



भारत सरकार
Government of India
विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



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Renewable Energy Project Monitoring Division

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SUMMARY OF REPORT FOR THE MONTH OF DECEMBER 2020

Increased by 10.16% as compared to Nov 20.

Increased by 09.67% as compared to Dec 19

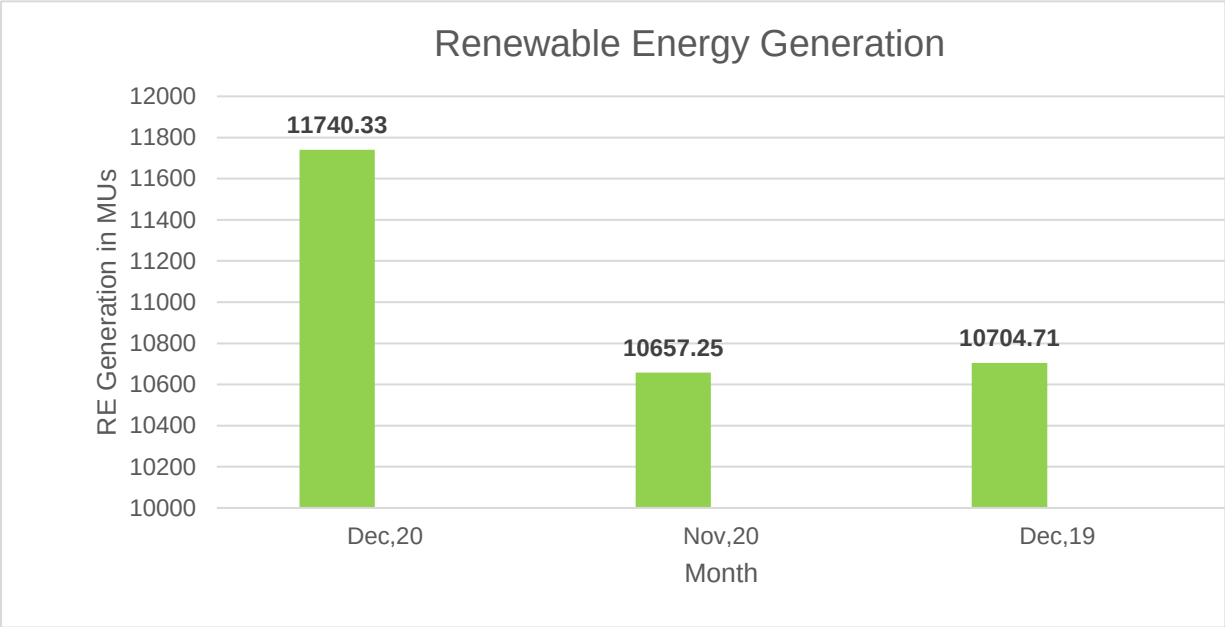


Figure 1: Renewable Energy Generation

Decreased by 01.14 % as compared to Nov 20.

Decreased by 49.97% as compared to Dec 19

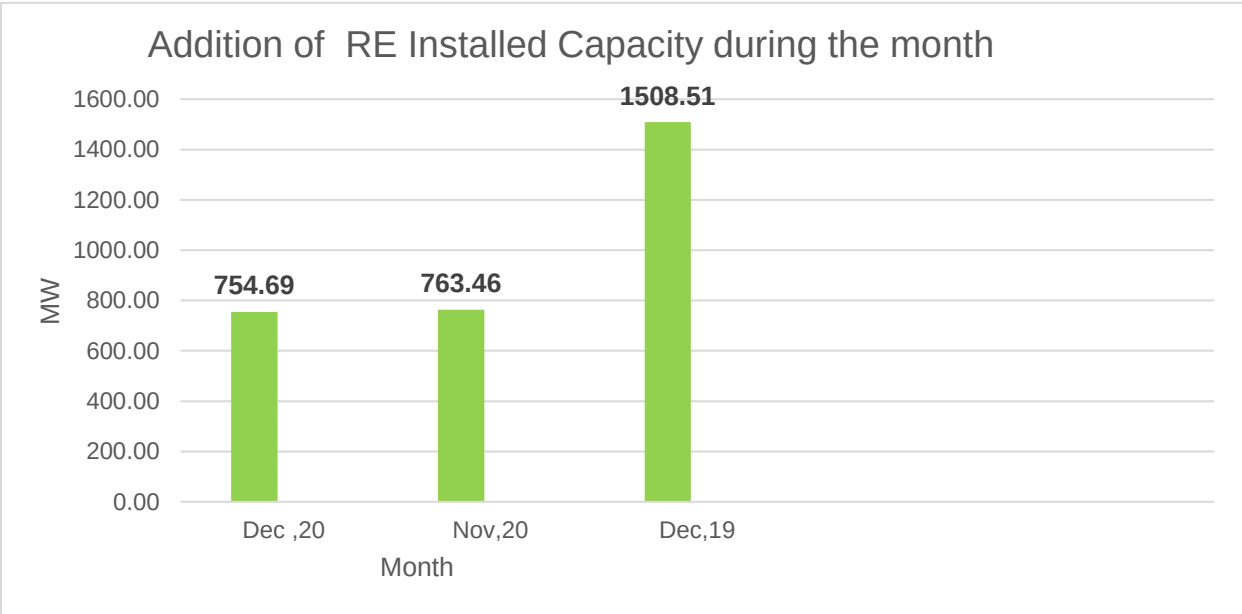


Figure 2 RE capacity added during the Month

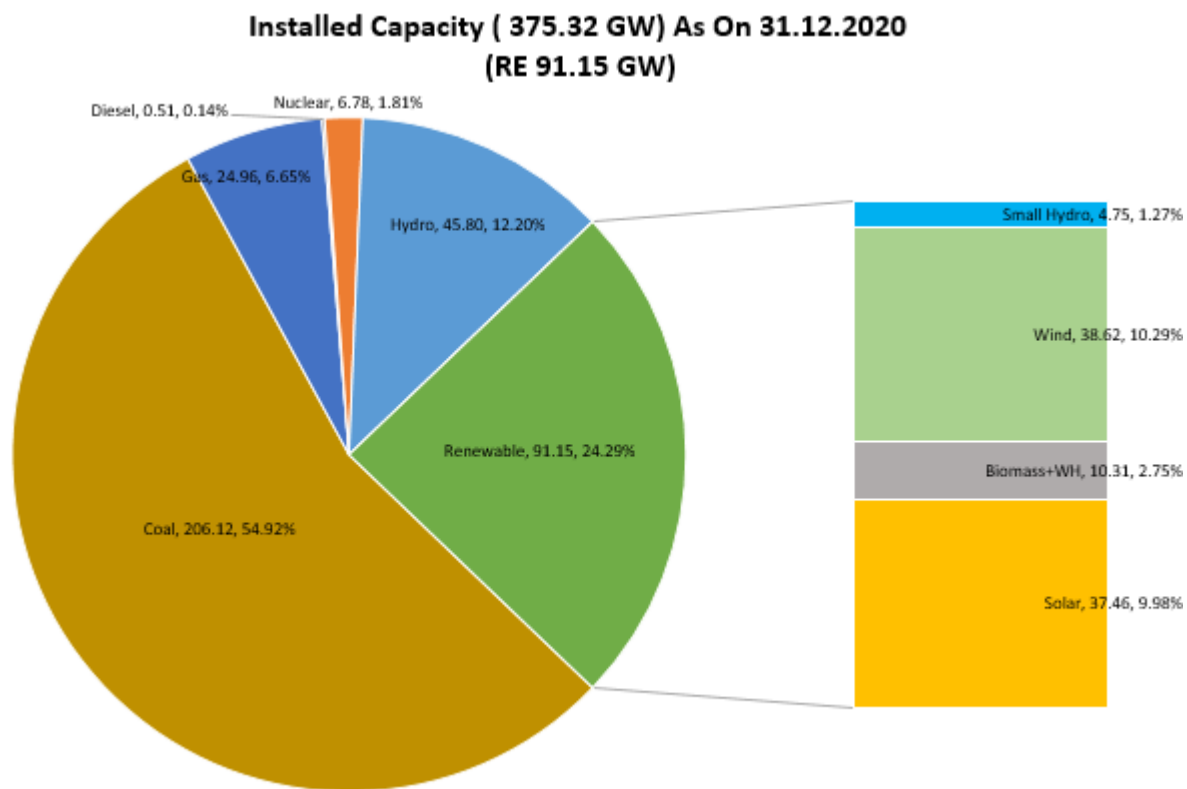


Figure 1 Installed Capacity in India as on 31.12.2020

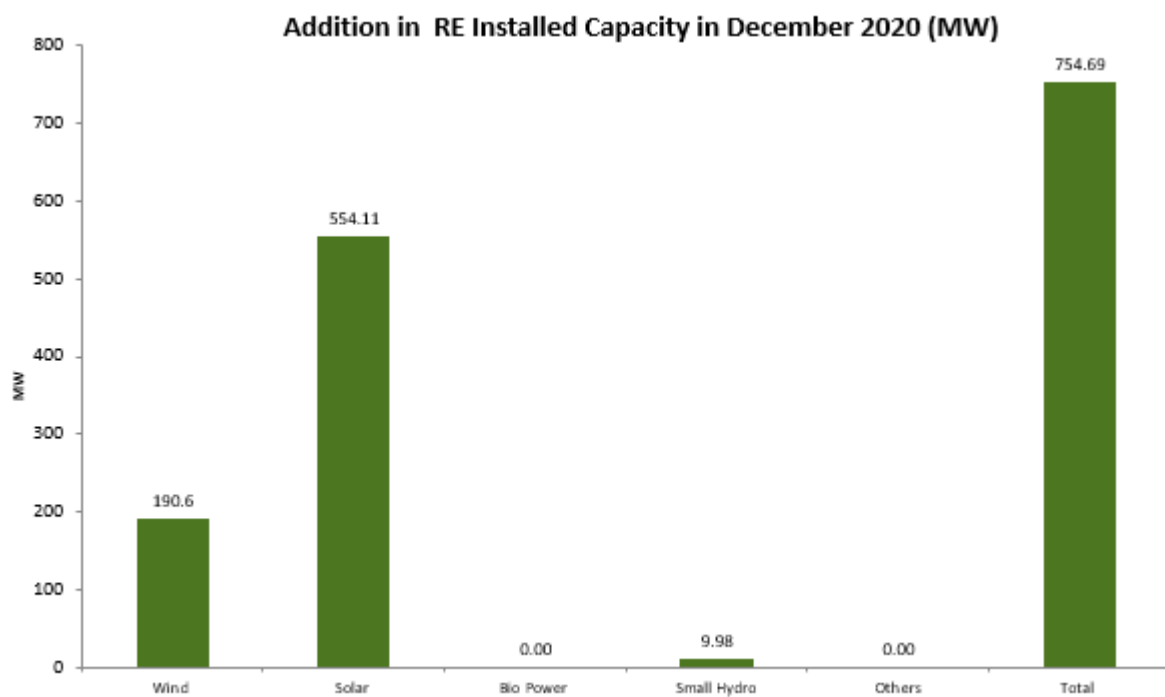


Figure 2: Source wise addition in RE Installed Capacity in Dec 20

HIGHLIGHTS OF RE GENERATION DURING DECEMBER 2020

1. RE generation increased by 09.67 % in December 2020 as compared to December 2019.
2. Wind Power generation during the month of December 2020 increased in Rajasthan, Maharashtra, Andhra Pradesh, Karnataka and Decreased in Gujarat, Madhya Pradesh and Tamil Nadu as compared to December 2019.
3. Daily wind generation decreased by 03.37 % as compared to December 2019 and increased by 11.73 % as compared to November 2020.
4. Solar Power generation during the month of December 2020 increased in Punjab, Uttar Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Maharashtra, Andhra Pradesh, Karnataka, Kerala, Telangana, Tamil Nadu and Orissa as compared to December 2019.
5. Daily solar generation increased by 20.88 % as compared to December 2019 and increased by 00.07% as compared to November 2020.
6. In West Bengal Generation from co-generation plants, which was earlier included under Bagasse is now being considered under others (Waste to energy) category. Therefore, the Overall Generation through Bagasse has been reduced and Generation through Others (Waste to Energy) has been increased as compared to last year.

