



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



Monthly Renewable Energy Generation Report
मासिक नवीकरणीय ऊर्जा उत्पादन रिपोर्ट
May 2021

नवीकरणीय ऊर्जा परियोजना प्रबोधन प्रभाग
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SUMMARY OF REPORT FOR THE MONTH OF MAY 2021

Increased by 24.61% as compared to April 21.

Increased by 06.85 % as compared to May 20.

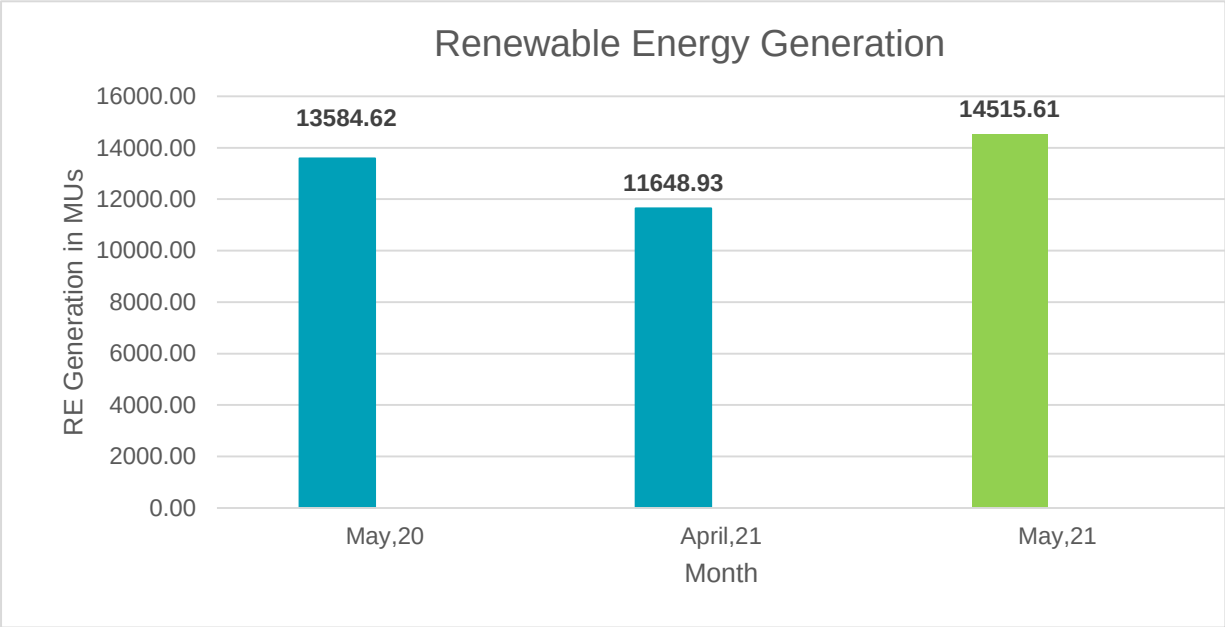


Figure 1: Renewable Energy Generation

Increased by 11. 21 % as compared to April 21.

