



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: 02nd 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 01.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 1-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 1st 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 2-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)	49037	43684	36574	18054	2286	149635
Peak Shortage (MW)	698	0	0	0	35	733
Energy Met (MU)	1017	1052	922	349	40	3380
Hydro Gen (MU)	117	35	87	32	8	280
Wind Gen (MU)	31	56	36	-----	-----	123
Solar Gen (MU)*	21.81	15.70	72.66	1.14	0.03	111
Energy Shortage (MU)	12.6	0.0	0.0	0.0	0.5	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51661 09:58	51854 11:02	45046 09:40	18090 18:32	2358 18:03	165213 10:29

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	0.043	0.00	0.17	6.18	6.35	68.11	25.53

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	6057	0	118.8	63.2	-1.3	164	0.0
	Haryana	6453	0	128.2	73.6	0.1	261	0.0
	Rajasthan	13711	0	239.8	62.1	-1.2	561	0.0
	Delhi	5210	0	83.5	71.9	0.4	369	0.0
	UP	16987	0	320.7	149.6	0.1	756	0.0
	Uttarakhand	2114	0	38.1	24.0	-0.2	143	0.0
	HP	1722	0	30.1	23.0	0.3	248	0.0
	J&K(UT) and Ladakh(UT)	2792	698	53.2	46.5	1.4	354	12.6
	Chandigarh	293	0	4.8	4.7	0.1	43	0.0
WR	Chhattisgarh	3509	0	74.8	26.1	-2.2	181	0.0
	Gujarat	14523	0	301.9	58.0	-5.1	651	0.0
	MP	13575	0	239.3	113.6	-3.0	325	0.0
	Maharashtra	19706	0	395.8	123.4	-0.7	556	0.0
	Goa	476	0	12.6	9.7	2.3	34	0.0
	DD	263	0	5.8	5.6	0.2	31	0.0
	DNH	728	0	16.7	16.8	-0.1	27	0.0
	Essar steel	277	0	5.5	5.3	0.2	234	0.0
	Andhra Pradesh	8657	0	165.2	61.6	-0.6	366	0.0
SR	Telangana	10253	0	201.2	100.0	-1.5	646	0.0
	Karnataka	11590	0	205.3	55.4	0.3	639	0.0
	Kerala	3560	0	73.4	56.2	1.2	187	0.0
	Tamil Nadu	11770	0	270.3	160.1	-0.4	439	0.0
	Pondy	317	0	6.4	6.9	-0.5	17	0.0
	Bihar	4424	0	82.9	81.6	0.1	470	0.0
ER	DVC	3060	0	64.6	-30.7	-0.2	270	0.0
	Jharkhand	1281	0	26.3	17.4	-0.5	120	0.0
	Odisha	3620	0	66.3	1.7	0.7	320	0.0
	West Bengal	6009	0	106.8	24.2	1.5	240	0.0
	Sikkim	120	0	1.7	1.7	0.1	35	0.0
	Arunachal Pradesh	117	2	2.2	1.8	0.3	29	0.0
NER	Assam	1264	16	21.7	17.4	0.2	105	0.4
	Manipur	193	3	2.4	3.0	-0.6	23	0.0
	Meghalaya	379	0	6.3	3.2	0.4	69	0.0
	Mizoram	98	1	1.7	1.5	-0.3	9	0.0
	Nagaland	121	2	2.2	2.2	-0.2	33	0.0
	Tripura	220	0	3.5	1.5	-0.4	29	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	4.6	-7.4	-9.4
Day peak (MW)	523.2	-518.5	-612.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	253.7	-288.1	115.9	-79.6	-1.3	0.5
Actual(MU)	258.8	-324.1	140.6	-74.5	0.1	0.9
O/D/U/D(MU)	5.2	-36.0	24.7	5.2	1.4	0.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4473	14493	7752	2310	597	29624
State Sector	13714	15182	9160	5040	11	43107
Total	18187	29674	16912	7350	608	72731

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	503	1193	449	415	12	2571
Lignite	18	13	46	0	0	78
Hydro	117	35	87	32	8	280
Nuclear	29	37	44	0	0	110
Gas, Naptha & Diesel	27	38	17	0	24	106
RES (Wind, Solar, Biomass & Others)	82	86	151	1	0	320
Total	775	1402	794	449	44	3464

Share of RES in total generation (%)	10.54	6.12	19.06	0.26	0.07	9.24
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	29.41	11.26	35.50	7.44	19.12	20.48

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.023
Based on State Max Demands	1.062

