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 Mar 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 19.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 19-मार्च-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 March 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-Mar-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)	47024	54098	47117	22157	2742	173138
Peak Shortage (MW)	1080	23	0	342	36	1481
Energy Met (MU)	1042	1302	1195	459	46	4044
Hydro Gen (MU)	100	41	109	34	9	293
Wind Gen (MU)	15	40	24	-	-	80
Solar Gen (MU)*	37.95	31.95	102.65	5.27	0.17	178
Energy Shortage (MU)	8.60	0.20	0.00	1.03	1.40	11.23
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50743	57532	57278	22770	2945	182997
Time Of Maximum Demand Met (From NLDC SCADA)	19:26	16:20	11:51	19:31	18:03	11:54

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	0.041	0.00	0.82	6.62	7.44	69.14	23.42

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	6208	0	129.5	59.3	-0.8	101	0.00
	Haryana	6648	0	142.2	84.9	-0.5	74	0.46
	Rajasthan	11687	0	232.7	59.4	-3.5	205	0.00
	Delhi	3705	0	73.5	56.0	-1.0	123	0.01
	UP	18506	0	340.2	119.9	-1.6	275	0.00
	Uttarakhand	1922	0	38.5	23.6	1.0	170	0.53
	HP	1671	0	31.8	24.3	2.8	582	0.00
	J&K(UT) & Ladakh(UT)	2661	400	50.7	43.7	0.5	404	7.60
	Chandigarh	181	0	3.4	3.3	0.1	32	0.00
WR	Chhattisgarh	4568	0	107.7	57.1	1.0	419	0.20
	Gujarat	17981	0	392.6	162.1	-0.2	439	0.00
	MP	10473	0	211.0	106.2	-3.4	843	0.00
	Maharashtra	24041	0	532.6	158.7	-2.6	519	0.00
	Goa	554	0	12.7	12.0	0.2	49	0.00
	DD	352	0	7.9	7.8	0.1	36	0.00
	DNH	861	0	18.9	19.0	-0.1	45	0.00
	AMNSIL	802	0	18.2	1.2	0.2	320	0.00
SR	Andhra Pradesh	10691	0	211.1	82.7	1.9	648	0.00
	Telangana	13562	0	272.9	150.0	1.8	1386	0.00
	Karnataka	14004	0	264.1	100.2	7.0	1024	0.00
	Kerala	4256	0	87.7	57.6	0.5	274	0.00
	Tamil Nadu	16097	0	351.0	220.1	1.0	584	0.00
	Puducherry	413	0	8.5	8.6	-0.1	21	0.00
ER	Bihar	5081	0	95.3	83.0	1.9	212	0.00
	DVC	3275	0	68.0	-61.4	-1.0	337	0.00
	Jharkhand	1354	0	26.7	18.4	-0.1	158	1.03
	Odisha	5175	0	101.1	27.3	-0.2	341	0.00
	West Bengal	8318	0	167.1	27.0	-1.6	487	0.00
	Sikkim	86	0	1.2	1.6	-0.4	35	0.00
NER	Arunachal Pradesh	131	4	2.1	2.2	-0.2	38	0.35
	Assam	1705	26	28.9	24.2	0.1	73	0.80
	Manipur	202	3	2.3	2.6	-0.3	18	0.01
	Meghalaya	345	0	5.3	3.3	0.0	53	0.22
	Mizoram	101	4	1.5	1.5	-0.1	19	0.01
	Nagaland	150	5	2.0	2.1	-0.2	19	0.01
	Tripura	252	3	4.2	3.3	-0.2	48	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.8	-15.7	-20.7
Day Peak (MW)	364.0	-692.0	-888.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	193.0	-251.0	197.6	-142.9	3.4	0.0
Actual(MU)	184.1	-260.9	203.5	-138.1	1.3	-10.0
O/D/U/D(MU)	-8.9	-9.8	5.9	4.8	-2.1	-10.1

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5071	14539	6342	968	772	27692	42
State Sector	12112	14012	8207	3917	11	38259	58
Total	17183	28551	14549	4885	783	65951	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	621	1385	640	594	17	3255	79
Lignite	25	8	40	0	0	73	2
Hydro	100	41	109	34	9	294	7
Nuclear	27	15	42	0	0	83	2
Gas, Naptha & Diesel	32	47	16	0	24	118	3
RES (Wind, Solar, Biomass & Others)	80	73	161	5	0	319	8
Total	884	1568	1007	633	51	4143	100

Share of RES in total generation (%)	9.01	4.64	16.01	0.83	0.34	7.70
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.35	8.23	30.95	6.19	18.95	16.80

