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: 12th 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 11.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 11–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 11th 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:** **12-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)	49818	51819	39609	19093	2520	162859
Peak Shortage (MW)	760	142	0	0	43	945
Energy Met (MU)	977	1218	893	383	44	3515
Hydro Gen (MU)	105	44	62	31	11	253
Wind Gen (MU)	7	65	45	-	-	118
Solar Gen (MU)*	38.59	31.28	65.23	4.38	0.07	140
Energy Shortage (MU)	12.89	1.50	0.00	0.00	0.64	15.03
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52445	59038	45339	19095	2550	174639
Time Of Maximum Demand Met (From NLDC SCADA)	09:47	10:40	09:32	19:04	17:33	09:46

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	0.03	4.49	4.53	75.22	20.25

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	6485	0	120.6	59.3	-1.3	129	0.00
	Haryana	6261	0	120.8	90.1	0.9	297	0.00
	Rajasthan	13063	0	241.7	86.1	1.0	293	0.00
	Delhi	4541	0	74.6	62.8	0.1	236	0.00
	UP	16460	0	286.4	76.2	-0.8	314	0.34
	Uttarakhand	2231	0	41.2	25.5	2.0	303	0.15
	HP	1852	0	32.8	26.1	0.6	568	0.00
	J&K(UT) & Ladakh(UT)	2824	600	54.5	48.3	0.5	411	12.40
	Chandigarh	263	0	4.2	4.0	0.2	65	0.00
WR	Chhattisgarh	3832	75	84.6	47.4	-1.0	530	1.50
	Gujarat	17049	0	350.8	111.3	1.5	545	0.00
	MP	14017	0	269.9	160.9	-2.5	382	0.00
	Maharashtra	22548	0	458.8	157.5	-2.7	845	0.00
	Goa	496	0	10.6	10.0	0.1	124	0.00
	DD	332	0	7.2	7.0	0.2	155	0.00
	DNH	852	0	19.6	19.6	0.0	315	0.00
	AMNSIL	817	0	16.5	12.1	-0.2	440	0.00
SR	Andhra Pradesh	8428	0	169.2	66.2	1.5	624	0.00
	Telangana	11682	0	216.0	96.2	0.3	698	0.00
	Karnataka	9645	0	179.4	67.7	-0.5	651	0.00
	Kerala	3523	0	69.7	50.7	0.3	292	0.00
	Tamil Nadu	12391	0	251.9	167.3	-1.0	486	0.00
	Puducherry	351	0	7.1	7.4	-0.3	38	0.00
ER	Bihar	4705	0	83.5	78.7	-1.4	327	0.00
	DVC	3128	0	64.2	-42.1	0.6	398	0.00
	Jharkhand	1341	105	24.7	18.7	-2.5	75	0.00
	Odisha	4254	0	84.6	14.1	-0.3	240	0.00
	West Bengal	6548	0	123.7	15.1	0.5	413	0.00
	Sikkim	141	0	2.2	1.9	0.3	40	0.00
NER	Arunachal Pradesh	145	2	2.4	2.3	0.0	56	0.01
	Assam	1413	12	24.0	18.7	0.3	102	0.60
	Manipur	228	2	2.8	3.2	-0.4	26	0.01
	Meghalaya	382	4	6.9	5.1	-0.1	22	0.00
	Mizoram	117	2	1.6	1.4	-0.3	19	0.01
	Nagaland	136	2	2.5	2.0	0.3	20	0.01
	Tripura	221	1	3.9	2.5	-0.1	18	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.1	-12.1	-17.4
Day Peak (MW)	259.0	-664.8	-947.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	243.0	-236.2	95.2	-101.6	-0.5	0.0
Actual(MU)	231.0	-231.8	90.3	-97.5	0.5	-7.5
O/D/U/D(MU)	-12.0	4.3	-4.9	4.1	1.0	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6310	13323	6702	2495	734	29563
State Sector	12054	17083	10927	5652	11	45726
Total	18364	30405	17629	8147	745	75290

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	524	1276	498	481	7	2786
Lignite	22	9	28	0	0	60
Hydro	105	44	62	31	11	253
Nuclear	18	21	64	0	0	104
Gas, Naptha & Diesel	20	31	11	0	31	92
RES (Wind, Solar, Biomass & Others)	76	97	148	4	0	325
Total	765	1478	811	517	48	3619
Share of RES in total generation (%)	9.92	6.59	18.20	0.86	0.14	8.99
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.04	10.97	33.80	6.86	22.47	18.84

