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: 16th 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 15.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 15-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 15th 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: 16-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)	51350	50427	35576	18665	2500	158518
Peak Shortage (MW)	650	48	0	175	28	901
Energy Met (MU)	1017	1188	839	375	42	3462
Hydro Gen (MU)	101	47	78	32	10	268
Wind Gen (MU)	16	33	38	-	-	87
Solar Gen (MU)*	35.66	32.82	90.08	4.45	0.07	163
Energy Shortage (MU)	12.99	0.60	0.00	0.53	0.64	14.76
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	53946	57995	41816	19073	2528	171867
Time Of Maximum Demand Met (From NLDC SCADA)	09:58	09:54	09:15	18:37	17:43	09:52

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	0.01	4.07	4.09	75.98	19.93

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	6551	0	124.3	61.4	-0.5	116	0.00
	Haryana	6647	50	128.8	90.8	1.0	196	0.38
	Rajasthan	13655	0	251.2	75.4	-0.8	336	0.00
	Delhi	4736	0	77.2	65.9	-1.5	283	0.00
	UP	17077	0	300.6	90.5	-0.2	656	0.21
	Uttarakhand	2266	0	41.6	24.6	0.4	183	0.00
	HP	1800	0	32.7	27.2	-0.4	238	0.00
	J&K(UT) & Ladakh(UT)	2786	600	56.0	50.1	0.5	297	12.40
	Chandigarh	263	0	4.3	4.2	0.1	37	0.00
WR	Chhattisgarh	4256	36	92.0	44.2	1.4	272	0.50
	Gujarat	14896	0	303.1	89.9	-2.1	512	0.00
	MP	14479	0	274.0	158.0	-1.5	1075	0.00
	Maharashtra	22766	0	464.8	158.1	-3.4	760	0.00
	Goa	477	0	10.4	9.9	-0.1	55	0.10
	DD	338	0	7.3	7.0	0.3	32	0.00
	DNH	798	0	18.1	18.4	-0.3	202	0.00
	AMNSIL	833	0	18.7	12.0	-0.2	379	0.00
SR	Andhra Pradesh	8150	0	158.0	49.1	-0.1	375	0.00
	Telangana	11678	0	213.5	92.8	0.0	772	0.00
	Karnataka	11269	0	202.6	76.3	0.2	598	0.00
	Kerala	3619	0	71.2	47.3	0.3	253	0.00
	Tamil Nadu	9234	0	188.5	128.8	-1.5	438	0.00
	Puducherry	275	0	5.7	6.2	-0.5	34	0.00
ER	Bihar	4963	0	86.9	80.5	0.8	561	0.00
	DVC	3144	0	68.2	-42.8	-0.2	233	0.00
	Jharkhand	1423	0	25.2	19.0	-2.1	254	0.53
	Odisha	3693	0	73.7	6.5	0.9	350	0.00
	West Bengal	6334	0	119.8	13.4	0.8	605	0.00
	Sikkim	135	0	1.4	1.9	-0.5	45	0.00
NER	Arunachal Pradesh	147	2	2.3	2.4	-0.3	26	0.01
	Assam	1354	15	21.9	17.3	0.4	115	0.60
	Manipur	238	3	2.9	3.3	-0.4	57	0.01
	Meghalaya	372	0	6.8	4.9	-0.1	83	0.00
	Mizoram	124	1	1.6	1.6	-0.4	24	0.01
	Nagaland	130	2	2.3	2.0	0.1	24	0.01
	Tripura	215	2	3.8	2.2	-0.1	10	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	5.1	-11.2	-14.0
Day Peak (MW)	295.0	-618.7	-841.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	255.8	-241.4	69.1	-82.0	-1.5	0.0
Actual(MU)	254.8	-251.7	61.3	-74.1	-1.3	-11.0
O/D/U/D(MU)	-1.0	-10.3	-7.8	7.8	0.2	-11.0

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6629	13803	8062	4280	599	33372	44
State Sector	11529	15210	11577	4662	11	42989	56
Total	18158	29013	19639	8942	610	76361	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	540	1284	439	442	7	2712	76
Lignite	23	11	30	0	0	64	2
Hydro	101	47	78	33	10	269	8
Nuclear	18	21	64	0	0	104	3
Gas, Naptha & Diesel	23	23	12	0	30	89	2
RES (Wind, Solar, Biomass & Others)	80	67	164	4	0	315	9
Total	785	1454	787	479	48	3552	100

Share of RES in total generation (%)	10.18	4.58	20.82	0.93	0.15	8.86
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.33	9.25	38.90	7.73	22.12	19.34

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.020
Based on State Max Demands	1.054

