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: 17th 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 16.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 16-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 16th 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: 17-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)	49768	52292	36774	18440	2509	159783
Peak Shortage (MW)	1580	0	0	128	26	1734
Energy Met (MU)	1013	1238	866	387	44	3547
Hydro Gen (MU)	101	53	83	33	12	283
Wind Gen (MU)	18	35	34	-	-	88
Solar Gen (MU)*	36.08	31.69	86.56	4.33	0.06	159
Energy Shortage (MU)	13.84	0.03	0.00	0.38	0.34	14.59
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	52456	60030	44390	18652	2618	173964
Time Of Maximum Demand Met (From NLDC SCADA)	10:41	11:24	09:39	19:31	18:05	09:44

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	0.031	0.00	0.25	5.67	5.93	80.51	13.56

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	6172	0	121.9	59.0	-0.8	87	0.00
	Haryana	6658	0	130.8	91.8	0.8	238	0.00
	Rajasthan	13825	0	256.4	80.2	2.0	542	0.00
	Delhi	4456	0	72.5	62.4	-0.7	299	0.00
	UP	16765	140	295.1	82.3	0.0	455	1.44
	Uttarakhand	2278	0	41.3	23.7	1.3	163	0.00
	HP	1904	0	33.0	26.9	-0.1	167	0.00
	J&K(UT) & Ladakh(UT)	2758	600	57.3	50.6	0.8	261	12.40
	Chandigarh	255	0	4.3	4.0	0.3	38	0.00
WR	Chhattisgarh	4264	0	92.6	41.0	1.0	224	0.00
	Gujarat	16409	0	338.4	99.1	4.7	1122	0.00
	MP	14314	0	277.6	164.7	-0.7	573	0.00
	Maharashtra	23512	0	473.0	153.6	-3.4	532	0.00
	Goa	494	0	10.7	10.1	0.0	38	0.03
	DD	339	0	7.6	7.4	0.2	62	0.00
	DNH	832	0	19.1	19.2	-0.1	40	0.00
	AMNSIL	832	0	18.6	11.0	0.0	320	0.00
SR	Andhra Pradesh	8320	0	163.6	55.2	0.3	783	0.00
	Telangana	11568	0	217.0	94.7	0.4	652	0.00
	Karnataka	11388	0	208.5	77.9	0.0	603	0.00
	Kerala	3556	0	71.8	48.9	0.0	281	0.00
	Tamil Nadu	9973	0	200.0	136.1	-0.2	511	0.00
	Puducherry	287	0	5.7	5.9	-0.3	33	0.00
ER	Bihar	4980	0	90.8	83.9	0.4	365	0.00
	DVC	3199	0	67.5	-45.5	0.0	299	0.00
	Jharkhand	1421	128	25.5	19.2	-2.2	141	0.38
	Odisha	3757	0	72.9	7.1	-1.3	440	0.00
	West Bengal	6186	0	127.9	14.5	0.4	351	0.00
	Sikkim	124	0	2.1	2.0	0.0	25	0.00
NER	Arunachal Pradesh	137	2	2.3	2.6	-0.4	30	0.01
	Assam	1417	15	22.9	18.3	-0.4	107	0.30
	Manipur	243	3	3.2	3.4	-0.1	41	0.01
	Meghalaya	427	0	7.0	4.5	0.1	142	0.00
	Mizoram	124	1	1.9	1.6	0.0	35	0.01
	Nagaland	123	2	2.2	2.0	0.1	24	0.01
	Tripura	244	2	4.0	2.1	0.2	30	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.8	-11.2	-18.4
Day Peak (MW)	400.0	-593.2	-998.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	257.8	-231.2	72.1	-97.6	-1.1	0.0
Actual(MU)	259.4	-241.9	67.2	-91.9	-0.4	-7.5
O/D/U/D(MU)	1.6	-10.7	-4.8	5.8	0.7	-7.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	7665	13803	7702	2655	599	32423	43
State Sector	12074	14763	11577	4402	11	42826	57
Total	19739	28565	19279	7057	610	75249	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	536	1314	447	473	7	2778	77
Lignite	23	13	30	0	0	65	2
Hydro	101	53	83	33	12	283	8
Nuclear	13	21	64	0	0	99	3
Gas, Naptha & Diesel	22	28	13	0	29	92	3
RES (Wind, Solar, Biomass & Others)	81	68	157	4	0	311	9
Total	777	1497	795	511	49	3628	100

