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विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



Monthly Renewable Energy Generation Report
मासिक नवीकरणीय ऊर्जा उत्पादन रिपोर्ट
OCTOBER , 2020

नवीकरणीय ऊर्जा परियोजना प्रबोधन प्रभाग
Renewable Energy Project Monitoring Division

वितरण सूची/Distribution List

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Directorate of Economics & Statistics, Vikas Bhawan-II, Illrd Floor, 'B' Wing, Metcalfe House, ND-54.

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SUMMARY OF REPORT FOR THE MONTH OF OCTOBER, 2020

Decreased by 5.16% as compared to Sep 20.
Increased by 41.29% as compared to Oct, 19

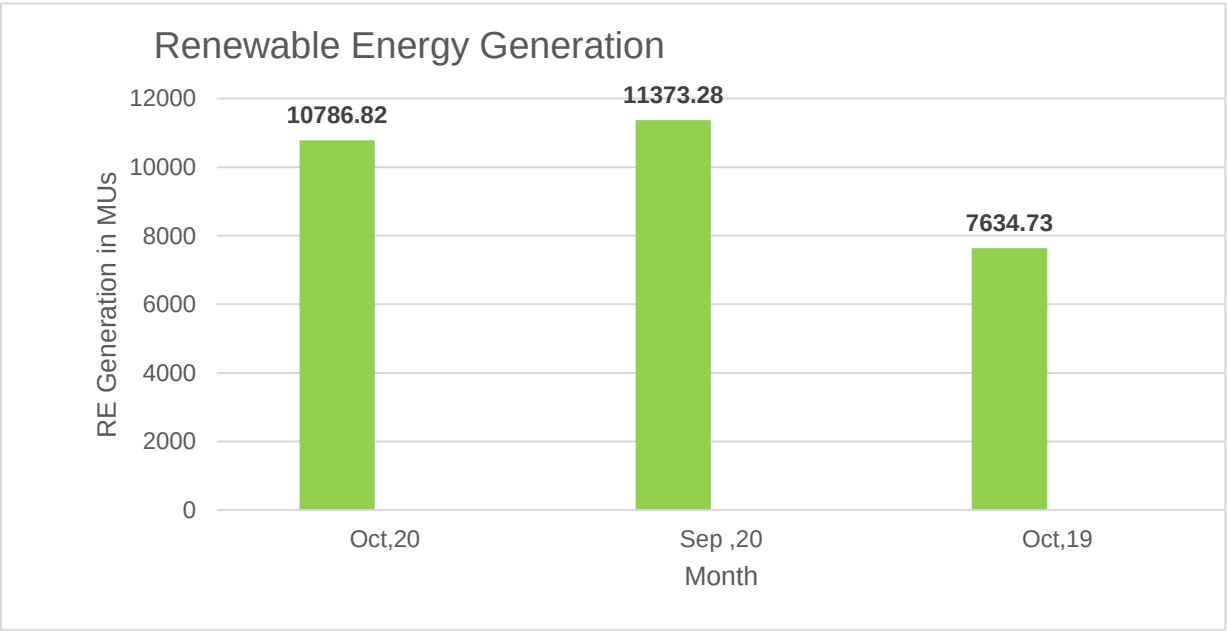


Figure 2 Renewable Energy Generation

Decreased by 6.82% as compared to Sep 20.
Decreased by 48.61 % as compared to Oct,19

