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: 9th 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 08.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 08-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 8th 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:** **09-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)	48952	50710	39296	18396	2515	159869
Peak Shortage (MW)	610	0	0	0	33	643
Energy Met (MU)	959	1205	888	375	43	3471
Hydro Gen (MU)	106	44	62	33	11	256
Wind Gen (MU)	11	95	29	-	-	135
Solar Gen (MU)*	34.32	26.61	66.62	4.33	0.11	132
Energy Shortage (MU)	12.40	0.10	0.00	0.00	0.44	12.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50855	58698	44541	18565	2590	171146
Time Of Maximum Demand Met (From NLDC SCADA)	09:55	10:17	09:32	18:45	17:57	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	0.041	0.00	0.05	7.71	7.75	72.36	19.88

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	6282	0	117.7	56.7	-1.5	0	0.00
	Haryana	6278	0	120.3	81.7	1.4	270	0.00
	Rajasthan	12497	0	235.0	78.3	-1.2	295	0.00
	Delhi	4503	0	73.8	63.3	-0.2	219	0.00
	UP	15738	0	281.1	95.1	-2.8	477	0.00
	Uttarakhand	2277	0	40.8	22.6	0.3	151	0.00
	HP	1846	0	32.9	27.6	-0.5	230	0.00
	J&K(UT) & Ladakh(UT)	2905	600	54.0	46.7	1.6	602	12.40
	Chandigarh	241	0	3.8	3.8	0.0	30	0.00
WR	Chhattisgarh	4171	30	88.0	39.6	-0.2	324	0.10
	Gujarat	16698	0	344.3	93.8	1.8	867	0.00
	MP	14681	0	282.6	175.0	-2.0	400	0.00
	Maharashtra	21136	0	433.5	154.1	-1.9	806	0.00
	Goa	567	0	11.5	10.8	0.4	76	0.00
	DD	334	0	7.4	7.1	0.3	30	0.00
	DNH	837	0	19.5	19.4	0.1	46	0.00
	AMNSIL	826	0	18.6	10.7	0.7	266	0.00
SR	Andhra Pradesh	7881	0	162.6	52.5	-0.3	449	0.00
	Telangana	11180	0	208.0	90.4	0.8	580	0.00
	Karnataka	9820	0	180.6	75.0	-1.6	575	0.00
	Kerala	3519	0	70.1	51.8	0.2	239	0.00
	Tamil Nadu	12686	0	259.9	163.9	0.5	457	0.00
	Puducherry	360	0	7.3	7.6	-0.3	30	0.00
ER	Bihar	4457	0	84.2	79.0	-0.8	297	0.00
	DVC	3105	0	65.8	-33.4	0.2	237	0.00
	Jharkhand	1490	0	26.7	21.0	-2.3	98	0.00
	Odisha	4099	0	72.8	-3.1	-0.4	411	0.00
	West Bengal	6404	0	124.0	12.9	-0.3	470	0.00
	Sikkim	140	0	1.9	1.9	0.0	45	0.00
NER	Arunachal Pradesh	145	2	1.9	2.4	-0.6	34	0.01
	Assam	1439	20	24.3	19.5	0.4	114	0.40
	Manipur	226	2	2.8	3.2	-0.3	55	0.01
	Meghalaya	367	0	6.8	4.9	0.0	32	0.00
	Mizoram	113	1	1.6	1.4	-0.2	10	0.01
	Nagaland	127	2	2.0	2.0	-0.1	12	0.01
	Tripura	214	1	3.5	2.9	-0.5	16	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.4	-11.4	-13.8
Day Peak (MW)	283.0	-631.2	-825.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	247.1	-236.1	103.5	-116.1	1.6	0.0
Actual(MU)	226.5	-222.9	105.3	-119.2	1.2	-9.1
O/D/U/D(MU)	-20.6	13.2	1.8	-3.1	-0.4	-9.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6549	12453	7202	2285	699	29187
State Sector	11934	17319	10139	5532	11	44934
Total	18483	29771	17341	7817	710	74121

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	508	1565	486	477	7	3044
Lignite	19	8	33	0	0	60
Hydro	106	44	62	33	11	256
Nuclear	18	33	64	0	0	116
Gas, Naptha & Diesel	22	39	12	0	28	102
RES (Wind, Solar, Biomass & Others)	74	123	135	4	0	336
Total	748	1813	792	515	46	3914
Share of RES in total generation (%)	9.88	6.77	17.00	0.84	0.24	8.58
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.53	11.04	32.97	7.25	23.41	18.09

