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: 13th 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 12.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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:** **13-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)	50414	52670	39878	17836	2568	163366
Peak Shortage (MW)	1078	46	0	0	26	1150
Energy Met (MU)	1004	1238	901	387	44	3573
Hydro Gen (MU)	104	46	60	32	11	253
Wind Gen (MU)	3	68	71	-	-	142
Solar Gen (MU)*	40.84	33.53	73.02	4.40	0.06	152
Energy Shortage (MU)	13.66	0.20	0.00	0.00	0.54	14.40
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52924	59481	46100	18347	2627	177501
Time Of Maximum Demand Met (From NLDC SCADA)	10:25	10:42	09:22	20:05	17:55	09:45

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	0.034	0.00	0.44	5.56	6.00	78.38	15.62

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	6449	0	122.7	62.0	-1.3	71	0.00
	Haryana	6524	148	126.8	93.5	1.3	213	0.05
	Rajasthan	13495	0	247.8	92.6	1.3	473	0.00
	Delhi	4628	0	76.0	66.5	-0.2	201	0.00
	UP	16703	0	294.5	80.3	-0.3	430	1.08
	Uttarakhand	2275	0	41.9	25.2	1.4	280	0.13
	HP	1886	0	33.9	27.3	0.4	354	0.00
	J&K(UT) & Ladakh(UT)	2747	600	55.6	49.3	0.4	268	12.40
	Chandigarh	266	0	4.5	4.3	0.2	49	0.00
WR	Chhattisgarh	4163	0	90.4	45.6	0.9	407	0.20
	Gujarat	16970	0	352.6	99.9	2.0	558	0.00
	MP	13923	0	270.2	156.6	-3.4	368	0.00
	Maharashtra	22653	0	469.1	160.9	-1.1	599	0.00
	Goa	598	0	10.8	10.3	0.0	46	0.00
	DD	350	0	7.6	7.3	0.3	160	0.00
	DNH	845	0	19.7	19.7	0.0	298	0.00
	AMNSIL	851	0	17.3	12.2	-0.1	216	0.00
SR	Andhra Pradesh	8578	0	170.8	60.1	0.3	856	0.00
	Telangana	11727	0	218.6	103.9	0.0	801	0.00
	Karnataka	9668	0	185.1	65.2	-1.6	597	0.00
	Kerala	3421	0	68.9	51.5	-0.1	259	0.00
	Tamil Nadu	12073	0	250.3	164.3	-1.4	526	0.00
	Puducherry	337	0	7.0	7.4	-0.4	16	0.00
ER	Bihar	4684	0	83.2	78.7	-1.4	317	0.00
	DVC	3178	0	68.6	-44.4	2.6	285	0.00
	Jharkhand	1425	0	25.6	20.7	-2.4	123	0.00
	Odisha	4204	0	81.1	6.9	-0.3	359	0.00
	West Bengal	6493	0	125.9	15.8	-0.1	537	0.00
	Sikkim	147	0	2.4	2.0	0.4	34	0.00
NER	Arunachal Pradesh	142	2	2.3	2.6	-0.4	21	0.01
	Assam	1448	10	24.7	19.5	0.2	135	0.50
	Manipur	233	2	2.9	3.2	-0.3	46	0.01
	Meghalaya	408	3	6.9	5.0	-0.1	23	0.00
	Mizoram	121	2	1.6	1.6	-0.4	13	0.01
	Nagaland	127	2	2.5	2.0	0.4	12	0.01
	Tripura	220	1	3.9	2.4	-0.1	31	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.7	-12.4	-17.9
Day Peak (MW)	211.0	-630.6	-949.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	261.8	-244.7	87.2	-105.2	0.9	0.0
Actual(MU)	260.1	-241.8	72.8	-98.9	1.5	-6.4
O/D/U/D(MU)	-1.7	2.9	-14.5	6.3	0.7	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6310	13573	6202	3750	599	30433
State Sector	12634	15340	10947	5612	11	44544
Total	18944	28913	17149	9362	610	74977

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	527	1291	494	490	7	2810
Lignite	22	10	30	0	0	62
Hydro	104	46	60	32	11	253
Nuclear	19	21	64	0	0	104
Gas, Naptha & Diesel	20	29	9	0	31	88
RES (Wind, Solar, Biomass & Others)	74	103	181	4	0	362
Total	766	1500	838	526	48	3678
Share of RES in total generation (%)	9.68	6.83	21.55	0.84	0.13	9.83
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.73	11.30	36.42	6.85	22.07	19.53

