National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
POWER SYSTEM OPERATION CORPORATION LIMITED
पॉवर 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: 3rd 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., डोंगतिएह, 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 02.01.2020.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 02-जनवरी-2020 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रा०भा०प्रे०के० की वेबसाइट पर उप्लब्ध 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 02nd 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** **3-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)	47965	45671	40058	18227	2359	154280
Peak Shortage (MW)	706	0	0	0	24	730
Energy Met (MU)	991	1064	950	338	41	3383
Hydro Gen (MU)	109	41	105	34	9	298
Wind Gen (MU)	23	44	24	----------	----------	91
Solar Gen (MU)*	23.05	13.60	71.37	1.21	0.02	109
Energy Shortage (MU)	12.1	0.1	0.0	0.0	0.7	13.0
Maximum Demand Met during the day (MW) & time (from NLDC SCADA)	51002 09:54	52182 10:41	46129 10:51	18154 18:13	2503 17:34	165222 09:32

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	0.049	0.00	0.38	10.66	11.04	67.70	21.26

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	6176	0	121.0	66.3	-3.1	36	0.0
	Haryana	6648	0	127.5	75.2	0.3	222	0.0
	Rajasthan	13670	0	239.1	70.5	-5.0	134	0.0
	Delhi	4690	0	79.2	69.0	-0.4	338	0.0
	UP	15989	0	299.0	135.7	-1.9	528	0.0
	Uttarakhand	2110	0	39.2	22.3	-0.5	130	0.0
	HP	1668	0	30.2	23.3	0.0	135	0.0
	J&K(UT) and Ladakh(UT)	2824	706	51.5	46.6	-0.5	522	12.1
	Chandigarh	260	0	4.3	4.4	-0.1	27	0.0
WR	Chhattisgarh	3447	0	69.0	20.8	-2.1	269	0.0
	Gujarat	15253	0	313.2	68.4	-0.6	649	0.0
	MP	12262	0	228.2	116.0	-2.6	424	0.0
	Maharashtra	20369	0	411.1	129.6	-1.2	599	0.0
	Goa	490	0	13.0	10.0	2.4	25	0.1
	DD	305	0	6.4	6.2	0.2	33	0.0
	DNH	792	0	17.6	17.6	0.0	41	0.0
	Essar steel	281	0	5.5	5.6	-0.1	214	0.0
SR	Andhra Pradesh	8414	0	167.4	64.3	-0.6	416	0.0
	Telangana	10359	0	201.7	104.8	0.1	541	0.0
	Karnataka	11995	0	212.4	57.0	1.7	962	0.0
	Kerala	3751	0	75.4	55.7	1.7	210	0.0
	Tamil Nadu	14048	0	286.8	162.1	1.1	473	0.0
	Pondy	348	0	6.6	7.1	-0.5	29	0.0
ER	Bihar	4556	0	77.0	76.3	-0.5	252	0.0
	DVC	3078	0	62.8	-30.4	-0.1	203	0.0
	Jharkhand	1305	0	23.0	17.0	-1.9	187	0.0
	Odisha	3658	0	65.8	1.1	-0.4	211	0.0
	West Bengal	6062	0	107.0	23.9	-0.2	412	0.0
	Sikkim	130	0	2.0	1.7	0.3	48	0.0
NER	Arunachal Pradesh	116	2	2.2	1.9	0.2	50	0.0
	Assam	1382	8	22.5	17.4	0.4	191	0.2
	Manipur	195	3	2.7	3.1	-0.4	45	0.0
	Meghalaya	361	0	5.7	3.1	0.2	87	0.5
	Mizoram	97	1	1.8	1.2	0.0	4	0.0
	Nagaland	126	1	2.3	2.2	-0.1	6	0.0
	Tripura	225	2	3.5	1.5	0.0	40	0.0

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

	Bhutan	Nepal	Bangladesh
Actual(MU)	2.1	-10.0	-9.3
Day peak (MW)	596.0	-533.1	-619.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	258.9	-290.4	122.2	-89.3	-1.3	0.1
Actual(MU)	245.2	-307.0	149.2	-89.4	-0.6	-2.5
O/D/U/D(MU)	-13.7	-16.6	27.0	0.0	0.7	-2.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	Total
Central Sector	4473	16133	7752	2510	597	31464
State Sector	12289	15307	9380	5550	11	42537
Total	16762	31439	17132	8060	608	74001

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	505	1199	463	420	13	2601
Lignite	22	13	46	0	0	81
Hydro	109	41	105	34	9	298
Nuclear	29	37	44	0	0	110
Gas, Naptha & Diesel	28	35	17	0	24	104
RES (Wind, Solar, Biomass & Others)	75	69	141	1	0	287
Total	769	1394	816	455	46	3480

Share of RES in total generation (%)	9.79	4.98	17.28	0.27	0.04	8.25
Share of Non-fossil fuel (Hydro, Nuclear and RES) in total generation (%)	27.78	10.56	35.58	7.73	18.75	19.97

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.029
Based on State Max Demands	1.074

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.