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.024
Based on State Max Demands	1.049

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: 09-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	910	0.0	11.6	-11.6
4	765 kV	SASARAM-FATEHPUR	1	52	330	0.0	3.2	-3.2
5	765 kV	GAYA-BALIA	1	0	542	0.0	8.6	-8.6
6	400 kV	PUSAULI-VARANASI	1	0	211	0.0	4.1	-4.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	117	0.0	1.8	-1.8
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	880	0.0	9.0	-9.0
9	400 kV	PATNA-BALIA	4	0	1214	0.0	20.4	-20.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	473	0.0	6.2	-6.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	361	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	39	327	0.0	2.6	-2.6
13	220 kV	PUSAULI-SAHUPURI	1	50	81	0.0	0.1	-0.1
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.3	0.0	0.3
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	0.3	78.9	-78.6
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	673	151	8.0	0.0	8.0
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	1067	109	9.4	0.0	9.4
3	765 kV	JHARSUGUDA-DURG	2	68	242	0.0	3.2	-3.2
4	400 kV	JHARSUGUDA-RAIGARH	4	112	491	0.0	5.7	-5.7
5	400 kV	RANCHI-SIPAT	2	360	67	2.9	0.0	2.9
6	220 kV	BUDHIPADAR-RAIGARH	1	44	155	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	76	52	0.3	0.0	0.3
					ER-WR	20.5	10.6	9.9
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	1987	0.0	38.9	-38.9
3	765 kV	ANGUL-SRIKAKULAM	2	0	2716	0.0	47.2	-47.2
4	400 kV	TALCHER-I/C	2	439	900	0.0	8.5	-8.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	96.1	-96.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	233	158	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	393	201	5.0	0.0	5.0
3	220 kV	ALIPURDUAR-SALAKATI	2	68	44	0.7	0.0	0.7
					ER-NER	8.7	0.0	8.7
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	472	0	10.5	0.0	10.5
					NER-NR	10.5	0.0	10.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1503	0.0	34.5	-34.5
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1365	0.0	33.9	-33.9
4	765 kV	GWALIOR-AGRA	2	0	2669	0.0	43.6	-43.6
5	765 kV	PHAGI-GWALIOR	2	0	1323	0.0	17.9	-17.9
6	765 kV	JABALPUR-ORAI	2	0	1135	0.0	35.6	-35.6
7	765 kV	GWALIOR-ORAI	1	794	0	13.3	0.0	13.3
8	765 kV	SATNA-ORAI	1	0	1482	0.0	28.1	-28.1
9	765 kV	CHITORGARH-BANASKANTHA	2	152	1056	0.0	8.5	-8.5
10	400 kV	ZERDA-KANKROLI	1	68	140	0.0	0.4	-0.4
11	400 kV	ZERDA -BHINMAL	1	0	386	0.0	4.7	-4.7
12	400 kV	VINDHYACHAL -RIHAND	1	975	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	95	430	0.3	3.2	-2.9
14	220 kV	BHANPURA-RANPUR	1	0	208	0.0	2.6	-2.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	112	0	0.6	0.0	0.6
17	220 kV	MALANPUR-AURAIYA	1	64	13	1.4	0.0	1.4
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	44.0	214.3	-170.4
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	816	0.0	10.0	-10.0
2	HVDC	RAIGARH-PUGALUR	2	484	499	0.0	5.8	-5.8
3	765 kV	SOLAPUR-RAICHUR	2	1050	1555	0.0	15.2	-15.2
4	765 kV	WARDHA-NIZAMABAD	2	0	2040	0.0	33.1	-33.1
5	400 kV	KOLHAPUR-KUDGI	2	1474	0	20.6	0.0	20.6
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	1	32	0.8	0.0	0.8
					WR-SR	21.4	64.0	-42.6

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)	122	114	115	2.8
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	111	67	95	2.3
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	20	0	-25	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	22	7	13	0.3
	NER	132kV Motanga-Rangia	8	0	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-68	0	-56	-1.4
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-290	-136	-234	-5.6
	ER	132KV-BIHAR - NEPAL	-273	-76	-186	-4.5
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-725	-344	-494	-11.9
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	50	0	-40	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	50	0	-40	-1.0