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.011
Based on State Max Demands	1.036

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: 13-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	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	938	0.0	12.6	-12.6
4	765 kV	SASARAM-FATEHPUR	1	44	311	0.0	2.7	-2.7
5	765 kV	GAYA-BALIA	1	0	593	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	216	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	107	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	713	0.0	8.4	-8.4
9	400 kV	PATNA-BALIA	4	0	1125	0.0	17.5	-17.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	453	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	360	0.0	4.3	-4.3
12	400 kV	BIHARSHARIFF-VARANASI	2	86	274	0.0	1.7	-1.7
13	220 kV	PUSAULI-SAHUPURI	1	55	60	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	0.4	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	0.7	73.7	-73.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	554	242	3.5	0.0	3.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1023	156	9.2	0.0	9.2
3	765 kV	JHARSUGUDA-DURG	2	90	182	0.0	1.8	-1.8
4	400 kV	JHARSUGUDA-RAIGARH	4	60	260	0.0	3.5	-3.5
5	400 kV	RANCHI-SIPAT	2	339	54	3.0	0.0	3.0
6	220 kV	BUDHIPADAR-RAIGARH	1	0	128	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	109	4	1.3	0.0	1.3
					ER-WR	16.9	7.0	9.9
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	429	0.0	9.9	-9.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1976	0.0	37.0	-37.0
3	765 kV	ANGUL-SRIKAKULAM	2	0	2595	0.0	42.7	-42.7
4	400 kV	TALCHER-I/C	2	719	637	3.7	0.0	3.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	89.6	-89.6
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	257	191	2.1	0.0	2.1
2	400 kV	ALIPURDUAR-BONGAIGAON	2	433	254	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	72	52	0.6	0.0	0.6
					ER-NER	6.3	0.0	6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	465	0	8.8	0.0	8.8
					NER-NR	8.8	0.0	8.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1356	0.0	39.1	-39.1
2	HVDC	VINDHYACHAL B/B	-	192	0	4.9	0.0	4.9
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1741	0.0	38.3	-38.3
4	765 kV	GWALIOR-AGRA	2	0	2985	0.0	45.5	-45.5
5	765 kV	PHAGI-GWALIOR	2	0	1646	0.0	24.7	-24.7
6	765 kV	JABALPUR-ORAI	2	0	1360	0.0	39.9	-39.9
7	765 kV	GWALIOR-ORAI	1	799	0	15.2	0.0	15.2
8	765 kV	SATNA-ORAI	1	0	1558	0.0	28.2	-28.2
9	765 kV	CHITORGARH-BANASKANTHA	2	360	928	0.0	8.1	-8.1
10	400 kV	ZERDA-KANKROLI	1	121	140	0.0	0.2	-0.2
11	400 kV	ZERDA -BHINMAL	1	0	402	0.0	5.1	-5.1
12	400 kV	VINDHYACHAL -RIHAND	1	494	0	11.4	0.0	11.4
13	400 kV	RAPP-SHUJALPUR	2	57	679	0.0	6.4	-6.4
14	220 kV	BHANPURA-RANPUR	1	0	172	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	123	0	0.5	0.1	0.5
17	220 kV	MALANPUR-AURAIYA	1	78	28	1.3	0.0	1.3
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	33.3	239.0	-205.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	813	0.0	10.2	-10.2
2	HVDC	RAIGARH-PUGALUR	2	958	997	0.0	1.6	-1.6
3	765 kV	SOLAPUR-RAICHUR	2	1400	1367	0.0	8.1	-8.1
4	765 kV	WARDHA-NIZAMABAD	2	0	2283	0.0	33.5	-33.5
5	400 kV	KOLHAPUR-KUDGI	2	1752	0	25.8	0.0	25.8
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	0.7	0.0	0.7
					WR-SR	26.6	53.4	-26.9

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)	118	0	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	122	0	95	2.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-24	-11	15	0.4
	NER	132kV Motanga-Rangia	-9	0	4	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-84	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-272	-211	-270	-6.5
	ER	132KV-BIHAR - NEPAL	-275	-15	-173	-4.2
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-839	-455	-658	-15.8
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-43	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	55	0	-43	-1.0