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: 20th 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 19.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-फरवरी -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 19th February 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:** **20-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)	48410	50650	42615	18975	2511	163161
Peak Shortage (MW)	580	0	0	108	25	713
Energy Met (MU)	1006	1159	1052	386	43	3646
Hydro Gen (MU)	106	34	76	34	9	259
Wind Gen (MU)	13	92	43	-	-	148
Solar Gen (MU)*	42.25	35.14	66.16	4.68	0.14	148
Energy Shortage (MU)	11.51	0.00	0.00	0.32	0.34	12.17
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50975	53892	52341	19071	2667	176414
Time Of Maximum Demand Met (From NLDC SCADA)	10:27	11:25	09:29	19:13	18:03	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	0.037	0.00	0.13	6.69	6.82	77.83	15.36

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	6354	0	126.0	61.0	-1.4	89	0.00
	Haryana	6495	0	133.8	100.2	0.8	154	0.00
	Rajasthan	13965	0	262.3	88.2	1.4	286	0.00
	Delhi	3855	0	64.7	51.2	-0.4	218	0.00
	UP	16307	280	290.0	89.2	0.8	585	0.31
	Uttarakhand	2171	0	40.0	21.9	0.7	174	0.00
	HP	1828	0	32.9	27.5	0.8	159	0.00
	J&K(UT) & Ladakh(UT)	2685	550	53.5	47.2	0.7	501	11.20
	Chandigarh	217	0	3.3	3.3	0.1	21	0.00
WR	Chhattisgarh	4016	0	88.1	41.1	-0.5	337	0.00
	Gujarat	16736	0	359.5	115.9	-1.2	562	0.00
	MP	12846	0	245.9	155.7	-3.1	678	0.00
	Maharashtra	19294	0	410.1	122.2	-7.4	546	0.00
	Goa	429	0	9.5	9.3	-0.2	38	0.00
	DD	345	0	7.8	7.5	0.3	26	0.00
	DNH	843	0	19.7	19.7	0.0	42	0.00
	AMNSIL	869	0	18.2	1.3	0.8	306	0.00
SR	Andhra Pradesh	10293	0	191.4	78.7	2.0	765	0.00
	Telangana	12465	0	235.1	133.4	-0.1	688	0.00
	Karnataka	11882	0	219.9	84.7	-1.2	586	0.00
	Kerala	3831	0	77.9	53.0	0.0	234	0.00
	Tamil Nadu	15205	0	319.9	201.9	-1.0	446	0.00
	Puducherry	375	0	7.7	7.7	0.0	35	0.00
ER	Bihar	4418	0	81.6	77.6	-1.8	158	0.00
	DVC	3149	0	66.6	-51.3	-0.5	327	0.00
	Jharkhand	1474	0	23.7	18.7	-3.2	140	0.32
	Odisha	4135	0	77.6	18.5	-1.6	447	0.00
	West Bengal	6878	0	134.5	26.5	-1.0	270	0.00
	Sikkim	104	0	1.5	1.8	-0.3	21	0.00
NER	Arunachal Pradesh	133	1	2.4	2.4	0.0	26	0.01
	Assam	1531	12	24.4	19.6	0.4	136	0.30
	Manipur	217	1	2.4	3.0	-0.6	25	0.01
	Meghalaya	372	0	6.5	4.6	0.2	42	0.00
	Mizoram	108	1	1.9	1.4	0.1	10	0.01
	Nagaland	138	1	2.1	2.0	0.0	13	0.01
	Tripura	215	0	3.6	2.0	-0.4	25	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.1	-14.0	-18.0
Day Peak (MW)	289.0	-716.8	-943.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	241.7	-288.6	165.7	-119.9	1.2	0.0
Actual(MU)	242.9	-321.1	187.4	-117.4	1.7	-6.6
O/D/U/D(MU)	1.3	-32.5	21.7	2.5	0.5	-6.6

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6762	12843	5762	2165	625	28157	40
State Sector	13193	13762	10062	4502	11	41530	60
Total	19955	26604	15824	6667	636	69686	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	526	1251	550	497	8	2832	76
Lignite	23	10	43	0	0	75	2
Hydro	106	34	76	33	9	259	7
Nuclear	21	21	47	0	0	90	2
Gas, Naptha & Diesel	27	50	11	0	29	117	3
RES (Wind, Solar, Biomass & Others)	83	128	148	5	0	363	10
Total	786	1494	875	535	47	3736	100

Share of RES in total generation (%)	10.51	8.54	16.97	0.87	0.30	9.73
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.73	12.25	31.03	7.13	20.00	19.06