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: 16-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	276	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	1	249	0.0	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	835	0.0	11.2	-11.2
4	765 kV	SASARAM-FATEHPUR	1	23	337	0.0	3.8	-3.8
5	765 kV	GAYA-BALIA	1	0	607	0.0	9.6	-9.6
6	400 kV	PUSAULI-VARANASI	1	0	255	0.0	5.3	-5.3
7	400 kV	PUSAULI -ALLAHABAD	1	69	83	0.0	0.6	-0.6
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	20	579	0.0	7.8	-7.8
9	400 kV	PATNA-BALIA	4	0	1299	0.0	20.0	-20.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	565	0.0	4.8	-4.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	633	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	84	242	0.0	1.4	-1.4
13	220 kV	PUSAULI-SAHUPURI	1	36	73	0.0	0.3	-0.3
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	157	0.3	0.0	0.3
16	132 kV	KARMANASA-SAHUPURI	1	22	0	0.0	0.0	0.0
17	132 kV	KARMANASA-CHANDAULI	1	26	0	0.0	0.0	0.0
					ER-NR	0.3	76.6	-76.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1111	0	15.5	0.0	15.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	836	1151	12.0	0.0	12.0
3	765 kV	JHARSUGUDA-DURG	2	137	72	0.7	0.0	0.7
4	400 kV	JHARSUGUDA-RAIGARH	4	711	253	0.4	0.0	0.4
5	400 kV	RANCHI-SIPAT	2	356	0	4.8	0.0	4.8
6	220 kV	BUDHIPADAR-RAIGARH	1	23	86	0.0	0.8	-0.8
7	220 kV	BUDHIPADAR-KORBA	2	153	0	1.9	0.0	1.9
					ER-WR	35.2	0.8	34.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	10.0	-10.0
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	39.6	-39.6
3	765 kV	ANGUL-SRIKAKULAM	2	114	2032	0.0	29.8	-29.8
4	400 kV	TALCHER-I/C	2	0	894	0.0	9.3	-9.3
5	220 kV	BALIMELA-UPPER-SILERRU	1	122	0	0.0	0.0	0.0
					ER-SR	0.0	79.4	-79.4
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	297	66	3.6	0.0	3.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	491	3	5.6	0.0	5.6
3	220 kV	ALIPURDUAR-SALAKATI	2	118	21	1.0	0.0	1.0
					ER-NER	10.2	0.0	10.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	468	0	9.3	0.0	9.3
					NER-NR	9.3	0.0	9.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1754	0.0	46.3	-46.3
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1923	0.0	42.8	-42.8
4	765 kV	GWALIOR-AGRA	2	0	2750	0.0	47.1	-47.1
5	765 kV	PHAGI-GWALIOR	2	0	1537	0.0	21.3	-21.3
6	765 kV	JABALPUR-ORAI	2	0	1173	0.0	38.1	-38.1
7	765 kV	GWALIOR-ORAI	1	829	0	14.4	0.0	14.4
8	765 kV	SATNA-ORAI	1	0	1456	0.0	29.0	-29.0
9	765 kV	CHITORGARH-BANASKANTHA	2	578	496	0.5	0.0	0.5
10	400 kV	ZERDA-KANKROLI	1	181	97	1.2	0.0	1.2
11	400 kV	ZERDA -BHINMAL	1	230	359	0.0	1.8	-1.8
12	400 kV	VINDHYACHAL -RIHAND	1	493	0	11.3	0.0	11.3
13	400 kV	RAPP-SHUJALPUR	2	103	621	0.1	6.0	-5.9
14	220 kV	BHANPURA-RANPUR	1	4	178	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	1.3	-1.2
16	220 kV	MEHGAON-AURAIYA	1	95	0	0.4	0.1	0.3
17	220 kV	MALANPUR-AURAIYA	1	52	19	1.2	0.0	1.2
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	35.3	235.8	-200.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	414	0.0	9.7	-9.7
2	HVDC	RAIGARH-PUGALUR	2	957	499	0.0	2.2	-2.2
3	765 kV	SOLAPUR-RAICHUR	2	1437	1585	0.0	3.6	-3.6
4	765 kV	WARDHA-NIZAMABAD	2	0	2283	0.0	25.7	-25.7
5	400 kV	KOLHAPUR-KUDGI	2	1562	0	24.9	0.0	24.9
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	79	0	1.9	0.0	1.9
					WR-SR	26.8	41.3	-14.4

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	0	110	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	124	0	114	2.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	9	0	-13	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	26	11	16	0.4
	NER	132kV Motanga-Rangia	16	1	6	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-66	-1.6
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-288	-224	-280	-6.7
	ER	132KV-BIHAR - NEPAL	-253	-1	-121	-2.9
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-742	-361	-505	-12.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	50	0	-39	-0.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	49	0	-39	-0.9