कार्यपालक निदेशक (रा० भा० प्रे० के०)

INTER-REGIONAL EXCHANGES

Date of Reporting : **3-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	500	0.0	4.8	-4.8
5		PUSAULI B/B	S/C	0	297	0.0	7.3	-7.3
1	765kV	GAYA-VARANASI	D/C	0	1059	0.0	11.9	-11.9
2		SASARAM-FATEHPUR	S/C	88	423	0.0	3.9	-3.9
3		GAYA-BALIA	S/C	0	515	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	S/C	0	250	0.0	4.6	-4.6
7		PUSAULI -ALLAHABAD	S/C	0	189	0.0	2.5	-2.5
8		MUZAFFARPUR-GORAKHPUR	D/C	108	795	0.0	6.4	-6.4
9		PATNA-BALIA	Q/C	0	997	0.0	17.3	-17.3
10		BIHARSHARIFF-BALIA	D/C	0	473	0.0	5.4	-5.4
11		MOTIHARI-GORAKHPUR	D/C	0	6	0.0	0.0	0.0
12		BIHARSHARIFF-VARANASI	D/C	179	396	0.0	2.7	-2.7
13	220 kV	PUSAULI-SAHUPURI	S/C	0	119	0.0	1.8	-1.8
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**	**64.9**	**-64.4**
Import/Export of ER (With WR)								
18	765 kV	JHARSUGUDA-DHARAMJAIGARH	Q/C	5563	0	20.5	0.0	20.5
19		NEW RANCHI-DHARAMJAIGARH	D/C	834	0	7.8	0.0	7.8
20		JHARSUGUDA-DURG	D/C	999915	202	0.7	0.0	0.7
21	400 kV	JHARSUGUDA-RAIGARH	Q/C	444	65	3.3	0.0	3.3
22		RANCHI-SIPAT	D/C	314	0	3.5	0.0	3.5
23	220 kV	BUDHIPADAR-RAIGARH	S/C	18	98	0.0	1.0	-1.0
24		BUDHIPADAR-KORBA	D/C	205	0	3.3	0.0	3.3
					ER-WR	**39.0**	**1.0**	**38.0**
Import/Export of ER (With SR)								
26	HVDC	JEYPORE-GAZUWAKA B/B	D/C	0.0	662.0	0.0	16.1	-16.1
27		TALCHER-KOLAR BIPOLE	D/C	0.0	2479.0	0.0	44.5	-44.5
25	765 kV	ANGUL-SRIKAKULAM	D/C	0.0	2142.0	0.0	37.2	-37.2
28	400 kV	TALCHER-I/C	D/C	1744.0	1055.0	0.0	5.1	-5.1
29	220 kV	BALIMELA-UPPER-SILERRU	S/C	1.0	0.0	0.0	0.0	0.0
					ER-SR	**0.0**	**97.8**	**-97.8**
Import/Export of ER (With NER)								
30	400 kV	BINAGURI-BONGAIGAON	D/C	80	281	0.0	1.3	-1
31		ALIPURDUAR-BONGAIGAON	D/C	170	130	1.1	0.0	1
32	220 kV	ALIPURDUAR-SALAKATI	D/C	32	52	0.0	0.2	0
					ER-NER	**1.1**	**1.4**	**-0.3**
Import/Export of NER (With NR)								
33	HVDC	BISWANATH CHARIALI-AGRA	-	1	210	0.0	0.2	-0.2
					NER-NR	**0.0**	**0.2**	**-0.2**
Import/Export of WR (With NR)								
34	HVDC	CHAMPA-KURUKSHETRA	D/C	0	2302	0.0	38.7	-38.7
35		V'CHAL B/B	D/C	448	249	9.4	0.7	8.6
36		APL -MHG	D/C	0	2196	0.0	39.5	-39.5
37	765 kV	GWALIOR-AGRA	D/C	0	2692	0.0	49.7	-49.7
38		PHAGI-GWALIOR	D/C	0	1760	0.0	22.9	-22.9
39		JABALPUR-ORAI	D/C	0	963	0.0	33.9	-33.9
40		GWALIOR-ORAI	S/C	752	0	10.9	0.0	10.9
41		SATNA-ORAI	S/C	0	1520	0.0	31.1	-31.1
42		CHITTORGARH-BANASKANTHA	D/C	109	957	0.0	3.8	-3.8
43	400 kV	ZERDA-KANKROLI	S/C	131	163	0.5	0.0	0.5
44		ZERDA -BHINMAL	S/C	170	317	0.0	0.7	-0.7
45		V'CHAL -RIHAND	S/C	975	0	21.1	0.0	21.1
46		RAPP-SHUJALPUR	D/C	147	398	0	1	-1
47	220 kV	BHANPURA-RANPUR	S/C	115	120	0.8	0.1	0.7
48		BHANPURA-MORAK	S/C	91	76	0.1	0.6	-0.5
49		MEHGAON-AURAIYA	S/C	90	0	1.2	0.0	1.2
50		MALANPUR-AURAIYA	S/C	34	34	0.2	0.1	0.1
51	132kV	GWALIOR-SAWAI MADHOPUR	S/C	0	0	0.0	0.0	0.0
					WR-NR	**44.0**	**222.5**	**-178.5**
Import/Export of WR (With SR)								
52	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.2	-12.2
53		BARSUR-L.SILERU	-	0	0	0.0	0.0	0.0
54	765 kV	SOLAPUR-RAICHUR	D/C	0	2226	0.0	36.0	-36.0
55		WARDHA-NIZAMABAD	D/C	0	2671	0.0	50.2	-50.2
56	400 kV	KOLHAPUR-KUDGI	D/C	722	139	5.4	0.0	5.4
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	78	1.4	0.0	1.4
					WR-SR	**6.8**	**98.4**	**-91.6**
TRANSNATIONAL EXCHANGE								
60		BHUTAN						**2.1**
61		NEPAL						**-10.0**
62		BANGLADESH						**-9.3**