ALL INDIA SUMMARY OF RENEWABLE ENERGY GENERATION

Table 1 All India Summary of Renewable Energy Generation

Source	Installed Capacity (MW) as on 31.12.2020 (as per MNRE)	RE Generation (MU) December' 2020	RE Generation (MU) December '2019	% of Last Year (2/3)	RE Generation (MU) April'2020-December ' 2020	RE Generation (MU) April'2019-December ' 2019	% Of Last Year (5/6)
	1	2	3	4	5	6	7
Wind	38624.15	3815.71	3948.74	96.63	50182.97	54401.94	92.24
Solar	37464.64	4748.55	3928.39	120.88	43346.79	34794.42	124.58
Biomass	10145.92	323.65	239.09	135.37	2537.65	2073.84	122.36
Bagasse		1986.96	1857.18	106.99	5960.38	5834.23	102.16
Small Hydro	4750.46	698.28	701.69	99.51	8768.55	7692.99	113.98
Others	168.64	167.19	29.61	564.56	1121.39	276.31	405.85
Total	91153.81	11740.33	10704.71	109.67	111917.72	105073.73	106.51

Additional RE generation in December 20 as compared to December 19

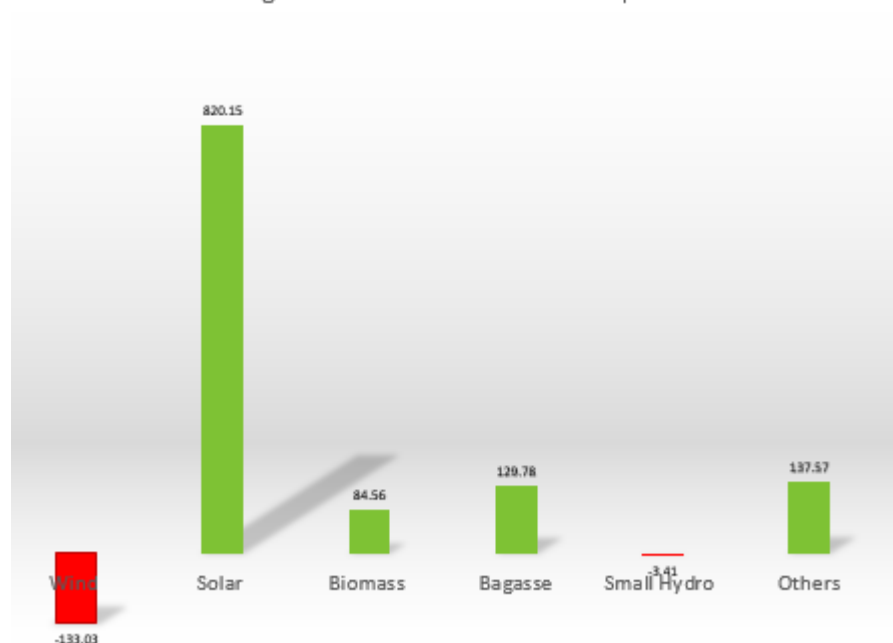


Figure 3 Additional RE Generation in Dec 20 compared to Dec 19

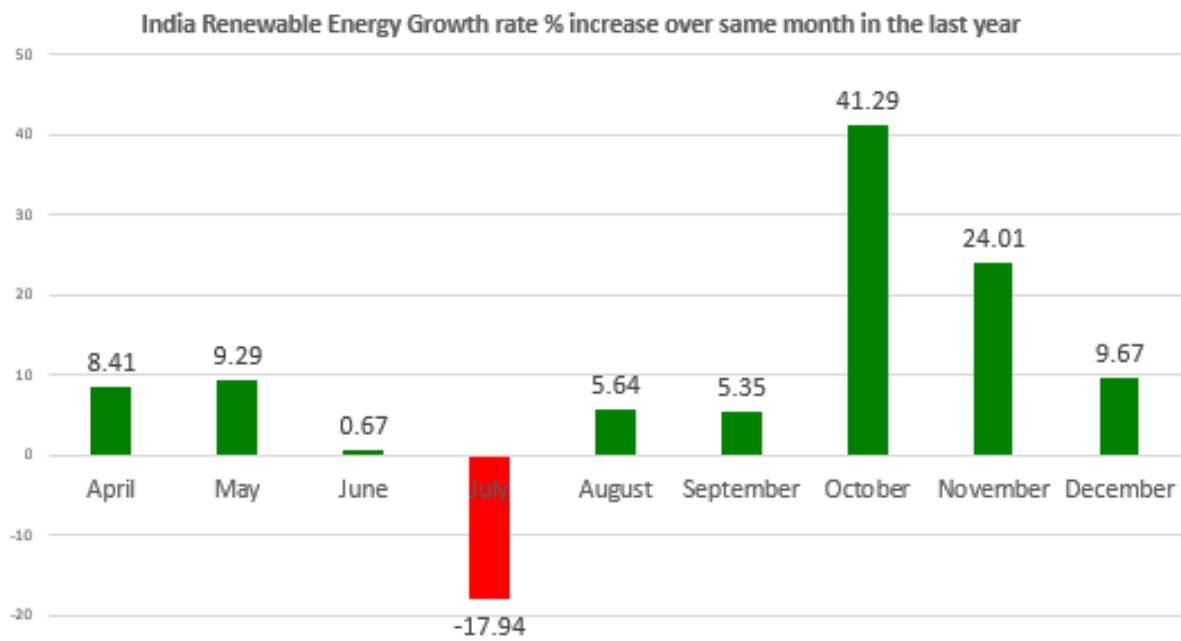
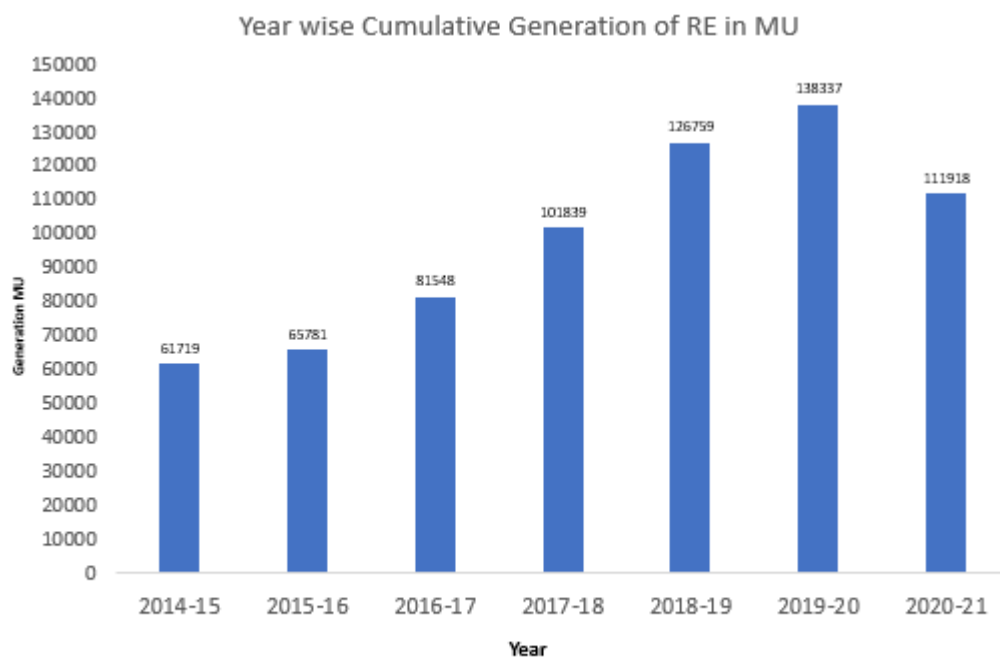


Figure 4 Month Wise Growth of RE Generation in 2020 compared to 2019



* 2020-21 RE Generation (Upto December 2020)

Figure 5 Year Wise RE Generation

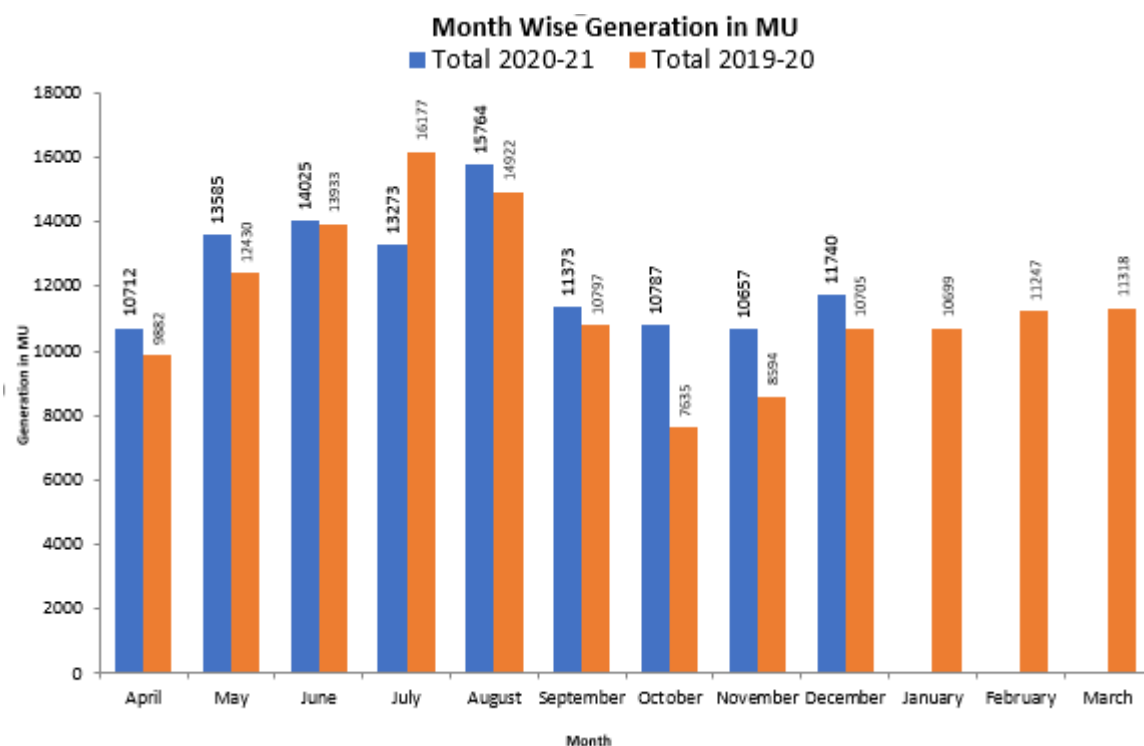


Figure 6 comparison of Month Wise RE Generation in year 2020-21 & in year 2019-20