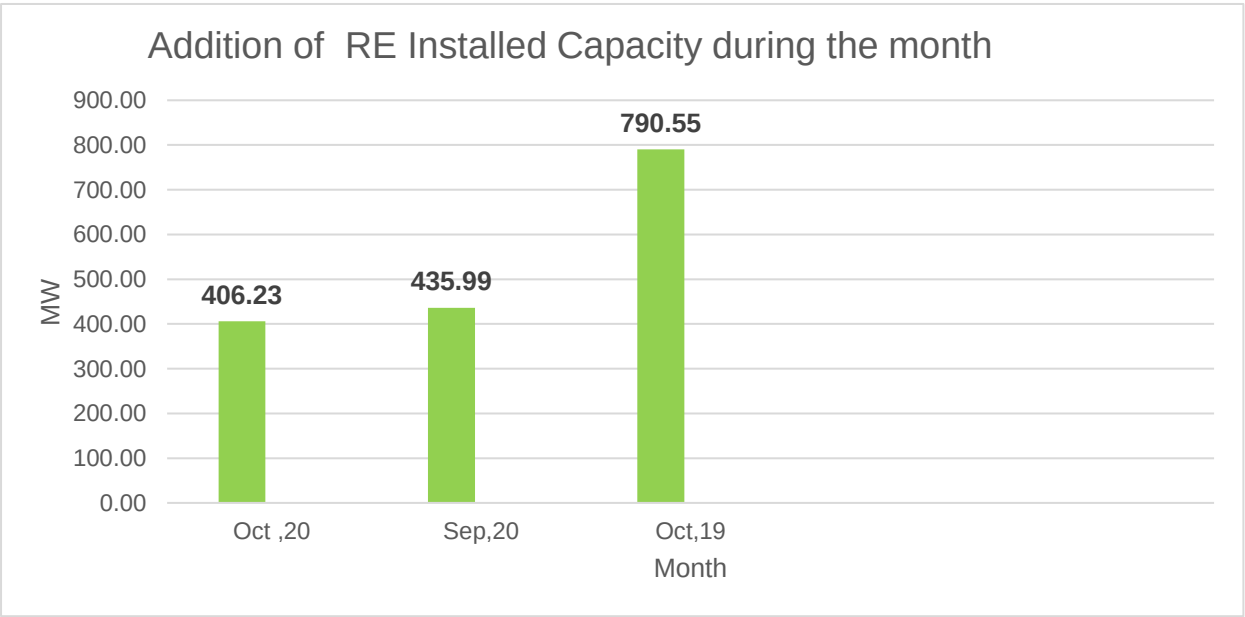


Figure 1 RE capacity added during the Month

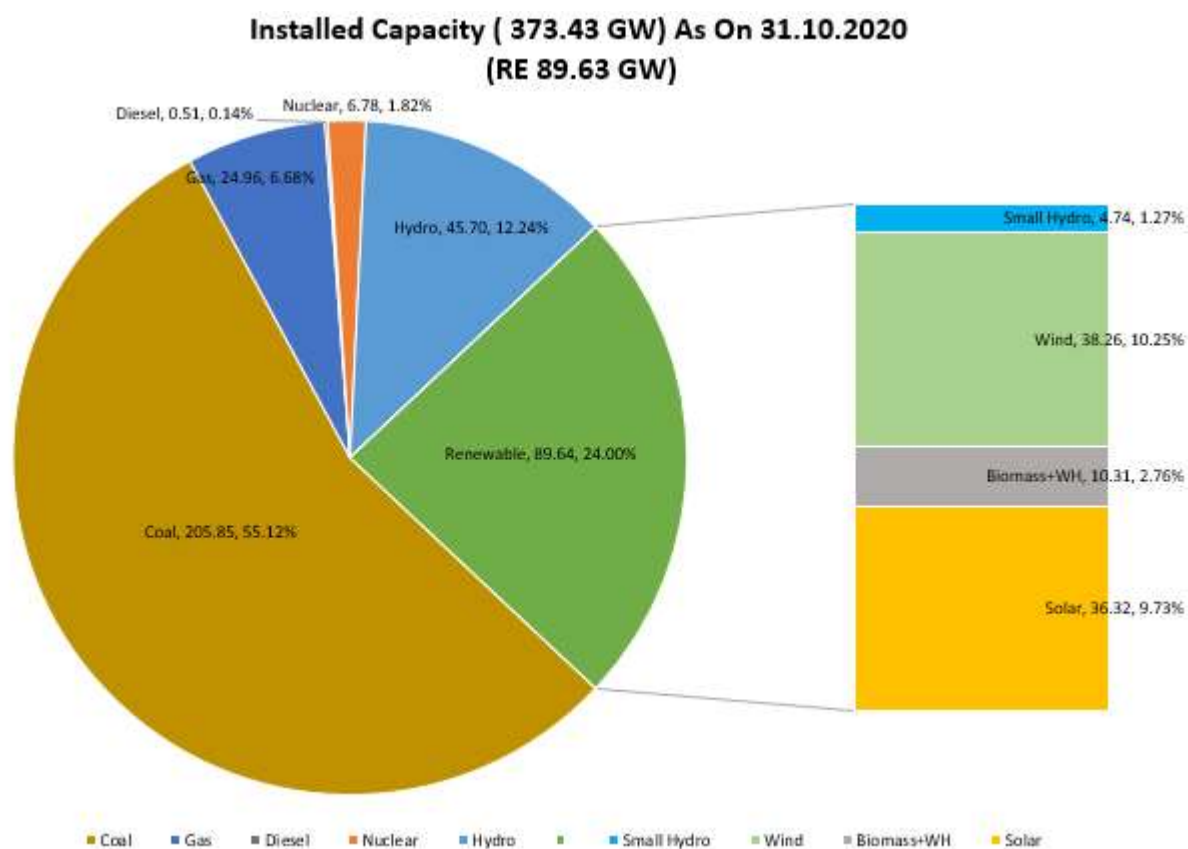


Figure 3 Installed Capacity in India as on 31.10.2020

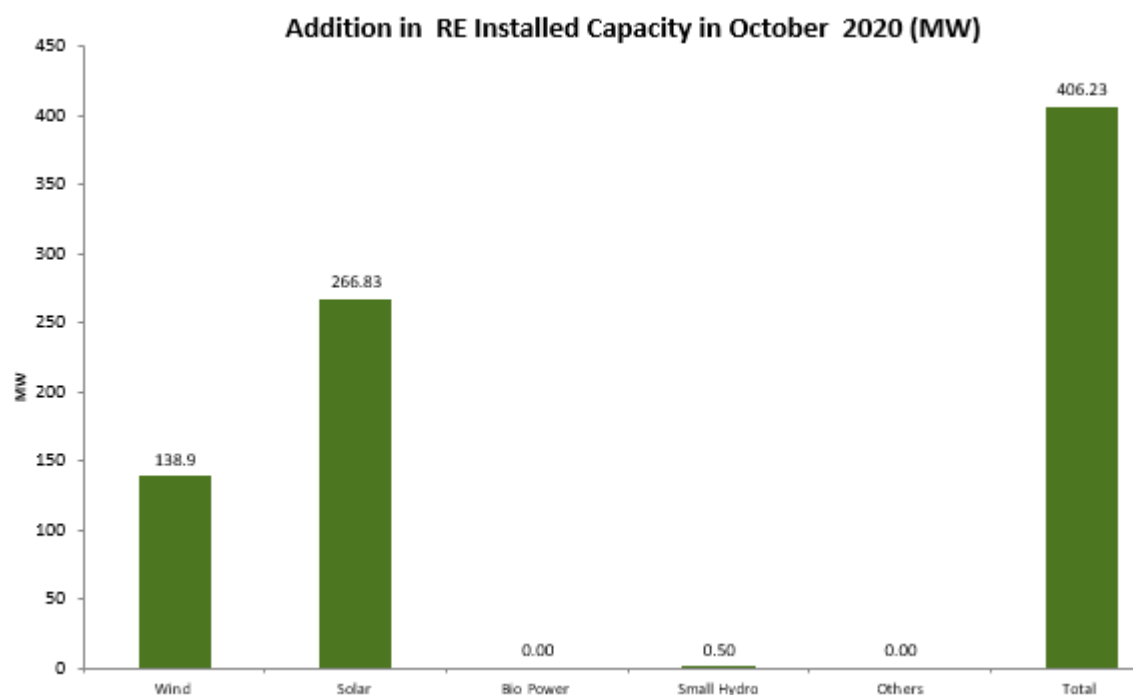


Figure 4: Addition in RE Installed Capacity in Oct 20.

