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: 11th 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 10.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 10-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 10th 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:** **11-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)	46084	49639	36779	17540	2425	152467
Peak Shortage (MW)	780	0	0	0	48	828
Energy Met (MU)	923	1179	848	363	43	3356
Hydro Gen (MU)	102	40	52	32	12	237
Wind Gen (MU)	20	72	34	-	-	126
Solar Gen (MU)*	35.71	23.64	80.38	4.50	0.10	144
Energy Shortage (MU)	12.40	0.00	0.00	0.00	0.54	12.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	48916	56867	40090	18078	2478	162343
Time Of Maximum Demand Met (From NLDC SCADA)	09:51	10:51	08:18	18:58	18:14	09:54

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	0.028	0.00	0.00	4.75	4.75	80.36	14.90

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	6098	0	114.1	57.3	-1.4	74	0.00
	Haryana	5566	0	109.6	82.2	0.5	235	0.00
	Rajasthan	12480	0	230.2	77.4	-0.6	358	0.00
	Delhi	4184	0	67.9	57.2	-1.3	195	0.00
	UP	15483	0	274.3	74.6	-1.4	515	0.00
	Uttarakhand	2072	0	38.0	20.6	0.4	238	0.00
	HP	1692	0	30.8	25.5	-0.1	92	0.00
	J&K(UT) & Ladakh(UT)	2713	600	54.3	48.3	0.4	306	12.40
	Chandigarh	216	0	3.8	3.6	0.2	48	0.00
WR	Chhattisgarh	4108	0	89.6	41.6	-0.2	261	0.00
	Gujarat	16652	0	338.5	110.8	1.8	630	0.00
	MP	13211	0	259.7	155.3	-1.5	583	0.00
	Maharashtra	20848	0	435.5	157.1	-3.7	701	0.00
	Goa	472	0	11.3	10.7	0.1	30	0.00
	DD	301	0	6.9	6.9	0.0	17	0.00
	DNH	819	0	19.2	19.4	-0.2	34	0.00
	AMNSIL	829	0	18.6	10.9	0.2	266	0.00
SR	Andhra Pradesh	8296	0	163.0	68.2	0.1	559	0.00
	Telangana	11308	0	211.1	93.0	0.4	893	0.00
	Karnataka	8686	0	165.3	63.9	-1.8	517	0.00
	Kerala	3207	0	63.7	48.9	0.2	329	0.00
	Tamil Nadu	11473	0	238.7	154.1	-0.4	378	0.00
	Puducherry	318	0	6.5	6.8	-0.3	19	0.00
ER	Bihar	4622	0	83.6	78.2	1.3	477	0.00
	DVC	3027	0	64.2	-37.3	1.0	400	0.00
	Jharkhand	1454	0	26.0	19.4	-1.9	164	0.00
	Odisha	4025	0	70.0	11.4	-4.1	540	0.00
	West Bengal	6168	0	117.4	10.8	0.3	490	0.00
	Sikkim	126	0	1.8	1.7	0.1	40	0.00
NER	Arunachal Pradesh	136	1	2.2	2.5	-0.4	27	0.01
	Assam	1352	18	23.2	18.1	0.0	89	0.50
	Manipur	222	2	2.9	3.3	-0.4	15	0.01
	Meghalaya	358	0	6.9	5.2	-0.1	22	0.00
	Mizoram	105	1	1.7	1.4	-0.1	19	0.01
	Nagaland	124	1	2.2	2.0	0.0	21	0.01
	Tripura	213	0	3.4	2.5	-0.5	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.3	-12.1	-17.0
Day Peak (MW)	245.0	-623.0	-850.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	218.0	-217.4	95.2	-95.4	-0.5	0.0
Actual(MU)	211.6	-220.1	89.4	-87.6	-1.0	-7.6
O/D/U/D(MU)	-6.4	-2.7	-5.8	7.8	-0.5	-7.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6049	13263	6852	3020	699	29882
State Sector	12574	17628	10939	6212	11	47363
Total	18623	30890	17791	9232	710	77245

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	482	1227	460	452	7	2628
Lignite	23	8	28	0	0	58
Hydro	102	40	52	32	12	237
Nuclear	18	21	64	0	0	104
Gas, Naptha & Diesel	23	24	12	0	30	89
RES (Wind, Solar, Biomass & Others)	85	96	152	5	0	339
Total	734	1416	768	488	49	3455
Share of RES in total generation (%)	11.65	6.81	19.79	0.93	0.21	9.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	28.07	11.11	34.93	7.45	24.14	19.68