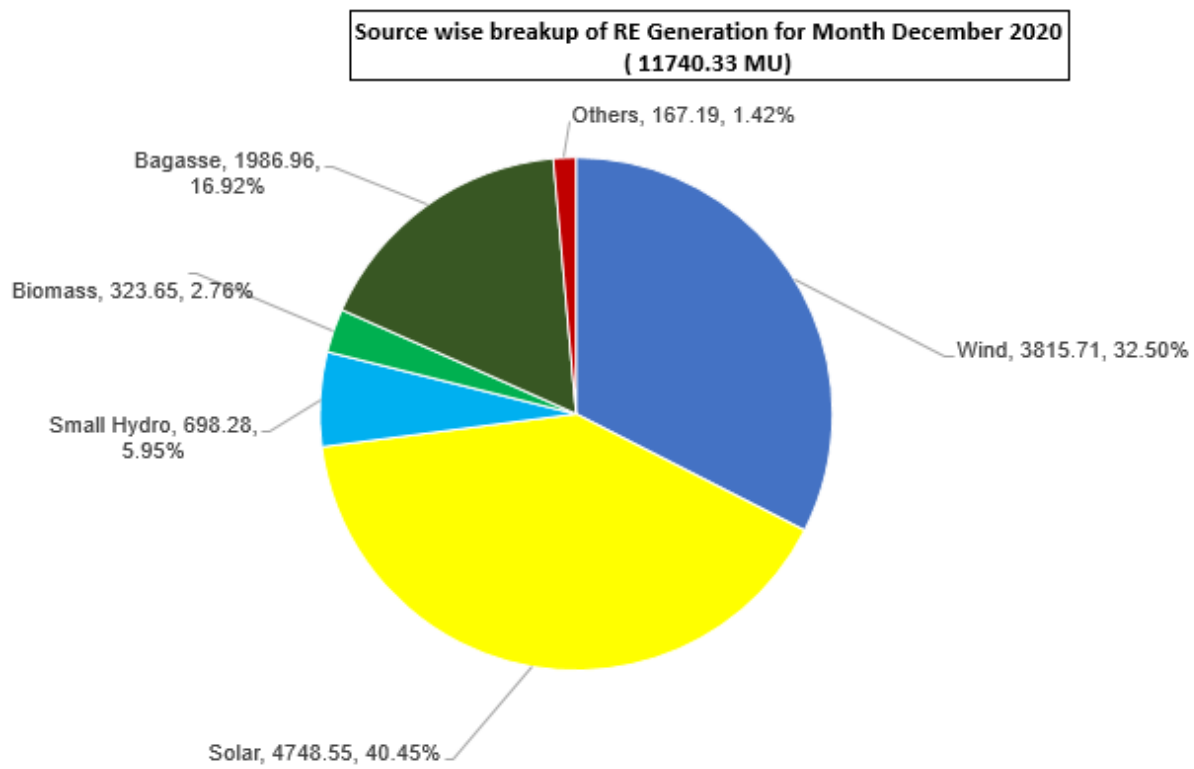


Figure 7 Source wise breakup of RE Generation in the month of Dec-20

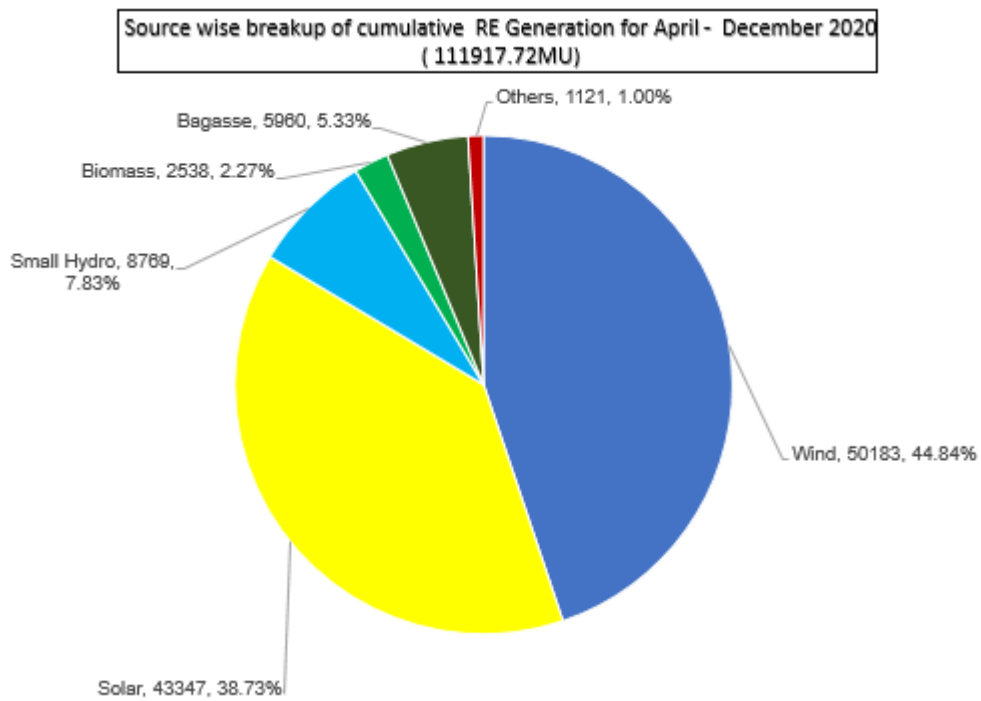


Figure 10 Source wise breakup of Cumulative RE Generation (April-20 – Dec-20)

Monthly Energy Generation (115.43 BU) December 2020

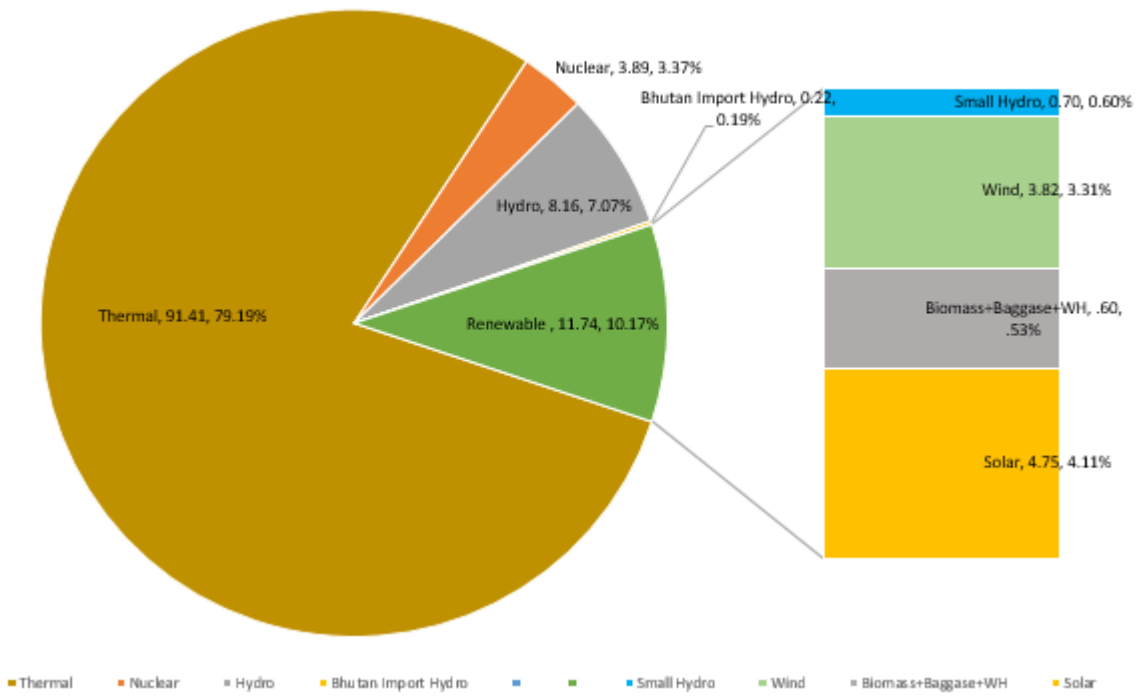


Figure 11 Total Energy Generation in India and Share of RE in the month of Dec-20

Cumulative Energy Generation (1017.84BU) April - December 2020

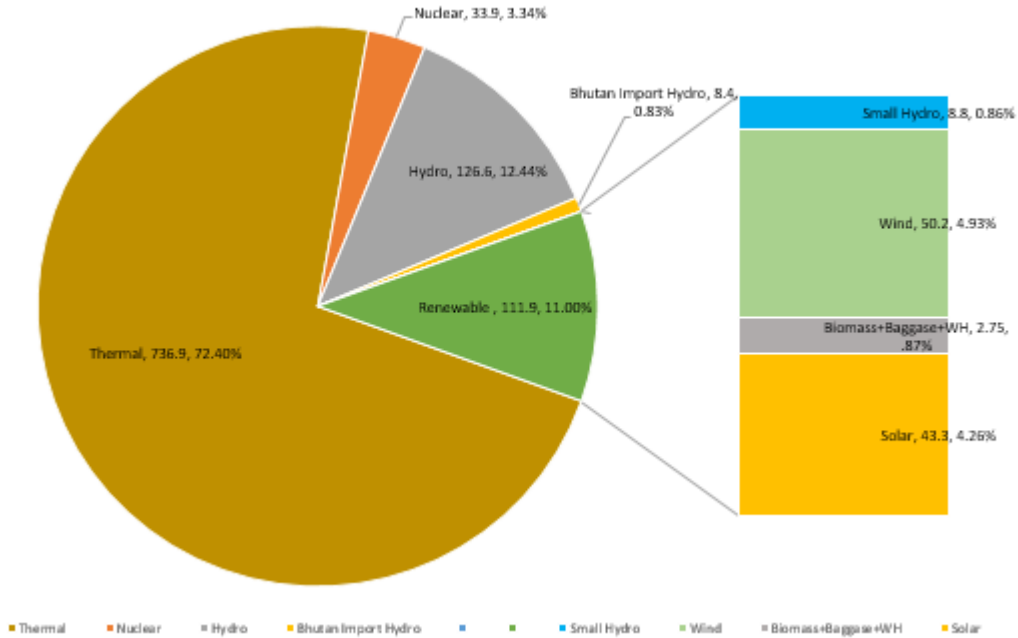


Figure 12 Cumulative Total Energy Generation in India and Share of RE (Apr-20 – Dec-20)

Table 2 State Wise Renewable Energy Generation

Renewable Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.29	1.78	6.57	10.04
Delhi	26.72	29.28	329.90	335.90
Haryana	73.44	76.32	529.75	535.09
HP	57.40	86.53	1981.56	1827.27
J & K	18.13	18.23	373.28	376.62
Ladakh	0.00	0.00	0.00	0.00
Punjab	242.22	181.39	2177.96	2006.86
Rajasthan	1281.19	1104.36	12652.29	10543.04
Uttar Pradesh	746.61	706.54	3388.06	2984.46
Uttarakhand	109.85	82.16	1027.35	909.80
Northern Region	2555.86	2286.59	22466.72	19529.07
Chhattisgarh	143.48	85.49	1131.96	800.46
Gujarat	1535.21	1746.10	13526.60	13366.03
Madhya Pradesh	590.85	621.76	6465.47	6219.74
Maharashtra	1398.24	1062.26	9971.78	10618.24
Dadra and Nagar Haveli	0.38	0.47	3.99	4.38
Daman & Diu	3.80	2.23	26.55	15.59
Goa	0.14	0.14	1.06	0.40
Western Region	3672.09	3518.45	31127.42	31024.84
Andhra Pradesh	1016.13	683.54	10626.31	11111.19
Telangana	652.79	534.73	5004.51	4875.52
Karnataka	2530.05	2348.83	21316.37	19080.32
Kerala	84.54	67.14	892.87	651.18
Tamil Nadu	970.70	1027.32	18238.43	16532.14
Lakshadweep	0.03	0.05	0.36	0.47
Puducherry	0.37	0.37	3.33	3.03
Southern Region	5254.61	4661.98	56082.18	52253.85
Andaman Nicobar	2.95	1.80	30.63	13.35
Bihar	13.69	45.56	185.54	217.89
Jharkhand	1.36	1.22	12.36	12.22
Orissa	61.75	53.11	668.33	608.20
Sikkim	5.41	6.92	44.12	50.96
West Bengal	148.22	86.47	1113.54	1130.34
DVC	2.59	0.01	8.20	0.32
Eastern Region	235.98	195.08	2062.72	2033.27
Arunachal Pradesh	0.17	0.22	1.53	1.60
Assam	5.23	18.49	31.85	52.74
Manipur	0.97	1.24	5.86	2.97
Meghalaya	6.51	9.66	41.26	50.65
Mizoram	0.60	4.11	30.76	40.66
Nagaland	6.18	6.14	57.89	64.57
Tripura	2.15	2.74	9.52	19.50
North Eastern Region	21.80	42.61	178.67	232.69
All India Total	11740.33	10704.71	111917.72	105073.73

