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: 19th 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 18.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 18-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 18th 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:** **19-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)	49600	53077	39683	19835	2535	164730
Peak Shortage (MW)	2951	88	0	0	23	3062
Energy Met (MU)	1009	1263	925	396	43	3636
Hydro Gen (MU)	100	55	86	36	10	287
Wind Gen (MU)	31	50	60	-	-	141
Solar Gen (MU)*	15.00	30.25	108.64	4.60	0.12	159
Energy Shortage (MU)	24.51	0.90	0.00	0.00	0.37	25.78
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52279	62193	47227	20124	2675	178940
Time Of Maximum Demand Met (From NLDC SCADA)	09:46	10:45	11:00	18:16	17:50	10:45

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	0.032	0.00	0.27	6.06	6.33	80.31	13.36

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	6180	150	122.3	48.3	-1.0	49	1.53
	Haryana	6721	0	129.1	89.0	1.6	253	0.08
	Rajasthan	13415	724	249.4	76.4	2.9	816	9.76
	Delhi	4727	0	76.2	65.6	-1.6	264	0.02
	UP	16863	30	299.2	86.4	0.0	479	0.41
	Uttarakhand	2267	0	40.8	24.2	0.0	79	0.12
	HP	1796	69	31.7	26.3	-0.7	362	0.19
	J&K(UT) & Ladakh(UT)	3010	600	55.9	50.7	-0.4	524	12.40
	Chandigarh	261	0	4.1	3.9	0.2	62	0.00
WR	Chhattisgarh	4312	43	93.2	45.8	2.1	321	0.80
	Gujarat	17305	0	352.2	113.5	2.3	795	0.00
	MP	14978	0	287.9	167.7	-1.1	608	0.00
	Maharashtra	23510	0	475.5	151.3	-0.2	909	0.00
	Goa	486	0	10.3	10.0	-0.1	63	0.10
	DD	335	0	7.3	7.0	0.3	28	0.00
	DNH	841	0	19.4	19.4	0.0	38	0.00
	AMNSIL	793	0	17.6	10.3	-2.1	151	0.00
SR	Andhra Pradesh	8690	0	173.5	62.3	1.9	699	0.00
	Telangana	12103	0	224.3	103.0	0.7	667	0.00
	Karnataka	11652	0	214.0	69.8	-0.7	687	0.00
	Kerala	3558	0	70.7	47.6	0.0	292	0.00
	Tamil Nadu	12107	0	235.4	142.1	-0.8	626	0.00
	Puducherry	343	0	6.6	6.9	-0.3	63	0.00
ER	Bihar	5030	0	89.0	83.9	-1.6	380	0.00
	DVC	3514	0	67.6	-40.9	0.7	320	0.00
	Jharkhand	1459	0	26.0	19.2	-2.0	89	0.00
	Odisha	4422	0	86.5	12.7	-0.5	328	0.00
	West Bengal	6575	0	124.6	9.7	0.5	544	0.00
	Sikkim	130	0	1.9	1.9	0.0	28	0.00
NER	Arunachal Pradesh	128	1	2.2	2.3	-0.2	67	0.01
	Assam	1434	14	24.1	19.2	0.1	143	0.30
	Manipur	235	2	2.7	3.2	-0.5	55	0.02
	Meghalaya	392	0	6.7	4.2	0.2	45	0.00
	Mizoram	111	1	1.5	1.6	-0.4	35	0.01
	Nagaland	127	1	2.2	1.8	0.3	22	0.01
	Tripura	270	1	3.7	1.8	-0.1	53	0.02

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-12.2	-18.7
Day Peak (MW)	263.0	-590.0	-998.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	243.5	-216.6	68.8	-97.4	1.7	0.0
Actual(MU)	243.2	-222.3	62.9	-91.4	2.7	-4.9
O/D/U/D(MU)	-0.3	-5.6	-5.9	6.0	1.0	-4.9

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6505	13573	7002	3115	599	30793	42
State Sector	11004	14738	12157	5392	11	43301	58
Total	17509	28310	19159	8507	610	74094	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	561	1298	491	481	7	2838	76
Lignite	21	8	33	0	0	62	2
Hydro	100	55	86	36	10	287	8
Nuclear	13	23	42	0	0	79	2
Gas, Naptha & Diesel	23	34	12	0	27	96	3
RES (Wind, Solar, Biomass & Others)	74	81	204	5	0	364	10
Total	792	1500	869	521	45	3727	100