HIGHLIGHTS OF RE GENERATION DURING OCTOBER, 2020

1. RE generation increased by 41.29% in October 2020 as compared to October 2019.
2. Wind Power generation during the month of October 2020 decreased in Maharashtra, and increased in Rajasthan, Gujarat Madhya Pradesh, Andhra Pradesh, Karnataka ,Tamil Nadu as compared to October, 2019.
3. Daily wind generation increased by 88.96 % as compared to October 2019 and decreases by 20.42 % as compared to September 2020.
4. Solar Power generation during the month of October, 2020 increased in Punjab, Uttar Pradesh, Rajasthan, Gujarat, Madhya Pradesh, Maharashtra ,Andhra Pradesh, Karnataka, Telangana and Tamil Nadu as compared to October, 2019.
5. Daily solar generation increased by 25.59 % as compared to October 2019 and increased by 03.69% as compared to September 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 31.10.2020 (as per MNRE)	RE Generation(MU) October '2020	RE Generation(MU) October "2019	% of Last Year (2/3)	RE Generation (MU) April'2020-October ' 2020	RE Generation (MU) April'2019-October ' 2019	% Of Last Year (5/6)
	1	2	3	4	5	6	7
Wind	38263.05	3989.92	2111.48	188.96	43062.05	47729.38	90.22
Solar	36317.57	4876.01	3882.41	125.59	34005.91	26929.21	126.28
Biomass	10145.92	266.67	249.16	107.02	1910.49	1627.09	117.42
Bagasse		292.32	249.76	117.04	2535.60	3114.35	81.42
Small Hydro	4740.47	1200.53	1110.11	108.14	7213.60	6155.77	117.18
Others	168.64	161.38	31.79	507.61	792.50	219.12	361.67
Total	89635.65	10786.82	7634.73	141.29	89520.14	85774.92	104.37