Table 3 State Wise Wind Power Generation

Wind Power Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	0.00	0.00	0.00	0.00
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	0.00	0.00	0.00	16.90
Rajasthan	446.23	408.90	4606.50	5322.79
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	446.23	408.90	4606.50	5339.69
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	1100.66	1384.15	10099.92	12012.99
Madhya Pradesh	214.60	298.80	3115.38	3853.83
Maharashtra	357.38	304.39	5560.05	7331.82
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	1672.64	1987.34	18775.35	23198.64
Andhra Pradesh	390.83	242.02	5389.21	6876.01
Telangana	17.67	20.46	174.81	203.79
Karnataka	801.90	682.61	7949.53	9410.43
Kerala	8.03	9.83	110.78	109.33
Tamil Nadu	478.42	597.59	13175.79	13158.13
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	1696.85	1552.51	26800.12	29757.69
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	54.66
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	0.00	0.00	0.00	54.66
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	1.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	1.00	0.00
All India Total	3815.71	3948.74	50182.97	54401.94

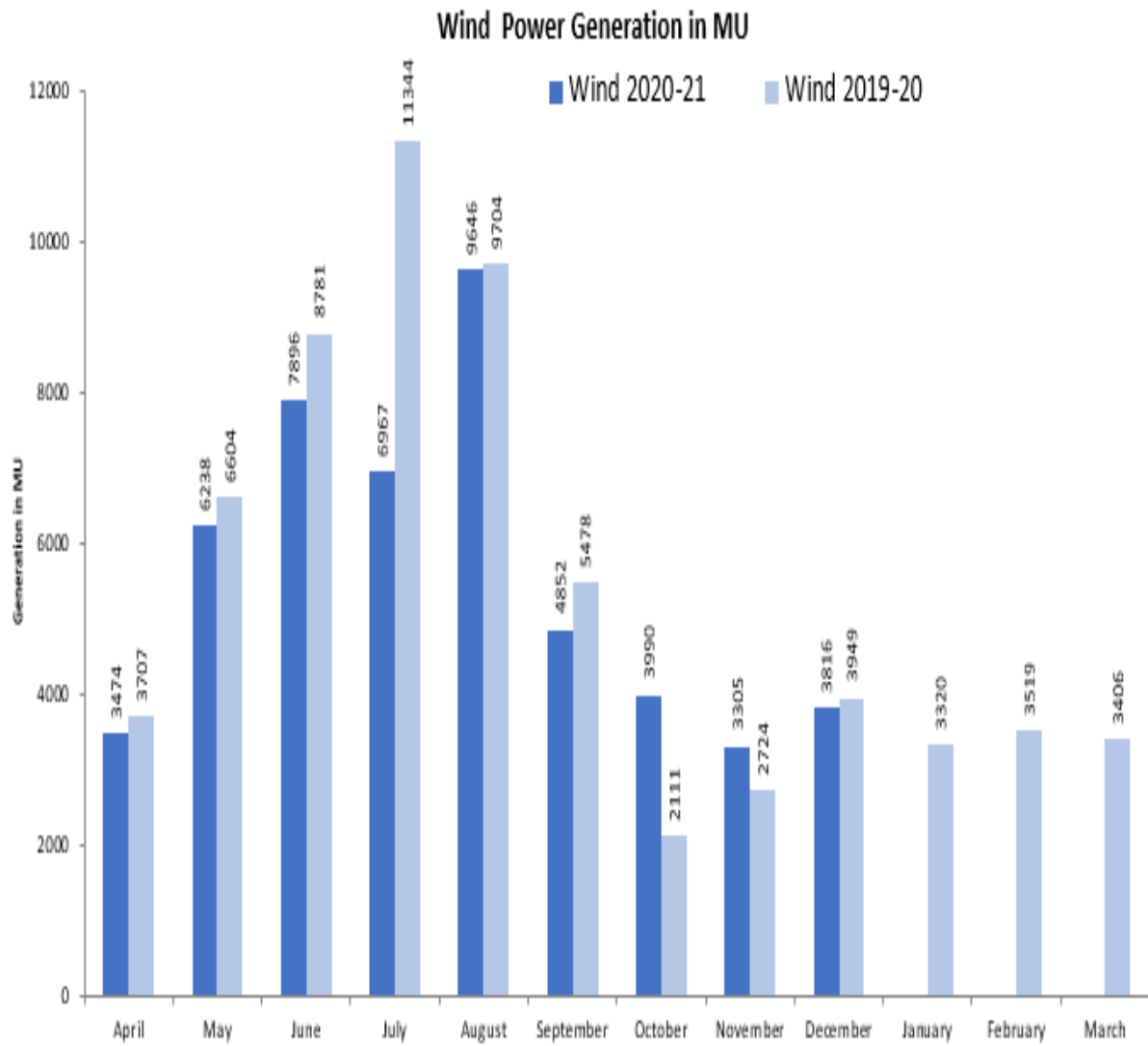


Figure 13 Monthly Wind Power Generation (2020-21 Up to Dec-20)

Table 4 State Wise Solar Power Generation

Solar Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.29	1.78	6.57	10.04
Delhi	12.22	7.09	150.88	109.68
Haryana	9.34	14.77	65.71	97.35
HP	3.06	2.03	27.76	4.84
J & K	1.23	0.00	5.37	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	81.52	55.39	1050.93	1046.08
Rajasthan	797.88	657.74	7728.53	5342.92
Uttar Pradesh	128.05	93.35	1250.53	1025.95
Uttarakhand	25.63	19.24	263.28	257.21
Northern Region	1059.22	851.38	10549.54	7894.08
Chhattisgarh	33.28	27.81	267.81	233.34
Gujarat	408.32	328.26	3207.52	2505.06
Madhya Pradesh	322.23	269.85	3074.14	2429.78
Maharashtra	224.35	174.96	1849.72	1692.42
Dadra and Nagar Haveli	0.38	0.47	3.99	4.38
Daman & Diu	2.58	2.23	19.32	15.59
Goa	0.14	0.14	1.06	0.40
Western Region	991.28	803.72	8423.56	6880.97
Andhra Pradesh	555.55	375.45	4835.82	4124.62
Telangana	585.99	471.75	4586.03	4512.98
Karnataka	1060.68	995.77	9771.25	7392.64
Kerala	24.99	10.69	194.24	98.47
Tamil Nadu	403.76	374.78	4436.47	3430.24
Lakshadweep	0.03	0.05	0.36	0.47
Puducherry	0.37	0.37	3.33	3.04
Southern Region	2631.37	2228.86	23827.50	19562.45
Andaman Nicobar	1.97	0.75	17.99	8.97
Bihar	11.55	10.79	125.98	119.46
Jharkhand	1.36	1.22	12.36	12.22
Orissa	44.27	25.79	326.04	259.46
Sikkim	0.00	0.00	0.00	0.00
West Bengal	5.07	4.76	47.78	46.67
DVC	0.006	0.005	0.023	0.04
Eastern Region	64.23	43.31	530.17	446.83
Arunachal Pradesh	0.12	0.18	1.13	1.10
Assam	0.57	0.68	4.18	4.59
Manipur	0.97	0.24	5.86	1.68
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.18	0.03	0.36	0.35
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.61	0.02	4.50	2.37
North Eastern Region	2.45	1.13	16.02	10.09
All India Total	4748.55	3928.39	43346.79	34794.42

Solar Power Generation in MU

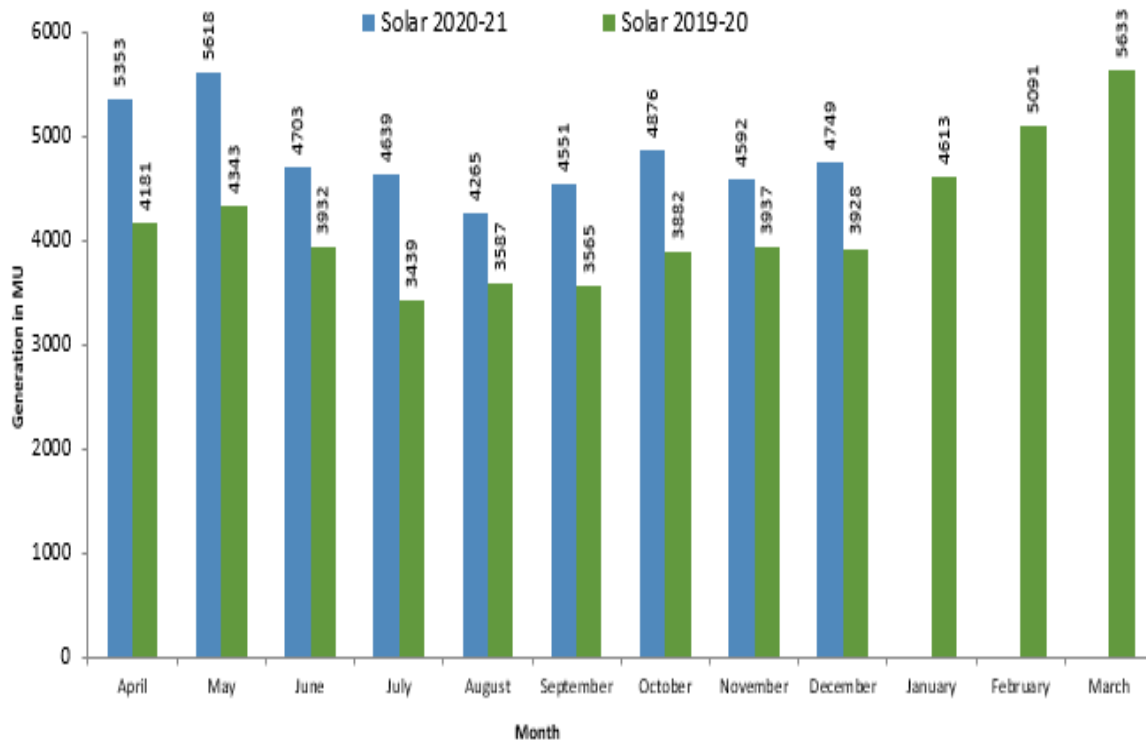


Figure 14 Monthly Solar Power Generation (2020-21 Up to Dec-20)

Table 5 State Wise Biomass Power Generation

Biomass Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	16.08	14.36	132.94	144.87
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	55.52	39.01	436.98	275.05
Rajasthan	35.14	36.70	311.74	283.79
Uttar Pradesh	24.56	10.22	92.45	63.10
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	131.30	100.28	974.11	766.80
Chhattisgarh	100.58	52.61	733.99	488.03
Gujarat	0.00	10.74	43.14	70.23
Madhya Pradesh	0.03	0.12	0.32	1.36
Maharashtra	28.31	33.43	248.56	297.42
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	1.21	0.00	7.24	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	130.14	96.90	1033.24	857.05
Andhra Pradesh	11.80	8.69	100.13	105.78
Telangana	14.76	6.62	122.80	86.53
Karnataka	20.42	11.76	159.26	116.71
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	13.09	8.97	109.12	84.60
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	60.07	36.04	491.31	393.61
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	2.14	2.09	14.88	13.10
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	3.78	24.10	43.28
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	2.14	5.87	38.98	56.38
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	323.65	239.09	2537.65	2073.84