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.014
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: 20-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	6.0	-6.0
3	765 kV	GAYA-VARANASI	2	0	895	0.0	11.9	-11.9
4	765 kV	SASARAM-FATEHPUR	1	10	441	0.0	5.5	-5.5
5	765 kV	GAYA-BALIA	1	0	500	0.0	7.6	-7.6
6	400 kV	PUSAULI-VARANASI	1	0	214	0.0	4.7	-4.7
7	400 kV	PUSAULI -ALLAHABAD	1	0	80	0.0	1.3	-1.3
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	784	0.0	10.7	-10.7
9	400 kV	PATNA-BALIA	4	0	1073	0.0	17.6	-17.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	417	0.0	5.9	-5.9
11	400 kV	MOTIHARI-GORAKHPUR	2	0	333	0.0	5.8	-5.8
12	400 kV	BIHARSHARIFF-VARANASI	2	88	257	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	42	73	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	0.7	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	79.0	-78.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1412	0	20.3	0.0	20.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	790	481	5.8	0.0	5.8
3	765 kV	JHARSUGUDA-DURG	2	82	184	0.0	1.2	-1.2
4	400 kV	JHARSUGUDA-RAIGARH	4	234	249	0.0	0.1	-0.1
5	400 kV	RANCHI-SIPAT	2	223	179	1.4	0.0	1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	134	0.0	1.9	-1.9
7	220 kV	BUDHIPADAR-KORBA	2	166	0	2.3	0.0	2.3
					ER-WR	29.7	3.2	26.5
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	649	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2474	0.0	46.1	-46.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2618	0.0	51.4	-51.4
4	400 kV	TALCHER-I/C	2	0	1124	0.0	14.7	-14.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	112.7	-112.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	253	24	3.2	0.0	3.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	449	0	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	59	11	0.8	0.0	0.8
					ER-NER	9.2	0.0	9.2
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	0	11.5	0.0	11.5
					NER-NR	11.5	0.0	11.5
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1001	0.0	33.4	-33.4
2	HVDC	VINDHYACHAL B/B	-	240	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	984	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2678	0.0	44.6	-44.6
5	765 kV	PHAGI-GWALIOR	2	0	1507	0.0	23.9	-23.9
6	765 kV	JABALPUR-ORAI	2	895	1008	0.0	32.9	-32.9
7	765 kV	GWALIOR-ORAI	1	652	0	11.7	0.0	11.7
8	765 kV	SATNA-ORAI	1	0	1390	0.0	28.1	-28.1
9	765 kV	CHITORGARH-BANASKANTHA	2	98	1093	0.0	12.9	-12.9
10	400 kV	ZERDA-KANKROLI	1	88	158	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	39	347	0.0	3.9	-3.9
12	400 kV	VINDHYACHAL -RIHAND	1	497	0	11.2	0.0	11.2
13	400 kV	RAPP-SHUJALPUR	2	4	500	0.0	5.9	-5.9
14	220 kV	BHANPURA-RANPUR	1	0	176	0.0	2.5	-2.5
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	2.0	-2.0
16	220 kV	MEHGAON-AURAIYA	1	111	0	2.5	1.6	1.0
17	220 kV	MALANPUR-AURAIYA	1	68	9	2.0	0.0	2.0
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	0.6	-0.6
					WR-NR	33.5	217.5	-184.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1012	0.0	14.1	-14.1
2	HVDC	RAIGARH-PUGALUR	2	0	1512	0.0	22.1	-22.1
3	765 kV	SOLAPUR-RAICHUR	2	0	2341	0.0	35.3	-35.3
4	765 kV	WARDHA-NIZAMABAD	2	0	3132	0.0	51.3	-51.3
5	400 kV	KOLHAPUR-KUDGI	2	1188	0	11.8	0.0	11.8
6	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
7	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
8	220 kV	XELDEM-AMBEWADI	1	0	107	2.1	0.0	2.1
					WR-SR	13.8	122.9	-109.0

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)	96	94	94	2.3
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	118	0	91	2.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	23	7	-15	-0.4
	NER	132KV-GEYLEGPHU - SALAKATI	33	0	10	0.2
	NER	132kV Motanga-Rangia	18	4	7	0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-82	0	-74	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-324	-240	-280	-6.7
	ER	132KV-BIHAR - NEPAL	-311	-101	-232	-5.6
	ER	BHERAMARA HVDC(BANGLADESH)	-841	-550	-664	-15.9
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	51	0	-44	-1.1
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	51	0	-44	-1.1