Increased by 458.34% as compared to May 20

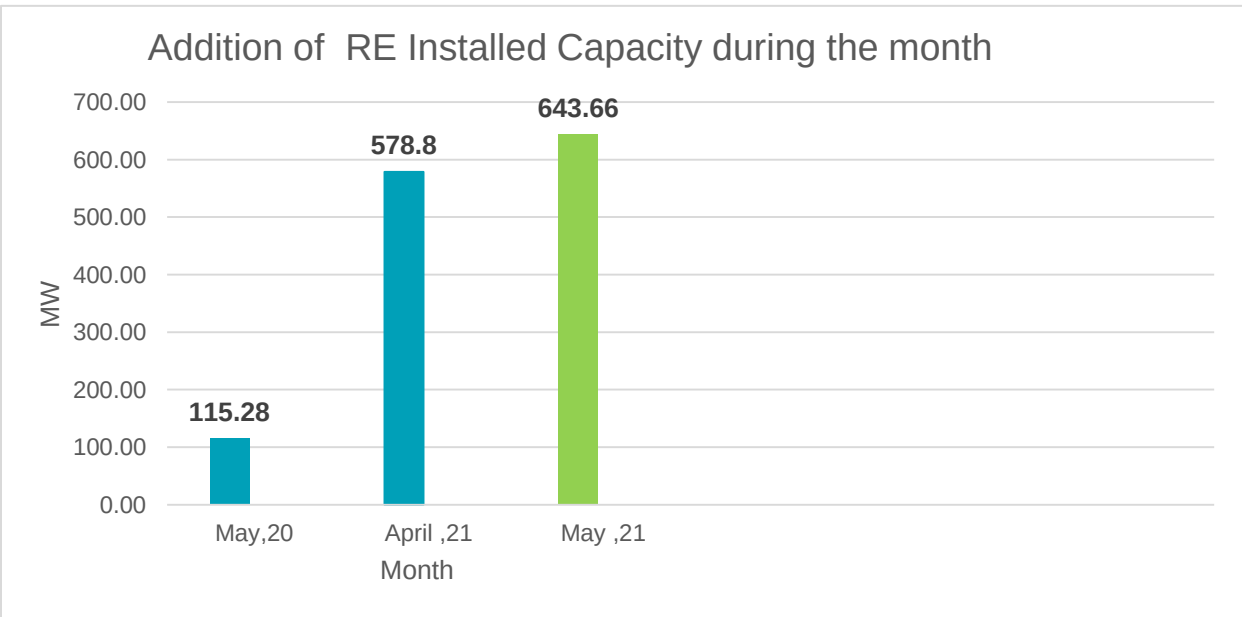


Figure 2 RE capacity added during the Month

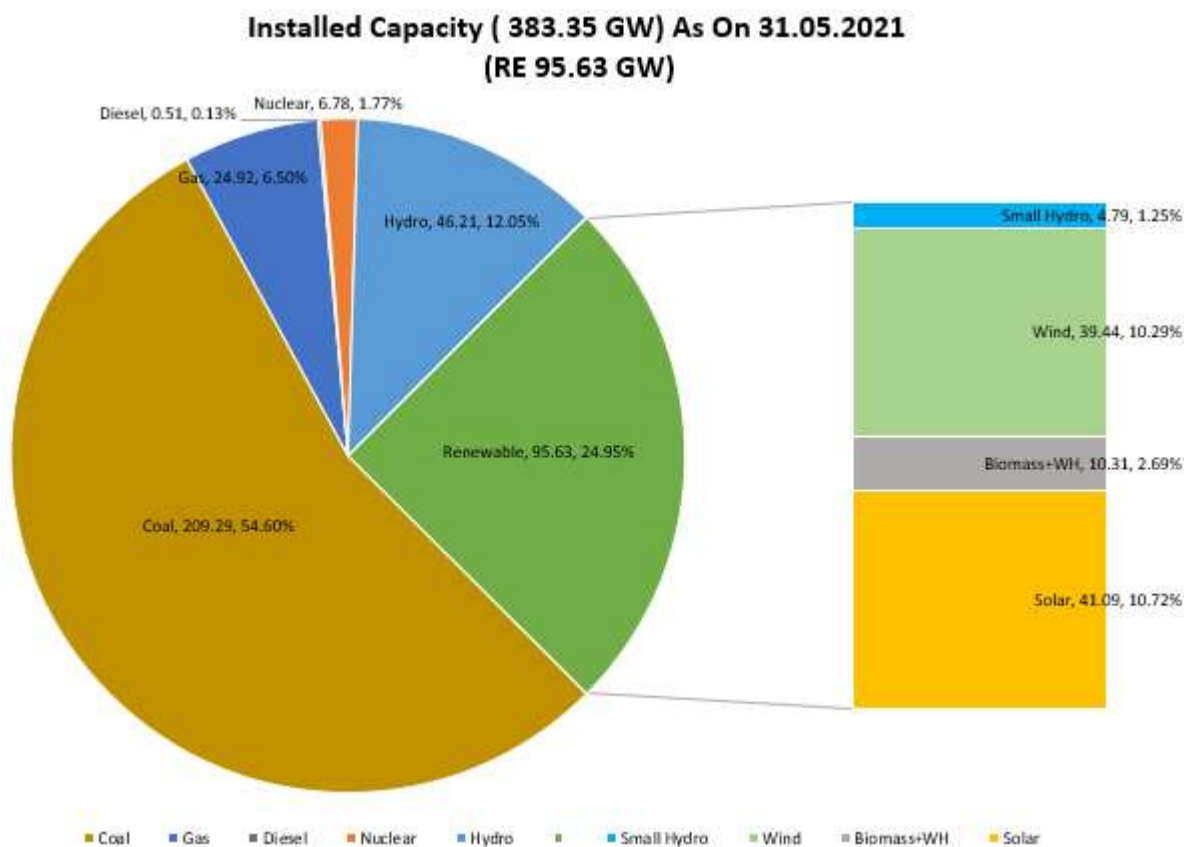


Figure 3 Installed Capacity in India as on 31.05.2021

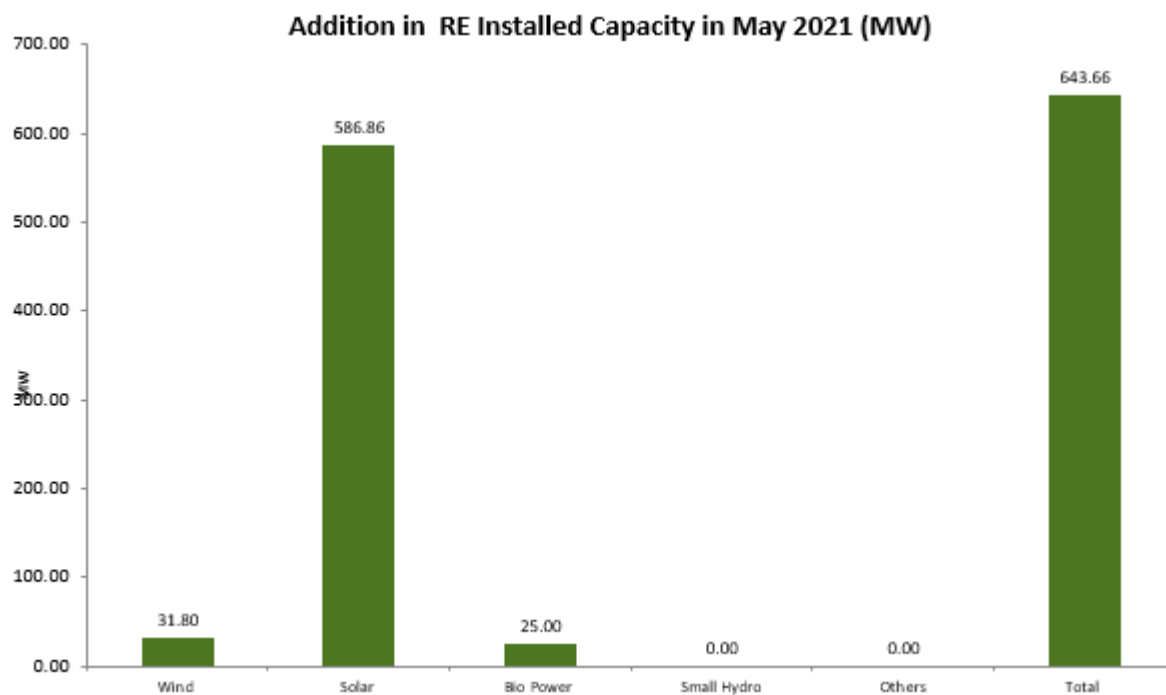


Figure 4: Source wise addition in RE Installed Capacity in May 21

HIGHLIGHTS OF RE GENERATION DURING MAY 2021

1. RE generation increased by 06.85 % in May 2021 as compared to May 2020.
2. Wind Power generation during the month of May 2021 increased in Rajasthan, Gujarat, Maharashtra ,Andhra Pradesh, Karnataka, Tamil Nadu and Decreased in Madhya Pradesh as compared to May 2020.
3. Daily wind generation increased by 13.56 % as compared to May 2020 and increased by 11.97 % as compared to April 2021.
4. Solar Power generation during the month of May 2021 increased in Uttar Pradesh, Rajasthan, Gujarat, Maharashtra, Andhra Pradesh, Kerala and Orissa as compared to May 2020 and Decreased in Punjab ,Karnataka Madhya Pradesh and Telangana as compared to May 2020.
5. Daily solar generation increased by 06.70 % as compared to May 2020 and decreased by 05.53% as compared to April 2021.
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 31.05.2021 (as per MNRE)	RE Generation (MU) May ' 2020	RE Generation (MU) May ' 2021	% of Last Year (2/3)	RE Generation (MU) April'2019-May ' 2020	RE Generation (MU) April'2020-May ' 2021	% Of Last Year (5/6)
	1	2	3	4	5	6	7
Wind	39442.25	6237.89	7083.52	113.56	9711.75	10817.90	111.39
Solar	41087.63	5618.29	5994.66	106.70	10971.74	12116.84	110.44
Biomass	10170.92	313.23	301.70	96.32	583.20	590.62	101.27
Bagasse		611.55	404.37	66.12	1499.72	1288.45	85.91
Small Hydro	4786.81	767.19	554.67	72.30	1460.79	994.69	68.09
Others	168.64	36.47	176.69	484.47	69.74	356.04	510.55
Total	95656.25	13584.62	14515.61	106.85	24296.95	26164.54	107.69