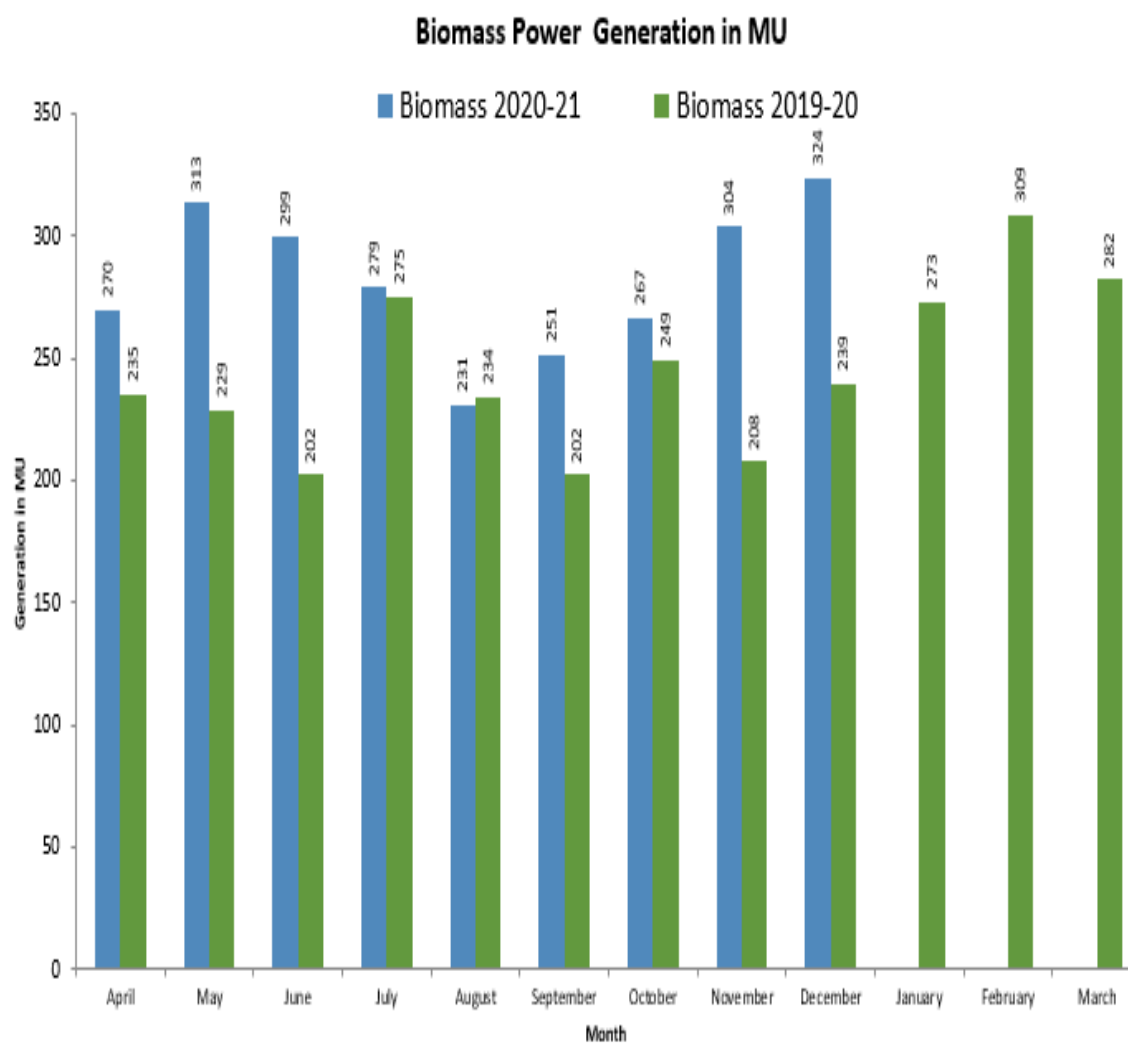


Figure 15 Monthly Biomass Power Generation (2020-21 Up to Dec-20)

Table 6 State Wise Bagasse Power Generation

Bagasse Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	22.76	24.03	78.72	40.09
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	45.78	34.28	92.22	130.70
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	577.54	600.23	1936.70	1873.19
Uttarakhand	0.00	20.37	29.23	43.01
Northern Region	646.08	678.91	2136.86	2086.99
Chhattisgarh	3.44	0.00	8.52	0.00
Gujarat	3.63	3.77	11.30	7.84
Madhya Pradesh	19.73	22.20	25.74	34.16
Maharashtra	734.56	499.14	1725.89	1121.55
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	761.35	525.11	1771.45	1163.55
Andhra Pradesh	9.94	7.76	34.55	33.14
Telangana	22.61	27.86	23.83	45.09
Karnataka	502.61	494.48	1475.17	1164.30
Kerala	4.02	1.36	34.54	11.03
Tamil Nadu	40.35	12.16	333.77	279.04
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	579.53	543.62	1901.86	1532.60
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	31.99	1.48	73.90
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	77.55	148.73	977.19
DVC	0.00	0.00	0.00	0.00
Eastern Region	0.00	109.54	150.21	1051.08
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	1986.96	1857.18	5960.38	5834.23

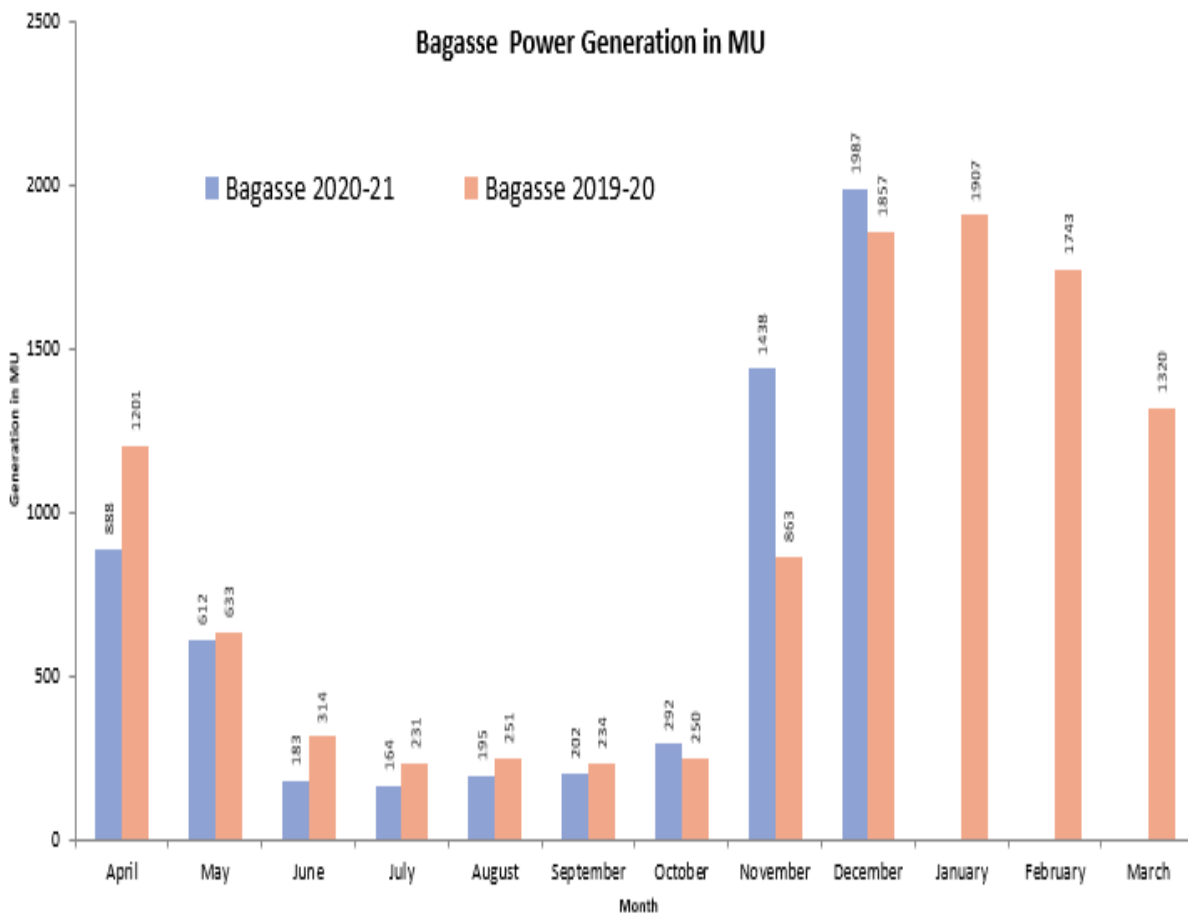


Figure 16 Monthly Bagasse Power Generation (2020-21 Up to Dec-20)

Table 7 State Wise Small Hydro Generation

Small Hydro Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	25.26	23.16	252.38	252.78
HP	54.34	84.50	1953.80	1822.43
J & K	16.90	18.23	367.91	376.62
Ladakh	0.00	0.00	0.00	0.00
Punjab	59.36	52.68	597.76	537.90
Rajasthan	1.95	1.02	5.52	2.44
Uttar Pradesh	16.46	2.75	108.38	22.24
Uttarakhand	84.22	42.55	734.84	609.58
Northern Region	258.49	224.90	4020.60	3623.98
Chhattisgarh	6.18	5.08	121.64	79.09
Gujarat	22.60	19.17	154.12	137.98
Madhya Pradesh	30.70	27.94	223.26	180.83
Maharashtra	53.64	50.26	587.50	478.69
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	113.11	102.45	1086.52	876.58
Andhra Pradesh	41.60	48.83	230.24	208.25
Telangana	7.42	4.38	47.66	38.52
Karnataka	144.44	164.22	1961.17	1678.85
Kerala	47.50	45.26	553.31	442.19
Tamil Nadu	35.08	33.83	183.27	177.72
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	276.04	296.52	2975.65	2545.52
Andaman Nicobar	0.99	1.05	12.65	4.37
Bihar	0.00	0.69	43.20	11.44
Jharkhand	0.00	0.00	0.00	0.00
Orissa	17.48	23.54	318.19	250.79
Sikkim	5.41	6.92	44.12	50.96
West Bengal	4.83	4.16	97.79	106.48
DVC	2.59	0.00	8.18	0.27
Eastern Region	31.29	36.36	524.12	424.32
Arunachal Pradesh	0.05	0.04	0.41	0.50
Assam	4.66	17.82	27.67	48.15
Manipur	0.00	1.00	0.00	1.29
Meghalaya	6.51	9.66	41.26	50.65
Mizoram	0.42	4.09	30.40	40.30
Nagaland	6.18	6.14	56.89	64.57
Tripura	1.54	2.72	5.02	17.12
North Eastern Region	19.35	41.47	161.66	222.58
All India Total	698.28	701.69	8768.55	7692.99