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 :	2-Jan-20
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	151	0.0	1.7	-1.7	
5		PUSAULI B/B	S/C	3	297	0.0	6.6	-6.6	
1	765kV	GAYA-VARANASI	D/C	0	886	0.0	8.6	-8.6	
2		SASARAM-FATEHPUR	S/C	126	380	0.0	3.4	-3.4	
3		GAYA-BALIA	S/C	0	513	0.0	7.9	-7.9	
6	400 kV	PUSAULI-VARANASI	S/C	0	250	0.0	4.2	-4.2	
7		PUSAULI -ALLAHABAD	S/C	31	173	0.0	2.2	-2.2	
8		MUZAFFARPUR-GORAKHPUR	D/C	126	895	0.0	7.3	-7.3	
9		PATNA-BALIA	Q/C	0	858	0.0	13.3	-13.3	
10		BIHARSHARIFF-BALIA	D/C	14	531	0.0	5.5	-5.5	
11		MOTIHARI-GORAKHPUR	D/C	0	4	0.0	0.0	0.0	
12		BIHARSHARIFF-VARANASI	D/C	189	385	0.0	1.9	-1.9	
13	220 kV	PUSAULI-SAHUPURI	S/C	3	114	0.0	1.0	-1.0	
14	132 kV	SONE NAGAR-RIHAND	S/C	0	0	0.0	0.0	0.0	
15		GARWAH-RIHAND	S/C	30	0	0.6	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	55.3	-54.8	
Import/Export of ER (With WR)									
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	1705	72	18.6	0.0	18.6	
19		NEW RANCHI-DHARAMJAIGARH	D/C	950	0	10.3	0.0	10.3	
20		JHARSUGUDA-DURG	D/C	252	48	1.5	0.0	1.5	
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	345	45	3.2	0.0	3.2	
22		RANCHI-SIPAT	D/C	374	0	3.1	0.0	3.1	
23	220 kV	BUDHIPADAR-RAIGARH	S/C	0	82	0.0	1.1	-1.1	
24		BUDHIPADAR-KORBA	D/C	198	0	3.5	0.0	3.5	
ER-WR						40.2	1.1	39.1	
Import/Export of ER (With SR)									
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	664.0	0.0	16.1	-16.1	
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2467.0	0.0	48.7	-48.7	
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2016.0	0.0	35.2	-35.2	
28	400 kV	TALCHER-I/C	D/C	403.0	992.0	0.0	10.7	-10.7	
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0	
ER-SR						0.0	99.9	-99.9	
Import/Export of ER (With NER)									
30	400 kV	BINAGURI-BONGAIGAON	D/C	275	323	1.0	0.0	1	
31		ALIPURDUAR-BONGAIGAON	D/C	321	257	2.9	0.0	3	
32	220 kV	ALIPURDUAR-SALAKATI	D/C	64	74	0.3	0.0	0	
ER-NER						4.2	0.0	4.2	
Import/Export of NER (With NR)									
33	HVDC	BISWANATH CHARIALI-AGRA	-	489	304	4.7	0.0	4.7	
NER-NR						4.7	0.0	4.7	
Import/Export of WR (With NR)									
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2305	0.0	45.0	-45.0	
35		V'CHAL B/B	D/C	449	489	3.7	5.7	-2.1	
36		APL -MHG	D/C	0	1922	0.0	43.8	-43.8	
37	765 kV	GWALIOR-AGRA	D/C	0	2864	0.0	53.1	-53.1	
38		PHAGI-GWALIOR	D/C	0	1708	0.0	21.6	-21.6	
39		JABALPUR-ORAI	D/C	0	1078	0.0	35.8	-35.8	
40		GWALIOR-ORAI	S/C	719	0	10.6	0.0	10.6	
41		SATNA-ORAI	S/C	0	1575	0.0	31.2	-31.2	
42		CHITTORGARH-BANASKANTHA	D/C	0	1073	0.0	5.3	-5.3	
43	400 kV	ZERDA-KANKROLI	S/C	104	200	0.2	0.0	0.2	
44		ZERDA -BHINMAL	S/C	220	381	0.4	0.0	0.4	
45		V'CHAL -RIHAND	S/C	972	0	22.0	0.0	22.0	
46		RAPP-SHUJALPUR	D/C	88	393	0	1	-1	
47	220 kV	BHANPURA-RANPUR	S/C	20	84	0.3	0.3	-0.1	
48		BHANPURA-MORAK	S/C	2	110	0.0	1.1	-1.1	
49		MEHGAON-AURAIYA	S/C	96	4	1.1	0.0	1.1	
50	132kV	MALANPUR-AURAIYA	S/C	38	42	0.1	0.2	-0.1	
51		GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0	
WR-NR						38.4	244.2	-205.8	
Import/Export of WR (With SR)									
52	HVDC	BHADRAWATI B/B	-	0	518	0.0	10.6	-10.6	
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0	
54	765 kV	SOLAPUR-RAICHUR	D/C	185	2161	0.1	32.4	-32.3	
55		WARDHA-NIZAMABAD	D/C	0	2370	0.0	43.3	-43.3	
56	400 kV	KOLHAPUR-KUDGI	D/C	775	32	6.4	0.0	6.4	
57		KOLHAPUR-CHIKODI	D/C	0	0	0.0	0.0	0.0	
58	220 kV	PONDA-AMBEWADI	S/C	2	0	0.0	0.0	0.0	
59		XELDEM-AMBEWADI	S/C	0	75	1.5	0.0	1.5	
WR-SR						8.0	86.2	-78.2	
TRANSNATIONAL EXCHANGE									
60		BHUTAN						4.6	
61		NEPAL						-7.4	
62		BANGLADESH						-9.4	