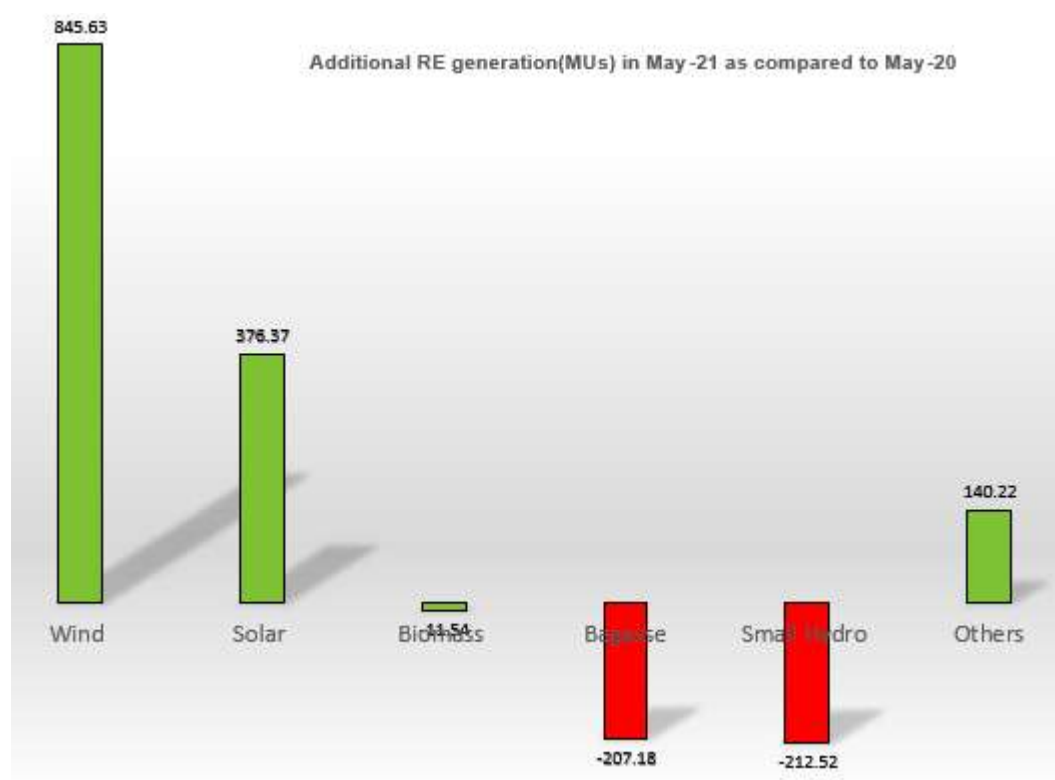


Figure 5 Additional RE Generation in May 21 compared to May 20

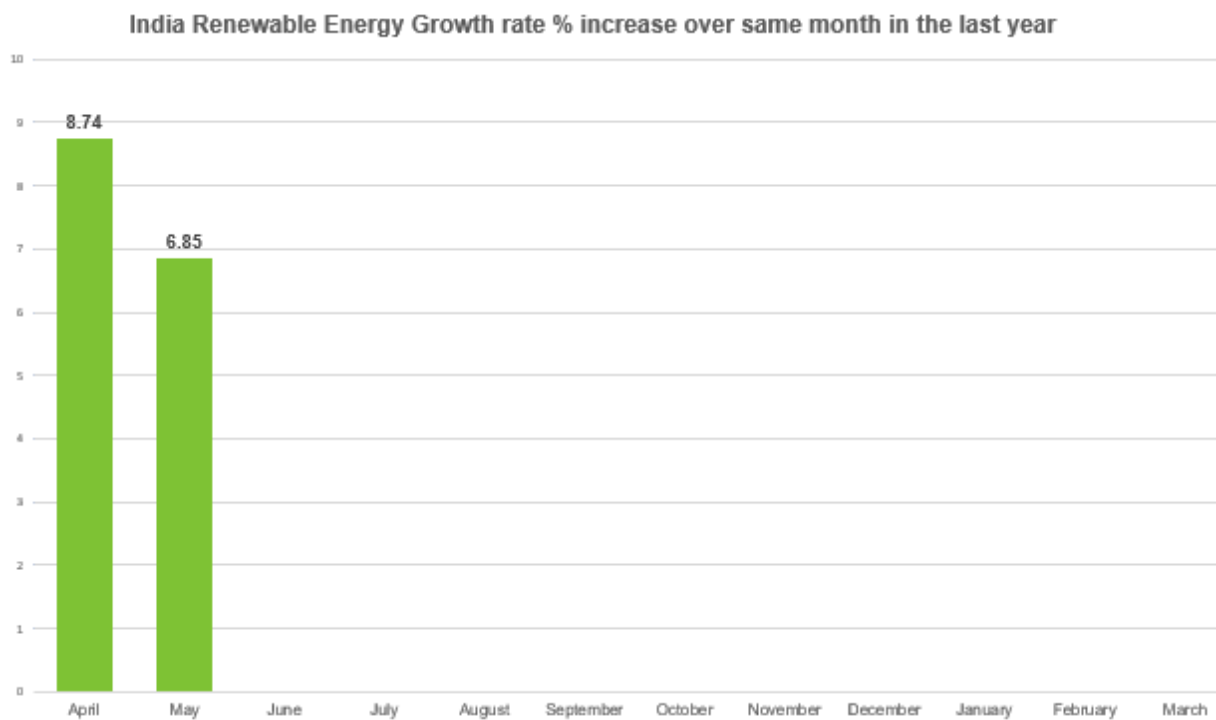


Figure 6 : Month Wise Growth of RE Generation in 2021-22 w.r.t to 2020-21

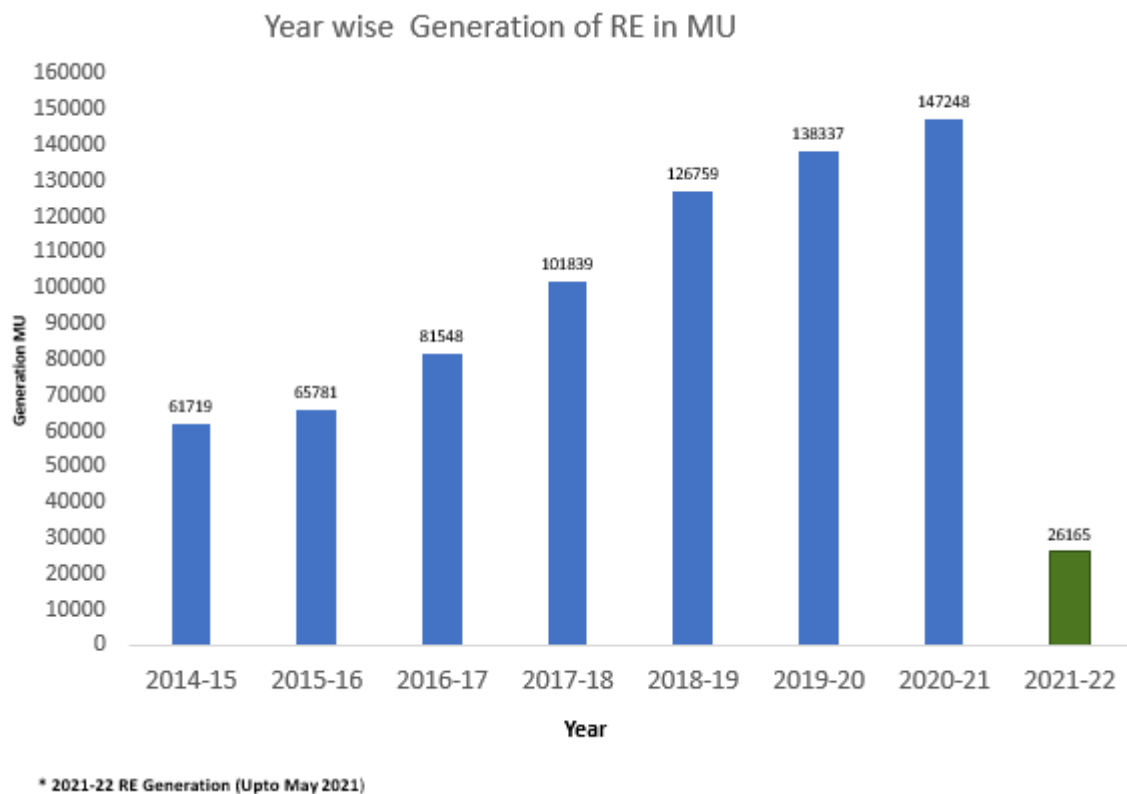


Figure 7 Year Wise RE Generation

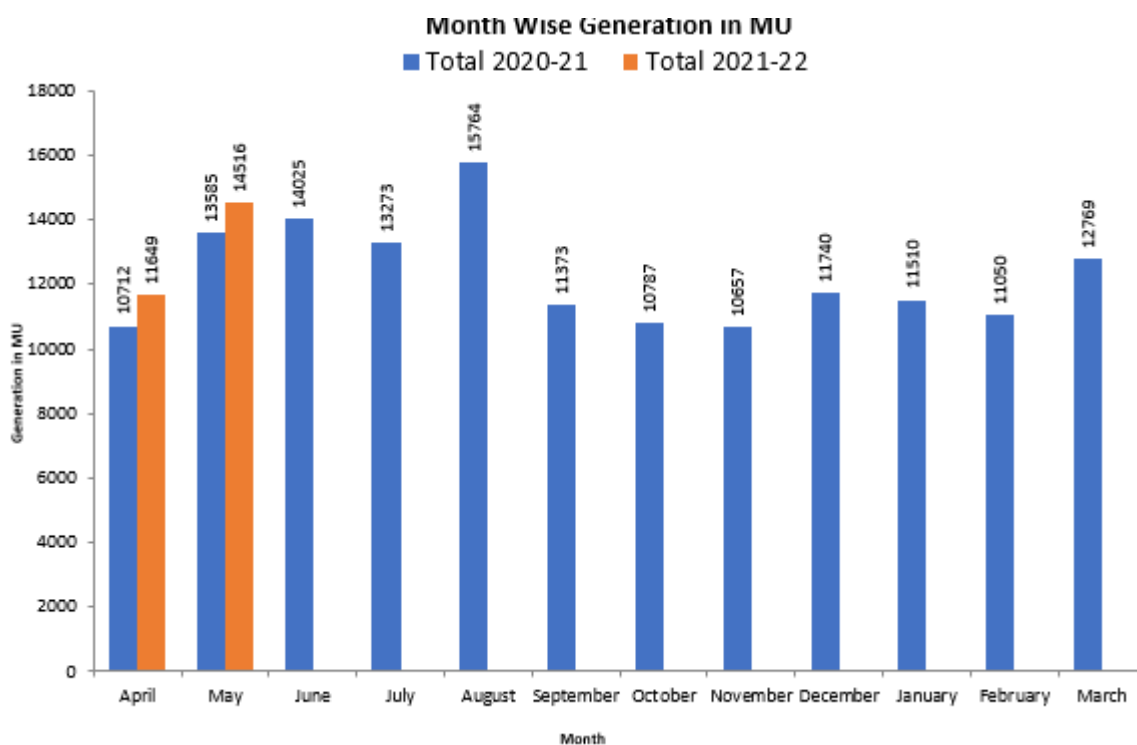


Figure 8 comparison of Month Wise RE Generation in year 2021-22 & in year 2020-21

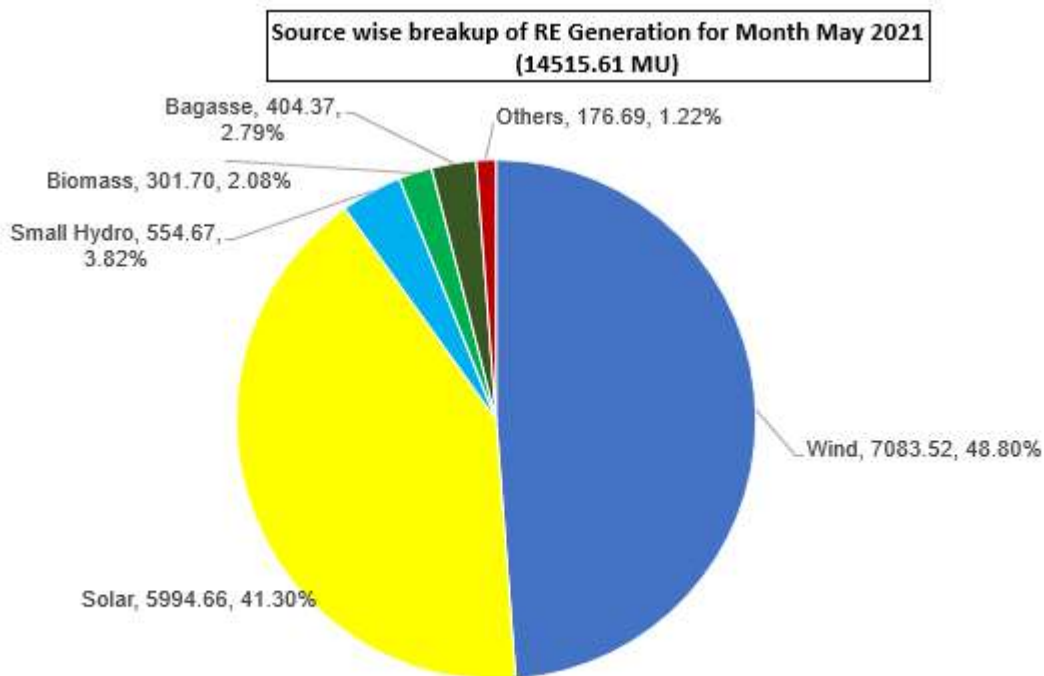


Figure 9 Source wise breakup of RE Generation in the month of May -21

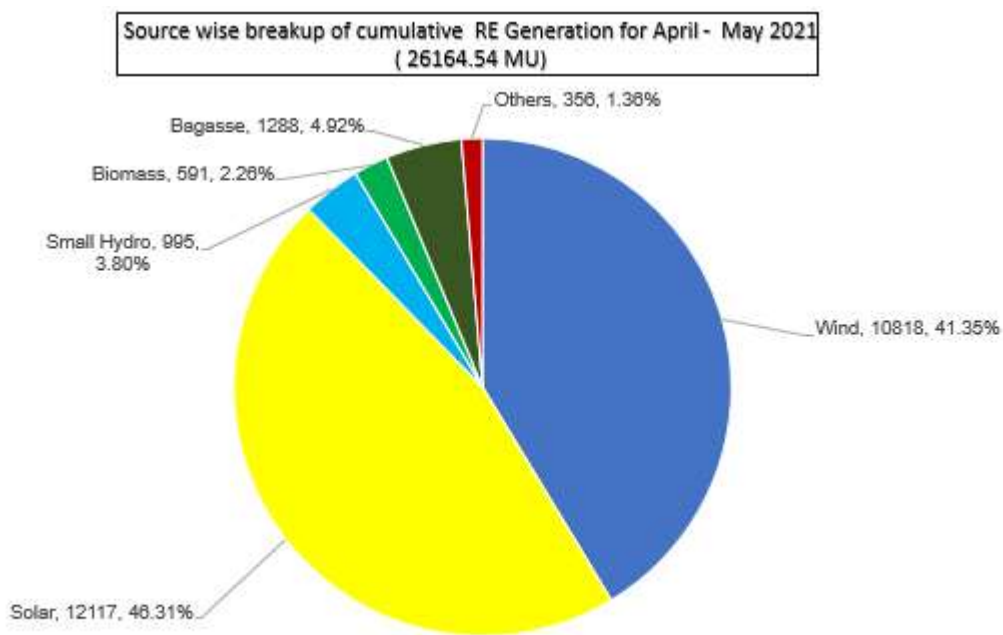


Figure 10 Source wise breakup of Cumulative RE Generation (April-21 – May -21)

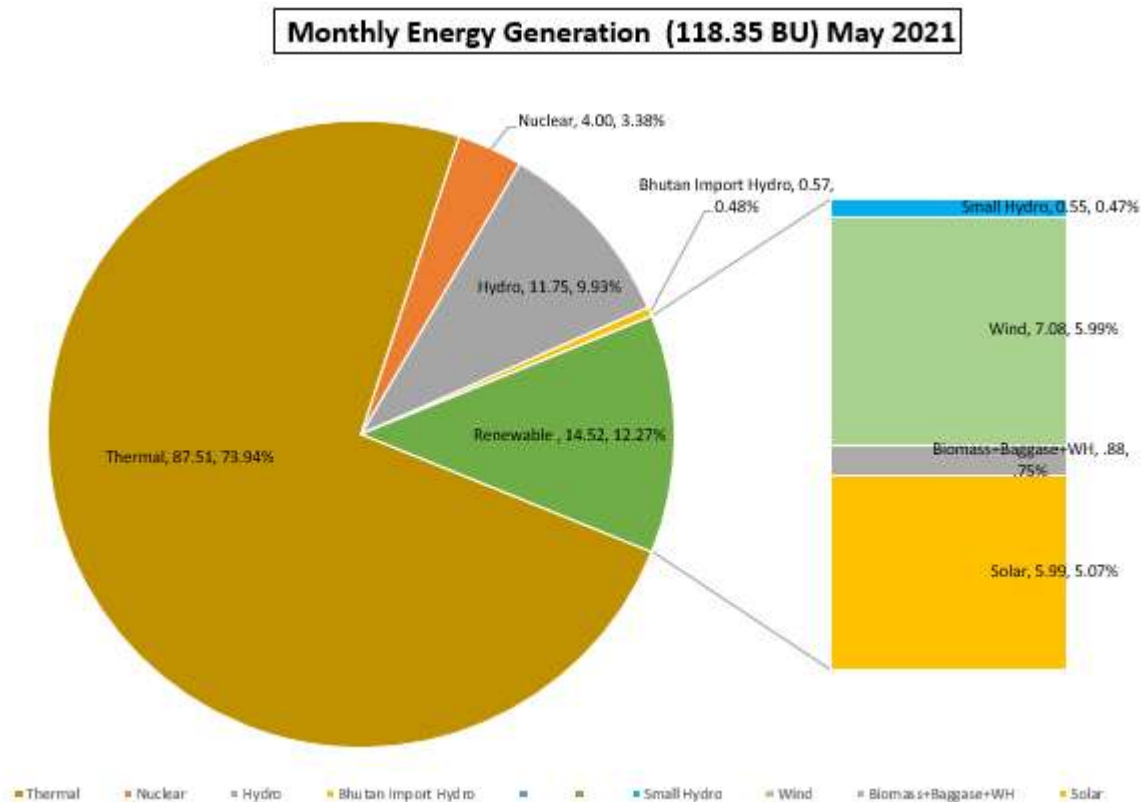


Figure 11 Total Energy Generation in India and Share of RE in the month of May -21