Share of RES in total generation (%)	10.44	4.55	19.79	0.85	0.12	8.57
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.19	9.52	38.33	7.33	25.10	19.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.055

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: 17-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	0	904	0.0	11.7	-11.7
4	765 kV	SASARAM-FATEHPUR	1	39	319	0.0	3.5	-3.5
5	765 kV	GAYA-BALIA	1	0	586	0.0	9.7	-9.7
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.6	-4.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	98	0.0	1.2	-1.2
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	831	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	4	0	1204	0.0	19.0	-19.0
10	400 kV	BIHARSHARIFF-BALIA	2	0	541	0.0	7.3	-7.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	358	0.0	6.3	-6.3
12	400 kV	BIHARSHARIFF-VARANASI	2	103	255	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	70	73	0.0	0.0	0.0
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	0.4	81.0	-80.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	899	268	6.4	0.0	6.4
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	951	17	10.0	0.0	10.0
3	765 kV	JHARSUGUDA-DURG	2	86	332	0.0	1.7	-1.7
4	400 kV	JHARSUGUDA-RAIGARH	4	204	297	0.0	2.0	-2.0
5	400 kV	RANCHI-SIPAT	2	345	0	3.6	0.0	3.6
6	220 kV	BUDHIPADAR-RAIGARH	1	3	118	0.0	1.5	-1.5
7	220 kV	BUDHIPADAR-KORBA	2	168	0	1.9	0.0	1.9
					ER-WR	21.9	5.1	16.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	435	0.0	9.3	-9.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1639	0.0	33.3	-33.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2021	0.0	34.4	-34.4
4	400 kV	TALCHER-I/C	2	366	892	0.0	1.7	-1.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	77.0	-77.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	262	78	3.9	0.0	3.9
2	400 kV	ALIPURDUAR-BONGAIGAON	2	441	83	6.5	0.0	6.5
3	220 kV	ALIPURDUAR-SALAKATI	2	74	24	1.0	0.0	1.0
					ER-NER	11.3	0.0	11.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	0	473	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1755	0.0	46.1	-46.1
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1923	0.0	42.1	-42.1
4	765 kV	GWALIOR-AGRA	2	0	2961	0.0	45.4	-45.4
5	765 kV	PHAGI-GWALIOR	2	0	1493	0.0	23.2	-23.2
6	765 kV	JABALPUR-ORAI	2	0	1297	0.0	38.1	-38.1
7	765 kV	GWALIOR-ORAI	1	836	0	15.1	0.0	15.1
8	765 kV	SATNA-ORAI	1	0	1545	0.0	28.2	-28.2
9	765 kV	CHITORGARH-BANASKANTHA	2	717	668	0.6	0.0	0.6
10	400 kV	ZERDA-KANKROLI	1	159	79	1.2	0.0	1.2
11	400 kV	ZERDA -BHINMAL	1	183	251	0.0	1.3	-1.3
12	400 kV	VINDHYACHAL -RIHAND	1	494	0	11.4	0.0	11.4
13	400 kV	RAPP-SHUJALPUR	2	18	683	0.0	7.0	-7.0
14	220 kV	BHANPURA-RANPUR	1	6	149	0.0	1.9	-1.9
15	220 kV	BHANPURA-MORAK	1	0	30	0.1	1.0	-0.8
16	220 kV	MEHGAON-AURAIYA	1	115	0	0.5	0.1	0.4
17	220 kV	MALANPUR-AURAIYA	1	69	29	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	36.2	234.2	-198.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	515	0.0	10.3	-10.3
2	HVDC	RAIGARH-PUGALUR	2	770	499	0.0	1.4	-1.4
3	765 kV	SOLAPUR-RAICHUR	2	955	1465	0.0	7.8	-7.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2304	0.0	29.5	-29.5
5	400 kV	KOLHAPUR-KUDGI	2	1508	0	23.8	0.0	23.8
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	0.8	0.0	0.8
					WR-SR	24.6	49.0	-24.3

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)	215	0	107	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	130	0	103	2.5
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	14	4	-11	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	28	0	18	0.4
	NER	132kV Motanga-Rangia	13	0	-12	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-78	0	-64	-1.5
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-272	-194	-265	-6.4
	ER	132KV-BIHAR - NEPAL	-243	-17	-138	-3.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-887	-443	-686	-16.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	55	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	56	0	-40	-1.0