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: 13th 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 12.03.2021.

महोदय/Dear Sir,

आई०ई०जी०सी०-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 12-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 12th 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: 13-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)	43679	53640	46664	21483	2590	168056
Peak Shortage (MW)	500	0	0	0	48	548
Energy Met (MU)	979	1286	1163	446	44	3918
Hydro Gen (MU)	107	39	78	32	9	265
Wind Gen (MU)	18	43	46	-	-	106
Solar Gen (MU)*	40.08	29.37	113.31	5.29	0.21	188
Energy Shortage (MU)	10.00	0.00	0.00	0.00	0.84	10.84
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	47191	56982	55730	21545	2807	179242
Time Of Maximum Demand Met (From NLDC SCADA)	10:19	11:21	10:46	19:01	18:03	10:45

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	0.031	0.00	0.00	2.18	2.18	72.29	25.53

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	5820	0	121.8	60.7	-1.7	218	0.00
	Haryana	5862	0	124.4	72.7	0.3	243	0.00
	Rajasthan	12463	0	242.0	68.9	-2.7	264	0.00
	Delhi	3623	0	69.0	53.4	-1.7	68	0.00
	UP	15718	0	301.6	106.7	-2.2	296	0.00
	Uttarakhand	1937	0	38.1	21.7	1.0	244	0.00
	HP	1677	0	31.3	25.2	1.0	261	0.00
	J&K(UT) & Ladakh(UT)	2586	500	47.0	41.2	-0.8	375	10.00
	Chandigarh	190	0	3.3	3.2	0.1	19	0.00
WR	Chhattisgarh	4526	0	107.3	60.2	-0.1	229	0.00
	Gujarat	17926	0	387.6	152.5	2.5	662	0.00
	MP	10956	0	205.0	110.8	-5.1	426	0.00
	Maharashtra	24331	0	529.5	160.0	-3.4	570	0.00
	Goa	532	0	11.6	11.5	-0.4	123	0.00
	DD	351	0	7.4	7.1	0.3	29	0.00
	DNH	850	0	19.0	19.0	0.0	51	0.00
	AMNSIL	793	0	18.2	1.2	0.2	270	0.00
SR	Andhra Pradesh	10643	0	206.7	85.8	0.5	481	0.00
	Telangana	13144	0	269.6	153.3	-0.5	563	0.00
	Karnataka	13620	0	262.2	106.1	2.4	825	0.00
	Kerala	3966	0	80.2	55.9	0.2	319	0.00
	Tamil Nadu	15499	0	336.0	202.5	-2.5	391	0.00
	Puducherry	394	0	8.3	8.6	-0.3	28	0.00
ER	Bihar	5144	0	97.4	82.6	3.4	508	0.00
	DVC	3144	0	66.8	-56.1	-0.8	308	0.00
	Jharkhand	1360	0	26.5	19.3	-1.2	102	0.00
	Odisha	4373	0	91.5	20.0	0.3	382	0.00
	West Bengal	8330	0	162.3	29.9	-1.1	315	0.00
	Sikkim	83	0	1.2	1.7	-0.5	14	0.00
NER	Arunachal Pradesh	126	4	2.1	2.0	0.0	30	0.01
	Assam	1511	26	26.1	21.3	0.6	89	0.80
	Manipur	203	3	2.5	2.6	-0.1	34	0.01
	Meghalaya	350	0	6.1	5.2	-0.1	238	0.00
	Mizoram	103	3	1.6	1.4	-0.1	24	0.01
	Nagaland	129	2	1.9	2.0	-0.2	27	0.01
	Tripura	257	2	4.3	3.9	-0.5	34	0.00

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

	Bhutan	Nepal	Bangladesh
Actual (MU)	4.5	-14.4	-20.7
Day Peak (MW)	316.0	-670.0	-902.0

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

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	170.8	-260.9	215.8	-124.5	-1.2	0.0
Actual(MU)	161.2	-276.4	230.3	-125.0	1.4	-8.5
O/D/U/D(MU)	-9.6	-15.4	14.4	-0.6	2.6	-8.5

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5455	15013	6372	1898	544	29282	44
State Sector	12562	13351	8597	3157	11	37678	56
Total	18017	28364	14969	5055	555	66959	100

G. Sourcewise generation (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	565	1383	572	571	10	3100	77
Lignite	25	10	44	0	0	79	2
Hydro	107	39	78	32	9	265	7
Nuclear	26	21	38	0	0	85	2
Gas, Naptha & Diesel	30	55	16	0	29	129	3
RES (Wind, Solar, Biomass & Others)	85	73	196	5	0	359	9
Total	837	1582	943	608	48	4017	100

Share of RES in total generation (%)	10.10	4.60	20.76	0.88	0.44	8.93
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	26.00	8.44	33.01	6.09	20.16	17.65

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.028
Based on State Max Demands	1.074