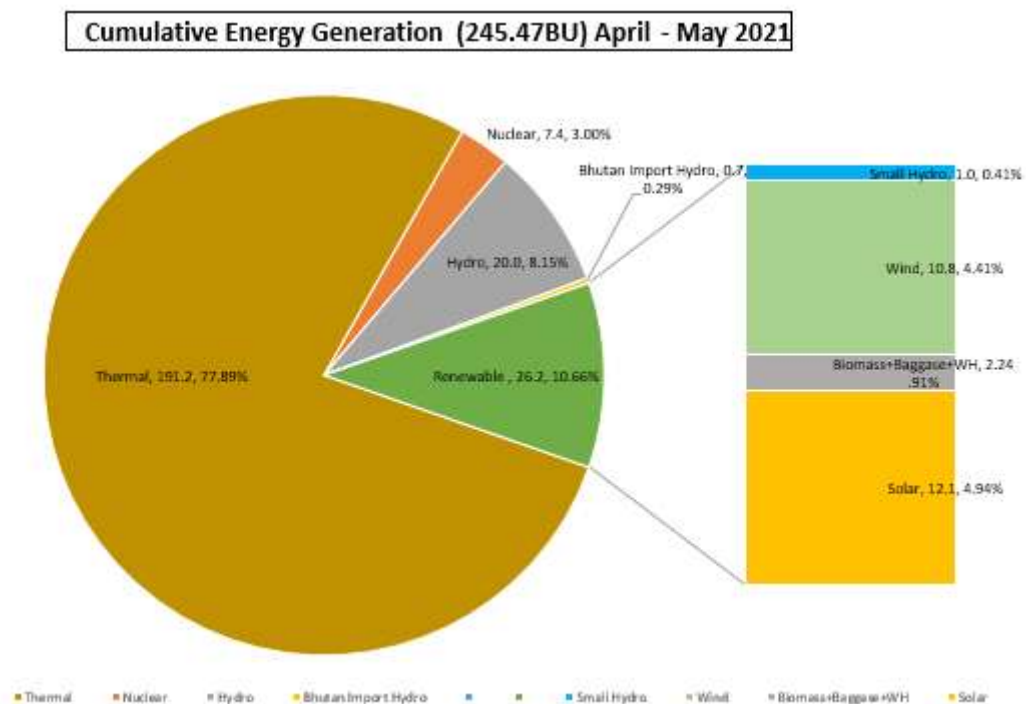


Figure 12 Cumulative Total Energy Generation in India and Share of RE (Apr-21 – May -21)

Table 2 State Wise Renewable Energy Generation

Renewable Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.21	0.27	2.88	1.98
Delhi	47.00	31.47	83.47	59.59
Haryana	57.77	70.12	135.14	148.67
Himachal Pradesh	275.63	162.91	515.98	253.60
J & K	59.10	63.20	110.41	94.11
Ladakh	0.00	0.00	0.00	0.00
Punjab	261.90	228.83	484.99	450.32
Rajasthan	1679.19	1841.11	3081.16	3367.76
Uttar Pradesh	468.29	436.88	1177.77	1105.69
Uttarakhand	124.06	71.67	247.63	143.34
Northern Region	2973.15	2906.46	5839.43	5625.07
Chhattisgarh	137.82	148.30	271.42	280.11
Gujarat	2252.12	2514.62	3777.24	4134.11
Madhya Pradesh	1032.93	917.39	1786.98	1704.94
Maharashtra	1158.96	1278.15	2116.83	2434.80
Dadra and Nagar Haveli	0.68	4.42	1.32	5.06
Daman & Diu	2.24	4.14	4.81	8.22
Goa	0.15	0.10	0.30	0.25
Western Region	4584.89	4867.13	7958.90	8567.48
Andhra Pradesh	1258.61	1391.56	2264.70	2540.62
Telangana	665.91	676.41	1292.15	1322.04
Karnataka	2129.59	2155.09	3885.57	4014.43
Kerala	75.62	112.37	131.52	205.56
Tamil Nadu	1702.31	2147.81	2541.68	3367.38
Lakshadweep	0.05	0.05	0.11	0.08
Puducherry	0.37	1.02	0.74	2.04
Southern Region	5832.46	6484.30	10116.47	11452.15
Andaman Nicobar	1.03	2.04	2.18	4.92
Bihar	22.13	14.59	39.09	28.28
Jharkhand	1.41	1.59	2.85	3.48
Orissa	70.73	82.18	134.89	157.30
Sikkim	3.72	1.03	5.86	2.06
West Bengal	84.44	145.15	171.22	295.16
Eastern Region	183.45	246.58	356.10	491.20
Arunachal Pradesh	0.19	0.17	0.41	0.37
Assam	0.16	6.56	3.11	14.03
Manipur	0.43	0.46	0.86	0.91
Meghalaya	3.03	3.12	6.06	7.15
Mizoram	1.20	0.26	3.52	0.50
Nagaland	4.89	0.01	8.91	3.16
Tripura	0.78	0.57	3.19	2.53
North Eastern Region	10.68	11.14	26.06	28.65
All India Total	13584.62	14515.61	24296.95	26164.54

Table 3 State Wise Wind Power Generation

Wind Power Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
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
Himachal Pradesh	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	0.00
Rajasthan	682.14	769.33	1149.47	1229.94
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	682.14	769.33	1149.47	1229.94
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	1794.98	1934.75	2882.44	3013.95
Madhya Pradesh	605.51	505.63	953.14	870.21
Maharashtra	695.29	791.23	1114.24	1215.42
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	3095.78	3231.61	4949.82	5099.58
Andhra Pradesh	552.05	617.07	935.81	979.95
Telangana	14.81	22.04	28.73	33.94
Karnataka	752.54	924.06	1197.64	1401.98
Kerala	11.98	12.36	16.14	19.25
Tamil Nadu	1128.60	1507.05	1434.15	2053.27
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	2459.97	3082.58	3612.47	4488.39
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	0.00	0.00	0.00	0.00
Eastern Region	0.00	0.00	0.00	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	6237.89	7083.52	9711.75	10817.90

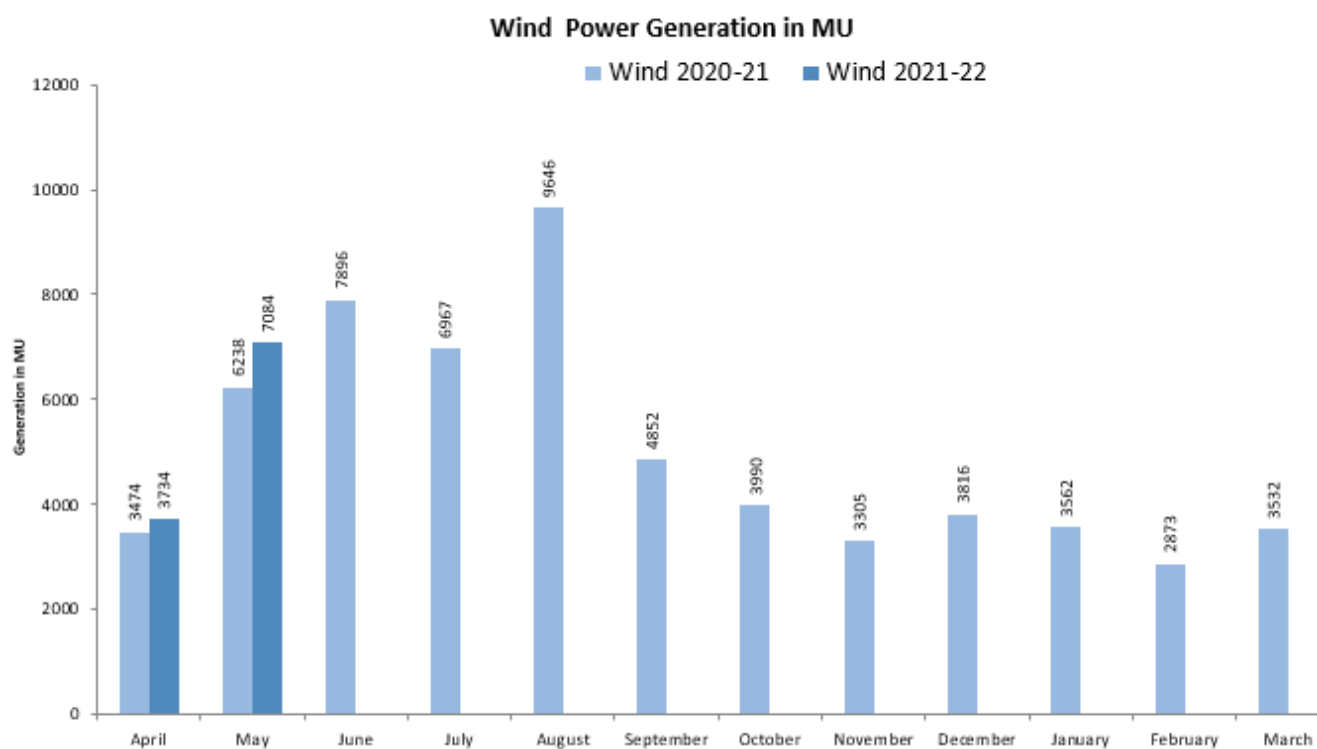


Figure 13 Monthly Wind Power Generation (2021-22 Up to May -21)

Table 4 State Wise Solar Power Generation

Solar Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.21	0.27	2.88	1.98
Delhi	21.79	15.16	36.39	30.32
Haryana	5.77	36.50	12.22	76.22
Himachal Pradesh	3.12	3.91	6.45	7.83
J & K	0.00	0.00	0.00	1.71
Ladakh	0.00	0.00	0.00	0.00
Punjab	135.24	129.36	273.22	273.63
Rajasthan	962.36	1036.04	1861.79	2067.13
Uttar Pradesh	169.45	259.50	324.14	526.96
Uttarakhand	34.73	24.63	71.36	49.26
Northern Region	1332.67	1505.36	2588.44	3035.04
Chhattisgarh	35.18	37.46	68.33	66.99
Gujarat	439.50	570.46	845.27	1094.68
Madhya Pradesh	412.80	401.69	804.03	806.16
Maharashtra	252.85	258.09	499.40	542.69
Dadra and Nagar Haveli	0.68	4.42	1.32	5.06
Daman & Diu	2.24	3.05	4.81	6.65
Goa	0.15	0.10	0.30	0.25
Western Region	1143.40	1275.28	2223.45	2522.49
Andhra Pradesh	670.65	738.28	1272.18	1478.93
Telangana	627.79	620.61	1218.36	1222.85
Karnataka	1237.04	1145.81	2463.42	2425.28
Kerala	14.17	37.84	28.99	79.26
Tamil Nadu	520.17	581.75	1036.46	1173.38
Lakshadweep	0.05	0.05	0.11	0.08
Puducherry	0.37	1.02	0.74	2.04
Southern Region	3070.24	3125.36	6020.26	6381.81
Andaman Nicobar	0.93	1.60	1.79	4.09
Bihar	20.17	14.59	36.42	26.14
Jharkhand	1.41	1.59	2.85	3.21
Orissa	41.59	55.76	82.12	112.23
Sikkim	0.00	0.00	0.00	0.00
West Bengal	6.35	9.49	13.19	19.64
Eastern Region	70.44	83.03	136.38	165.32
Arunachal Pradesh	0.15	0.17	0.32	0.32
Assam	0.16	4.19	0.72	9.39
Manipur	0.43	0.46	0.86	0.91
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.03	0.25	0.06	0.48
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.78	0.57	1.25	1.09
North Eastern Region	1.55	5.63	3.21	12.18
All India Total	5618.29	5994.66	10971.74	12116.84

