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: 01st Feb 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 31.01.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 31–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 31st 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:** **01-Feb-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)	49479	50806	40882	18998	2476	162641
Peak Shortage (MW)	600	0	0	88	40	728
Energy Met (MU)	1045	1229	999	390	44	3707
Hydro Gen (MU)	97	41	66	34	10	248
Wind Gen (MU)	9	27	45	-	-	81
Solar Gen (MU)*	43.28	36.00	98.02	4.75	0.14	182
Energy Shortage (MU)	12.40	0.20	0.00	0.26	0.81	13.67
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55243	60333	50966	19052	2518	184231
Time Of Maximum Demand Met (From NLDC SCADA)	10:21	10:51	09:29	19:09	18:02	09:53

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	0.00	0.37	0.37	67.87	31.76

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	7085	0	142.4	58.0	-1.3	47	0.00
	Haryana	6659	0	130.4	79.6	1.2	278	0.00
	Rajasthan	13935	0	262.7	89.1	1.3	500	0.00
	Delhi	4350	0	68.3	56.0	-0.2	232	0.00
	UP	18513	0	311.3	95.8	-1.6	525	0.00
	Uttarakhand	2129	0	39.7	24.8	0.1	116	0.00
	HP	1742	0	30.9	25.4	0.2	275	0.00
	J&K(UT) & Ladakh(UT)	2669	600	55.4	49.8	0.5	202	12.40
	Chandigarh	220	0	3.5	3.6	-0.1	21	0.00
WR	Chhattisgarh	4078	0	87.9	42.1	0.1	256	0.20
	Gujarat	15976	0	337.2	108.2	2.9	611	0.00
	MP	14723	0	285.2	169.4	-1.2	553	0.00
	Maharashtra	23014	0	466.6	134.0	-2.9	786	0.00
	Goa	439	0	9.3	9.1	-0.1	32	0.00
	DD	307	0	7.0	6.8	0.2	12	0.00
	DNH	812	0	19.2	18.7	0.5	67	0.00
	AMNSIL	790	0	16.6	5.8	0.6	270	0.00
SR	Andhra Pradesh	9841	0	182.1	85.5	0.1	455	0.00
	Telangana	12485	0	245.7	119.5	1.7	1078	0.00
	Karnataka	11907	0	223.6	82.4	0.4	547	0.00
	Kerala	3422	0	67.8	45.2	0.8	344	0.00
	Tamil Nadu	12738	0	272.4	158.4	-1.7	350	0.00
	Puducherry	340	0	7.1	7.3	-0.2	22	0.00
ER	Bihar	5189	0	96.5	84.6	0.2	414	0.00
	DVC	3108	0	68.6	-49.2	0.2	433	0.00
	Jharkhand	1476	0	26.3	18.6	-0.8	150	0.26
	Odisha	3865	0	74.1	-4.0	-0.5	360	0.00
	West Bengal	6220	0	123.3	11.5	-0.3	211	0.00
	Sikkim	113	0	1.6	1.7	-0.1	10	0.00
NER	Arunachal Pradesh	136	2	2.5	2.5	-0.1	28	0.01
	Assam	1358	13	23.7	17.3	1.3	101	0.77
	Manipur	224	3	3.0	3.2	-0.2	24	0.01
	Meghalaya	382	0	6.9	4.6	0.2	60	0.00
	Mizoram	116	3	1.8	1.6	-0.1	17	0.01
	Nagaland	121	2	2.1	1.9	0.0	34	0.01
	Tripura	224	3	3.6	2.4	-0.1	47	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.9	-13.8	-19.3
Day Peak (MW)	263.0	-692.5	-1021.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	238.2	-250.1	128.4	-116.2	-0.2	0.0
Actual(MU)	239.0	-245.9	123.7	-114.0	1.8	4.7
O/D/U/D(MU)	0.9	4.3	-4.7	2.2	2.0	4.7

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5624	13748	5442	3165	510	28489	44
State Sector	9190	13745	9157	4425	11	36527	56
Total	14814	27493	14599	7590	521	65016	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	590	1333	538	496	7	2963	78
Lignite	23	7	36	0	0	66	2
Hydro	97	41	66	34	10	248	7
Nuclear	18	16	43	0	0	77	2
Gas, Naptha & Diesel	22	31	13	0	30	96	3
RES (Wind, Solar, Biomass & Others)	80	64	180	5	0	328	9
Total	831	1492	874	534	47	3778	100

Share of RES in total generation (%)	9.62	4.26	20.55	0.89	0.30	8.68
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.50	8.09	32.96	7.24	21.88	17.28

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.021
Based on State Max Demands	1.035