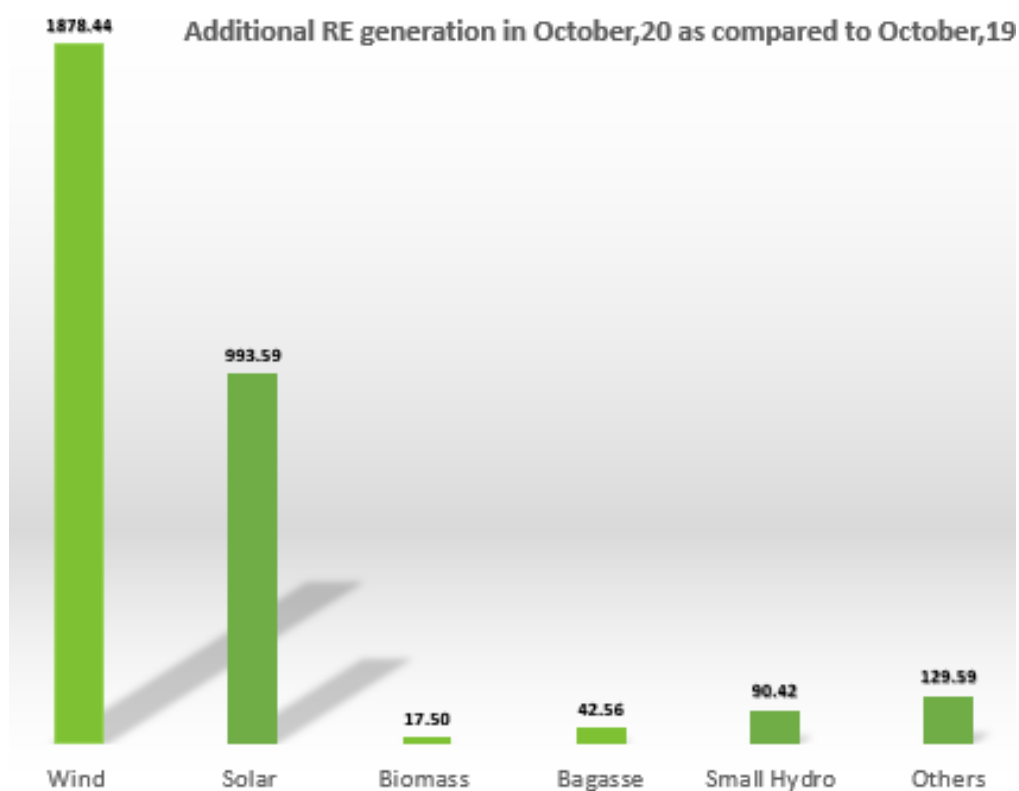


Figure 5 Additional RE Generation in Oct 20

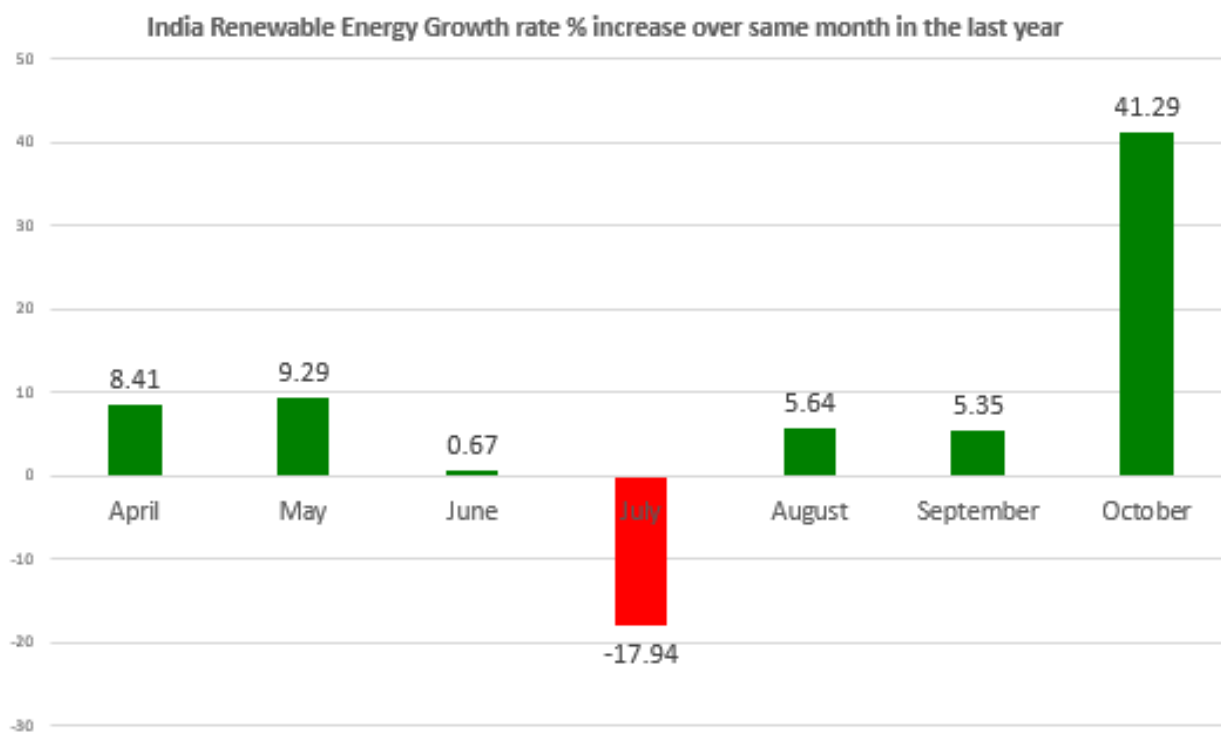


Figure 6 Month Wise Growth of RE Generation

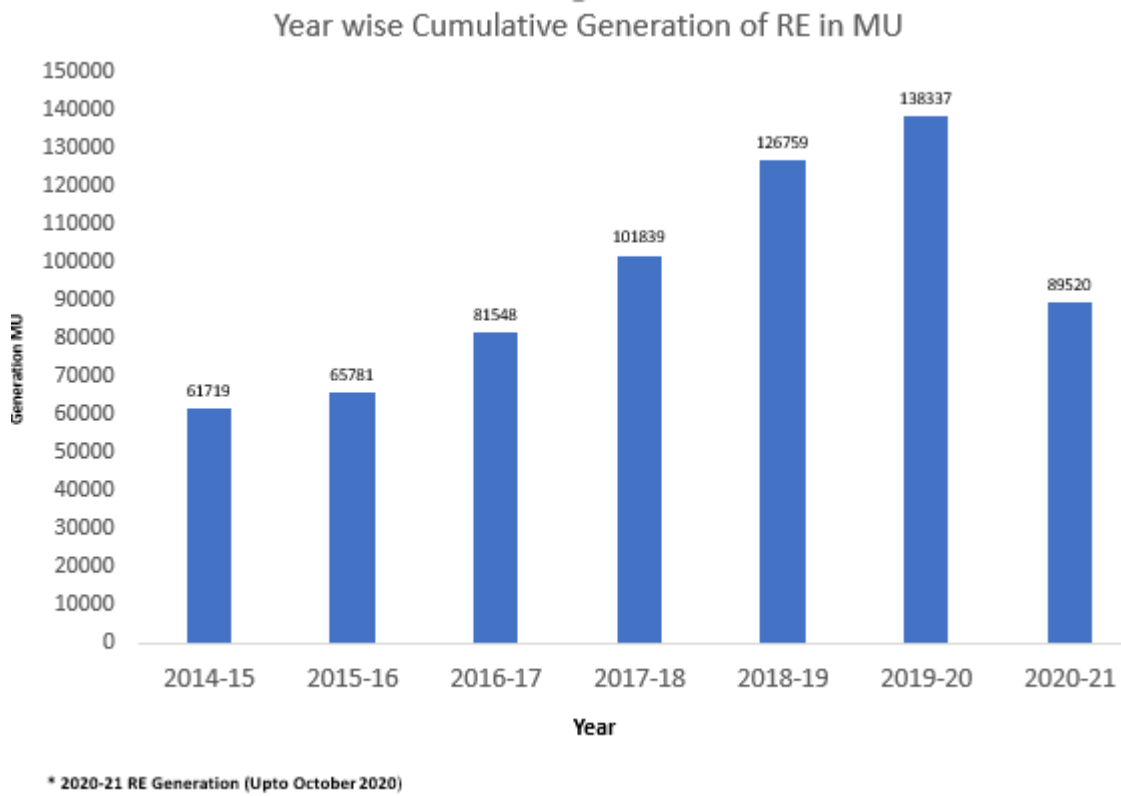


Figure 7 Year Wise RE Generation

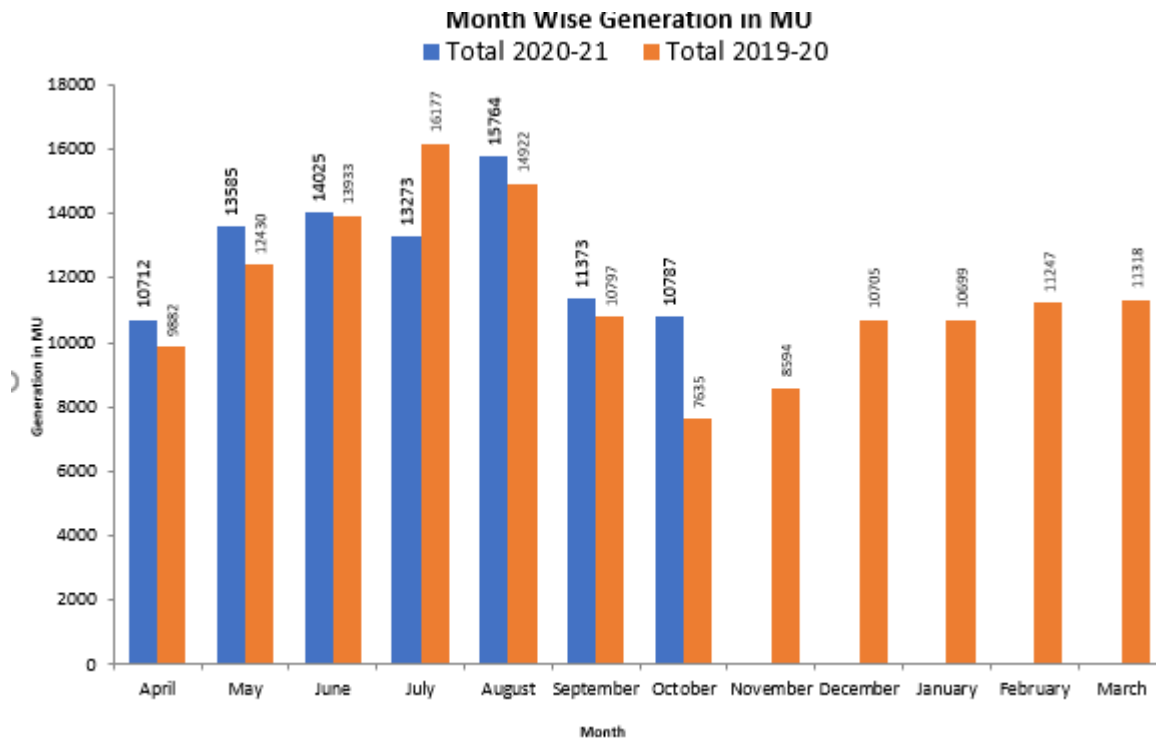


Figure 8 Month Wise RE Generation

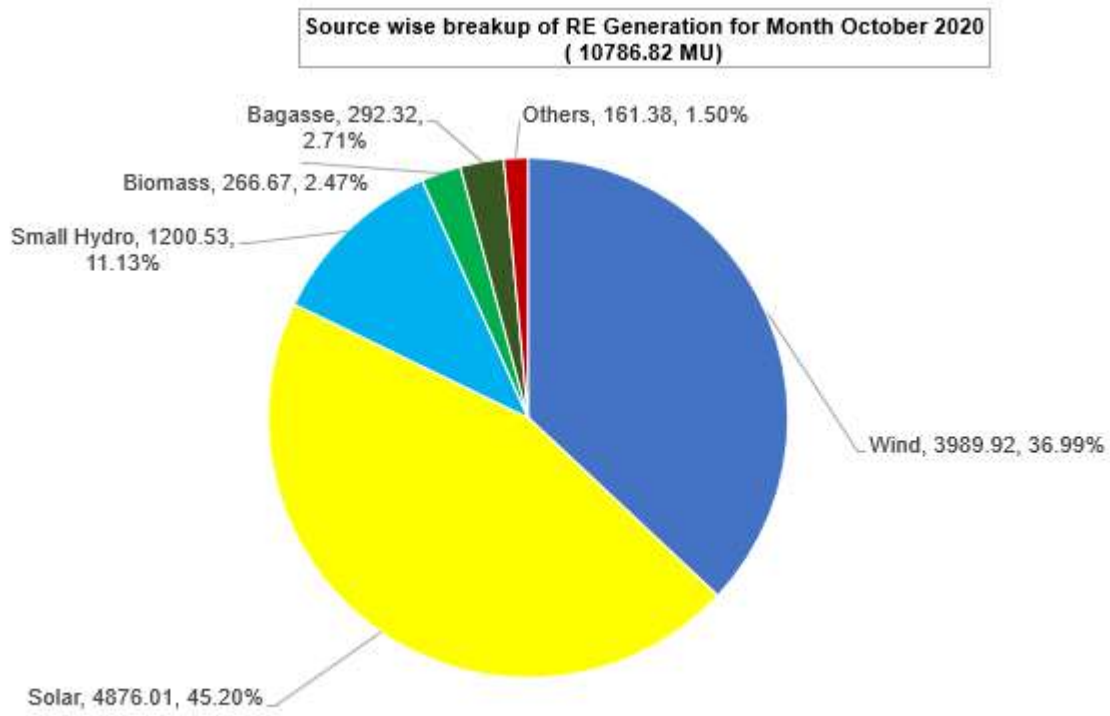


Figure 9 Source wise breakup of Monthly RE Generation

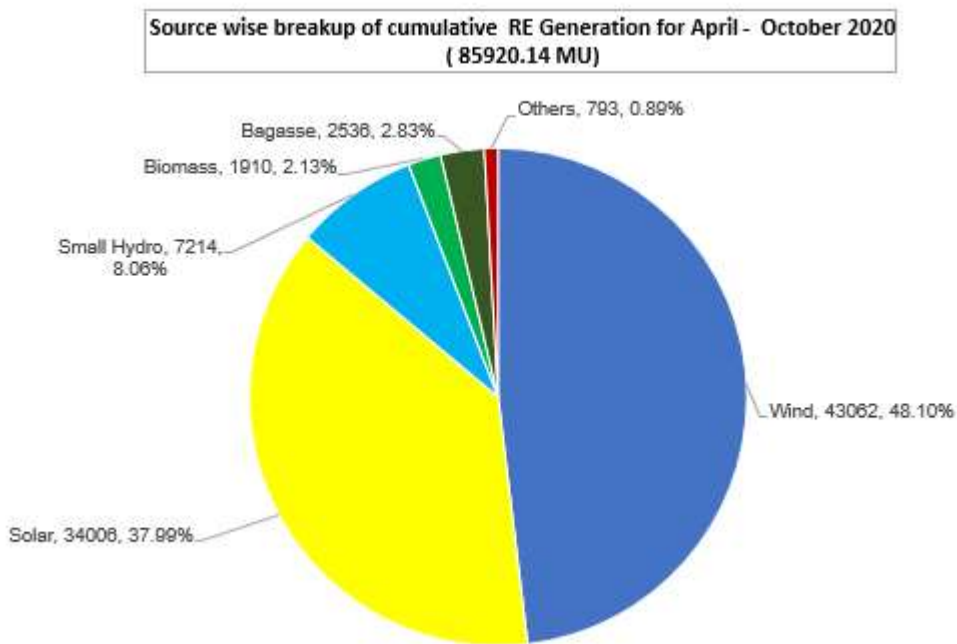


Figure 10 Source wise breakup of Cumulative RE Generation

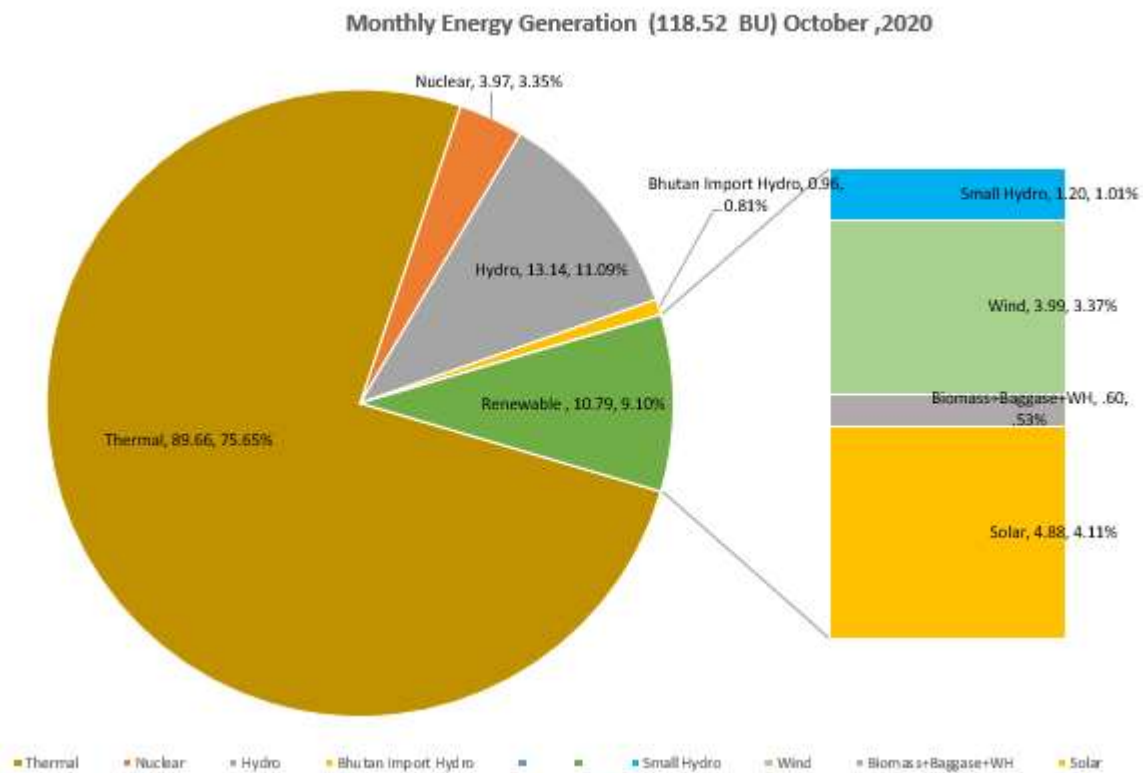


Figure 11 Monthly Energy Generation In India and RE Share

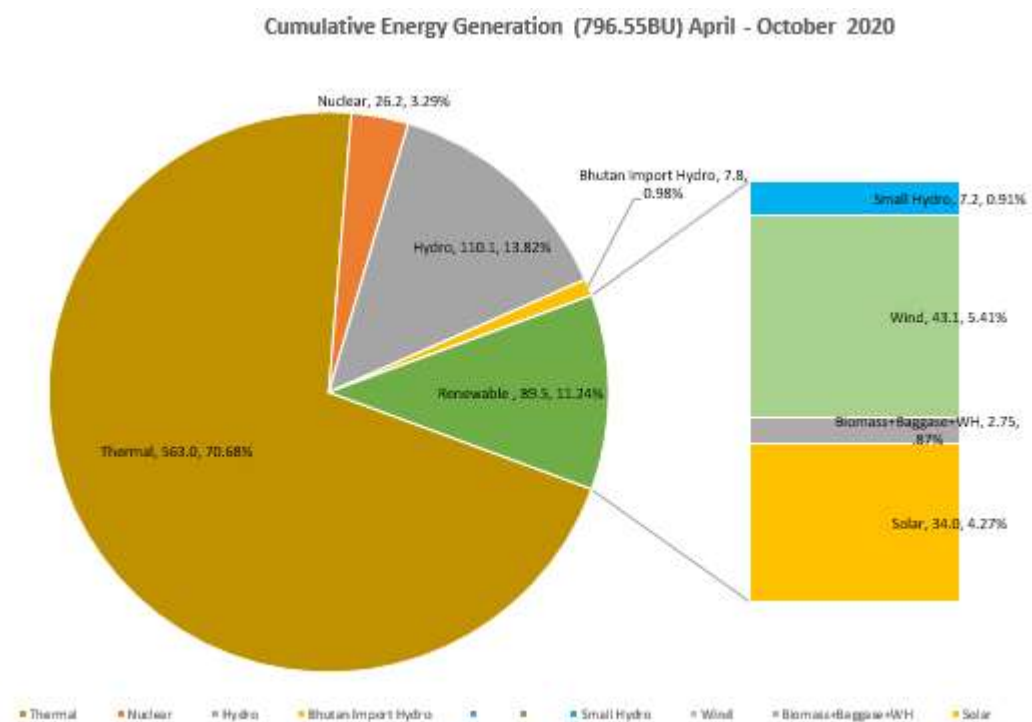


Figure 12 Cumulative Energy Generation in India and RE Share

Table 2 State Wise Renewable Energy Generation

Renewable Energy Generation (State Wise) for the month of October 2020				