Solar Power Generation in MU

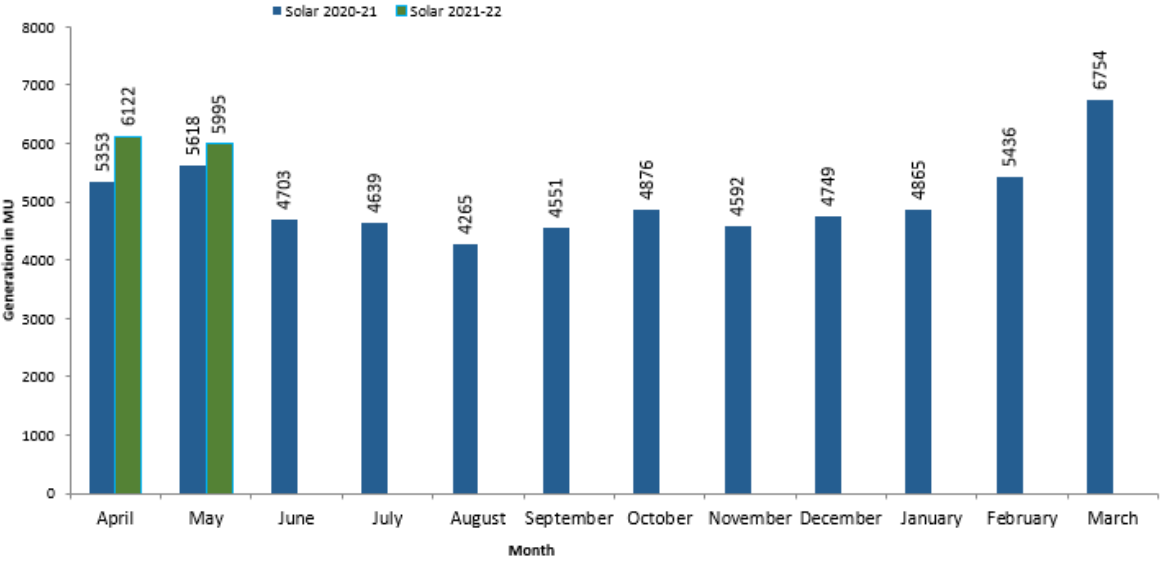


Figure 14 Monthly Solar Power Generation (2021-22 Up to May -21)

Table 5 State Wise Biomass Power Generation

Biomass Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	14.83	13.94	28.69	27.19
Himachal Pradesh	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	55.41	51.95	90.74	104.03
Rajasthan	34.54	35.74	69.69	70.68
Uttar Pradesh	20.35	9.44	45.72	17.86
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	125.13	111.07	234.85	219.77
Chhattisgarh	96.20	107.03	184.55	208.14
Gujarat	8.55	0.00	18.71	0.00
Madhya Pradesh	0.00	0.00	0.00	0.00
Maharashtra	22.93	25.69	42.89	52.42
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	0.00	1.09	0.00	1.57
Goa	0.00	0.00	0.00	0.00
Western Region	127.69	133.80	246.16	262.14
Andhra Pradesh	10.49	9.77	20.30	18.18
Telangana	14.35	11.77	29.65	21.66
Karnataka	15.57	13.38	25.61	31.66
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	9.99	11.75	12.72	18.07
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	50.40	46.67	88.28	89.58
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	1.96	0.00	2.67	2.14
Jharkhand	0.00	0.00	0.00	0.00
Orissa	8.06	10.16	11.25	16.99
Sikkim	0.00	0.00	0.00	0.00
West Bengal	0.00	0.00	0.00	0.00
Eastern Region	10.02	10.16	13.91	19.13
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	313.23	301.70	583.20	590.62

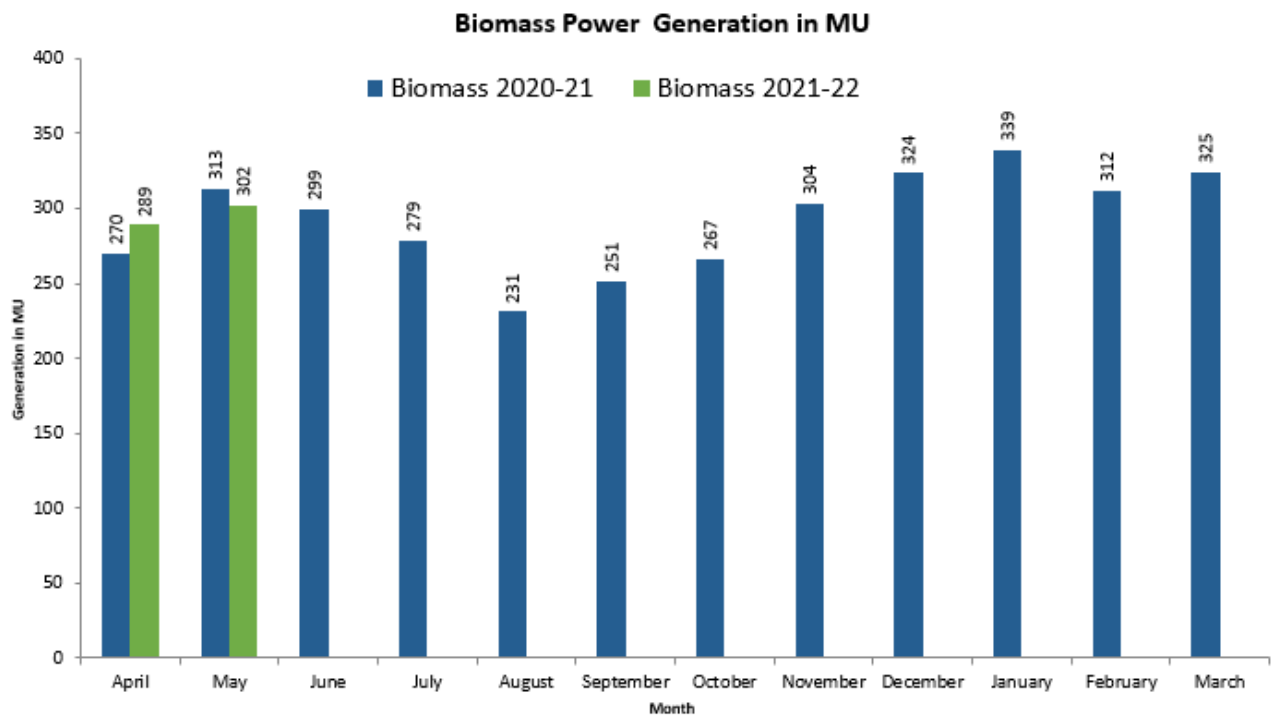


Figure 15 Monthly Biomass Power Generation (2021-22 Up to May -21)

Table 6 State Wise Bagasse Power Generation

Bagasse Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	7.59	1.97	33.31	14.75
Himachal Pradesh	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	9.84	11.88	14.24	24.03
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	267.40	161.83	794.44	549.04
Uttarakhand	9.67	20.26	29.23	40.52
Northern Region	294.49	195.94	871.21	628.34
Chhattisgarh	1.67	0.00	4.91	0.00
Gujarat	0.18	0.26	2.39	2.04
Madhya Pradesh	0.00	0.00	0.00	2.86
Maharashtra	118.15	145.53	305.37	477.37
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	120.00	145.79	312.66	482.27
Andhra Pradesh	2.96	4.54	6.14	13.38
Telangana	0.00	0.00	0.00	0.00
Karnataka	78.28	17.83	109.77	52.21
Kerala	4.18	3.78	5.81	7.67
Tamil Nadu	38.31	36.49	45.39	104.57
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	123.73	62.64	167.12	177.83
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	73.33	0.00	148.73	0.00
Eastern Region	73.33	0.00	148.73	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	611.55	404.37	1499.72	1288.45

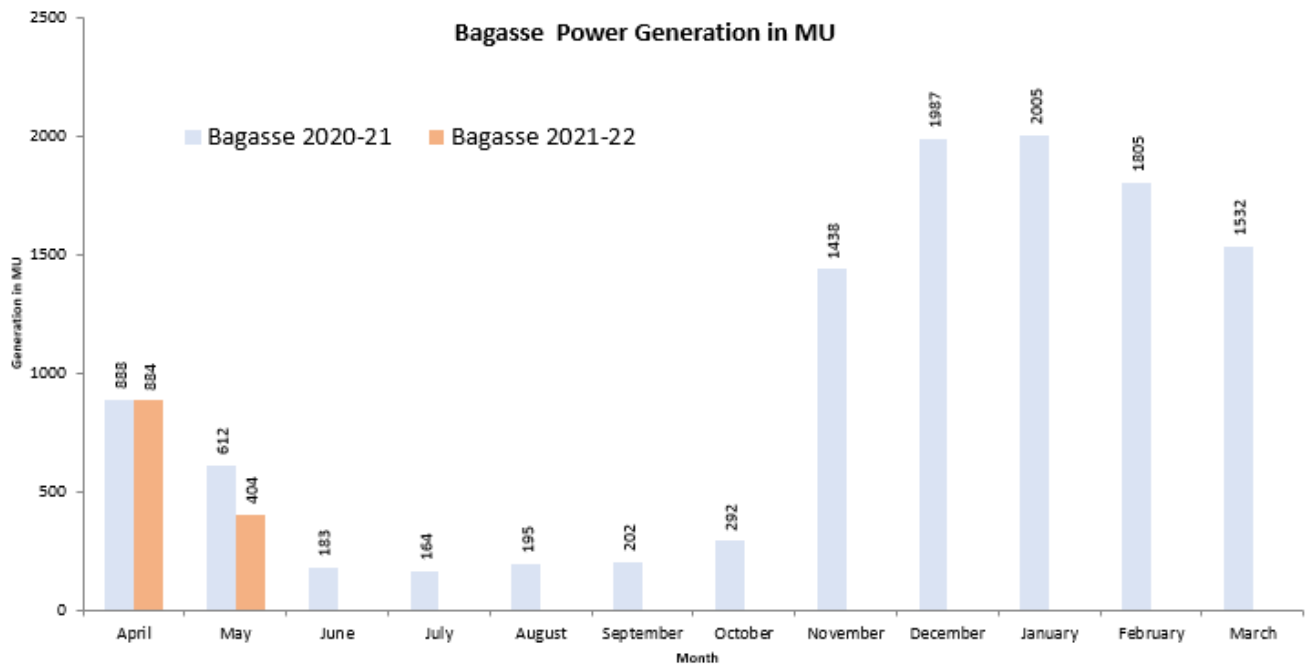


Figure 16 Monthly Bagasse Power Generation (2021-22 Up to May -21)

