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: 06th 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 05.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 05-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 05th 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:** **06-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)	46115	51442	40338	18504	2539	158938
Peak Shortage (MW)	900	0	0	0	29	929
Energy Met (MU)	896	1203	925	369	43	3436
Hydro Gen (MU)	106	50	78	37	11	282
Wind Gen (MU)	12	66	44	-	-	121
Solar Gen (MU)*	9.95	22.00	74.79	4.39	0.14	111
Energy Shortage (MU)	12.45	0.00	0.00	0.00	0.44	12.89
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	46830	59096	47608	18798	2574	170628
Time Of Maximum Demand Met (From NLDC SCADA)	09:59	10:44	09:23	17:50	18:00	09:43

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	0.053	0.00	1.38	12.48	13.85	72.88	13.26

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	5872	0	109.5	58.2	-2.4	77	0.00
	Haryana	5474	0	104.0	76.0	-1.1	340	0.00
	Rajasthan	11188	0	215.3	65.4	-0.8	333	0.00
	Delhi	4186	0	70.5	60.5	-1.0	344	0.00
	UP	15278	0	278.3	102.4	-1.7	367	0.05
	Uttarakhand	2187	0	40.8	23.3	0.8	194	0.00
	HP	1844	0	33.5	28.3	-0.5	207	0.00
	J&K(UT) & Ladakh(UT)	2352	600	40.2	37.3	-1.6	420	12.40
	Chandigarh	239	0	4.0	4.0	0.0	31	0.00
WR	Chhattisgarh	4131	0	87.0	37.0	0.1	255	0.00
	Gujarat	16869	0	341.8	82.6	4.7	840	0.00
	MP	14311	0	274.7	155.8	-2.4	504	0.00
	Maharashtra	22103	0	444.8	167.1	-3.2	650	0.00
	Goa	504	0	10.8	10.3	-0.1	40	0.00
	DD	335	0	7.4	7.1	0.3	28	0.00
	DNH	825	0	18.8	18.9	-0.1	70	0.00
	AMNSIL	799	0	18.1	10.9	-0.1	259	0.00
SR	Andhra Pradesh	8646	0	166.1	65.2	1.4	816	0.00
	Telangana	11497	0	211.7	101.1	-0.7	551	0.00
	Karnataka	11322	0	208.8	87.5	0.1	626	0.00
	Kerala	3615	0	72.4	52.4	-0.3	286	0.00
	Tamil Nadu	12736	0	259.4	154.7	0.2	654	0.00
	Puducherry	349	0	7.1	7.1	-0.1	30	0.00
ER	Bihar	4566	0	82.0	79.2	-2.5	250	0.00
	DVC	3083	0	65.2	-31.3	1.9	400	0.00
	Jharkhand	1517	0	25.7	22.8	-1.0	150	0.00
	Odisha	4038	0	74.8	-0.2	-1.1	379	0.00
	West Bengal	6400	0	118.6	5.3	0.5	350	0.00
	Sikkim	143	0	2.3	1.9	0.4	56	0.00
NER	Arunachal Pradesh	127	2	2.3	2.1	0.0	43	0.01
	Assam	1428	18	24.4	19.0	0.5	93	0.40
	Manipur	228	3	3.0	3.4	-0.4	31	0.01
	Meghalaya	365	0	6.7	5.2	-0.2	27	0.00
	Mizoram	105	2	1.6	1.4	-0.1	12	0.01
	Nagaland	141	1	2.3	2.0	0.1	20	0.01
	Tripura	220	2	2.8	2.7	-1.2	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	6.6	-11.7	-16.5
Day Peak (MW)	300.0	-594.0	-932.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	223.3	-252.6	138.7	-109.9	0.5	0.0
Actual(MU)	205.4	-253.8	148.7	-102.0	0.4	-1.2
O/D/U/D(MU)	-17.9	-1.2	10.0	7.9	-0.1	-1.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	5609	11353	8452	2520	724	28657
State Sector	12189	16072	11747	5992	11	46010
Total	17798	27424	20199	8512	735	74667

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	485	1274	451	455	6	2672
Lignite	26	7	34	0	0	67
Hydro	106	50	78	37	11	282
Nuclear	23	21	65	0	0	109
Gas, Naptha & Diesel	23	32	12	0	29	97
RES (Wind, Solar, Biomass & Others)	51	89	157	4	0	301
Total	713	1474	797	496	47	3528
Share of RES in total generation (%)	7.11	6.04	19.73	0.89	0.30	8.55
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	25.18	10.87	37.57	8.28	24.14	19.61

