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: 21st 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 20.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 20-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 20th 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:** **21-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)	47755	53208	47328	22454	2567	173312
Peak Shortage (MW)	940	0	0	161	195	1296
Energy Met (MU)	1056	1275	1186	470	46	4033
Hydro Gen (MU)	102	39	93	34	8	276
Wind Gen (MU)	5	57	26	-	-	87
Solar Gen (MU)*	47.12	34.47	104.95	5.39	0.16	192
Energy Shortage (MU)	10.06	0.10	0.00	0.48	2.50	13.14
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	50402	57096	55910	24326	2862	180972
Time Of Maximum Demand Met (From NLDC SCADA)	19:41	11:58	12:55	21:16	18:33	11:43

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	0.39	4.71	5.10	65.96	28.93

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	7109	0	148.7	65.2	0.1	261	1.10
	Haryana	6435	0	140.8	83.9	0.1	168	0.35
	Rajasthan	11745	0	236.2	66.6	-0.4	255	0.00
	Delhi	3423	0	69.9	54.1	-1.5	96	0.00
	UP	18593	0	338.8	119.4	-0.5	314	0.51
	Uttarakhand	1914	0	38.6	24.2	0.6	217	0.50
	HP	1646	0	31.1	25.4	-0.5	199	0.00
	J&K(UT) & Ladakh(UT)	2555	400	49.1	43.6	-1.3	195	7.60
	Chandigarh	181	0	3.3	3.3	0.0	30	0.00
WR	Chhattisgarh	4521	0	101.7	59.8	0.7	351	0.00
	Gujarat	18080	0	389.8	164.8	-1.1	572	0.00
	MP	10073	0	208.5	94.3	-1.0	734	0.00
	Maharashtra	23893	0	516.3	165.0	-5.0	490	0.00
	Goa	472	0	12.1	10.9	0.7	43	0.10
	DD	346	0	7.9	7.5	0.4	97	0.00
	DNH	869	0	20.1	20.3	-0.2	34	0.00
	AMNSIL	823	0	18.4	1.2	0.3	287	0.00
SR	Andhra Pradesh	10715	0	210.7	89.7	0.7	622	0.00
	Telangana	13413	0	270.4	153.1	1.2	578	0.00
	Karnataka	14001	0	260.6	100.2	5.4	1022	0.00
	Kerala	3934	0	85.5	58.1	0.6	284	0.00
	Tamil Nadu	15950	0	350.0	220.2	1.8	611	0.00
	Puducherry	401	0	8.5	8.9	-0.4	30	0.00
ER	Bihar	5231	0	95.4	83.4	2.1	284	0.00
	DVC	3487	0	70.6	-53.1	-0.5	244	0.00
	Jharkhand	1442	0	26.9	18.8	-0.2	184	0.48
	Odisha	5042	0	107.6	32.5	0.0	346	0.00
	West Bengal	9053	0	168.1	29.3	0.7	363	0.00
	Sikkim	80	0	1.1	1.3	-0.2	36	0.00
NER	Arunachal Pradesh	128	3	2.2	2.2	0.0	91	0.01
	Assam	1673	24	29.0	24.4	0.4	97	0.70
	Manipur	202	3	2.8	2.6	0.1	45	0.01
	Meghalaya	342	90	4.3	3.3	0.1	88	1.76
	Mizoram	111	4	1.6	1.3	0.1	41	0.01
	Nagaland	143	4	2.4	2.1	0.2	25	0.01
	Tripura	276	5	4.1	3.3	0.1	80	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.6	-14.1	-20.9
Day Peak (MW)	434.0	-674.0	-892.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	186.9	-287.2	219.3	-122.1	3.1	0.0
Actual(MU)	175.8	-298.8	231.0	-117.3	3.8	-5.4
O/D/U/D(MU)	-11.1	-11.6	11.7	4.8	0.7	-5.4

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5131	13728	6842	948	772	27421	41
State Sector	11547	15418	8477	4637	32	40111	59
Total	16678	29146	15319	5585	804	67531	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	640	1374	613	580	18	3225	78
Lignite	23	8	40	0	0	72	2
Hydro	102	39	93	34	8	276	7
Nuclear	27	15	42	0	0	83	2
Gas, Naptha & Diesel	30	51	16	0	23	120	3
RES (Wind, Solar, Biomass & Others)	80	92	166	5	0	344	8
Total	902	1580	970	620	49	4120	100

Share of RES in total generation (%)	8.86	5.84	17.10	0.87	0.33	8.34
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	23.09	9.27	30.96	6.39	16.76	17.05

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.053
Based on State Max Demands	1.096