State	Oct,2020	Oct,2019	April 2020 - Oct, 2020	April, 2019- Oct, 2019
Chandigarh	0.29	1.28	5.99	8.02
Delhi	35.68	40.35	269.10	272.22
Haryana	54.67	70.51	406.15	406.39
HP	186.65	208.08	1829.63	1609.65
J & K	24.50	26.31	336.75	338.01
Ladakh	0.00	0.00	0.00	0.00
Punjab	240.00	177.90	1739.41	1671.30
Rajasthan	1183.58	942.19	10307.18	8408.98
Uttar Pradesh	218.95	138.33	2105.94	1817.43
Uttarakhand	109.85	87.05	807.65	741.46
Northern Region	2054.18	1691.99	17807.80	15273.45
Chhattisgarh	119.17	140.09	850.10	625.68
Gujarat	980.92	894.22	10518.09	10505.55
Madhya Pradesh	588.66	462.32	5299.77	5171.00
Maharashtra	621.11	605.52	7320.76	8942.55
Dadra and Nagar Haveli	0.38	0.51	3.24	3.39
Daman & Diu	3.65	1.91	19.05	11.58
Goa	0.12	0.12	0.78	0.12
Western Region	2314.00	2104.68	24011.79	25259.88
Andhra Pradesh	946.69	573.01	8752.51	9638.70
