0.0	0.4
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
WR-NR						49.5	197.8	-148.3
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	1002	0.0	23.5	-23.5
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	506	1785	0.9	23.4	-22.5
55		WARDHA-NIZAMABAD	D/C	0	1859	0.0	28.9	-28.9
56	400 kV	KOLHAPUR-KUDGI	D/C	846	0	10.4	0.0	10.4
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	85	1.6	0.0	1.6
WR-SR						13.0	75.8	-62.8
TRANSNATIONAL EXCHANGE								
60		BHUTAN						5.3
61		NEPAL						-10.3
62		BANGLADESH						-9.8