



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: 14th 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 13.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 13-जनवरी-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० 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 13th Jan 2020, is available at the NLDC website.

धन्यवाद,

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)	45698	47390	39455	18018	2427	152988
Peak Shortage (MW)	287	0	0	0	32	319
Energy Met (MU)	920	1133	975	351	41	3421
Hydro Gen (MU)	119	54	81	36	7	297
Wind Gen (MU)	11	35	12	-----	-----	59
Solar Gen (MU)*	13.39	19.10	93.97	1.99	0.03	128
Energy Shortage (MU)	8.0	0.0	0.0	0.0	1.5	9.5
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	46833 09:36	55471 11:06	46174 09:43	18618 18:40	2420 18:01	165721 09:42

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	0.30	5.51	5.81	75.21	18.98

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	5256	0	96.1	48.8	-1.5	82	0.0
	Haryana	6348	0	120.7	79.8	1.3	243	0.0
	Rajasthan	12415	0	226.5	79.4	0.4	517	0.0
	Delhi	4392	0	74.9	58.0	-0.2	304	0.0
	UP	16534	0	296.5	107.2	0.1	608	0.2
	Uttarakhand	2132	0	39.3	23.3	-0.4	115	0.0
	HP	1695	0	28.4	23.1	-1.4	119	0.0
	J&K(UT) and Ladakh(UT)	2031	358	33.6	34.8	-6.5	143	7.8
WR	Chandigarh	270	0	4.6	4.7	-0.2	18	0.0
	Chhattisgarh	3620	0	77.0	24.0	-1.5	473	0.0
	Gujarat	15622	0	324.1	102.6	2.1	588	0.0
	MP	13916	0	245.5	126.2	-3.1	696	0.0
	Maharashtra	22084	0	445.4	147.4	-0.7	563	0.0
	Goa	613	0	9.4	9.9	-0.5	39	0.0
	DD	328	0	7.2	6.6	0.6	50	0.0
	DNH	805	0	18.9	18.8	0.1	68	0.0
SR	Essar steel	283	0	5.6	5.7	-0.1	255	0.0
	Andhra Pradesh	8832	0	170.4	66.9	-0.8	449	0.0
	Telangana	10664	0	211.0	102.1	0.0	525	0.0
	Karnataka	12343	0	222.7	64.7	0.3	605	0.0
	Kerala	3562	0	69.3	54.0	1.6	212	0.0
	Tamil Nadu	14329	0	294.7	164.2	1.1	571	0.0
	Pondy	356	0	7.1	7.4	-0.4	38	0.0
	ER	Bihar	4597	0	83.8	80.7	1.1	300
DVC		3120	0	63.9	-31.5	-0.6	200	0.0
Jharkhand		1209	0	24.6	15.4	0.2	100	0.0
Odisha		3736	0	66.2	4.4	0.3	300	0.0
West Bengal		6167	0	110.9	19.9	0.4	300	0.0
Sikkim		136	0	2.1	1.8	0.3	35	0.0
NER	Arunachal Pradesh	120	2	2.2	1.9	0.1	56	0.0
	Assam	1352	12	23.1	19.7	0.4	82	0.4
	Manipur	213	3	2.7	3.1	-0.5	31	0.0
	Meghalaya	394	0	5.9	3.3	0.7	90	1.1
	Mizoram	102	2	1.6	1.5	-0.2	35	0.0
	Nagaland	127	2	2.2	2.2	-0.1	20	0.0
Tripura	229	0	3.5	2.3	-0.1	47	0.0	

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.2	-10.6	-10.2
Day peak (MW)	512.8	-551.0	-773.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	204.6	-219.5	105.5	-95.0	4.7	0.4
Actual(MU)	192.6	-219.4	109.1	-85.7	4.4	1.1
O/D/U/D(MU)	-12.0	0.1	3.6	9.3	-0.3	0.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4574	17303	5202	2560	563	30202
State Sector	11185	17466	7200	4600	11	40462
Total	15759	34768	12402	7160	575	70664

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	503	1180	537	435	12	2666
Lignite	19	15	48	0	0	81
Hydro	119	54	81	36	7	297
Nuclear	29	25	38	0	0	92
Gas, Naptha & Diesel	29	29	18	0	23	99
RES (Wind, Solar, Biomass & Others)	54	64	152	2	0	272
Total	753	1366	874	473	42	3508