Table 7 State Wise Small Hydro Generation

Small Hydro Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	29.59	17.71	60.92	30.51
Himachal Pradesh	272.51	159.01	509.53	245.77
J & K	59.10	63.20	110.41	92.40
Ladakh	0.00	0.00	0.00	0.00
Punjab	61.41	35.57	106.78	48.51
Rajasthan	0.15	0.00	0.21	0.02
Uttar Pradesh	11.10	6.11	13.47	11.83
Uttarakhand	79.66	26.78	147.04	53.56
Northern Region	513.52	308.38	948.36	482.59
Chhattisgarh	4.76	3.81	13.63	4.97
Gujarat	8.90	9.15	25.14	23.43
Madhya Pradesh	11.39	7.14	24.14	19.59
Maharashtra	69.74	57.61	154.91	146.87
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	94.79	77.70	217.82	194.87
Andhra Pradesh	22.02	14.69	29.82	34.87
Telangana	1.37	0.34	2.20	3.15
Karnataka	46.16	54.01	89.13	103.31
Kerala	45.30	58.39	80.57	99.37
Tamil Nadu	5.24	10.77	12.96	18.09
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	120.09	138.20	214.69	258.79
Andaman Nicobar	0.10	0.44	0.39	0.83
Bihar	0.00	0.00	0.00	0.00
Jharkhand	0.00	0.00	0.00	0.27
Orissa	21.08	16.26	41.52	28.08
Sikkim	3.72	1.03	5.86	2.06
West Bengal	4.77	7.16	9.30	10.75
Eastern Region	29.66	24.88	57.07	41.98
Arunachal Pradesh	0.04	0.00	0.09	0.05
Assam	0.00	2.37	2.39	4.65
Manipur	0.00	0.00	0.00	0.00
Meghalaya	3.03	3.12	6.06	7.15
Mizoram	1.17	0.01	3.46	0.02
Nagaland	4.89	0.01	8.91	3.16
Tripura	0.00	0.00	1.94	1.44
North Eastern Region	9.13	5.51	22.85	16.47
All India Total	767.19	554.67	1460.79	994.69

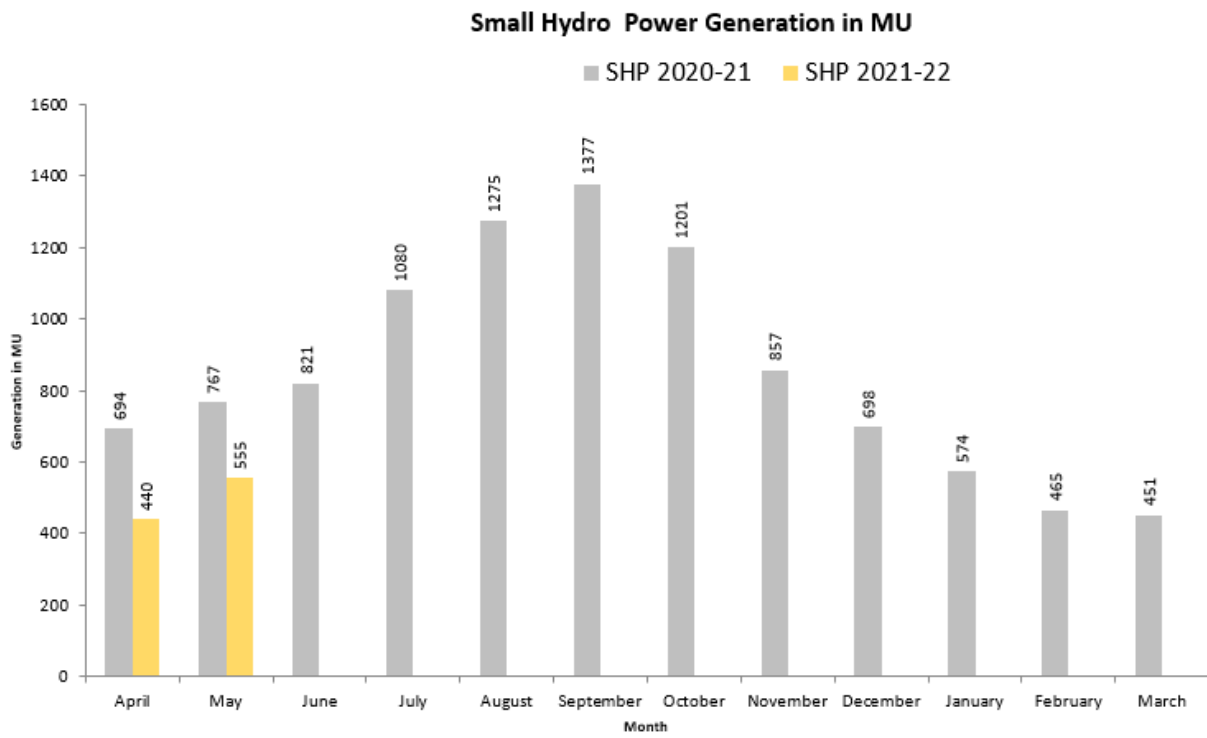


Figure 17 Monthly Small Hydro Power Generation (2021-22 Up to May -21)

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

Other RE sources Energy Generation (State Wise) for the month of May 2021				
State	May'2020	May' 2021	April'2020- May '2020	April'2021- May 2021
Chandigarh	0.00	0.00	0.00	0.00
Delhi	25.21	16.31	47.09	29.27
Haryana	0.00	0.00	0.00	0.00
Himachal Pradesh	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	0.07	0.01	0.12
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	25.21	16.38	47.10	29.39
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	0.00	3.29	0.00
Madhya Pradesh	3.22	2.94	5.68	6.11
Maharashtra	0.01	0.00	0.02	0.02
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	3.23	2.94	8.98	6.13
Andhra Pradesh	0.44	7.21	0.44	15.31
Telangana	7.59	21.65	13.22	40.44
Karnataka	0.00	0.00	0.00	0.00
Kerala	0.00	0.00	0.00	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	8.03	28.86	13.66	55.75
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	0.00	128.51	0.00	264.77
Eastern Region	0.00	128.51	0.00	264.77
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	36.47	176.69	69.74	356.04

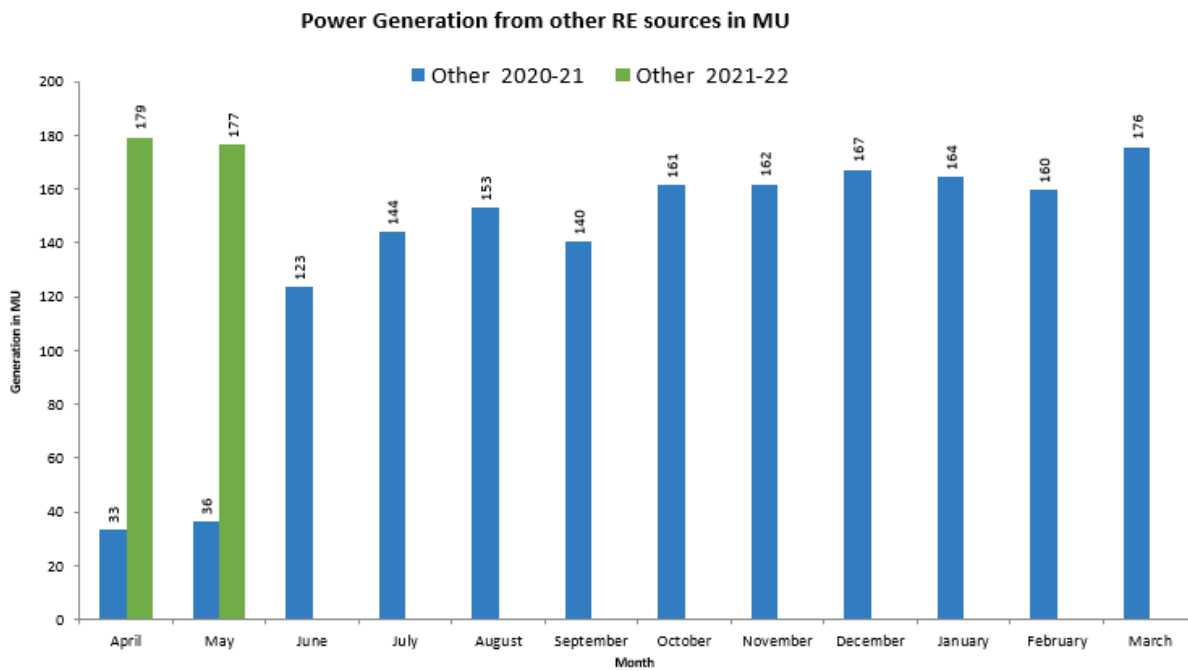


Figure 18 Monthly Other RE (Waste Heat etc) Power Generation (2021-22 Up to May -21)

