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: 18th Jan 2021

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 17.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 17-जनवरी -2021 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 17th January 2021, 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:** **18-Jan-2021**

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	49592	50704	36296	18141	2435	157168
Peak Shortage (MW)	712	0	0	172	36	920
Energy Met (MU)	995	1239	860	375	42	3511
Hydro Gen (MU)	103	45	68	31	11	258
Wind Gen (MU)	10	41	46	-	-	96
Solar Gen (MU)*	34.80	29.75	103.64	4.29	0.07	173
Energy Shortage (MU)	12.53	0.26	0.00	0.52	0.24	13.55
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	51120	59827	43703	19222	2451	171812
Time Of Maximum Demand Met (From NLDC SCADA)	09:45	10:27	09:21	18:55	17:54	09:48

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	0.036	0.00	0.57	4.88	5.45	76.97	17.58

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	6139	0	118.6	53.5	-0.8	91	0.00
	Haryana	5896	0	119.2	84.6	-0.1	156	0.00
	Rajasthan	13692	0	254.0	85.2	1.4	360	0.00
	Delhi	4604	0	74.0	61.4	1.2	303	0.00
	UP	16987	0	295.5	84.8	0.3	439	0.05
	Uttarakhand	2180	0	39.3	22.3	0.8	129	0.08
	HP	1673	3	33.5	24.4	-0.4	158	0.00
	J&K(UT) & Ladakh(UT)	2933	600	56.7	50.6	0.4	403	12.40
	Chandigarh	237	0	3.9	3.9	-0.1	24	0.00
WR	Chhattisgarh	4212	0	91.7	41.7	1.0	327	0.26
	Gujarat	16788	0	345.6	117.8	4.9	450	0.00
	MP	14501	0	283.0	168.1	-3.2	453	0.00
	Maharashtra	22843	0	462.5	148.1	-3.1	466	0.00
	Goa	457	0	9.9	9.3	0.1	26	0.00
	DD	305	0	8.3	6.7	1.6	26	0.00
	DNH	803	0	19.0	19.2	-0.1	39	0.00
	AMNSIL	829	0	18.5	12.3	-0.7	285	0.00
SR	Andhra Pradesh	8924	0	168.0	57.5	1.4	441	0.00
	Telangana	11260	0	216.2	93.1	0.1	665	0.00
	Karnataka	10706	0	199.0	72.9	-0.3	749	0.00
	Kerala	3367	0	66.5	48.7	0.1	341	0.00
	Tamil Nadu	9903	0	203.9	134.0	-1.3	260	0.00
	Puducherry	300	0	6.0	6.4	-0.4	25	0.00
ER	Bihar	4987	0	88.4	82.2	-1.0	583	0.00
	DVC	3214	0	68.7	-42.4	0.5	312	0.00
	Jharkhand	1406	172	25.1	19.5	-2.9	167	0.52
	Odisha	3798	0	73.9	6.8	-0.9	224	0.00
	West Bengal	5713	0	117.8	8.8	0.1	518	0.00
	Sikkim	104	0	1.5	1.7	-0.2	17	0.00
NER	Arunachal Pradesh	146	2	2.3	2.6	-0.5	26	0.01
	Assam	1360	12	23.7	18.0	0.5	102	0.20
	Manipur	227	1	2.7	3.3	-0.6	24	0.01
	Meghalaya	357	0	6.8	4.6	0.1	216	0.00
	Mizoram	122	1	1.5	1.6	-0.5	19	0.01
	Nagaland	129	1	2.2	2.0	0.0	23	0.01
	Tripura	212	0	3.5	2.1	-0.4	21	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.9	-11.6	-18.8
Day Peak (MW)	304.0	-639.7	-995.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	248.7	-209.7	69.6	-106.7	-2.0	0.0
Actual(MU)	251.7	-216.5	59.2	-103.7	-2.8	-12.1
O/D/U/D(MU)	3.0	-6.8	-10.4	3.0	-0.9	-12.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6505	14428	7202	3115	599	31848	43
State Sector	11414	14348	12117	4402	11	42291	57
Total	17919	28775	19319	7517	610	74139	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	534	1295	448	479	7	2763	77
Lignite	21	10	32	0	0	63	2
Hydro	103	45	68	31	11	258	7
Nuclear	13	21	64	0	0	99	3
Gas, Naptha & Diesel	23	29	12	0	31	95	3
RES (Wind, Solar, Biomass & Others)	72	72	186	4	0	334	9
Total	767	1471	811	514	50	3612	100

