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: 10th 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 09.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 09-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 9th 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: 10-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)	47743	56711	47070	22022	2435	175981
Peak Shortage (MW)	1139	0	0	0	121	1260
Energy Met (MU)	1045	1345	1185	445	43	4062
Hydro Gen (MU)	113	57	92	35	9	305
Wind Gen (MU)	7	39	51	-	-	96
Solar Gen (MU)*	41.92	38.46	122.10	4.54	0.19	207
Energy Shortage (MU)	13.23	0.00	0.00	0.00	2.71	15.94
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	49702	59826	56162	22146	2517	184637
Time Of Maximum Demand Met (From NLDC SCADA)	10:38	11:19	09:59	18:46	18:02	11:19

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	0.045	0.00	0.82	10.66	11.48	74.88	13.64

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	6152	0	131.5	63.1	-0.3	117	0.00
	Haryana	6592	195	135.5	78.0	1.1	216	1.95
	Rajasthan	13018	0	259.1	96.4	1.7	401	0.61
	Delhi	3528	0	68.1	51.9	-0.9	155	0.00
	UP	17962	0	327.1	119.9	-0.3	383	0.31
	Uttarakhand	1896	0	38.3	20.4	1.8	225	0.23
	HP	1692	0	31.2	24.7	1.1	250	0.13
	J&K(UT) & Ladakh(UT)	2622	500	51.3	44.4	-0.2	311	10.00
	Chandigarh	187	0	3.3	3.2	0.1	32	0.00
WR	Chhattisgarh	4598	0	108.4	51.2	1.1	276	0.00
	Gujarat	17823	0	388.2	136.9	3.3	927	0.00
	MP	12547	0	251.6	134.6	-1.2	621	0.00
	Maharashtra	25203	0	537.6	170.7	-2.4	804	0.00
	Goa	560	0	12.0	11.5	-0.2	167	0.00
	DD	348	0	7.8	7.5	0.3	34	0.00
	DNH	880	0	20.3	20.1	0.2	53	0.00
	AMNSIL	835	0	18.7	1.4	0.0	275	0.00
SR	Andhra Pradesh	11041	0	213.0	76.9	1.9	713	0.00
	Telangana	13178	0	270.3	147.1	0.5	914	0.00
	Karnataka	13366	0	265.0	78.4	0.6	893	0.00
	Kerala	4001	0	84.8	56.0	-0.3	314	0.00
	Tamil Nadu	15862	0	343.3	203.3	-2.4	565	0.00
	Puducherry	384	0	8.3	8.3	0.0	37	0.00
ER	Bihar	4988	0	92.0	81.8	1.3	329	0.00
	DVC	3109	0	66.1	-49.5	-2.0	395	0.00
	Jharkhand	1454	0	27.5	19.3	-0.6	145	0.00
	Odisha	4914	0	94.2	16.6	1.6	423	0.00
	West Bengal	8143	0	163.5	26.3	-0.8	411	0.00
	Sikkim	99	0	1.3	1.7	-0.5	40	0.00
NER	Arunachal Pradesh	127	1	2.4	2.3	0.0	21	0.01
	Assam	1469	21	24.4	19.7	0.1	102	1.50
	Manipur	205	1	2.4	2.6	-0.1	20	0.01
	Meghalaya	347	0	5.4	4.1	0.0	64	1.17
	Mizoram	96	1	1.4	1.4	-0.3	18	0.01
	Nagaland	127	2	2.3	2.1	0.0	15	0.01
	Tripura	239	2	4.5	3.1	0.4	55	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.2	-14.9	-21.3
Day Peak (MW)	249.0	-715.0	-945.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	209.1	-256.2	188.0	-134.9	-5.9	0.0
Actual(MU)	210.5	-256.5	177.3	-133.3	-5.4	-7.3
O/D/U/D(MU)	1.4	-0.2	-10.7	1.7	0.6	-7.3

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5910	14708	7422	1548	772	30360	43
State Sector	13942	14708	6822	4607	11	40089	57
Total	19852	29415	14244	6155	783	70449	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	590	1418	631	575	15	3229	77
Lignite	28	7	39	0	0	74	2
Hydro	113	57	92	35	9	305	7
Nuclear	23	21	42	0	0	86	2
Gas, Naptha & Diesel	30	40	16	0	30	117	3
RES (Wind, Solar, Biomass & Others)	76	78	209	5	0	368	9
Total	859	1622	1029	615	54	4179	100

Share of RES in total generation (%)	8.80	4.81	20.33	0.74	0.35	8.80
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	24.56	9.65	33.32	6.44	16.56	18.16

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.031
Based on State Max Demands	1.081