Share of RES in total generation (%)	9.31	5.43	23.53	0.89	0.27	9.77
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.59	10.64	38.30	7.77	23.33	19.59

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.062

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: 19-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	991	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	50	367	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	577	0.0	8.5	-8.5
6	400 kV	PUSAULI-VARANASI	1	0	206	0.0	4.2	-4.2
7	400 kV	PUSAULI -ALLAHABAD	1	0	106	0.0	1.6	-1.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	724	0.0	7.6	-7.6
9	400 kV	PATNA-BALIA	4	0	1021	0.0	14.3	-14.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	534	0.0	7.0	-7.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	276	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	2	129	275	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	70	52	0.3	0.0	0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	0.6	70.1	-69.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	882	511	5.2	0.0	5.2
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	765	168	8.3	0.0	8.3
3	765 kV	JHARSUGUDA-DURG	2	70	218	0.0	2.2	-2.2
4	400 kV	JHARSUGUDA-RAIGARH	4	168	334	0.0	1.8	-1.8
5	400 kV	RANCHI-SIPAT	2	300	33	3.3	0.0	3.3
6	220 kV	BUDHIPADAR-RAIGARH	1	0	130	0.0	1.8	-1.8
7	220 kV	BUDHIPADAR-KORBA	2	144	16	1.4	0.0	1.4
					ER-WR	18.2	5.7	12.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	381	0.0	8.6	-8.6
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	28.2	-28.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2278	0.0	38.6	-38.6
4	400 kV	TALCHER-I/C	2	653	900	2.4	0.0	2.4
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	195	134	1.3	0.0	1.3
2	400 kV	ALIPURDUAR-BONGAIGAON	2	327	175	2.3	0.0	2.3
3	220 kV	ALIPURDUAR-SALAKATI	2	59	41	0.4	0.0	0.4
					ER-NER	4.0	0.0	4.0
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	481	0	7.3	0.0	7.3
					NER-NR	7.3	0.0	7.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	47.8	-47.8
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	31.5	-31.5
4	765 kV	GWALIOR-AGRA	2	0	2715	0.0	44.0	-44.0
5	765 kV	PHAGI-GWALIOR	2	0	1726	0.0	24.2	-24.2
6	765 kV	JABALPUR-ORAI	2	0	1244	0.0	38.3	-38.3
7	765 kV	GWALIOR-ORAI	1	980	0	16.7	0.0	16.7
8	765 kV	SATNA-ORAI	1	0	1470	0.0	28.0	-28.0
9	765 kV	CHITORGARH-BANASKANTHA	2	364	542	0.0	2.2	-2.2
10	400 kV	ZERDA-KANKROLI	1	132	151	0.4	0.0	0.4
11	400 kV	ZERDA -BHINMAL	1	176	285	0.0	1.0	-1.0
12	400 kV	VINDHYACHAL -RIHAND	1	495	0	11.3	0.0	11.3
13	400 kV	RAPP-SHUJALPUR	2	87	575	0.0	6.2	-6.2
14	220 kV	BHANPURA-RANPUR	1	16	202	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.9	-0.7
16	220 kV	MEHGAON-AURAIYA	1	113	0	0.6	0.0	0.5
17	220 kV	MALANPUR-AURAIYA	1	67	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	36.7	226.1	-189.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	591	515	0.0	3.0	-3.0
2	HVDC	RAIGARH-PUGALUR	2	957	496	0.0	1.4	-1.4
3	765 kV	SOLAPUR-RAICHUR	2	1459	1889	0.0	8.4	-8.4
4	765 kV	WARDHA-NIZAMABAD	2	0	2709	0.0	34.0	-34.0
5	400 kV	KOLHAPUR-KUDGI	2	1604	0	24.1	0.0	24.1
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	46	0.8	0.0	0.8
					WR-SR	25.0	46.8	-21.8

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)	119	0	111	2.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	109	0	98	2.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	28	3	12	0.3
	NER	132kV Motanga-Rangia	16	4	5	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-260	-220	-242	-6.3
	ER	132KV-BIHAR - NEPAL	-249	-17	-175	-4.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-888	-454	-703	-16.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-39	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-39	-0.9