Small Hydro Power Generation in MU

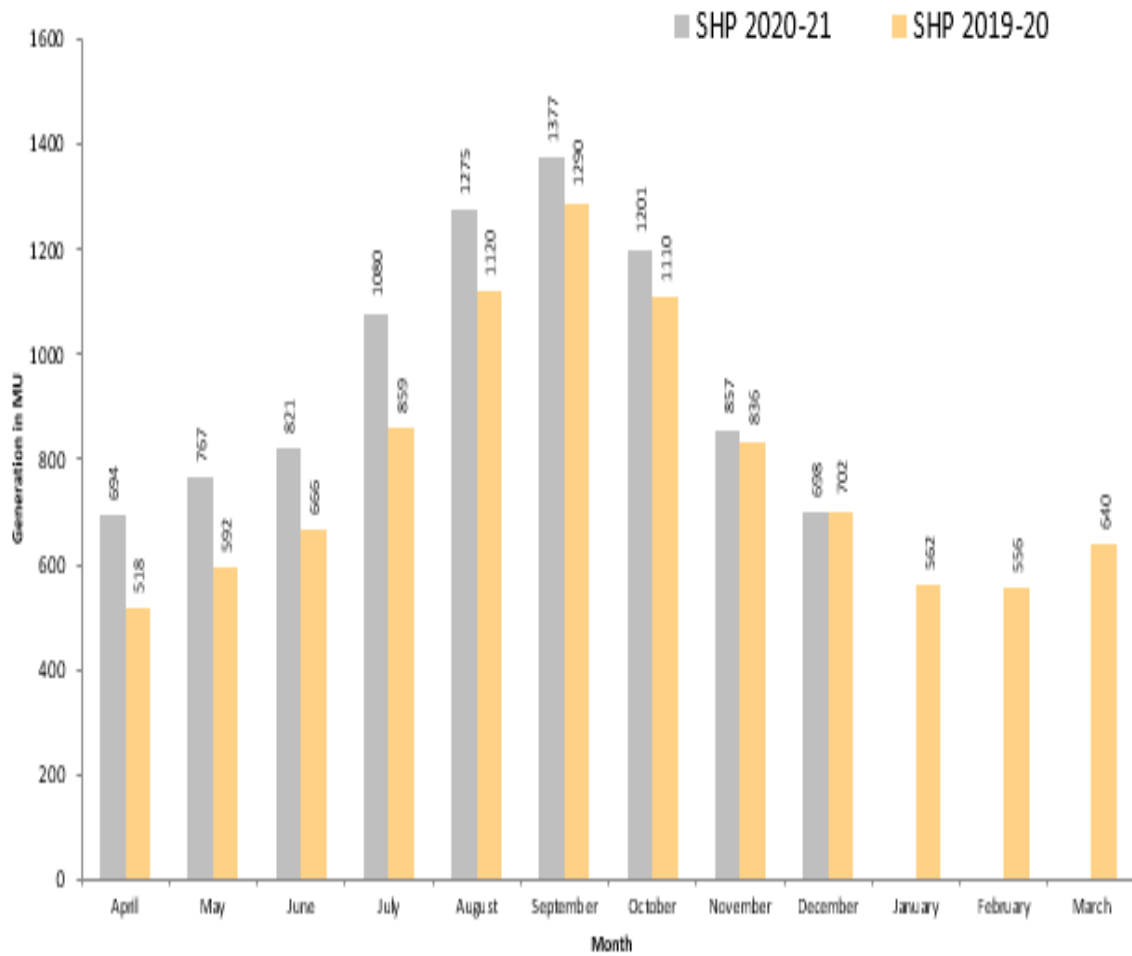


Figure 17 Monthly Small Hydro Power Generation (2020-21 Up to Dec-20)

Table 8 State Wise Other RE sources (Waste Heat etc) Power Generation

Other RE sources Energy Generation (State Wise) for the month of December 2020				
State	Dec'2020	Dec'2019	April'2020- Dec'2020	April'2019- Dec'2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	14.51	22.19	179.02	226.24
Haryana	0.00	0.00	0.00	0.00
HP	0.00	0.00	0.00	0.00
J & K	0.00	0.00	0.00	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	0.04	0.03	0.08	0.22
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	14.55	22.22	179.10	226.46
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	0.00	10.61	16.07
Madhya Pradesh	3.56	2.85	26.64	18.57
Maharashtra	0.00	0.09	0.05	0.72
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	0.00	0.00	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	3.56	2.94	37.30	35.36
Andhra Pradesh	6.41	0.79	36.36	5.41
Telangana	4.35	3.66	49.38	9.07
Karnataka	0.00	0.00	0.00	0.00
Kerala	0.00	0.00	0.01	0.00
Tamil Nadu	0.00	0.00	0.00	0.00
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	10.76	4.45	85.74	14.48
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	0.00	0.00	0.00
Sikkim	0.00	0.00	0.00	0.00
West Bengal	138.32	0.00	819.25	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	138.32	0.00	819.25	0.00
Arunachal Pradesh	0.00	0.00	0.00	0.00
Assam	0.00	0.00	0.00	0.00
Manipur	0.00	0.00	0.00	0.00
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.00	0.00	0.00	0.00
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.00	0.00	0.00	0.00
North Eastern Region	0.00	0.00	0.00	0.00
All India Total	167.19	29.61	1121.39	276.31

Power Generation from other RE sources in MU

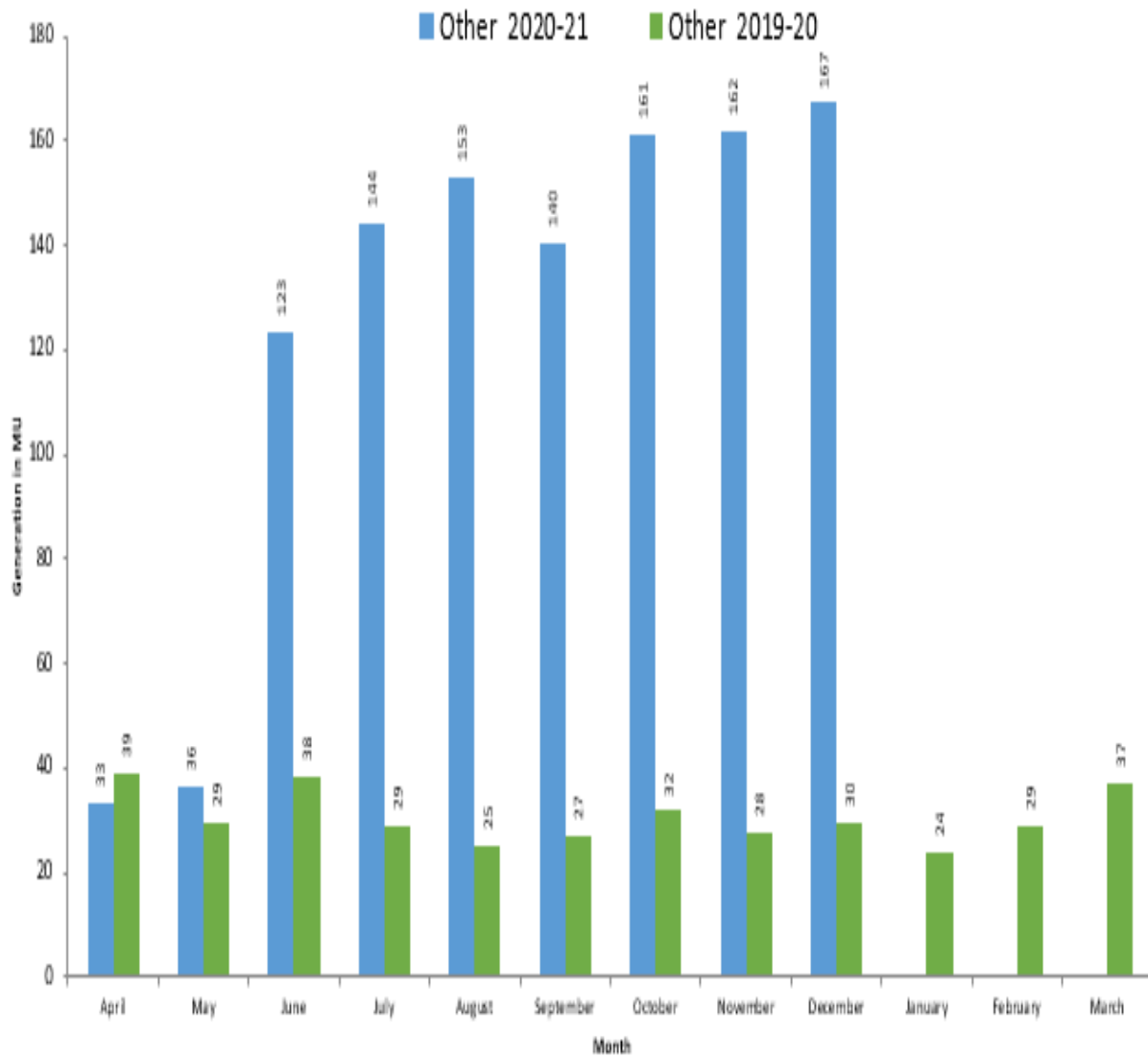


Figure 18 Monthly Other RE (Waste Heat etc) Power Generation (2020-21 Up to Dec-20)

Table 9: Renewable Energy Generation by ISGS Stations

Monthly RE generation from Inter State Generating Station (ISGS) for December 2020							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF (%)
AURAIYA	Uttar Pradesh	Central	NTPC	Solar	8	1.26	21%
DADRI SOLAR	Uttar Pradesh	Central	NTPC	Solar	5	0.49	13%
SINGRAULI SOLAR	Uttar Pradesh	Central	NTPC	Solar	15	1.04	9%
UNCHAHAAR SOLAR	Uttar Pradesh	Central	NTPC	Solar	10	1.00	13%
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Rajasthan	Private	IPP	Solar	50	9.22	25%
MAHOBHA SOLAR (UP) PRIVATE LTD	Rajasthan	Private	IPP	Solar	200	39.41	26%
AZURE FORTY THREE PVT LTD	Rajasthan	Private	IPP	Solar	150	12.09	11%
ACME CHITTORGARH ENERGY PVT LTD.	Rajasthan	Private	IPP	Solar	250	42.11	23%
AZURE POWER INDIA PVT LTD	Rajasthan	Private	IPP	Solar	200	34.12	23%
AZURE POWER THIRTY FOUR PRIVATE LTD	Rajasthan	Private	IPP	Solar	130	25.93	27%
M/S ADANI SOLAR ENERGY JODHPUR TWO LTD	Rajasthan	Private	IPP	Solar	50	9.77	26%
CLEAN SOLAR POWER (BHADLA) PVT LDT	Rajasthan	Private	IPP	Solar	300	59.62	27%
RENEW SOLAR POWER PVT LTD	Rajasthan	Private	IPP	Solar	50	9.41	25%
RENEW SOLAR POWER PVT LTD. BIKANER	Rajasthan	Private	IPP	Solar	250	43.72	24%
SB ENERGY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	200	38.17	26%
TATA POWER RENEWABLE ENERGY LTD	Rajasthan	Private	IPP	Solar	150	29.26	26%
Northern Region					2018	356.62	
ACME SOLAR (RAMNAGAR)	Madhya Pradesh	Private	IPP	Solar	250	36.83	20%
ARINSUN SOLAR (BARSITADESH)	Madhya Pradesh	Private	IPP	Solar	250	36.86	20%
MAHINDRA SOLAR (BADWAR)	Madhya Pradesh	Private	IPP	Solar	250	36.70	20%
RENEW SOLAR (BHUVAD)	Gujarat	Private	IPP	Solar	250	48.24	26%
ALFANAR WIND	Gujarat	Private	IPP	Wind	300	42.65	19%
GIWEL-II WIND (VADVA)	Gujarat	Private	IPP	Wind	250	49.88	27%
GIWEL-III WIND (NARANPAR)	Gujarat	Private	IPP	Wind	300	37.99	17%

Monthly RE generation from Inter State Generating Station (ISGS) for December 2020							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF (%)
ADANI GREEN ENERGY MP LTD(DAYAPAR)	Gujarat	Private	IPP	Wind	176.6	30.05	23%
IWISL WIND (DAYAPAR)	Gujarat	Private	IPP	Wind	250	18.84	10%
OSTRO WIND (KUTCH)	Gujarat	Private	IPP	Wind	250	55.89	30%
RENEW WIND ENERGY AP2	Gujarat	Private	IPP	Wind	300	25.08	11%
Western Region					2526.6	419.02	
GREEN INFRA	Tamil Nadu	Private	IPP	Wind	250	52.90	28%
ORANGE	Tamil Nadu	Private	IPP	Wind	200	38.14	26%
MYTRA	Tamil Nadu	Private	IPP	Wind	187	28.17	20%
BEETAM (TITUCORIN)	Tamil Nadu	Private	IPP	Wind	126.2	29.89	32%
Southern Region					763.2	149.10	
Total					5307.8	924.73	