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.045
Based on State Max Demands	1.082

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-Mar-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	671	0.0	9.6	-9.6
4	765 kV	SASARAM-FATEHPUR	1	0	286	0.0	3.9	-3.9
5	765 kV	GAYA-BALIA	1	0	529	0.0	8.9	-8.9
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	4.8	-4.8
7	400 kV	PUSAULI -ALLAHABAD	1	0	75	0.0	1.0	-1.0
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	41	598	0.0	8.3	-8.3
9	400 kV	PATNA-BALIA	4	0	1158	0.0	22.6	-22.6
10	400 kV	BIHARSHARIFF-BALIA	2	0	370	0.0	5.2	-5.2
11	400 kV	MOTIHARI-GORAKHPUR	2	11	131	0.0	0.6	-0.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	251	0.0	3.7	-3.7
13	220 kV	PUSAULI-SAHUPURI	1	29	92	0.0	0.8	-0.8
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	75.5	-75.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	860	140	9.8	0.0	9.8
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	687	766	0.3	0.0	0.3
3	765 kV	JHARSUGUDA-DURG	2	0	451	0.0	6.8	-6.8
4	400 kV	JHARSUGUDA-RAIGARH	4	8	384	0.0	4.5	-4.5
5	400 kV	RANCHI-SIPAT	2	152	271	0.0	1.1	-1.1
6	220 kV	BUDHIPADAR-RAIGARH	1	0	172	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	94	1	1.2	0.0	1.2
					ER-WR	11.3	15.5	-4.2
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	377	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2485	0.0	48.8	-48.8
3	765 kV	ANGUL-SRIKAKULAM	2	0	3011	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	268	671	0.0	3.8	-3.8
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	115.0	-115.0
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	226	105	1.6	0.0	1.6
2	400 kV	ALIPURDUAR-BONGAIGAON	2	377	171	2.8	0.0	2.8
3	220 kV	ALIPURDUAR-SALAKATI	2	63	29	0.4	0.0	0.4
					ER-NER	4.8	0.0	4.8
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	464	0	8.2	0.0	8.2
					NER-NR	8.2	0.0	8.2
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	3103	0.0	57.6	-57.6
2	HVDC	VINDHYACHAL B/B	-	242	0	4.5	0.0	4.5
3	HVDC	MUNDRA-MOHINDERGARH	2	0	982	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2264	0.0	33.0	-33.0
5	765 kV	PHAGI-GWALIOR	2	0	1283	0.0	20.3	-20.3
6	765 kV	JABALPUR-ORAI	2	0	881	0.0	28.7	-28.7
7	765 kV	GWALIOR-ORAI	1	601	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	1209	0.0	24.1	-24.1
9	765 kV	CHITORGARH-BANASKANTHA	2	1182	0	14.0	0.0	14.0
10	400 kV	ZERDA-KANKROLI	1	337	0	4.8	0.0	4.8
11	400 kV	ZERDA -BHINMAL	1	450	0	6.8	0.0	6.8
12	400 kV	VINDHYACHAL -RIHAND	1	985	0	22.6	0.0	22.6
13	400 kV	RAPP-SHUJALPUR	2	20	367	0.0	3.7	-3.7
14	220 kV	BHANPURA-RANPUR	1	14	78	0.6	0.0	0.6
15	220 kV	BHANPURA-MORAK	1	0	30	0.4	0.2	0.2
16	220 kV	MEHGAON-AURAIYA	1	130	0	0.1	0.6	-0.5
17	220 kV	MALANPUR-AURAIYA	1	82	26	0.0	1.4	-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	0.0	0.0
					WR-NR	65.2	193.9	-128.7
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	22.6	-22.6
2	HVDC	RAIGARH-PUGALUR	2	0	1513	0.0	44.4	-44.4
3	765 kV	SOLAPUR-RAICHUR	2	0	2304	0.0	33.2	-33.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3394	0.0	55.4	-55.4
5	400 kV	KOLHAPUR-KUDGI	2	1154	0	17.5	0.0	17.5
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	87	1.8	0.0	1.8
					WR-SR	19.3	155.5	-136.2

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)	153	0	125	3.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	169	86	99	2.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	20	0	-26	-0.6
	NER	132KV-GEYLEGPHU - SALAKATI	37	16	21	0.5
	NER	132kV Motanga-Rangia	-15	0	-8	-0.2
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-75	0	-75	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-324	-269	-324	-8.0
	ER	132KV-BIHAR - NEPAL	-293	-173	-242	-5.8
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-732	0	-729	-17.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	78	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-67	-1.6