Telangana	480.62	445.92	3794.27	3794.99
Karnataka	2208.57	1731.53	16310.89	14730.08
Kerala	135.60	96.29	715.51	504.13
Tamil Nadu	2347.44	737.62	16435.59	14771.69
Lakshadweep	0.05	0.05	0.29	0.37
Puducherry	0.37	0.37	2.59	2.28
Southern Region	6119.34	3584.77	46011.64	43442.23
Andaman Nicobar	3.15	1.74	24.53	9.43
Bihar	14.19	15.86	157.67	145.13
Jharkhand	1.75	1.20	9.34	9.78
Orissa	92.21	73.98	514.37	500.79
Sikkim	5.41	6.92	33.30	37.12
West Bengal	154.40	124.98	813.62	938.16
DVC	1.05	0.169	3.65	0.20
Eastern Region	272.15	224.84	1556.47	1640.61
Arunachal Pradesh	0.17	0.19	1.19	1.16
Assam	3.18	4.37	23.04	26.34
Manipur	0.48	0.24	3.92	1.23
Meghalaya	10.68	6.96	28.86	34.49
Mizoram	5.06	6.35	25.10	31.50
Nagaland	7.23	8.69	44.99	50.00
Tripura	0.34	1.63	5.33	14.03
North Eastern Region	27.14	28.44	132.44	158.75
All India Total	10786.82	7634.73	89520.14	85774.92