Share of RES in total generation (%)	7.11	4.67	17.40	0.43	0.07	7.74
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	26.85	10.40	31.07	8.01	17.22	18.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.086

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 :	14-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	7.0	-7.0	
1	765kV	GAYA-VARANASI	D/C	0	1082	0.0	12.6	-12.6	
2		SASARAM-FATEHPUR	S/C	50	392	0.0	3.3	-3.3	
3		GAYA-BALIA	S/C	0	374	0.0	0.9	-0.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	248	0.0	4.9	-4.9	
7		PUSAULI -ALLAHABAD	S/C	0	138	0.0	2.2	-2.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	0	858	0.0	8.7	-8.7	
9		PATNA-BALIA	Q/C	0	1137	0.0	16.6	-16.6	
10		BIHARSHARIFF-BALIA	D/C	0	574	0.0	6.6	-6.6	
11		MOTIHARI-GORAKHPUR	D/C	0	7	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	99	291	0.0	1.0	-1.0	
13	220 kV	PUSAULI-SAHUPURI	S/C	0	149	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	0.6	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	59.3	-58.7	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1211	220	11.2	0.0	11.2	
19		NEW RANCHI-DHARAMJAIGARH	D/C	439	345	0.8	0.0	0.8	
20		JHARSUGUDA-DURG	D/C	156	532	0.0	5.5	-5.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	254	286	0.0	0.3	-0.3	
22		RANCHI-SIPAT	D/C	200	117	0.2	0.0	0.2	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	106	0.0	1.2	-1.2	
24		BUDHIPADAR-KORBA	D/C	177	0	2.9	0.0	2.9	
ER-WR						15.2	7.0	8.2	
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	1981.0	0.0	32.1	-32.1	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	1971.0	0.0	35.0	-35.0	
28	400 kV	TALCHER-I/C	D/C	1595.0	218.0	8.6	0.0	8.6	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	83.2	-83.2	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	229	111	2.5	0.0	2	
31		ALIPURDUAR-BONGAIGAON	D/C	266	54	3.5	0.0	4	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	48	23	0.6	0.0	1	
ER-NER						6.6	0.0	6.6	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	473	0	11.7	0.0	11.7	
NER-NR						11.7	0.0	11.7	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	1857	0.0	36.1	-36.1	
35		V'CHAL B/B	D/C	449	0	12.1	0.0	12.1	
36		APL -MHG	D/C	0	1923	0.0	36.7	-36.7	
37	765 kV	GWALIOR-AGRA	D/C	0	2167	0.0	39.9	-39.9	
38		PHAGI-GWALIOR	D/C	0	1606	0.0	20.5	-20.5	
39		JABALPUR-ORAI	D/C	0	829	0.0	27.2	-27.2	
40		GWALIOR-ORAI	S/C	713	0	11.5	0.0	11.5	
41		SATNA-ORAI	S/C	0	1359	0.0	26.9	-26.9	
42		CHITTORGARH-BANASKANTHA	D/C	306	795	0.0	2.9	-2.9	
43		ZERDA-KANKROLI	S/C	180	88	1.3	0.0	1.3	
44	400 kV	ZERDA -BHINMAL	S/C	256	217	0.0	0.5	-0.5	
45		V'CHAL -RIHAND	S/C	983	0	22.1	0.0	22.1	
46		RAPP-SHUJALPUR	D/C	223	293	1	2	0	
47	220 kV	BHANPURA-RANPUR	S/C	46	56	0.4	0.5	-0.2	
48		BHANPURA-MORAK	S/C	29	129	0.1	1.2	-1.2	
49		MEHGAON-AURAIYA	S/C	105	0	1.5	0.0	1.5	
50		MALANPUR-AURAIYA	S/C	48	9	0.5	0.0	0.5	
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						50.7	194.1	-143.5	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	1012	0.0	18.5	-18.5	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	522	2102	0.8	25.4	-24.6	
55		WARDHA-NIZAMABAD	D/C	0	2168	0.0	34.4	-34.4	
56	400 kV	KOLHAPUR-KUDGI	D/C	781	0	9.4	0.0	9.4	
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	89	1.6	0.0	1.6	
WR-SR						11.8	78.2	-66.4	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.2	
61		NEPAL						-10.6	
62		BANGLADESH						-10.2	