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.025
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: 06-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	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	1	1127	0.0	12.3	-12.3
4	765 kV	SASARAM-FATEHPUR	1	42	480	0.0	5.3	-5.3
5	765 kV	GAYA-BALIA	1	0	462	0.0	7.1	-7.1
6	400 kV	PUSAULI-VARANASI	1	0	195	0.0	3.9	-3.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	150	0.0	2.3	-2.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	1008	0.0	9.7	-9.7
9	400 kV	PATNA-BALIA	4	0	1200	0.0	16.9	-16.9
10	400 kV	BIHARSHARIFF-BALIA	2	0	356	0.0	4.4	-4.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	373	0.0	2.9	-2.9
12	400 kV	BIHARSHARIFF-VARANASI	2	86	409	0.0	2.4	-2.4
13	220 kV	PUSAULI-SAHUPURI	1	64	94	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	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	73.7	-73.4
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1590	0	26.3	0.0	26.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	904	335	4.8	0.0	4.8
3	765 kV	JHARSUGUDA-DURG	2	193	91	0.3	0.0	0.3
4	400 kV	JHARSUGUDA-RAIGARH	4	224	378	0.0	2.7	-2.7
5	400 kV	RANCHI-SIPAT	2	175	99	2.2	0.0	2.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	148	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	64	20	0.5	0.0	0.5
					ER-WR	34.0	4.6	29.4
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	492	0.0	10.3	-10.3
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2465	0.0	40.5	-40.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	2841	0.0	52.1	-52.1
4	400 kV	TALCHER-I/C	2	93	1127	0.0	10.2	-10.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	103.0	-103.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	237	29	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	392	9	4.8	0.0	4.8
3	220 kV	ALIPURDUAR-SALAKATI	2	65	9	0.6	0.0	0.6
					ER-NER	8.1	0.0	8.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	465	0	8.3	0.0	8.3
					NER-NR	8.3	0.0	8.3
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1507	0.0	30.2	-30.2
2	HVDC	VINDHYACHAL B/B	-	239	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1553	0.0	32.5	-32.5
4	765 kV	GWALIOR-AGRA	2	0	2895	0.0	38.9	-38.9
5	765 kV	PHAGI-GWALIOR	2	209	1320	0.4	16.5	-16.1
6	765 kV	JABALPUR-ORAI	2	0	1225	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	725	0	12.7	0.0	12.7
8	765 kV	SATNA-ORAI	1	0	1592	0.0	27.4	-27.4
9	765 kV	CHITORGARH-BANASKANTHA	2	124	1008	0.0	4.2	-4.2
10	400 kV	ZERDA-KANKROLI	1	143	172	0.0	0.0	0.0
11	400 kV	ZERDA -BHINMAL	1	188	346	0.0	2.7	-2.7
12	400 kV	VINDHYACHAL -RIHAND	1	984	0	21.8	0.0	21.8
13	400 kV	RAPP-SHUJALPUR	2	252	610	1.0	4.4	-3.4
14	220 kV	BHANPURA-RANPUR	1	0	192	0.0	2.4	-2.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.4	-1.4
16	220 kV	MEHGAON-AURAIYA	1	137	0	0.7	0.0	0.7
17	220 kV	MALANPUR-AURAIYA	1	89	21	1.6	0.0	1.6
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	44.2	192.1	-147.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1006	0.0	13.7	-13.7
2	HVDC	RAIGARH-PUGALUR	2	144	1499	0.0	10.4	-10.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2116	0.0	28.9	-28.9
4	765 kV	WARDHA-NIZAMABAD	2	0	2786	0.0	43.6	-43.6
5	400 kV	KOLHAPUR-KUDGI	2	1307	0	19.0	0.0	19.0
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	36	0.7	0.0	0.7
					WR-SR	19.7	96.7	-77.0

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)	127	0	119	2.9
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	171	163	163	3.9
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	19	8	-9	-0.2
	NER	132KV-GEYLEGPHU - SALAKATI	-27	-6	13	0.3
	NER	132kV Motanga-Rangia	10	0	-1	0.0
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-61	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-264	208	-253	-6.1
	ER	132KV-BIHAR - NEPAL	-269	-78	-179	-4.3
	ER	BHERAMARA HVDC(BANGLADESH)	-829	-449	-603	-14.5
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	52	0	-42	-1.0