Table 10 Renewable Energy Generation by CPSU Owned stations

Renewable Energy Generation Data (CPSU Wise) for December 2020						
CPSU	State	Installed Capacity (MW)	Source	Actual Generation (MU)	Cumulative Generation (MU)	Monthly CUF (%)
				December 2020	April 2020 to December 2020	
NTPC						
NTPC Faridabad _Solar	Haryana	5	Solar	0.49	5.16	13.17
NTPC Bhadla	Rajasthan	260	Solar	34.18	332.23	17.67
NTPC Dadri _Solar	Uttar Pradesh	5	Solar	0.49	5.13	13.17
NTPC Unchahar _Solar	Uttar Pradesh	10	Solar	1.00	10.72	13.44
NTPC Singrauli _Solar	Uttar Pradesh	15	Solar	1.04	15.10	9.32
NTPC Auraiya	Uttar Pradesh	15	Solar	1.29	1.85	11.56
NTPC Singrauli _SH	Uttar Pradesh	8	Small Hydro	0.00	13.71	0.00
NTPC Rojmal	Gujarat	50	Wind	7.40	62.81	19.89
NTPC Rajgarh _Solar	Madhya Pradesh	50	Solar	6.01	57.75	16.16
NTPC Mandsaur	Madhya Pradesh	250	Solar	32.41	294.84	17.42
NTPC Anantapuram	Andhra Pradesh	250	Solar	29.26	272.65	15.73
NTPC Ramagundam	Telangana	10	Solar	1.36	10.46	18.28
NTPC Andaman Nicobar	Andaman Nicobar	5	Solar	0.49	3.59	13.17
NTPC Talchar _Solar	Orissa	10	Solar	1.21	10.13	16.26
Total NTPC		943		116.63	1096.13	
THDC						
THDC Patan Wind Power Project	Gujarat	50	Wind	5.84	58.83	15.70
THDC Devbhumi Dwarka Wind Power Project	Gujarat	63	Wind	13.66	105.97	29.14
THDC Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24	Small Hydro	7.97	52.00	44.68
THDCIL's premises at Rishikesh	Uttar Pradesh	0.5	Solar	0.03	0.34	8.87
Total THDC		137.5		27.50	217.14	
NHPC						
NHPC Wind Power Project	Rajasthan	50	Wind	4.32	45.28	11.62
NHPC Solar Power Project	Tamilnadu	50	Solar	5.70	60.93	15.32
Total NHPC		100		10.02	106.20	
ONGC						
ONGC Wind, Bhuj	Gujarat	51	Wind	5.15	56.15	13.58
ONGC Wind, Jaisalmer	Rajasthan	102	Wind	8.09	110.09	10.66
ONGC Solar, Goa	Goa	1	Solar	0.14	1.14	18.37
ONGC Solar, Hazira	Gujarat	10	Solar	1.23	11.23	16.48
ONGC Solar, Ankleshwar	Gujarat	5	Solar	0.52	5.52	14.06
ONGC Solar, Rajahmundry	Andhra Pradesh	1	Solar	0.10	1.10	14.11

Renewable Energy Generation Data (CPSU Wise) for December 2020

ONGS Solar, SPP of Assam	Assam	1.09	Solar	0.11	1.20	13.99
ONGC Solar, SPP of Tati paka, Rajahmundry	Andhra Pradesh	5	Solar	0.36	5.36	9.64
ONGC Solar, Rooftop (RTS) Gujarat	Gujarat	4.232	Solar	0.36	4.59	11.31
ONGC Solar, Assam (RTS)	Assam	1.645	Solar	0.14	1.78	11.28
ONGC Solar, Uttarakhand (RTS)	Uttarkhand	1.236	Solar	0.11	1.35	12.42
ONGC Solar, Agartala asset	Tripura	0.247	Solar	0.02	0.27	12.39
ONGC Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.285	Solar	0.00	0.29	0.64
ONGC Solar, Cauvery Assest Karaikal	Maharashtra	0.065	Solar	0.01	0.02	53.76
ONGC Solar,DDU Bhawan, (Under Maintenance)	Goa	0.25	Solar	0.00	0.25	0.00
Total ONGC		184		16.34	152.69	
SJVN Limited						
Khirvire Wind Power	Maharashtra	47.6	Wind	1.93	54.94	5.44
Sadla Wind Power	Gujarat	50	Solar	6.26	59.94	16.82
Charanka Solar Power	Gujarat	5.6	Solar	0.64	4.25	15.24
Total SJVN		103.2		8.82	119.13	
Oil India Ltd						
Oil India Ltd	Rajasthan	14	Solar	1.97	18.82	18.93
Oil India Ltd	Rajasthan	67.6	Wind	4.67	52.99	9.28
Oil India Ltd	Gujarat	43.3	Wind	8.19	70.09	25.44
Oil India Ltd	Madhya Pradesh	63.2	Wind	5.84	89.41	12.41
Total Oil India Ltd		188.1		20.67	231.31	
NEEPCO	Tripura	5	Solar	0.29	3.08	7.88
All India		1660.80		200.28	1925.68	

Generation of CPSU owned RE generating stations is shown in respective state according to physical location so their generation should not be considered additional generation.

RENEWABLE ENERGY CURTAILMENT DURING DECEMBER 2020

(As Available on SLDCs web site or informed furnished by respective SLDC)

Table 11 RE Curtailment Data as available from SLDCs

Renewable Energy Curtailment for the month of December -2020			
S.No.	States	Curtailment (MU)	Source
1.	Andhra Pradesh	*	APTRANSCO Website- http://apps.aptransco.co.in/sldcreports/forms/BackDownWind.aspx
2.	Telangana	0	Information furnished by SLDC, TSTransco through email.
3.	Tamil Nadu	-	No information is available on website.
4.	Karnataka	0	SLDC, KPTCL Website- http://kptclsldc.com/recurtail.aspx
5.	Maharashtra	-	No information is available on website.
6.	Gujarat	-	No information is available on website.
7.	Rajasthan	—	SLDC, RRVPNL Website- https://sldc.rajasthan.gov.in/mis/monthlyReDsmReports
8.	Madhya Pradesh	—	SLDC, MP Power Transmission Corporation Ltd.- http://223.31.122.117/mpsldc/RE_DATA

*Curtailment details of Andhra Pradesh as issued by APTRANSCO is enclosed below:

Solar Power curtailment of Andhra Pradesh as given below:

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
01-12-2020	40	09:56:00	200	200	1778	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	41	10:01:00	100	100	1804	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
01-12-2020	41	10:01:00	100	100	1804	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	41	10:03:00	100	300	1758	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	41	10:03:00	50	50	1758	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
01-12-2020	42	10:25:00	100	200	1315	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	45	11:03:00	100	400	1204	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	46	11:20:00	-100	100	1108	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	49	12:08:00	-100	0	1207	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	49	12:10:00	-100	0	1214	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
01-12-2020	55	13:35:00	-200	200	1273	Released to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	56	13:58:00	100	100	1503	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
01-12-2020	57	14:02:00	100	100	1486	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	57	14:04:00	200	400	1537	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	57	14:14:00	-100	0	1162	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
01-12-2020	58	14:16:00	-100	0	1208	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
01-12-2020	60	14:49:00	-100	300	1297	Released to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	61	15:05:00	-100	200	1308	Released to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	62	15:22:00	-200	0	1219	Released to maintain grid security as per IEGC regulation (At Ghani SS)
01-12-2020	62	15:28:00	-50	0	1013	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
02-12-2020	42	10:21:00	200	200	1738	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
02-12-2020	42	10:21:00	100	100	1738	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
02-12-2020	43	10:37:00	-100	0	1355	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
02-12-2020	43	10:37:00	-200	0	1355	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-12-2020	41	10:05:00	200	200	1832	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
12-12-2020	41	10:05:00	100	100	1832	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-12-2020	41	10:05:00	100	100	1832	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
12-12-2020	41	10:05:00	50	50	1832	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
12-12-2020	43	10:37:00	50	100	1475	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
12-12-2020	43	10:37:00	150	350	1475	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)

Date	Block No	Time	Solar curtailment MW	Total Solar Curtailment MW	Solar generation MW	Reasons for Backing down
12-12-2020	44	10:58:00	-300	50	1209	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-12-2020	44	10:58:00	-100	0	1209	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-12-2020	47	11:38:00	-50	0	1697	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-12-2020	47	11:38:00	-100	0	1697	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)

Wind Power curtailment of Andhra Pradesh as given below:

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
01-12-2020	42	10:26:00	50	50	193	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
01-12-2020	42	10:26:00	20	20	570	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
01-12-2020	45	11:02:00	20	40	330	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
01-12-2020	63	15:33:00	-40	0	338	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
01-12-2020	63	15:33:00	-50	0	115	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
07-12-2020	68	16:47:00	50	50	354	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
07-12-2020	68	16:47:00	40	40	952	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
07-12-2020	70	17:26:00	-20	20	522	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
07-12-2020	71	17:38:00	-50	0	225	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
07-12-2020	71	17:38:00	-20	0	503	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
08-12-2020	27	06:38:00	50	50	136	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
08-12-2020	27	06:38:00	40	40	458	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
08-12-2020	34	08:17:00	-20	20	332	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
08-12-2020	35	08:32:00	-20	0	350	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
08-12-2020	35	08:32:00	-50	0	130	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	45	11:02:00	50	50	141	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	45	11:02:00	30	30	341	Wind generators with permanent connectivity are curtailed to maintain

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
						grid security as per IEGC regulation (in percentage)
10-12-2020	59	14:43:00	-30	0	301	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	59	14:43:00	-50	0	69	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	74	18:17:00	50	50	257	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	74	18:17:00	30	30	712	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	77	19:00:00	50	100	253	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	77	19:00:00	30	60	684	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	83	20:42:00	-20	40	516	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	84	20:55:00	-20	20	534	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	85	21:05:00	-20	0	623	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
10-12-2020	85	21:05:00	-100	0	264	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	12	02:46:00	50	50	264	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	12	02:46:00	40	40	870	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	16	03:59:00	-40	0	441	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	16	03:59:00	-50	0	190	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	40	09:46:00	50	50	350	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	40	09:46:00	30	30	350	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	41	10:00:00	50	100	330	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
12-12-2020	41	10:00:00	30	60	330	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	43	10:37:00	30	90	250	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	51	12:38:00	-60	30	160	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	51	12:38:00	-50	50	60	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	53	13:00:00	-30	0	169	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	53	13:00:00	-50	0	169	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	77	19:07:00	30	30	593	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	77	19:07:00	50	50	197	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	79	19:36:00	-30	0	530	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-12-2020	79	19:36:00	-50	0	179	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	78	19:24:00	50	50	314	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	78	19:24:00	50	50	641	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	79	19:44:00	50	100	295	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	79	19:44:00	30	80	486	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	81	20:02:00	-50	30	362	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	81	20:02:00	-50	50	226	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	83	20:32:00	-30	0	572	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
22-12-2020	83	20:32:00	-50	0	266	Wind generators with temporary connectivity are released to maintain grid

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
						security as per IEGC regulation (in percentage)
23-12-2020	87	21:43:00	50	50	300	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
23-12-2020	87	21:43:00	30	30	910	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
23-12-2020	90	22:23:00	-30	0	813	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
23-12-2020	90	22:23:00	-50	0	236	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
24-12-2020	0	00:00:00	0	0		curtailment--NIL
25-12-2020	80	19:58:00	50	50	310	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
25-12-2020	80	19:58:00	40	40	750	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)