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: 10-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	578	0.0	11.0	-11.0
4	765 kV	SASARAM-FATEHPUR	1	0	273	0.0	4.6	-4.6
5	765 kV	GAYA-BALIA	1	0	489	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	201	0.0	4.4	-4.4
7	400 kV	PUSAULI -ALLAHABAD	1	0	87	0.0	1.5	-1.5
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	578	0.0	9.9	-9.9
9	400 kV	PATNA-BALIA	4	0	1141	0.0	23.1	-23.1
10	400 kV	BIHARSHARIFF-BALIA	2	0	429	0.0	8.5	-8.5
11	400 kV	MOTIHARI-GORAKHPUR	2	0	334	0.0	5.6	-5.6
12	400 kV	BIHARSHARIFF-VARANASI	2	0	169	0.0	2.8	-2.8
13	220 kV	PUSAULI-SAHUPURI	1	66	91	0.0	0.5	-0.5
14	132 kV	SONE NAGAR-RIHAND	1	0	0	0.0	0.0	0.0
15	132 kV	GARWAH-RIHAND	1	20	0	0.4	0.0	0.4
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	0.4	86.7	-86.3
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1099	51	12.3	0.0	12.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	725	647	0.0	0.9	-0.9
3	765 kV	JHARSUGUDA-DURG	2	60	278	0.0	3.8	-3.8
4	400 kV	JHARSUGUDA-RAIGARH	4	0	435	0.0	4.9	-4.9
5	400 kV	RANCHI-SIPAT	2	156	254	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	186	0.0	3.1	-3.1
7	220 kV	BUDHIPADAR-KORBA	2	88	27	0.9	0.0	0.9
					ER-WR	13.2	14.0	-0.8
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	538	0.0	12.7	-12.7
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2475	0.0	47.3	-47.3
3	765 kV	ANGUL-SRIKAKULAM	2	0	2813	0.0	54.2	-54.2
4	400 kV	TALCHER-I/C	2	280	632	0.0	2.2	-2.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	114.1	-114.1
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	337	0	5.8	0.0	5.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	458	0	9.7	0.0	9.7
3	220 kV	ALIPURDUAR-SALAKATI	2	47	0	1.0	0.0	1.0
					ER-NER	16.4	0.0	16.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	476	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	1502	0.0	51.4	-51.4
2	HVDC	VINDHYACHAL B/B	-	241	0	5.7	0.0	5.7
3	HVDC	MUNDRA-MOHINDERGARH	2	0	1457	0.0	33.0	-33.0
4	765 kV	GWALIOR-AGRA	2	0	2068	0.0	30.2	-30.2
5	765 kV	PHAGI-GWALIOR	2	0	1282	0.0	22.5	-22.5
6	765 kV	JABALPUR-ORAI	2	0	955	0.0	27.7	-27.7
7	765 kV	GWALIOR-ORAI	1	847	0	16.1	0.0	16.1
8	765 kV	SATNA-ORAI	1	0	1585	0.0	29.2	-29.2
9	765 kV	CHITORGARH-BANASKANTHA	2	805	291	7.2	0.0	7.2
10	400 kV	ZERDA-KANKROLI	1	239	25	2.8	0.0	2.8
11	400 kV	ZERDA -BHINMAL	1	284	157	1.8	0.0	1.8
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	21.7	0.0	21.7
13	400 kV	RAPP-SHUJALPUR	2	0	478	0.0	5.6	-5.6
14	220 kV	BHANPURA-RANPUR	1	0	136	0.0	2.3	-2.3
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.7	-0.7
16	220 kV	MEHGAON-AURAIYA	1	133	0	2.0	0.0	2.0
17	220 kV	MALANPUR-AURAIYA	1	83	0	0.9	0.0	0.9
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	58.3	203.5	-145.2
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1016	0.0	14.9	-14.9
2	HVDC	RAIGARH-PUGALUR	2	0	1250	0.0	38.3	-38.3
3	765 kV	SOLAPUR-RAICHUR	2	116	1928	0.0	24.2	-24.2
4	765 kV	WARDHA-NIZAMABAD	2	0	3041	0.0	51.3	-51.3
5	400 kV	KOLHAPUR-KUDGI	2	1100	0	15.7	0.0	15.7
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	1.7	0.0	1.7
					WR-SR	17.5	128.6	-111.2

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)	100	90	100	2.4
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	128	84	90	2.2
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	36	0	-13	-0.3
	NER	132KV-GEYLEGPHU - SALAKATI	-33	-13	23	0.6
	NER	132kV Motanga-Rangia	18	7	-13	-0.3
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-76	0	-76	-1.8
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-327	-258	-326	-7.8
	ER	132KV-BIHAR - NEPAL	-312	-170	-219	-5.3
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-794	-741	-770	-18.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	75	0	-59	-1.4
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	76	0	-59	-1.4