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: 13-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	6.1	-6.1
3	765 kV	GAYA-VARANASI	2	0	688	0.0	10.1	-10.1
4	765 kV	SASARAM-FATEHPUR	1	0	324	0.0	4.3	-4.3
5	765 kV	GAYA-BALIA	1	0	460	0.0	8.0	-8.0
6	400 kV	PUSAULI-VARANASI	1	0	204	0.0	2.6	-2.6
7	400 kV	PUSAULI -ALLAHABAD	1	0	261	0.0	3.4	-3.4
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	0	659	0.0	8.2	-8.2
9	400 kV	PATNA-BALIA	4	0	1063	0.0	20.5	-20.5
10	400 kV	BIHARSHARIFF-BALIA	2	0	391	0.0	6.8	-6.8
11	400 kV	MOTIHARI-GORAKHPUR	2	0	314	0.0	5.5	-5.5
12	400 kV	BIHARSHARIFF-VARANASI	2	5	238	0.0	2.0	-2.0
13	220 kV	PUSAULI-SAHUPURI	1	22	86	0.0	0.9	-0.9
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	78.2	-77.8
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1418	0	25.3	0.0	25.3
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	596	740	0.0	0.3	-0.3
3	765 kV	JHARSUGUDA-DURG	2	28	206	0.0	2.6	-2.6
4	400 kV	JHARSUGUDA-RAIGARH	4	0	411	0.0	5.7	-5.7
5	400 kV	RANCHI-SIPAT	2	109	269	0.0	1.4	-1.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	167	0.0	2.8	-2.8
7	220 kV	BUDHIPADAR-KORBA	2	98	4	1.1	0.0	1.1
					ER-WR	26.4	12.8	13.6
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	643	0.0	13.9	-13.9
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	2479	0.0	50.1	-50.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2772	0.0	57.6	-57.6
4	400 kV	TALCHER-I/C	2	0	687	0.0	5.2	-5.2
5	220 kV	BALIMELA-UPPER-SILERRU	1	1	0	0.0	0.0	0.0
					ER-SR	0.0	121.7	-121.7
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	278	0	3.0	0.0	3.0
2	400 kV	ALIPURDUAR-BONGAIGAON	2	487	0	5.3	0.0	5.3
3	220 kV	ALIPURDUAR-SALAKATI	2	89	0	1.0	0.0	1.0
					ER-NER	9.3	0.0	9.3
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	470	0	11.7	0.0	11.7
					NER-NR	11.7	0.0	11.7
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KURUKSHETRA	2	0	511	0.0	24.2	-24.2
2	HVDC	VINDHYACHAL B/B	-	241	0	6.0	0.0	6.0
3	HVDC	MUNDRA-MOHINDERGARH	2	0	982	0.0	24.2	-24.2
4	765 kV	GWALIOR-AGRA	2	0	2325	0.0	36.6	-36.6
5	765 kV	PHAGI-GWALIOR	2	0	1445	0.0	26.7	-26.7
6	765 kV	JABALPUR-ORAI	2	0	816	0.0	26.5	-26.5
7	765 kV	GWALIOR-ORAI	1	620	0	11.5	0.0	11.5
8	765 kV	SATNA-ORAI	1	0	1336	0.0	26.7	-26.7
9	765 kV	CHITORGARH-BANASKANTHA	2	995	0	14.0	0.0	14.0
10	400 kV	ZERDA-KANKROLI	1	259	0	4.4	0.0	4.4
11	400 kV	ZERDA -BHINMAL	1	352	0	5.4	0.0	5.4
12	400 kV	VINDHYACHAL -RIHAND	1	971	0	22.7	0.0	22.7
13	400 kV	RAPP-SHUJALPUR	2	0	447	0.0	5.0	-5.0
14	220 kV	BHANPURA-RANPUR	1	12	72	0.0	0.9	-0.9
15	220 kV	BHANPURA-MORAK	1	0	30	0.0	0.6	-0.6
16	220 kV	MEHGAON-AURAIYA	1	128	15	1.1	0.0	1.1
17	220 kV	MALANPUR-AURAIYA	1	84	37	0.4	0.0	0.4
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	65.5	171.4	-105.9
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1019	0.0	24.1	-24.1
2	HVDC	RAIGARH-PUGALUR	2	0	1515	0.0	56.0	-56.0
3	765 kV	SOLAPUR-RAICHUR	2	64	2393	0.0	33.6	-33.6
4	765 kV	WARDHA-NIZAMABAD	2	0	3326	0.0	57.7	-57.7
5	400 kV	KOLHAPUR-KUDGI	2	1091	0	13.1	0.0	13.1
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	86	1.8	0.0	1.8
					WR-SR	14.9	171.4	-156.6

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)	124	0	107	2.6
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP (6*170MW)	131	0	100	2.4
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	16	0	-20	-0.5
	NER	132KV-GEYLEGPHU - SALAKATI	33	12	19	0.5
	NER	132kV Motanga-Rangia	12	0	3	0.1
NEPAL	NR	132KV-TANAKPUR(NH) - MAHENDRANAGAR(PG)	-76	0	-71	-1.7
	ER	400KV-MUZAFFARPUR - DHALKEBAR DC	-321	-264	-321	-7.7
	ER	132KV-BIHAR - NEPAL	-273	-113	-208	-5.0
BANGLADESH	ER	BHERAMARA HVDC(BANGLADESH)	-744	-735	-738	-17.7
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-1	79	0	-63	-1.5
	NER	132KV-SURAJMANI NAGAR - COMILLA(BANGLADESH)-2	79	0	-63	-1.5