Table 9: Renewable Energy Generation by ISGS Stations

Monthly RE generation from Inter State Generating Station (ISGS) for May 2021							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF (%)
AURAIYA	Uttar Pradesh	Central	NTPC	Solar	20	2.93	19.69
DADRI SOLAR	Uttar Pradesh	Central	NTPC	Solar	5	0.63	16.94
SINGRAULI SOLAR	Uttar Pradesh	Central	NTPC	Solar	15	1.90	17.03
UNCHAHAR SOLAR	Uttar Pradesh	Central	NTPC	Solar	10	1.16	15.59
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Rajasthan	Private	IPP	Solar	50	11.76	31.61
MAHOBASOLAR (UP) PRIVATE LTD	Rajasthan	Private	IPP	Solar	200	44.59	29.97
AZURE FORTY THREE PVT LTD	Rajasthan	Private	IPP	Solar	300	63.52	28.46
ACME CHITTORGARH ENERGY PVT LTD.	Rajasthan	Private	IPP	Solar	250	53.61	28.82
AZURE POWER INDIA PVT LTD	Rajasthan	Private	IPP	Solar	200	39.6	26.61
AZURE POWER THIRTY FOUR PRIVATE LTD	Rajasthan	Private	IPP	Solar	130	29.7	30.71
M/S ADANI SOLAR ENERGY JODHPUR TWO LTD	Rajasthan	Private	IPP	Solar	50	12.08	32.47
CLEAN SOLAR POWER (BHADLA) PVT LTD	Rajasthan	Private	IPP	Solar	300	66.72	29.89
RENEW SOLAR POWER PVT LTD	Rajasthan	Private	IPP	Solar	50	11.6	31.18
RENEW SOLAR POWER PVT LTD. BIKANER	Rajasthan	Private	IPP	Solar	250	51.92	27.91
SB ENERGY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	200	44.15	29.67
TATA POWER RENEWABLE ENERGY LTD	Rajasthan	Private	IPP	Solar	150	32.94	29.52
Northern Region					2180	468.81	
ACME SOLAR (RAMNAGAR)	Madhya Pradesh	Private	IPP	Solar	250	46.34	24.91
ARINSUN SOLAR (BARSAITADESH)	Madhya Pradesh	Private	IPP	Solar	250	45.47	24.45
MAHINDRA SOLAR (BADWAR)	Madhya Pradesh	Private	IPP	Solar	250	46.53	25.02
RENEW SOLAR (BHUVAD)	Gujarat	Private	IPP	Solar	250	76.5	41.13
ALFANAR WIND	Gujarat	Private	IPP	Wind	300	92.81	41.58
GIWEL-II WIND (VADVA)	Gujarat	Private	IPP	Wind	250	74.47	40.04
GIWEL-III WIND (NARANPAR)	Gujarat	Private	IPP	Wind	300	86.44	38.73

Monthly RE generation from Inter State Generating Station (ISGS) for May 2021

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	400	136.09	45.73
IWISL WIND (DAYAPAR)	Gujarat	Private	IPP	Wind	250	65.48	35.20
OSTRO WIND (KUTCH)	Gujarat	Private	IPP	Wind	250	83.89	45.10
RENEW WIND ENERGY AP2	Gujarat	Private	IPP	Wind	300	98.03	43.92
Western Region					2750	852.05	
GREEN INFRA	Tamil Nadu	Private	IPP	Wind	250	56.41	30.33
ORANGE	Tamil Nadu	Private	IPP	Wind	200	44.29	29.76
MYTRA	Tamil Nadu	Private	IPP	Wind	187	46.21	33.21
BETAM (TITUCORIN)	Tamil Nadu	Private	IPP	Wind	126.2	45.68	48.65
Southern Region					763.2	192.59	
Total					5693.2	1513.45	

Table 10 Renewable Energy Generation by CPSU Owned stations

Renewable Energy Generation Data (CPSU Wise) for May 2021						
CPSU	State	Installed Capacity (MW)	Source	Actual Generation (MU)	Cumulative Generation (MU)	Monthly CUF (%)
				May 2021	April 2021 to May 2021	
NTPC						
NTPC Faridabad_Solar	Haryana	5	Solar	0.61	1.23	16.40
NTPC Bhadla	Rajasthan	260	Solar	39.84	76.60	20.60
NTPC Dadri_Solar	Uttar Pradesh	5	Solar	0.62	1.27	16.67
NTPC Unchahar _Solar	Uttar Pradesh	10	Solar	1.16	2.51	15.59
NTPC Singrauli _Solar	Uttar Pradesh	15	Solar	1.90	3.78	17.03
NTPC Auraiya	Uttar Pradesh	20	Solar	2.93	6.12	19.69
NTPC Singrauli _SH	Uttar Pradesh	8	Small Hydro	3.49	6.51	58.64
NTPC Rojmal	Gujarat	50	Wind	9.55	17.51	25.67
NTPC Rajgarh _Solar	Madhya Pradesh	50	Solar	7.18	14.60	19.30
NTPC Mandsaur	Madhya Pradesh	250	Solar	36.44	73.91	19.59
NTPC Anantapuram	Andhra Pradesh	250	Solar	36.67	72.27	19.72
NTPC Ramagundam	Telangana	10	Solar	1.29	2.52	17.34
NTPC Andaman Nicobar	Andaman Nicobar	5	Solar	0.37	0.86	9.95
NTPC Talchar _Solar	Orissa	10	Solar	1.30	2.59	17.47
NTPC Solar_Bilhaur *	Uttar Pradesh	225	Solar	43.85	81.72	26.19
Total NTPC		1173		187.20	364.00	
THDC						
THDC Patan Wind Power Project	Gujarat	50	Wind	9.38	15.76	25.22
THDC Devbhumi Dwarka Wind Power Project	Gujarat	63	Wind	14.76	21.84	31.49
THDC Solar Kasaragod	Kerala	50	Solar	7.05	12.18	18.95
THDCIL's premises at Rishikesh	Uttarakhand	0.5	Solar	0.03	0.06	8.06
THDC Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24	Small Hydro	3.56	3.56	19.94
Total THDC		187.5		34.78	53.40	
NHPC						
NHPC Wind Power Project	Rajasthan	50	Wind	8.99	13.52	24.17
NHPC Solar Power Project	Tamilnadu	50	Solar	8.08	16.41	21.71
Total NHPC		100		17.07	29.92	
ONGC						
ONGC Wind, Bhuj	Gujarat	51	Wind	11.03	14.72	29.06
ONGC Wind, Jaisalmer	Rajasthan	102	Wind	18.27	28.29	24.08
ONGC Solar, Goa	Goa	1	Solar	0.10	0.25	13.95

Renewable Energy Generation Data (CPSU Wise) for May 2021

ONGC Solar, Hazira	Gujarat	10	Solar	1.39	2.86	18.67
ONGC Solar, Ankleshwar	Gujarat	5	Solar	0.54	1.26	14.54
ONGC Solar, Rajahmundry	Andhra Pradesh	1	Solar	0.11	0.23	15.00
ONGS Solar, SPP of Assam	Assam	1.09	Solar	0.086	0.21	10.63
ONGC Solar, SPP of Tati paka, Rajahmundry	Andhra Pradesh	5	Solar	0.186	0.39	5.00
ONGC Solar, Rooftop (RTS) Gujarat	Gujarat	4.232	Solar	0.503	1.02	16.00
ONGC Solar, Assam (RTS)	Assam	1.645	Solar	0.13	0.30	10.42
ONGC Solar, Uttarakhand (RTS)	Uttarakhand	1.236	Solar	0.14	0.27	15.30
ONGC Solar, Agartala asset	Tripura	0.247	Solar	0.03	0.05	13.99
ONGC Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.285	Solar	0.00	0.00	0.52
ONGC Solar, Cauvery Assest Karaikal	Maharashtra	0.065	Solar	0.01	0.02	16.30
ONGC Solar, DDU Bhawan, (Under Maintenance)	Goa	0.25	Solar	0.00	0.00	0.00
Total ONGC		184		32.53	49.87	
SJVN Limited						
Khirvire Wind Power	Maharashtra	47.6	Wind	5.65	8.39	15.94
Sadla Wind Power	Gujarat	50	Solar	10.56	17.94	28.38
Charanka Solar Power	Gujarat	5.6	Solar	0.78	1.64	18.82
Total SJVN		103.2		16.99	27.97	
Oil India Ltd						
Oil India Ltd	Rajasthan	14	Solar	2.10	4.29	2.10
Oil India Ltd	Rajasthan	67.6	Wind	7.62	11.88	7.62
Oil India Ltd	Gujarat	43.3	Wind	8.37	13.98	8.37
Oil India Ltd	Madhya Pradesh	63.2	Wind	13.77	24.46	13.77
Total Oil India Ltd		188.1		31.86	54.62	
NEEPCO						
NEEPCO	Tripura	5	Solar	0.57	1.06	15.21
DVC						
DVC	West Bengal	0.078	Solar	0.01	0.02	19.30
DVC	Jharkhand	4	Small Hydro	0.01	0.01	0.38
DVC		4.078	Solar	0.02	0.03	0.74
All India Total		1944.93		321.01	580.87	

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 May 2021

(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 May -2021			
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/mpslhc/RE_DATA

Table 12 Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of May 2021				
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.
Northern Region				
AURAIYA SOLAR	Solar	2.99	2.89	-0.10
ACME CHITTORGARH ENERGY PVT LTD	Solar	49.34	53.61	4.27
AZURE FORTY THREE PVT LTD	Solar	60.90	63.52	2.62
AZURE SOLAR	Solar	36.82	39.60	2.78
AZURE SOLAR THIRTY FOUR	Solar	27.48	29.70	2.22
M/S ADANI SOLAR ENERGY JODHPUR TWO LTD	Solar	11.97	12.08	0.12
CLEAN SOLAR POWER(BHADLA) PVT LTD.	Solar	64.81	66.72	1.91
DADRI SOLAR	Solar	0.64	0.63	-0.01
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Solar	10.80	11.76	0.96
MAHOBASOLAR	Solar	42.68	44.59	1.91
RENEW SOLAR	Solar	11.01	11.60	0.58
RENEW SOLAR POWER LTD PVT BIKANER	Solar	52.52	51.92	-0.60
SB ENERGY	Solar	43.45	44.15	0.71
SINGRAULI SOLAR	Solar	1.92	1.81	-0.11
TATA POWER RENEWABLE	Solar	32.10	32.94	0.84
UNCHAHAHAR SOLAR	Solar	1.26	1.14	-0.12
Western Region				
ACME SOLAR (RAMNAGAR)	Solar	43.54	46.34	2.81
ADANI GREEN ENERGY MP LTD	Wind	127.05	136.09	9.04
ALFANAR WIND	Wind	93.90	92.81	-1.09
ARINSUN SOLAR (BARSITADESH)	Solar	42.27	45.47	3.19
GREEN INFRA WIND ENERGY LIMITED SECI 2	Wind	78.27	74.47	-3.80
GREEN INFRA WIND ENERGY LIMITED SECI 3	Wind	88.14	86.44	-1.71
INOX WIND	Wind	67.62	65.48	-2.14
MAHINDRA SOLAR (BADWAR)	Solar	44.85	46.53	1.68
OSTRO -KUTCH	Wind	84.79	83.89	-0.90
RENEW WIND ENERGY AP2	Wind	96.62	98.03	1.40
RENEW POWER	Solar	77.32	76.50	-0.82
Southern Region				
BEETAM	Wind	44.90	45.68	0.79
GIREL	Wind	58.43	56.41	-2.02
MYTRAH	Wind	49.98	46.21	-3.76
ORANGE	Wind	43.78	44.29	0.52