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-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	6.2	-6.2
3	765 kV	GAYA-VARANASI	2	0	469	0.0	6.5	-6.5
4	765 kV	SASARAM-FATEHPUR	1	11	193	0.0	2.6	-2.6
5	765 kV	GAYA-BALIA	1	0	420	0.0	7.5	-7.5
6	400 kV	PUSAULI-VARANASI	1	0	233	0.0	5.1	-5.1
7	400 kV	PUSAULI -ALLAHABAD	1	0	59	0.0	0.9	-0.9
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	22	483	0.0	6.0	-6.0
9	400 kV	PATNA-BALIA	4	0	962	0.0	19.5	-19.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	263	0.0	3.5	-3.5
11	400 kV	MOTIHARI-GORAKHPUR	2	20	132	0.0	1.2	-1.2
12	400 kV	BIHARSHARIFF-VARANASI	2	0	161	0.0	1.9	-1.9
13	220 kV	PUSAULI-SAHUPURI	1	38	90	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	61.3	-61.0
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	971	0	14.7	0.0	14.7
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	608	671	0.0	0.7	-0.7
3	765 kV	JHARSUGUDA-DURG	2	0	454	0.0	5.9	-5.9
4	400 kV	JHARSUGUDA-RAIGARH	4	119	209	0.0	1.6	-1.6
5	400 kV	RANCHI-SIPAT	2	127	212	0.0	0.7	-0.7
6	220 kV	BUDHIPADAR-RAIGARH	1	0	160	0.0	3.0	-3.0
7	220 kV	BUDHIPADAR-KORBA	2	108	0	1.3	0.0	1.3
					ER-WR	16.0	11.9	4.1
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	2618	377	0.0	8.7	-8.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2472	0.0	48.5	-48.5
3	765 kV	ANGUL-SRIKAKULAM	2	0	3017	0.0	61.0	-61.0
4	400 kV	TALCHER-I/C	2	280	666	0.0	3.6	-3.6
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	118.2	-118.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	231	13	2.2	0.0	2.2
2	400 kV	ALIPURDUAR-BONGAIGAON	2	402	0	3.5	0.0	3.5
3	220 kV	ALIPURDUAR-SALAKATI	2	58	8	0.5	0.0	0.5
					ER-NER	6.3	0.0	6.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	464	0	11.1	0.0	11.1
					NER-NR	11.1	0.0	11.1
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	1502	0.0	71.2	-71.2
2	HVDC	VINDHYACHAL B/B	-	264	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1362	0.0	25.0	-25.0
4	765 kV	GWALIOR-AGRA	2	0	2253	0.0	31.4	-31.4
5	765 kV	PHAGI-GWALIOR	2	0	1106	0.0	16.9	-16.9
6	765 kV	JABALPUR-ORAI	2	0	811	0.0	21.3	-21.3
7	765 kV	GWALIOR-ORAI	1	523	0	10.4	0.0	10.4
8	765 kV	SATNA-ORAI	1	0	1263	0.0	23.9	-23.9
9	765 kV	CHITORGARH-BANASKANTHA	2	932	252	9.5	0.0	9.5
10	400 kV	ZERDA-KANKROLI	1	279	0	4.2	0.0	4.2
11	400 kV	ZERDA -BHINMAL	1	377	33	4.8	0.0	4.8
12	400 kV	VINDHYACHAL -RIHAND	1	976	0	22.2	0.0	22.2
13	400 kV	RAPP-SHUJALPUR	2	54	362	0.1	2.5	-2.4
14	220 kV	BHANPURA-RANPUR	1	22	62	0.4	0.1	0.4
15	220 kV	BHANPURA-MORAK	1	0	30	0.2	0.3	0.0
16	220 kV	MEHGAON-AURAIYA	1	122	0	0.0	0.6	-0.5
17	220 kV	MALANPUR-AURAIYA	1	79	13	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	0.0	0.0
					WR-NR	60.0	193.0	-133.0
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1023	0.0	20.5	-20.5
2	HVDC	RAIGARH-PUGALUR	2	0	1519	0.0	60.2	-60.2
3	765 kV	SOLAPUR-RAICHUR	2	0	2382	0.0	38.2	-38.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3411	0.0	59.9	-59.9
5	400 kV	KOLHAPUR-KUDGI	2	1054	0	15.2	0.0	15.2
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	121	2.3	0.0	2.3
					WR-SR	17.5	178.8	-161.3

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)	180	0	123	3.0
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	208	0	91	2.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	22	20	22	-0.5
	NER	132KV-GEYLEGPHU - SALAKATI	38	2	22	0.5
	NER	132kV Motanga-Rangia	-13	0	-4	-0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-76	0	-72	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-308	-241	-308	-7.6
	ER	132KV-BIHAR - NEPAL	-290	-101	-197	-4.7
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-737	-731	-735	-17.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	77	0	-67	-1.6
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	78	0	-67	-1.6