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: 21th 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 20.02.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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: 21-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)	47873	51647	41869	18863	2515	162767
Peak Shortage (MW)	613	0	0	193	45	851
Energy Met (MU)	991	1198	1001	384	43	3617
Hydro Gen (MU)	108	33	69	31	8	249
Wind Gen (MU)	5	78	48	-	-	131
Solar Gen (MU)*	41.16	38.22	90.79	4.51	0.18	175
Energy Shortage (MU)	11.32	0.00	0.00	0.58	0.29	12.19
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50778	56330	48884	19127	2584	175045
Time Of Maximum Demand Met (From NLDC SCADA)	09:30	09:30	08:24	18:24	18:01	09:30

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	0.042	0.00	0.30	5.89	6.19	71.10	22.71

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	6347	0	126.0	59.0	-0.7	96	0.00
	Haryana	6314	0	131.2	97.2	0.8	140	0.06
	Rajasthan	13767	0	261.1	90.0	1.6	356	0.00
	Delhi	3549	0	59.5	53.2	-0.1	223	0.00
	UP	16011	0	285.7	86.4	-1.8	186	0.06
	Uttarakhand	2106	0	39.2	21.5	0.2	164	0.00
	HP	1810	0	32.2	27.0	0.6	122	0.00
	J&K(UT) & Ladakh(UT)	2746	550	52.6	47.3	-0.3	316	11.20
	Chandigarh	200	0	3.2	3.1	0.1	20	0.00
WR	Chhattisgarh	4134	0	91.6	43.7	0.5	710	0.00
	Gujarat	16913	0	358.9	117.3	1.3	761	0.00
	MP	12764	0	249.5	156.2	-1.6	626	0.00
	Maharashtra	21393	0	443.0	122.0	-1.5	779	0.00
	Goa	443	0	9.5	8.9	0.0	42	0.00
	DD	338	0	7.6	7.2	0.4	35	0.00
	DNH	846	0	19.5	19.3	0.2	52	0.00
	AMNSIL	845	0	18.7	1.3	0.8	303	0.00
SR	Andhra Pradesh	9156	0	177.0	68.1	-1.0	936	0.00
	Telangana	12507	0	234.4	126.2	0.3	684	0.00
	Karnataka	11177	0	208.3	75.7	-2.4	849	0.00
	Kerala	3665	0	77.2	52.4	0.0	271	0.00
	Tamil Nadu	13563	0	296.3	193.5	-2.4	647	0.00
	Puducherry	371	0	7.7	8.0	-0.3	27	0.00
ER	Bihar	4487	0	80.2	75.7	-1.6	420	0.00
	DVC	3078	0	67.3	-50.0	-0.2	263	0.00
	Jharkhand	1357	0	25.2	17.6	-0.6	131	0.58
	Odisha	4030	0	76.9	6.0	-0.3	371	0.00
	West Bengal	6751	0	132.7	25.8	-0.1	612	0.00
	Sikkim	99	0	1.5	1.8	-0.3	19	0.00
NER	Arunachal Pradesh	128	1	2.4	2.4	-0.1	29	0.01
	Assam	1502	10	24.3	19.6	0.2	136	0.25
	Manipur	207	1	2.6	3.1	-0.4	31	0.01
	Meghalaya	358	0	6.5	4.6	0.1	59	0.00
	Mizoram	110	2	1.6	1.4	-0.1	35	0.01
	Nagaland	127	1	2.2	2.0	0.1	14	0.01
	Tripura	229	2	3.7	2.0	-0.3	33	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	3.8	-12.7	-21.1
Day Peak (MW)	248.0	-737.7	-972.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	236.1	-279.5	154.3	-113.8	3.0	0.0
Actual(MU)	236.2	-285.1	146.3	-107.6	4.1	-6.2
O/D/U/D(MU)	0.1	-5.6	-8.1	6.2	1.1	-6.2

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	6762	14613	7162	2845	646	32028	43
State Sector	13409	14369	10272	4502	11	42563	57
Total	20171	28981	17434	7347	657	74590	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	531	1263	517	490	6	2807	76
Lignite	22	10	41	0	0	73	2
Hydro	108	33	69	31	8	249	7
Nuclear	23	21	47	0	0	91	2
Gas, Naptha & Diesel	20	52	11	0	30	113	3
RES (Wind, Solar, Biomass & Others)	72	117	177	5	0	370	10
Total	777	1496	862	525	44	3704	100

Share of RES in total generation (%)	9.30	7.80	20.49	0.86	0.41	10.00
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.18	11.46	33.92	6.76	18.80	19.19

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.015
Based on State Max Demands	1.048