+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 May 2021							
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	0.27	0.27	100.00
Delhi	0.00	450.00	0.00	0.00	31.47	481.47	6.54
Haryana	1072.15	0.00	0.00	0.00	70.12	1142.27	6.14
HP	0.00	0.00	0.00	2883.98	162.91	3046.89	100.00
J & K	0.00	0.00	0.00	1924.34	63.20	1987.54	100.00
Ladakh	0.00	0.00	0.00	30.23	0.00	30.23	100.00
Punjab	1426.70	0.00	0.00	272.68	228.83	1928.21	26.01
Rajasthan	3296.84	168.24	759.56	1.02	1841.11	6066.77	42.88
Uttar Pradesh	10119.49	50.23	301.37	87.01	436.88	10994.98	7.51
Uttarakhand	0.00	153.53	0.00	844.61	71.67	1069.81	85.65
Northern Region	15915.18	822.00	1060.93	6043.87	2906.46	26748.44	37.43
Chhattisgarh	12087.94	0.00	0.00	8.82	148.30	12245.06	1.28
Gujarat	4382.88	959.98	219.75	287.22	2514.62	8364.45	36.12
Madhya Pradesh	10450.75	0.00	0.00	485.17	917.39	11853.31	11.83
Maharashtra	9458.70	591.79	690.52	760.49	1278.15	12779.65	21.36
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	4.42	4.42	100.00
Daman & Diu	0.00	0.00	0.00	0.00	4.14	4.14	100.00
Goa	0.00	0.00	0.00	0.00	0.10	0.10	100.00
Western Region	36380.27	1551.77	910.27	1541.70	4867.13	45251.14	16.17
Andhra Pradesh	3824.46	243.80	0.00	52.98	1391.56	5512.80	26.20
Telangana	4105.99	0.00	0.00	32.00	676.41	4814.40	14.71
Karnataka	1486.74	0.00	627.43	1074.55	2155.09	5343.81	72.18
Kerala	0.00	0.00	0.00	702.28	112.37	814.65	100.00
Tamil Nadu	4803.20	118.63	1401.53	199.12	2147.81	8670.29	43.23
Lakshadweep	0.00	0.00	0.00	0.00	0.05	0.05	100.00
Puducherry	0.00	21.36	0.00	0.00	1.02	22.38	4.56
Southern Region	14220.39	383.79	2028.96	2060.93	6484.30	25178.37	42.00
Andaman Nicobar	6.75	0.00	0.00	0.00	2.04	8.79	23.20
Bihar	3240.62	0.00	0.00	0.00	14.59	3255.21	0.45
Jharkhand	2554.70	0.00	0.00	6.91	1.59	2563.20	0.33
Orissa	4907.89	0.00	0.00	349.67	82.18	5339.74	8.09
Sikkim	0.00	0.00	0.00	1019.46	1.03	1020.49	100.00
West Bengal	6563.40	0.00	0.00	244.06	145.15	6952.61	5.60
Eastern Region	17273.36	0.00	0.00	1620.10	246.58	19140.04	9.75
Arunachal Pradesh	0.00	0.00	0.00	350.41	0.17	350.58	100.00
Assam	264.42	261.05	0.00	56.62	6.56	588.65	10.73
Manipur	0.00	0.00	0.00	23.82	0.46	24.28	100.00
Meghalaya	0.00	0.00	0.00	50.04	3.12	53.16	100.00
Mizoram	0.00	0.00	0.00	1.67	0.26	1.93	100.00

Fossil and Non Fossil (State Wise) Electricity Generation(MU) for the Month of May 2021

State/UT	Fossil		Non Fossil				Non Fossil
Nagaland	0.00	0.00	0.00	2.92	0.01	2.93	100.00
Tripura	0.00	434.39	0.00	0.00	0.57	434.96	0.13
North Eastern Region	264.42	695.44	0.00	485.48	11.14	1456.48	34.10
All India Total	84053.62	3453.00	4000.16	11752.08	14515.61	117774.47	25.70

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 May 2021							
State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Chandigarh	0.00	0.00	0.00	0.00	0.27	0.27	100.00
Delhi	0.00	450.00	0.00	0.00	31.47	481.47	6.54
Haryana	1072.15	0.00	0.00	0.00	70.12	1142.27	6.14
HP	0.00	0.00	0.00	2883.98	162.91	3046.89	5.35
J & K	0.00	0.00	0.00	1924.34	63.20	1987.54	3.18
Ladakh	0.00	0.00	0.00	30.23	0.00	30.23	0.00
Punjab	1426.70	0.00	0.00	272.68	228.83	1928.21	11.87
Rajasthan	3296.84	168.24	759.56	1.02	1841.11	6066.77	30.35
Uttar Pradesh	10119.49	50.23	301.37	87.01	436.88	10994.98	3.97
Uttarakhand	0.00	153.53	0.00	844.61	71.67	1069.81	6.70
Northern Region	15915.18	822.00	1060.93	6043.87	2906.46	26748.44	10.87
Chhattisgarh	12087.94	0.00	0.00	8.82	148.30	12245.06	1.21
Gujarat	4382.88	959.98	219.75	287.22	2514.62	8364.45	30.06
Madhya Pradesh	10450.75	0.00	0.00	485.17	917.39	11853.31	7.74
Maharashtra	9458.70	591.79	690.52	760.49	1278.15	12779.65	10.00
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	4.42	4.42	100.00
Daman & Diu	0.00	0.00	0.00	0.00	4.14	4.14	100.00
Goa	0.00	0.00	0.00	0.00	0.10	0.10	100.00
Western Region	36380.27	1551.77	910.27	1541.70	4867.13	45251.14	10.76
Andhra Pradesh	3824.46	243.80	0.00	52.98	1391.56	5512.80	25.24
Telangana	4105.99	0.00	0.00	32.00	676.41	4814.40	14.05
Karnataka	1486.74	0.00	627.43	1074.55	2155.09	5343.81	40.33
Kerala	0.00	0.00	0.00	702.28	112.37	814.65	13.79
Tamil Nadu	4803.20	118.63	1401.53	199.12	2147.81	8670.29	24.77
Lakshadweep	0.00	0.00	0.00	0.00	0.05	0.05	100.00
Puducherry	0.00	21.36	0.00	0.00	1.02	22.38	4.56
Southern Region	14220.39	383.79	2028.96	2060.93	6484.30	25178.37	25.75
Andaman Nicobar	6.75	0.00	0.00	0.00	2.04	8.79	23.20
Bihar	3240.62	0.00	0.00	0.00	14.59	3255.21	0.45
Jharkhand	2554.70	0.00	0.00	6.91	1.59	2563.20	0.06
Orissa	4907.89	0.00	0.00	349.67	82.18	5339.74	1.54
Sikkim	0.00	0.00	0.00	1019.46	1.03	1020.49	0.10
West Bengal	6563.40	0.00	0.00	244.06	145.15	6952.61	2.09
Eastern Region	17273.36	0.00	0.00	1620.10	246.58	19140.04	1.29
Arunachal Pradesh	0.00	0.00	0.00	350.41	0.17	350.58	0.05
Assam	264.42	261.05	0.00	56.62	6.56	588.65	1.11
Manipur	0.00	0.00	0.00	23.82	0.46	24.28	1.88
Meghalaya	0.00	0.00	0.00	50.04	3.12	53.16	5.87
Mizoram	0.00	0.00	0.00	1.67	0.26	1.93	13.31
Nagaland	0.00	0.00	0.00	2.92	0.01	2.93	0.35

RE Generation as proportion of Total Electricity generation(MU) -Physical location wise. (State Wise) for the Month of May 2021

State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Tripura	0.00	434.39	0.00	0.00	0.57	434.96	0.13
North Eastern Region	264.42	695.44	0.00	485.48	11.14	1456.48	0.77
All India Total	84053.62	3453.00	4000.16	11752.08	14515.61	117774.47	12.32

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 ,2021	11.51	5.65	5.42	22.57
May ,2021	3.02	1.02	1.25	5.29
All figures at Delhi PP in MUs				
DMRC : Delhi Metro Rail Corporation				

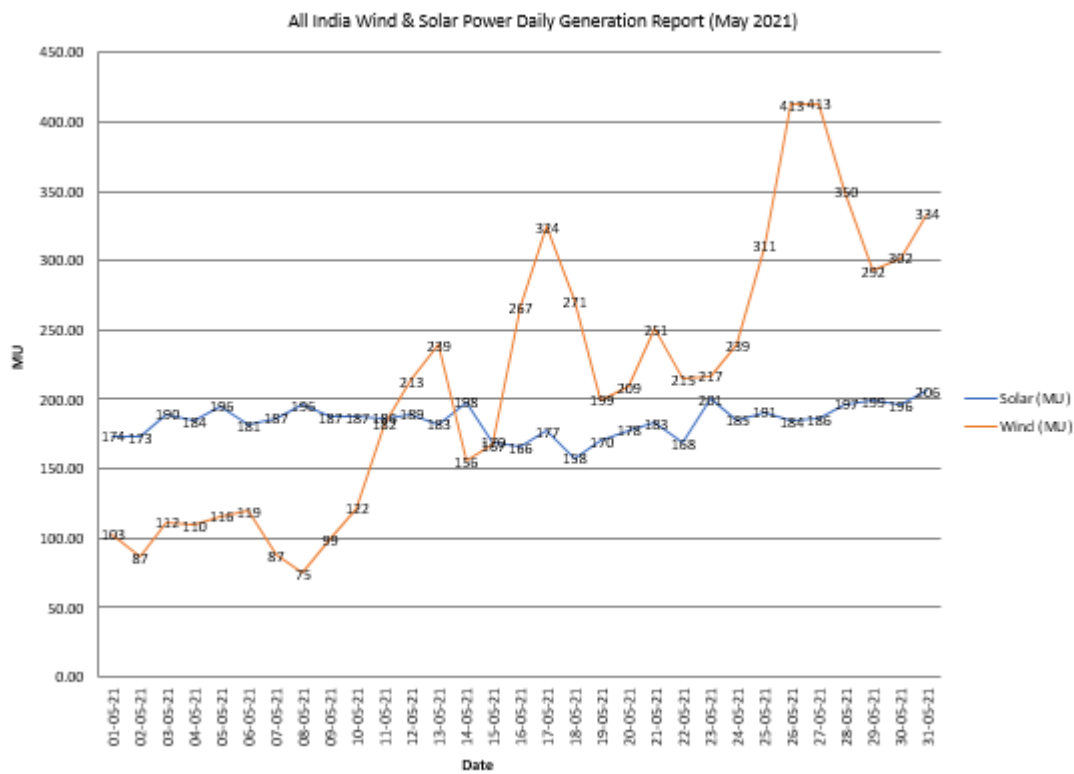


Figure 19 Daily Solar and wind Power Generation trend in the month of May-21



This report is published by
Renewable Energy Project Monitoring Division
Central Electricity Authority, New Delhi

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