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
Based on State Max Demands	1.065

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: 11-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	251	0.0	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	0	875	0.0	9.5	-9.5
4	765 kV	SASARAM-FATEHPUR	1	46	209	0.0	1.4	-1.4
5	765 kV	GAYA-BALIA	1	0	441	0.0	6.8	-6.8
6	400 kV	PUSAULI-VARANASI	1	0	229	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	85	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	744	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	4	0	979	0.0	14.0	-14.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	335	0.0	4.0	-4.0
11	400 kV	MOTIHARI-GORAKHPUR	2	0	344	0.0	4.9	-4.9
12	400 kV	BIHARSHARIFF-VARANASI	2	111	245	0.0	0.1	-0.1
13	220 kV	PUSAULI-SAHUPURI	1	96	37	0.9	0.0	0.9
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	1.3	58.5	-57.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	739	14	6.7	0.0	6.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	701	126	7.4	0.0	7.4
3	765 kV	JHARSUGUDA-DURG	2	24	229	0.0	2.4	-2.4
4	400 kV	JHARSUGUDA-RAIGARH	4	127	323	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	263	40	3.1	0.0	3.1
6	220 kV	BUDHIPADAR-RAIGARH	1	14	119	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	120	6	1.4	0.0	1.4
					ER-WR	18.5	6.7	11.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	430	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1640	0.0	35.8	-35.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	2635	0.0	45.6	-45.6
4	400 kV	TALCHER-I/C	2	679	876	0.0	0.8	-0.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	91.4	-91.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	256	61	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	423	72	4.8	0.0	4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	71	17	0.8	0.0	0.8
					ER-NER	8.6	0.0	8.6
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	8.1	0.0	8.1
					NER-NR	8.1	0.0	8.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1807	0.0	29.5	-29.5
2	HVDC	VINDHYACHAL B/B	-	239	57	1.2	0.0	1.2
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1922	0.0	37.0	-37.0
4	765 kV	GWALIOR-AGRA	2	0	2393	0.0	40.0	-40.0
5	765 kV	PHAGI-GWALIOR	2	0	1496	0.0	22.7	-22.7
6	765 kV	JABALPUR-ORAI	2	0	1094	0.0	33.7	-33.7
7	765 kV	GWALIOR-ORAI	1	790	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1377	0.0	25.8	-25.8
9	765 kV	CHITORGARH-BANASKANTHA	2	613	832	0.0	6.1	-6.1
10	400 kV	ZERDA-KANKROLI	1	185	89	0.9	0.0	0.9
11	400 kV	ZERDA -BHINMAL	1	153	239	0.0	1.3	-1.3
12	400 kV	VINDHYACHAL -RIHAND	1	486	0	11.4	0.0	11.4
13	400 kV	RAPP-SHUJALPUR	2	74	564	0.0	4.2	-4.2
14	220 kV	BHANPURA-RANPUR	1	0	144	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.2	-1.2
16	220 kV	MEHGAON-AURAIYA	1	128	0	0.8	0.0	0.8
17	220 kV	MALANPUR-AURAIYA	1	78	3	1.7	0.0	1.7
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	31.1	203.6	-172.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	8.4	-8.4
2	HVDC	RAIGARH-PUGALUR	2	957	498	0.0	4.6	-4.6
3	765 kV	SOLAPUR-RAICHUR	2	906	1771	0.0	13.2	-13.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2380	0.0	31.1	-31.1
5	400 kV	KOLHAPUR-KUDGI	2	1494	0	21.5	0.0	21.5
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	1	41	0.2	0.0	0.2
					WR-SR	21.7	57.3	-35.6

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)	125	113	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	107	0	98	2.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	6	0	-4	-0.1
	NER	132KV-GEYLEGPHU - SALAKATI	-22	-7	-12	-0.3
	NER	132kV Motanga-Rangia	-6	0	-1	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-75	0	-65	-1.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-282	-210	-281	-6.7
	ER	132KV-BIHAR - NEPAL	-266	-23	-157	-3.8
	ER	BHERAMARA HVDC(BANGLADESH)	-747	-437	-618	-14.8
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-45	-1.1