Table 12 Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of December 2020				
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.
Northern Region				
AURAIYA SOLAR	Solar	1.35	1.26	-0.09
ACME CHITTORGARH ENERGY PVT LTD	Solar	41.55	42.11	0.56
AZURE FORTY THREE PVT LTD	Solar	12.12	12.09	-0.03
AZURE SOLAR	Solar	33.26	34.12	0.87
AZURE SOLAR THIRTY FOUR	Solar	25.00	25.93	0.93
CLEAN SOLAR POWER(BHADLA) PVT LTD.	Solar	58.92	59.62	0.70
DADRI SOLAR	Solar	0.60	0.49	-0.11
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Solar	8.89	9.22	0.32
MAHOBBA SOLAR	Solar	40.92	39.41	-1.51
RENEW SOLAR	Solar	9.76	9.41	-0.35
RENEW SOLAR POWER LTD PVT BIKANER	Solar	45.30	43.72	-1.58
SB ENERGY	Solar	38.37	38.17	-0.20
SINGRAULI SOLAR	Solar	1.66	1.57	-0.09
TATA POWER RENEWABLE	Solar	28.70	29.26	0.56
UNCHAHAAR SOLAR	Solar	1.12	0.98	-0.14
Western Region				
ACME SOLAR (RAMNAGAR)	Solar	35.64	36.83	1.19
ADANI GREEN ENERGY MP LTD	Wind	27.55	30.05	2.50
ALFANAR WIND	Wind	44.26	42.66	-1.60
ARINSUN SOLAR (BARSAITADESH)	Solar	36.95	36.86	-0.10
GREEN INFRA WIND ENERGY LIMITED SECI 2	Wind	52.93	49.88	-3.05
GREEN INFRA WIND ENERGY LIMITED SECI 3	Wind	43.29	37.99	-5.30
INOX WIND	Wind	18.51	18.84	0.33
MAHINDRA SOLAR (BADWAR)	Solar	36.79	36.70	-0.08
OSTRO -KUTCH	Wind	58.08	55.89	-2.19
RENEW WIND ENERGY AP2	Wind	27.20	25.08	-2.12
RENEW POWER	Solar	50.94	48.24	-2.70
Southern Region				
BEETAM	Wind	29.67	29.89	0.22
GIREL	Wind	52.78	52.90	0.12
MYTRAH	Wind	32.85	28.17	-4.67
ORANGE	Wind	37.10	38.13	1.03

+ve Deviation Means Actual generation is greater than Schedule Generation.

Table 13 Fossil and Non Fossil Generation

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of December 2020							
State/UT	Fossil		Non Fossil			Grand Total	Non Fossil as % of Total Generation
	Thermal	Gas	Nuclear	Hydro (Large)	Renewable Energy		
Chandigarh	0.00	0.00	0.00	0.00	0.29	0.29	100.00
Delhi	0.00	501.15	0.00	0.00	26.72	527.87	5.06
Haryana	1273.49	0.00	0.00	0.00	73.44	1346.93	5.45
HP	0.00	0.00	0.00	1426.78	57.40	1484.18	100.00
J & K	0.00	0.00	0.00	642.00	18.13	660.13	100.00
Ladakh	0.00	0.00	0.00	17.04	0.00	17.04	100.00
Punjab	1341.18	0.00	0.00	360.42	242.22	1943.82	31.00
Rajasthan	4447.54	36.31	656.10	71.41	1281.19	6492.55	30.94
Uttar Pradesh	9683.13	123.97	289.97	101.02	746.61	10944.70	10.39
Uttarakhand	0.00	132.34	0.00	792.31	109.85	1034.50	87.21
Northern Region	16745.34	793.77	946.07	3410.98	2555.86	24452.02	28.27
Chhattisgarh	12215.63	0.00	0.00	5.16	143.48	12364.27	1.20
Gujarat	8047.97	961.87	266.81	296.13	1535.21	11107.99	18.89
Madhya Pradesh	10899.50	0.00	0.00	609.26	590.85	12099.61	9.92
Maharashtra	9878.70	498.47	779.63	397.79	1398.24	12952.83	19.88
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.38	0.38	100.00
Daman & Diu	0.00	0.00	0.00	0.00	3.80	3.80	100.00
Goa	0.00	0.00	0.00	0.00	0.14	0.14	100.00
Western Region	41041.80	1460.34	1046.44	1308.34	3672.09	48529.01	12.42
Andhra Pradesh	3661.65	254.83	0.00	186.79	1016.13	5119.40	23.50
Telangana	4335.34	0.00	0.00	77.82	652.79	5065.95	14.42
Karnataka	2037.49	0.00	411.49	957.57	2530.05	5936.60	65.68
Kerala	2.33	0.66	0.00	448.11	84.54	535.64	99.44
Tamil Nadu	3580.72	136.44	1490.84	506.27	970.70	6684.97	44.40
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	20.99	0.00	0.00	0.37	21.36	1.73
Southern Region	13617.53	412.92	1902.33	2176.56	5254.61	23363.95	39.95
Andaman Nicobar	5.78	0.00	0.00	0.00	2.95	8.73	33.80
Bihar	2597.04	0.00	0.00	0.00	13.69	2610.73	0.52
Jharkhand	2296.17	0.00	0.00	1.54	1.36	2299.07	0.13
Orissa	5018.61	0.00	0.00	274.40	61.75	5354.76	6.28
Sikkim	0.00	0.00	0.00	380.40	5.41	385.81	100.00
West Bengal	6373.42	0.00	0.00	233.19	148.22	6754.83	5.65
DVC	0.00	0.00	0.00	0.00	2.59	2.59	0.00
Eastern Region	16291.02	0.00	0.00	889.53	235.98	17416.53	6.46
Arunachal Pradesh	0.00	0.00	0.00	187.41	0.17	187.58	100.00
Assam	222.81	245.11	0.00	24.14	5.23	497.29	5.91
Manipur	0.00	0.00	0.00	74.04	0.97	75.01	100.00
Meghalaya	0.00	0.00	0.00	67.29	6.51	73.80	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of December 2020

State/UT	Fossil		Non Fossil			Grand Total	Non Fossil as % of Total Generation
	Thermal	Gas	Nuclear	Hydro (Large)	Renewable Energy		
Mizoram	0.00	0.00	0.00	15.13	0.60	15.73	100.00
Nagaland	0.00	0.00	0.00	5.50	6.18	11.68	100.00
Tripura	0.00	580.39	0.00	0.00	2.15	582.54	0.37
North Eastern Region	222.81	825.50	0.00	373.51	21.80	1443.62	27.38
All India Total	87918.50	3492.53	3894.84	8158.92	11740.33	115205.12	20.65

Table 14 Renewable Energy as % of Total Electricity Generated

RE Generation as proportion of Total Electricity generation(MU) -Physical location wise. (State Wise) for the Month of December 2020							
State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Chandigarh	0.00	0.00	0.00	0.00	0.29	0.29	100.00
Delhi	0.00	501.15	0.00	0.00	26.72	527.87	5.06
Haryana	1273.49	0.00	0.00	0.00	73.44	1346.93	5.45
HP	0.00	0.00	0.00	1426.78	57.40	1484.18	3.87
J & K	0.00	0.00	0.00	642.00	18.13	660.13	2.75
Ladakh	0.00	0.00	0.00	17.04	0.00	17.04	0.00
Punjab	1341.18	0.00	0.00	360.42	242.22	1943.82	12.46
Rajasthan	4447.54	36.31	656.10	71.41	1281.19	6492.55	19.73
Uttar Pradesh	9683.13	123.97	289.97	101.02	746.61	10944.70	6.82
Uttarakhand	0.00	132.34	0.00	792.31	109.85	1034.50	10.62
Northern Region	16745.34	793.77	946.07	3410.98	2555.86	24452.02	10.45
Chhattisgarh	12215.63	0.00	0.00	5.16	143.48	12364.27	1.16
Gujarat	8047.97	961.87	266.81	296.13	1535.21	11107.99	13.82
Madhya Pradesh	10899.50	0.00	0.00	609.26	590.85	12099.61	4.88
Maharashtra	9878.70	498.47	779.63	397.79	1398.24	12952.83	10.79
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.38	0.38	100.00
Daman & Diu	0.00	0.00	0.00	0.00	3.80	3.80	100.00
Goa	0.00	0.00	0.00	0.00	0.14	0.14	100.00
Western Region	41041.80	1460.34	1046.44	1308.34	3672.09	48529.01	7.57
Andhra Pradesh	3661.65	254.83	0.00	186.79	1016.13	5119.40	19.85
Telangana	4335.34	0.00	0.00	77.82	652.79	5065.95	12.89
Karnataka	2037.49	0.00	411.49	957.57	2530.05	5936.60	42.62
Kerala	2.33	0.66	0.00	448.11	84.54	535.64	15.78
Tamil Nadu	3580.72	136.44	1490.84	506.27	970.70	6684.97	14.52
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	20.99	0.00	0.00	0.37	21.36	1.73
Southern Region	13617.53	412.92	1902.33	2176.56	5254.61	23363.95	22.49
Andaman Nicobar	5.78	0.00	0.00	0.00	2.95	8.73	33.80
Bihar	2597.04	0.00	0.00	0.00	13.69	2610.73	0.52
Jharkhand	2296.17	0.00	0.00	1.54	1.36	2299.07	0.06
Orissa	5018.61	0.00	0.00	274.40	61.75	5354.76	1.15
Sikkim	0.00	0.00	0.00	380.40	5.41	385.81	1.40
West Bengal	6373.42	0.00	0.00	233.19	148.22	6754.83	2.19
DVC	0.00	0.00	0.00	0.00	2.59	2.59	100.00
Eastern Region	16291.02	0.00	0.00	889.53	235.98	17416.53	1.35
Arunachal Pradesh	0.00	0.00	0.00	187.41	0.17	187.58	0.09

RE Generation as proportion of Total Electricity generation(MU) -Physical location wise. (State Wise) for the Month of December 2020

State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Assam	222.81	245.11	0.00	24.14	5.23	497.29	1.05
Manipur	0.00	0.00	0.00	74.04	0.97	75.01	1.29
Meghalaya	0.00	0.00	0.00	67.29	6.51	73.80	8.82
Mizoram	0.00	0.00	0.00	15.13	0.60	15.73	3.80
Nagaland	0.00	0.00	0.00	5.50	6.18	11.68	52.89
Tripura	0.00	580.39	0.00	0.00	2.15	582.54	0.37
North Eastern Region	222.81	825.50	0.00	373.51	21.80	1443.62	1.51
All India Total	87918.50	3492.53	3894.84	8158.92	11740.33	115205.12	10.19

RENEWABLE ENERGY TO TRANSPORT SECTOR :

Table 15 REWA Solar To Delhi Metro

From Rewa Solar Park (MP) to DMRC				
	Delhi Discoms			
Month	BRPL	BYPL	TPDDL	Total (MUs)
April ,2020	1.51	0.60	0.54	2.65
May ,2020	1.55	0.46	0.29	2.29
June ,2020	1.40	0.73	0.48	2.60
July ,2020	1.50	0.69	0.61	2.80
August ,2020	2.14	0.51	0.67	3.32
September ,2020	10.71	5.29	5.01	21.01
October ,2020	15.18	8.40	7.49	31.07
November 2020	14.32	7.36	6.91	28.59
December 2020	14.01	6.54	6.36	26.91
All figures at Delhi PP in MUs				
DMRC : Delhi Metro Rail Corporation				

All India Wind & Solar Power Daily Generation Report (Dec 2020)



Figure 19 Daily Solar and wind Power Generation trend in the month of Dec-20



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