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: 01-Feb-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	6.3	-6.3
3	765 kV	GAYA-VARANASI	2	0	823	0.0	9.8	-9.8
4	765 kV	SASARAM-FATEHPUR	1	23	266	0.0	3.3	-3.3
5	765 kV	GAYA-BALIA	1	0	639	0.0	8.2	-8.2
6	400 kV	PUSAULI-VARANASI	1	0	223	0.0	5.0	-5.0
7	400 kV	PUSAULI -ALLAHABAD	1	0	82	0.0	1.1	-1.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	820	0.0	9.6	-9.6
9	400 kV	PATNA-BALIA	4	0	1235	0.0	15.5	-15.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	535	0.0	6.4	-6.4
11	400 kV	MOTIHARI-GORAKHPUR	2	0	332	0.0	5.9	-5.9
12	400 kV	BIHARSHARIFF-VARANASI	2	134	206	0.0	0.6	-0.6
13	220 kV	PUSAULI-SAHUPURI	1	0	100	0.0	1.6	-1.6
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.7	0.0	0.7
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	0.7	73.3	-72.5
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	810	197	8.5	0.0	8.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	786	493	4.0	0.0	4.0
3	765 kV	JHARSUGUDA-DURG	2	84	172	0.0	1.9	-1.9
4	400 kV	JHARSUGUDA-RAIGARH	4	181	275	0.0	1.7	-1.7
5	400 kV	RANCHI-SIPAT	2	244	168	0.4	0.0	0.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	1	0.0	0.0	0.0
7	220 kV	BUDHIPADAR-KORBA	2	81	0	1.0	0.0	1.0
					ER-WR	13.8	3.5	10.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	533	0.0	12.4	-12.4
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1982	0.0	39.4	-39.4
3	765 kV	ANGUL-SRIKAKULAM	2	0	2924	0.0	48.6	-48.6
4	400 kV	TALCHER-I/C	2	274	674	0.0	5.9	-5.9
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	100.3	-100.3
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	247	25	2.7	0.0	2.7
2	400 kV	ALIPURDUAR-BONGAIGAON	2	417	0	4.3	0.0	4.3
3	220 kV	ALIPURDUAR-SALAKATI	2	68	11	0.8	0.0	0.8
					ER-NER	7.8	0.0	7.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	484	0	9.2	0.0	9.2
					NER-NR	9.2	0.0	9.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1250	0.0	46.3	-46.3
2	HVDC	VINDHYACHAL B/B	-	241	251	11.3	0.0	11.3
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1924	0.0	38.2	-38.2
4	765 kV	GWALIOR-AGRA	2	0	2876	0.0	40.4	-40.4
5	765 kV	PHAGI-GWALIOR	2	0	1333	0.0	21.8	-21.8
6	765 kV	JABALPUR-ORAI	2	0	1183	0.0	34.5	-34.5
7	765 kV	GWALIOR-ORAI	1	678	0	12.5	0.0	12.5
8	765 kV	SATNA-ORAI	1	0	1351	0.0	24.1	-24.1
9	765 kV	CHITORGARH-BANASKANTHA	2	555	620	0.0	0.1	0.0
10	400 kV	ZERDA-KANKROLI	1	146	99	0.7	0.0	0.7
11	400 kV	ZERDA -BHINMAL	1	126	270	0.0	2.0	-2.0
12	400 kV	VINDHYACHAL -RIHAND	1	492	0	11.1	0.0	11.1
13	400 kV	RAPP-SHUJALPUR	2	37	596	0.0	4.6	-4.6
14	220 kV	BHANPURA-RANPUR	1	8	173	0.0	2.1	-2.1
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.0	0.0
16	220 kV	MEHGAON-AURAIYA	1	149	0	2.2	1.8	0.3
17	220 kV	MALANPUR-AURAIYA	1	99	19	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	0.9	-0.9
					WR-NR	39.2	216.8	-177.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	293	816	1.2	10.9	-9.7
2	HVDC	RAIGARH-PUGALUR	2	956	1500	0.0	4.5	-4.5
3	765 kV	SOLAPUR-RAICHUR	2	636	2065	0.0	18.2	-18.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3052	0.0	46.8	-46.8
5	400 kV	KOLHAPUR-KUDGI	2	1516	0	19.1	0.0	19.1
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	1	0	1.5	0.0	1.5
8	220 kV	XELDEM-AMBEWADI	1	0	42	0.7	0.0	0.7
					WR-SR	22.5	80.3	-57.8

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)	106	0	98	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	93	0	82	2.0
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	0	0	0	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	38	19	26	0.6
	NER	132kV Motanga-Rangia	21	8	14	0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-81	0	-70	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-281	-166	-269	-6.5
	ER	132KV-BIHAR - NEPAL	-330	-149	-238	-5.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-914	-528	-714	-17.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-45	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	53	0	-45	-1.1