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: 21-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	5.9	-5.9
3	765 kV	GAYA-VARANASI	2	10	691	0.0	7.8	-7.8
4	765 kV	SASARAM-FATEHPUR	1	30	441	0.0	4.5	-4.5
5	765 kV	GAYA-BALIA	1	0	436	0.0	6.5	-6.5
6	400 kV	PUSAULI-VARANASI	1	0	226	0.0	4.9	-4.9
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	719	0.0	8.6	-8.6
9	400 kV	PATNA-BALIA	4	0	954	0.0	14.3	-14.3
10	400 kV	BIHARSHARIFF-BALIA	2	0	407	0.0	4.3	-4.3
11	400 kV	MOTIHARI-GORAKHPUR	2	0	300	0.0	5.0	-5.0
12	400 kV	BIHARSHARIFF-VARANASI	2	101	211	0.0	1.1	-1.1
13	220 kV	PUSAULI-SAHUPURI	1	64	78	0.0	0.0	0.0
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	63.9	-63.2
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	864	0	14.3	0.0	14.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	730	506	6.4	0.0	6.4
3	765 kV	JHARSUGUDA-DURG	2	23	314	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	52	239	0.0	1.8	-1.8
5	400 kV	RANCHI-SIPAT	2	180	169	1.2	0.0	1.2
6	220 kV	BUDHIPADAR-RAIGARH	1	0	141	0.0	2.3	-2.3
7	220 kV	BUDHIPADAR-KORBA	2	124	0	2.1	0.0	2.1
					ER-WR	23.9	6.7	17.3
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	661	0.0	15.1	-15.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1978	0.0	45.2	-45.2
3	765 kV	ANGUL-SRIKAKULAM	2	0	2657	0.0	47.4	-47.4
4	400 kV	TALCHER-I/C	2	0	642	0.0	11.7	-11.7
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	107.7	-107.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	184	136	2.0	0.0	2.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	312	171	3.6	0.0	3.6
3	220 kV	ALIPURDUAR-SALAKATI	2	45	40	0.5	0.0	0.5
					ER-NER	6.1	0.0	6.1
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	466	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	1501	0.0	47.6	-47.6
2	HVDC	VINDHYACHAL B/B	-	240	0	5.8	0.1	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1459	0.0	30.8	-30.8
4	765 kV	GWALIOR-AGRA	2	0	2603	0.0	42.3	-42.3
5	765 kV	PHAGI-GWALIOR	2	0	1379	0.0	20.9	-20.9
6	765 kV	JABALPUR-ORAI	2	807	959	0.0	31.4	-31.4
7	765 kV	GWALIOR-ORAI	1	623	0	11.4	0.0	11.4
8	765 kV	SATNA-ORAI	1	0	1366	0.0	27.0	-27.0
9	765 kV	CHITORGARH-BANASKANTHA	2	313	804	0.0	9.1	-9.1
10	400 kV	ZERDA-KANKROLI	1	105	172	0.0	0.9	-0.9
11	400 kV	ZERDA -BHINMAL	1	1	344	0.0	2.7	-2.7
12	400 kV	VINDHYACHAL -RIHAND	1	482	0	11.3	0.0	11.3
13	400 kV	RAPP-SHUJALPUR	2	1	495	0.0	5.4	-5.4
14	220 kV	BHANPURA-RANPUR	1	0	187	0.0	2.2	-2.2
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.7	-1.7
16	220 kV	MEHGAON-AURAIYA	1	121	0	2.2	1.6	0.5
17	220 kV	MALANPUR-AURAIYA	1	73	15	1.7	0.0	1.7
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	0.7	-0.7
					WR-NR	32.4	224.3	-192.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	522	0.0	12.4	-12.4
2	HVDC	RAIGARH-PUGALUR	2	0	1512	0.0	16.8	-16.8
3	765 kV	SOLAPUR-RAICHUR	2	816	1967	0.0	19.0	-19.0
4	765 kV	WARDHA-NIZAMABAD	2	0	3029	0.0	43.6	-43.6
5	400 kV	KOLHAPUR-KUDGI	2	1270	0	14.5	0.0	14.5
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	116	2.1	0.0	2.1
					WR-SR	16.5	91.8	-75.2

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)	108	0	91	2.2
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	80	0	69	1.7
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	22	0	-1	0.0
	NER	132KV-GEYLEGPHU - SALAKATI	32	8	17	0.4
	NER	132kV Motanga-Rangia	6	2	2	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-80	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-387	-199	-299	-7.2
	ER	132KV-BIHAR - NEPAL	-271	-38	-157	-3.8
	ER	BHERAMARA HVDC(BANGLADESH)	-864	-648	-795	-19.1
BANGLADESH	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	54	0	-43	-1.0
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	54	0	-43	-1.0