Table 3 State Wise Wind Power Generation

Wind Power Generation (State Wise) for the month of October,2020				
State	Oct 2020	Oct 2019	April 2020 - Oct 2020	April, 2019- Oct, 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	264.17	210.25	3897.39	4073.92
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	264.17	210.25	3897.39	4090.82
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	600.47	578.45	7924.69	8432.67
Madhya Pradesh	215.27	158.49	2690.04	3133.16
Maharashtra	259.95	311.32	4798.64	6479.32
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	1075.68	1048.26	15413.37	18045.15
Andhra Pradesh	370.26	166.88	4683.47	6121.98
Telangana	13.29	8.31	135.88	148.27
Karnataka	505.11	396.13	6476.86	7570.63
Kerala	13.72	5.16	96.35	83.03
Tamil Nadu	1747.69	276.50	12357.73	11614.84
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	2650.07	852.97	23750.29	25538.75
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	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	3989.92	2111.48	43062.05	47729.38

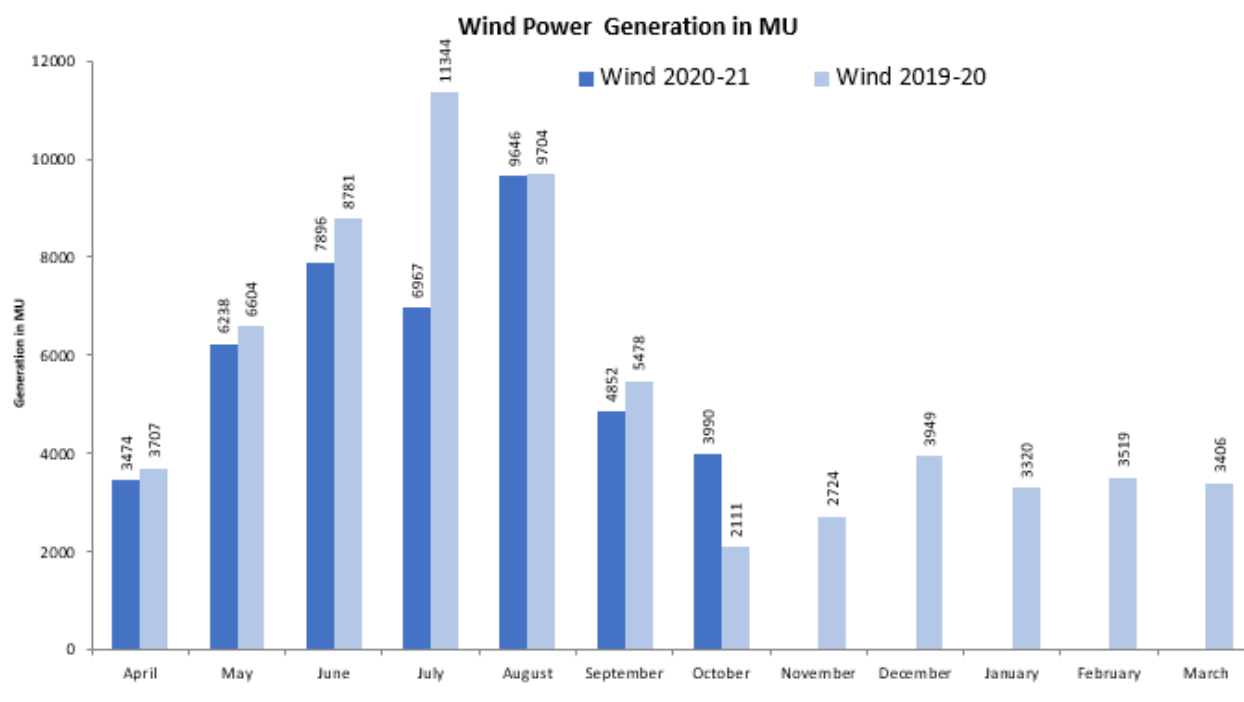


Figure 13 Month Wise Wind Power Generation

Table 4 State Wise Solar Power Generation

Solar Energy Generation (State Wise) for the month of October,2020				
State	Oct,2020	Oct,2019	April 2020 - Oct, 2020	April, 2019- Oct, 2019
Chandigarh	0.29	1.28	5.99	8.02
Delhi	17.32	12.74	121.34	93.86
Haryana	8.90	18.04	48.95	68.57
HP	3.14	0.00	21.04	0.00
J & K	0.00	0.00	2.94	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	122.08	109.38	891.09	906.92
Rajasthan	886.46	702.47	6167.99	4121.42
Uttar Pradesh	148.13	115.22	987.86	823.71
Uttarakhand	25.63	29.38	212.02	212.73
Northern Region	1211.95	988.51	8459.22	6235.23
Chhattisgarh	29.86	28.39	201.57	174.92
Gujarat	355.86	285.67	2424.87	1900.97
Madhya Pradesh	342.68	268.64	2427.87	1882.32
Maharashtra	194.65	178.62	1411.38	1326.98
Dadra and Nagar Haveli	0.38	0.51	3.24	3.39
Daman & Diu	2.42	1.91	14.19	11.58
Goa	0.12	0.12	0.78	0.12
Western Region	925.97	763.85	6483.91	5300.29
Andhra Pradesh	511.40	349.13	3803.31	3287.53
Telangana	441.57	417.72	3488.25	3528.95
Karnataka	1152.08	896.69	7621.13	5401.03
Kerala	31.61	12.19	141.38	74.97
Tamil Nadu	539.90	398.71	3587.86	2733.37
Lakshadweep	0.05	0.05	0.29	0.37
Puducherry	0.37	0.37	2.59	2.29
Southern Region	2676.97	2074.86	18644.81	15028.50
Andaman Nicobar	1.41	0.80	14.61	7.61
Bihar	12.53	13.78	101.90	93.73
Jharkhand	1.75	1.20	9.34	9.78
Orissa	38.27	32.98	243.51	208.87
Sikkim	0.00	0.00	0.00	0.00
West Bengal	5.64	5.46	37.22	37.27
DVC	0.004	0.005	0.01	0.03
Eastern Region	59.60	54.23	406.60	357.30
Arunachal Pradesh	0.12	0.14	0.88	0.75
Assam	0.56	0.54	3.02	3.26
Manipur	0.48	0.24	3.92	1.23
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.02	0.02	0.16	0.31
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.34	0.02	3.39	2.34
North Eastern Region	1.52	0.97	11.38	7.89
All India Total	4876.01	3882.41	34005.91	26929.21