Share of RES in total generation (%)	9.38	4.86	22.93	0.84	0.14	9.24
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.57	9.35	39.22	6.78	23.06	19.11

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.055

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

***Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.**

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)
Date of Reporting: 18-Jan-2021

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	249	0.0	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	868	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	18	285	0.0	3.7	-3.7
5	765 kV	GAYA-BALIA	1	0	560	0.0	8.1	-8.1
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	112	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	784	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	1233	0.0	18.8	-18.8
10	400 kV	BIHARSHARIFF-BALIA	2	0	565	0.0	7.7	-7.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	334	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	58	262	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	49	59	0.0	0.1	-0.1
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
16	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	0	0	0.0	0.0	0.0
					ER-NR	0.4	80.1	-79.7
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	443	469	0.0	0.0	0.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	987	98	8.4	0.0	8.4
3	765 kV	JHARSUGUDA-DURG	2	0	528	0.0	6.2	-6.2
4	400 kV	JHARSUGUDA-RAIGARH	4	113	335	0.0	3.0	-3.0
5	400 kV	RANCHI-SIPAT	2	342	25	3.2	0.0	3.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	123	0.0	1.6	-1.6
7	220 kV	BUDHIPADAR-KORBA	2	143	15	1.6	0.0	1.6
					ER-WR	13.2	10.8	2.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	381	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1638	0.0	33.0	-33.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	1956	0.0	33.9	-33.9
4	400 kV	TALCHER-I/C	2	296	864	0.0	1.0	-1.0
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	75.5	-75.5
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	270	42	3.5	0.0	3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	453	25	6.0	0.0	6.0
3	220 kV	ALIPURDUAR-SALAKATI	2	76	18	0.9	0.0	0.9
					ER-NER	10.4	0.0	10.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	7.8	0.0	7.8
					NER-NR	7.8	0.0	7.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	2001	0.0	44.9	-44.9
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1921	0.0	37.9	-37.9
4	765 kV	GWALIOR-AGRA	2	0	2937	0.0	46.2	-46.2
5	765 kV	PHAGI-GWALIOR	2	0	1443	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	0	1255	0.0	39.6	-39.6
7	765 kV	GWALIOR-ORAI	1	863	0	15.7	0.0	15.7
8	765 kV	SATNA-ORAI	1	0	1576	0.0	29.1	-29.1
9	765 kV	CHITORGARH-BANASKANTHA	2	922	475	3.8	0.0	3.8
10	400 kV	ZERDA-KANKROLI	1	197	57	1.5	0.0	1.5
11	400 kV	ZERDA -BHINMAL	1	112	273	0.0	2.2	-2.2
12	400 kV	VINDHYACHAL -RIHAND	1	491	0	11.3	0.0	11.3
13	400 kV	RAPP-SHUJALPUR	2	0	709	0.0	7.2	-7.2
14	220 kV	BHANPURA-RANPUR	1	0	158	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	128	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	83	20	1.5	0.0	1.5
18	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
19	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	40.4	234.6	-194.1
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	12.3	-12.3
2	HVDC	RAIGARH-PUGALUR	2	484	499	0.0	6.9	-6.9
3	765 kV	SOLAPUR-RAICHUR	2	1288	1347	0.0	0.4	-0.4
4	765 kV	WARDHA-NIZAMABAD	2	0	1961	0.0	24.9	-24.9
5	400 kV	KOLHAPUR-KUDGI	2	1568	0	24.4	0.0	24.4
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	45	0.8	0.0	0.8
					WR-SR	25.2	44.5	-19.3

INTERNATIONAL EXCHANGES

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1&2 i.e. ALIPURDUAR RECEIPT (from MANGDECHU HEP 4*180MW)	111	107	111	2.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	137	0	110	2.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	17	10	17	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	27	5	14	0.3
	NER	132kV Motanga-Rangia	12	0	7	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-70	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-290	-194	-259	-6.2
	ER	132KV-BIHAR - NEPAL	-269	-17	-156	-3.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-889	-456	-701	-16.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-41	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-41	-1.0