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: 08th 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 07.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 07-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 07th 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:** **08-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)	49105	51517	40027	18971	2528	162148
Peak Shortage (MW)	600	0	0	0	32	632
Energy Met (MU)	941	1226	860	384	43	3454
Hydro Gen (MU)	110	46	62	32	11	261
Wind Gen (MU)	11	97	31	-	-	138
Solar Gen (MU)*	30.26	24.05	44.74	4.70	0.13	104
Energy Shortage (MU)	12.40	0.00	0.00	0.00	0.74	13.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49251	59913	41883	19036	2610	168945
Time Of Maximum Demand Met (From NLDC SCADA)	10:13	10:42	09:24	18:41	17:59	09:29

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	0.043	0.00	0.27	11.79	12.06	77.48	10.46

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	6082	0	116.1	56.7	-1.4	117	0.00
	Haryana	6379	0	118.0	81.7	-0.3	169	0.00
	Rajasthan	12124	0	230.6	79.4	1.4	544	0.00
	Delhi	4207	0	70.6	59.9	-1.3	208	0.00
	UP	16060	0	280.7	92.7	-1.2	372	0.00
	Uttarakhand	2183	0	40.0	21.7	0.6	283	0.00
	HP	1831	0	32.8	27.4	-0.7	144	0.00
	J&K(UT) & Ladakh(UT)	2483	600	48.2	42.0	0.7	457	12.40
	Chandigarh	236	0	3.8	3.8	0.0	34	0.00
WR	Chhattisgarh	4079	0	88.8	36.7	2.2	389	0.00
	Gujarat	16676	0	344.9	83.1	5.2	1007	0.00
	MP	14547	0	284.5	169.5	-2.5	357	0.00
	Maharashtra	22540	0	451.1	162.2	-2.5	548	0.00
	Goa	480	0	10.8	10.5	-0.1	33	0.00
	DD	335	0	7.4	7.1	0.3	38	0.00
	DNH	853	0	19.2	18.8	0.5	72	0.00
	AMNSIL	840	0	18.7	11.3	0.1	250	0.00
SR	Andhra Pradesh	7800	0	156.2	55.5	-1.4	350	0.00
	Telangana	10079	0	197.1	90.7	-1.6	425	0.00
	Karnataka	8891	0	174.5	77.8	-2.7	450	0.00
	Kerala	3575	0	69.9	53.7	-0.4	224	0.00
	Tamil Nadu	12785	0	255.1	161.9	-1.2	584	0.00
	Puducherry	357	0	6.9	7.2	-0.3	27	0.00
ER	Bihar	4461	0	82.2	78.5	-1.5	182	0.00
	DVC	3478	0	66.7	-35.3	1.1	617	0.00
	Jharkhand	1461	0	26.2	23.2	-1.9	93	0.00
	Odisha	4296	0	83.7	2.3	0.0	337	0.00
	West Bengal	6503	0	123.3	8.4	0.5	639	0.00
	Sikkim	142	0	2.0	2.0	0.0	52	0.00
NER	Arunachal Pradesh	154	2	2.2	2.3	-0.2	41	0.01
	Assam	1442	21	24.1	19.5	0.3	101	0.70
	Manipur	226	2	2.9	3.2	-0.4	29	0.01
	Meghalaya	374	0	6.8	5.1	-0.1	257	0.00
	Mizoram	112	1	1.7	1.4	-0.1	14	0.01
	Nagaland	140	3	2.2	2.0	0.1	15	0.01
	Tripura	217	0	3.6	2.5	-0.3	28	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.9	-11.8	-16.5
Day Peak (MW)	319.0	-622.5	-936.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.1	-247.2	124.9	-115.0	1.1	0.0
Actual(MU)	219.4	-226.3	118.8	-118.9	0.6	-6.4
O/D/U/D(MU)	-16.6	20.8	-6.1	-3.9	-0.6	-6.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL
Central Sector	6549	13353	7702	1760	699	30062
State Sector	12184	16979	9969	5742	11	44884
Total	18733	30331	17671	7502	710	74946

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India
Coal	507	1237	463	482	7	2698
Lignite	15	10	33	0	0	58
Hydro	110	46	63	32	11	261
Nuclear	19	21	64	0	0	104
Gas, Naptha & Diesel	22	30	13	0	29	95
RES (Wind, Solar, Biomass & Others)	70	122	114	5	0	310
Total	743	1466	750	519	48	3526
Share of RES in total generation (%)	9.37	8.31	15.17	0.91	0.27	8.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.69	12.87	32.06	7.07	23.10	19.15

