



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: 17th 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 16.01.2020.

महोदय/Dear Sir,

आईंईंजींसीं-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-जनवरी-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेंकें 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 16th 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 17-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)	67056	46603	35476	18344	2384	169863
Peak Shortage (MW)	1240	0	0	0	11	1251
Energy Met (MU)	907	1083	884	347	40	3261
Hydro Gen (MU)	124	40	74	30	7	276
Wind Gen (MU)	15	51	22	-----	-----	88
Solar Gen (MU)*	24.91	21.60	96.22	1.35	0.02	144
Energy Shortage (MU)	10.0	0.0	0.0	0.0	1.2	11.2
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46889 18:57	52508 11:01	42210 09:30	18416 18:57	2434 17:55	157260 09:40

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	0.042	0.00	0.27	8.09	8.36	72.06	19.58

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	5829	0	112.0	57.0	-1.6	167	0.0
	Haryana	6500	0	125.3	93.7	0.8	176	0.0
	Rajasthan	12650	0	225.9	68.2	-3.6	310	0.0
	Delhi	4361	0	76.4	60.0	0.0	238	0.0
	UP	14548	85	249.4	104.7	-7.3	992	0.0
	Uttarakhand	2145	0	39.8	21.9	0.0	218	0.0
	HP	1699	0	31.1	23.2	1.5	289	0.0
	J&K(UT) and Ladakh(UT)	2479	1240	42.2	35.6	1.2	445	10.0
	Chandigarh	276	0	4.5	4.5	0.1	27	0.0
WR	Chhattisgarh	3656	0	78.8	23.8	-1.5	241	0.0
	Gujarat	14908	0	309.7	80.7	3.7	698	0.0
	MP	11700	0	214.5	122.0	-2.9	763	0.0
	Maharashtra	21823	0	438.8	144.6	0.6	423	0.0
	Goa	484	0	10.0	10.0	-0.5	26	0.0
	DD	326	0	7.2	6.7	0.5	40	0.0
	DNH	783	0	18.2	18.2	0.0	75	0.0
	Essar steel	283	0	5.6	5.6	0.0	252	0.0
	SR	Andhra Pradesh	8085	0	153.7	57.2	-0.8	390
Telangana		10367	0	200.8	101.3	0.8	643	0.0
Karnataka		12678	0	227.3	62.9	-1.0	899	0.0
Kerala		3577	0	70.1	55.9	1.0	209	0.0
Tamil Nadu		10650	0	227.2	130.3	-0.7	489	0.0
Pondy		260	0	5.2	6.0	-0.8	30	0.0
ER	Bihar	4515	0	77.1	76.1	-0.3	210	0.0
	DVC	3123	0	63.2	-35.0	-0.3	250	0.0
	Jharkhand	1308	0	25.4	16.0	0.4	120	0.0
	Odisha	3619	0	65.6	6.4	0.4	330	0.0
	West Bengal	6429	0	113.8	20.3	1.0	265	0.0
	Sikkim	130	0	1.9	1.7	0.3	35	0.0
NER	Arunachal Pradesh	121	1	2.3	2.4	-0.2	27	0.0
	Assam	1295	5	20.9	18.2	-0.1	89	0.3
	Manipur	217	1	3.2	3.1	0.1	33	0.0
	Meghalaya	372	0	6.1	3.3	0.6	47	0.9
	Mizoram	104	2	1.6	1.6	-0.2	7	0.0
	Nagaland	132	1	2.2	2.1	-0.1	36	0.0
Tripura	219	1	3.7	2.2	-0.2	59	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.1	-8.3	-7.8
Day peak (MW)	463.1	-506.3	-757.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	219.6	-253.6	107.0	-77.5	4.5	0.0
Actual(MU)	201.6	-245.4	112.9	-66.6	3.7	6.2
O/D/U/D(MU)	-18.0	8.2	6.0	10.8	-0.8	6.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	5058	15308	7552	2170	588	30676
State Sector	11990	16930	8870	4850	11	42651
Total	17048	32237	16422	7020	600	73326

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	459	1151	435	414	11	2469
Lignite	22	13	45	0	0	79
Hydro	124	40	74	30	7	276
Nuclear	24	23	45	0	0	92
Gas, Naptha & Diesel	32	25	18	0	19	95
RES (Wind, Solar, Biomass & Others)	69	91	159	1	0	321
Total	730	1342	775	445	37	3331