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.046

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: 12-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	116	895	0.0	11.1	-11.1
4	765 kV	SASARAM-FATEHPUR	1	96	307	0.0	3.0	-3.0
5	765 kV	GAYA-BALIA	1	0	495	0.0	7.3	-7.3
6	400 kV	PUSAULI-VARANASI	1	0	246	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	109	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	25	689	0.0	6.5	-6.5
9	400 kV	PATNA-BALIA	4	0	1065	0.0	14.6	-14.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	421	0.0	4.7	-4.7
11	400 kV	MOTIHARI-GORAKHPUR	2	0	363	0.0	5.3	-5.3
12	400 kV	BIHARSHARIFF-VARANASI	2	176	271	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	86	49	0.5	0.0	0.5
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	0.8	65.3	-64.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	913	205	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	683	491	5.9	0.0	5.9
3	765 kV	JHARSUGUDA-DURG	2	52	251	0.0	2.3	-2.3
4	400 kV	JHARSUGUDA-RAIGARH	4	146	330	0.0	2.4	-2.4
5	400 kV	RANCHI-SIPAT	2	260	155	2.0	0.0	2.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	126	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	105	28	0.9	0.0	0.9
					ER-WR	15.5	6.6	8.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	429	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1645	0.0	33.2	-33.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2687	0.0	46.6	-46.6
4	400 kV	TALCHER-I/C	2	725	654	3.5	0.0	3.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	89.7	-89.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	226	103	1.7	0.0	1.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	382	122	2.9	0.0	2.9
3	220 kV	ALIPURDUAR-SALAKATI	2	65	34	0.3	0.0	0.3
					ER-NER	4.9	0.0	4.9
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	462	0	6.0	0.0	6.0
					NER-NR	6.0	0.0	6.0
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1002	0.0	34.6	-34.6
2	HVDC	VINDHYACHAL B/B	-	190	57	2.8	0.5	2.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1647	0.0	39.4	-39.4
4	765 kV	GWALIOR-AGRA	2	0	2697	0.0	40.5	-40.5
5	765 kV	PHAGI-GWALIOR	2	0	1489	0.0	21.7	-21.7
6	765 kV	JABALPUR-ORAI	2	0	1187	0.0	34.0	-34.0
7	765 kV	GWALIOR-ORAI	1	793	0	14.2	0.0	14.2
8	765 kV	SATNA-ORAI	1	0	1468	0.0	27.2	-27.2
9	765 kV	CHITORGARH-BANASKANTHA	2	440	995	0.0	4.7	-4.7
10	400 kV	ZERDA-KANKROLI	1	149	151	0.7	0.0	0.7
11	400 kV	ZERDA -BHINMAL	1	141	432	0.0	3.6	-3.6
12	400 kV	VINDHYACHAL -RIHAND	1	485	0	11.0	0.0	11.0
13	400 kV	RAPP-SHUJALPUR	2	196	610	0.5	4.7	-4.2
14	220 kV	BHANPURA-RANPUR	1	6	174	0.0	2.0	-2.0
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	1.2	-1.0
16	220 kV	MEHGAON-AURAIYA	1	126	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	78	6	1.6	0.0	1.6
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	31.6	213.9	-182.3
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	316	0.0	7.5	-7.5
2	HVDC	RAIGARH-PUGALUR	2	675	997	0.0	5.9	-5.9
3	765 kV	SOLAPUR-RAICHUR	2	406	1325	0.0	15.7	-15.7
4	765 kV	WARDHA-NIZAMABAD	2	0	2349	0.0	34.9	-34.9
5	400 kV	KOLHAPUR-KUDGI	2	1404	0	22.6	0.0	22.6
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	0.9	0.0	0.9
					WR-SR	23.5	63.9	-40.4

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	112	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	104	0	90	2.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	7	0	-33	-0.8
	NER	132KV-GEYLEGPHU - SALAKATI	24	6	12	0.3
	NER	132kV Motanga-Rangia	5	-4	0	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-85	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-302	-110	-254	-6.1
	ER	132KV-BIHAR - NEPAL	-278	-19	-180	-4.3
	ER	BHERAMARA HVDC(BANGLADESH)	-840	-456	-638	-15.3
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-44	-1.1