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.022
Based on State Max Demands	1.056

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: 08-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	981	0.0	12.1	-12.1
4	765 kV	SASARAM-FATEHPUR	1	0	420	0.0	4.7	-4.7
5	765 kV	GAYA-BALIA	1	0	492	0.0	8.4	-8.4
6	400 kV	PUSAULI-VARANASI	1	0	194	0.0	4.0	-4.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	116	0.0	1.9	-1.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	835	0.0	8.9	-8.9
9	400 kV	PATNA-BALIA	4	0	1178	0.0	18.4	-18.4
10	400 kV	BIHARSHARIFF-BALIA	2	0	437	0.0	6.2	-6.2
11	400 kV	MOTIHARI-GORAKHPUR	2	0	364	0.0	5.2	-5.2
12	400 kV	BIHARSHARIFF-VARANASI	2	29	349	0.0	2.6	-2.6
13	220 kV	PUSAULI-SAHUPURI	1	54	79	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	0.4	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	78.5	-78.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1290	0	13.5	0.0	13.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	800	499	5.0	0.0	5.0
3	765 kV	JHARSUGUDA-DURG	2	44	475	0.0	3.8	-3.8
4	400 kV	JHARSUGUDA-RAIGARH	4	120	360	0.0	2.8	-2.8
5	400 kV	RANCHI-SIPAT	2	278	85	1.8	0.0	1.8
6	220 kV	BUDHIPADAR-RAIGARH	1	0	183	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	49	38	0.2	0.0	0.2
					ER-WR	20.5	8.9	11.6
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	1986	0.0	41.2	-41.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2659	0.0	47.6	-47.6
4	400 kV	TALCHER-I/C	2	0	950	0.0	10.8	-10.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	98.8	-98.8
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	245	37	3.5	0.0	3.5
2	400 kV	ALIPURDUAR-BONGAIGAON	2	400	13	5.4	0.0	5.4
3	220 kV	ALIPURDUAR-SALAKATI	2	65	14	0.8	0.0	0.8
					ER-NER	9.8	0.0	9.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	471	0	10.8	0.0	10.8
					NER-NR	10.8	0.0	10.8
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1504	0.0	34.9	-34.9
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1925	0.0	42.5	-42.5
4	765 kV	GWALIOR-AGRA	2	0	2593	0.0	37.1	-37.1
5	765 kV	PHAGI-GWALIOR	2	0	1288	0.0	16.9	-16.9
6	765 kV	JABALPUR-ORAI	2	0	1133	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	760	0	13.5	0.0	13.5
8	765 kV	SATNA-ORAI	1	0	1505	0.0	26.8	-26.8
9	765 kV	CHITORGARH-BANASKANTHA	2	443	1094	0.0	4.2	-4.2
10	400 kV	ZERDA-KANKROLI	1	110	172	0.0	0.1	-0.1
11	400 kV	ZERDA -BHINMAL	1	41	471	0.0	5.2	-5.2
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.4	0.0	22.4
13	400 kV	RAPP-SHUJALPUR	2	151	616	0.8	3.5	-2.7
14	220 kV	BHANPURA-RANPUR	1	0	181	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.6	-1.6
16	220 kV	MEHGAON-AURAIYA	1	155	0	0.4	0.0	0.4
17	220 kV	MALANPUR-AURAIYA	1	71	12	1.8	0.0	1.8
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	45.0	206.2	-161.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	813	0.0	10.6	-10.6
2	HVDC	RAIGARH-PUGALUR	2	0	998	0.0	9.7	-9.7
3	765 kV	SOLAPUR-RAICHUR	2	387	1669	0.0	18.8	-18.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2272	0.0	36.1	-36.1
5	400 kV	KOLHAPUR-KUDGI	2	1401	0	20.9	0.0	20.9
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	0	37	0.7	0.0	0.7
					WR-SR	21.6	75.2	-53.6

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)	115	0	110	2.7
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	156	0	108	2.6
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	32	0	-15	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	24	0	13	0.3
	NER	132kV Motanga-Rangia	-8	0	-3	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-60	0	-55	-1.3
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-306	-216	-266	-6.4
	ER	132KV-BIHAR - NEPAL	-257	-69	-172	-4.1
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-830	-426	-605	-14.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	53	0	-42	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-42	-1.0