Share of RES in total generation (%)	9.47	6.75	20.56	0.31	0.05	9.63
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.74	11.47	35.90	7.07	19.01	20.66

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.033
Based on State Max Demands	1.092

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 :	17-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	7.2	-7.2	
1	765kV	GAYA-VARANASI	D/C	0	788	0.0	9.1	-9.1	
2		SASARAM-FATEHPUR	S/C	54	296	0.0	0.4	-0.4	
3		GAYA-BALIA	S/C	0	409	0.0	6.5	-6.5	
6	400 kV	PUSAULI-VARANASI	S/C	0	220	0.0	4.4	-4.4	
7		PUSAULI -ALLAHABAD	S/C	0	156	0.0	2.6	-2.6	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	796	0.0	8.6	-8.6	
9		PATNA-BALIA	Q/C	0	760	0.0	11.2	-11.2	
10		BIHARSHARIFF-BALIA	D/C	0	503	0.0	6.2	-6.2	
11		MOTIHARI-GORAKHPUR	D/C	0	5	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	41	350	0.0	2.4	-2.4	
13		220 kV	PUSAULI-SAHUPURI	S/C	6	140	0.0	2.1	-2.1
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	53.5	-52.9
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1074	0	18.1	0.0	18.1	
19		NEW RANCHI-DHARAMJAIGARH	D/C	600	79	5.9	0.0	5.9	
20		JHARSUGUDA-DURG	D/C	155	158	0.9	0.0	0.9	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	140	177	0.0	0.5	-0.5	
22		RANCHI-SIPAT	D/C	191	35	2.3	0.0	2.3	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	90	0.0	1.4	-1.4	
24		BUDHIPADAR-KORBA	D/C	158	0	2.9	0.0	2.9	
						ER-WR	30.1	1.8	28.3
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	694.0	0.0	14.7	-14.7	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	1589.0	0.0	29.5	-29.5	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2494.0	0.0	44.4	-44.4	
28	400 kV	TALCHER-I/C	D/C	918.0	438.0	8.9	0.0	8.9	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
						ER-SR	0.0	88.5	-88.5
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	233	82	3.1	0.0	3	
31		ALIPURDUAR-BONGAIGAON	D/C	281	74	4.2	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	60	28	0.7	0.0	1	
						ER-NER	8.1	0.0	8.0
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	470	0	11.8	0.0	11.8	
						NER-NR	11.8	0.0	11.8
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1851	0.0	27.5	-27.5	
35		V'CHAL B/B	D/C	448	0	8.3	0.0	8.3	
36		APL -MHG	D/C	0	1930	0.0	40.7	-40.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2615	0.0	45.8	-45.8	
38		PHAGI-GWALIOR	D/C	0	1503	0.0	20.8	-20.8	
39		JABALPUR-ORAI	D/C	0	910	0.0	21.8	-21.8	
40		GWALIOR-ORAI	S/C	595	0	11.6	0.0	11.6	
41		SATNA-ORAI	S/C	0	1354	0.0	28.8	-28.8	
42		CHITTORGARH-BANASKANTHA	D/C	0	855	0.0	9.0	-9.0	
43	400 kV	ZERDA-KANKROLI	S/C	114	97	0.1	0.0	0.1	
44		ZERDA -BHINMAL	S/C	136	251	0.0	2.0	-2.0	
45		V'CHAL -RIHAND	S/C	980	0	21.7	0.0	21.7	
46		RAPP-SHUJALPUR	D/C	182	374	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	19	67	0.4	0.0	0.3	
48		BHANPURA-MORAK	S/C	32	121	0.1	0.8	-0.6	
49		MEHGAON-AURAIYA	S/C	62	0	0.6	0.0	0.6	
50	132kV	MALANPUR-AURAIYA	S/C	42	19	0.2	0.0	0.2	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
						WR-NR	43.0	198.6	-155.6
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1012	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	359	1846	0.0	21.5	-21.5	
55		WARDHA-NIZAMABAD	D/C	0	2234	0.0	37.5	-37.5	
56	400 kV	KOLHAPUR-KUDGI	D/C	757	0	8.5	0.0	8.5	
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	1.6	0.0	1.6	
						WR-SR	10.1	72.4	-62.2
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.1	
61		NEPAL						-8.3	
62		BANGLADESH						-7.8	