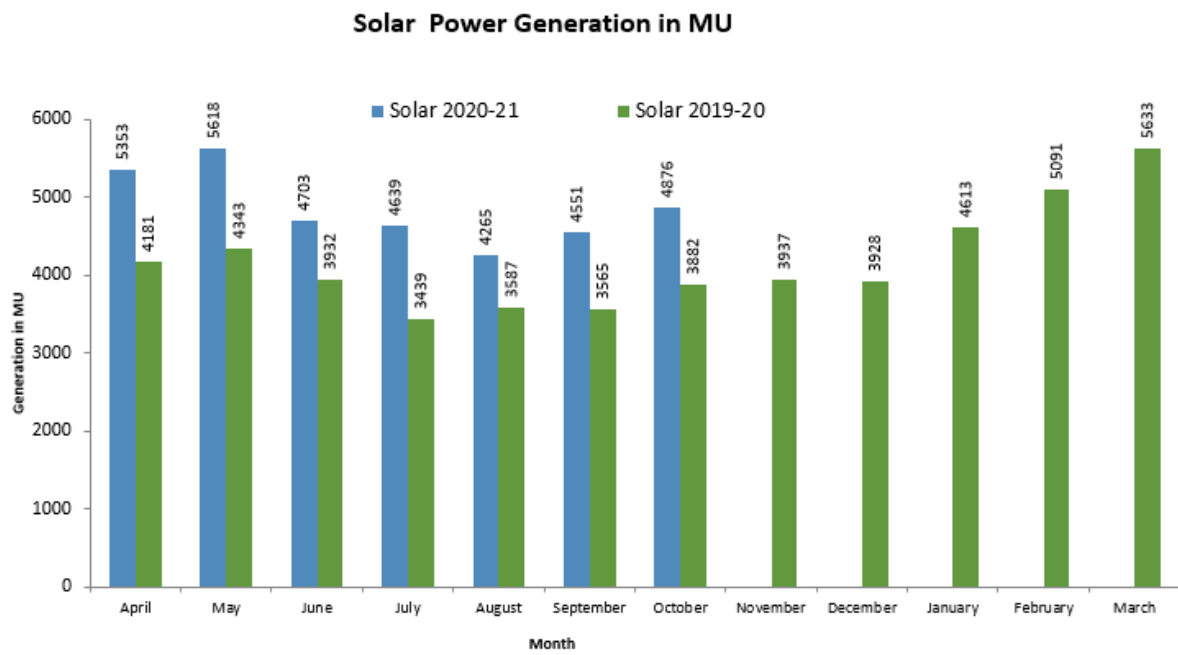


Figure 14 Month wise Solar Power Generation

Table 5 State Wise Biomass Power Generation

Biomass Energy Generation (State Wise) for the month of October ,2020				
State	Oct ,2020	Oct,2019	April 2020 – Oct 2020	April, 2019- Oct, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	16.89	17.01	100.57	116.28
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	55.74	30.73	327.76	203.14
Rajasthan	32.77	29.17	240.43	212.88
Uttar Pradesh	0.07	7.80	51.59	51.94
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	105.48	84.71	720.34	584.23
Chhattisgarh	68.47	87.04	537.60	386.63
Gujarat	0.00	6.86	43.13	51.10
Madhya Pradesh	0.09	0.14	0.24	1.14
Maharashtra	30.27	29.88	191.91	230.15
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	1.23	0.00	4.87	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	100.06	123.92	777.75	669.02
Andhra Pradesh	11.21	8.91	77.54	88.66
Telangana	12.49	9.55	95.70	72.49
Karnataka	18.86	9.61	118.76	94.94
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	16.91	8.37	85.21	68.55
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	59.47	36.42	377.21	324.64
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	1.66	1.22	11.08	9.70
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.00	2.88	24.10	39.50
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	1.66	4.10	35.18	49.20
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	266.67	249.16	1910.49	1627.09

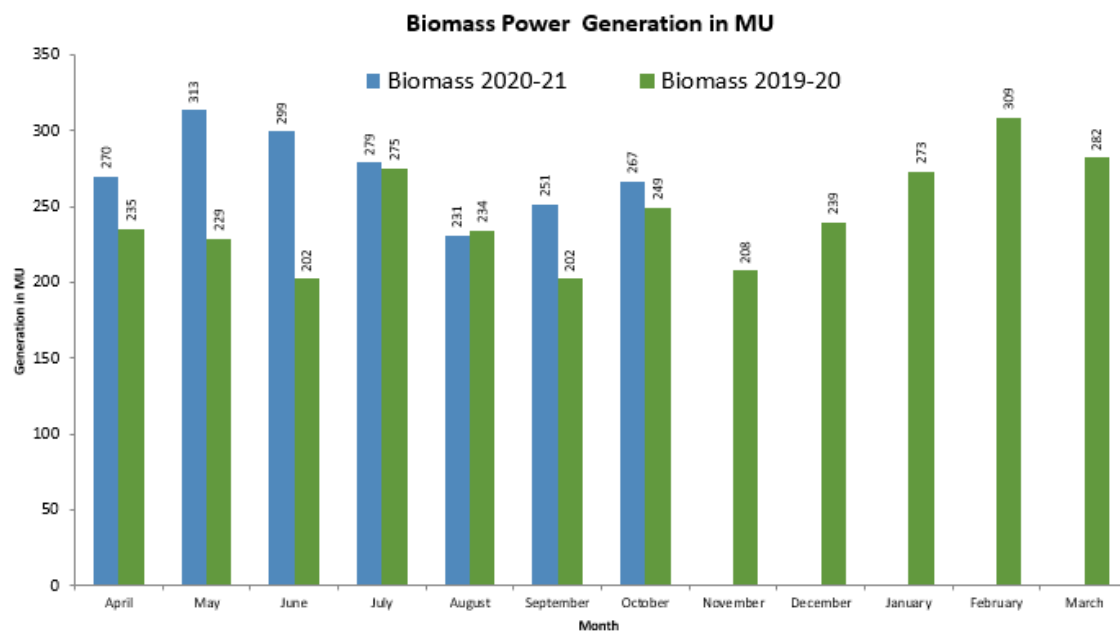


Figure 15 Month Wise Biomass Power Generation

Table 6 State Wise Bagasse Power Generation

Bagasse Energy Generation (State Wise) for the month of October 2020					
State	Oct,2020	Oct 2019	April 2020 - Oct 2020	April, 2019- Oct, 2019	Oct,
Chandigarh	0.00	0.00	0.00		0.00
Delhi	0.00	0.00	0.00		0.00
Haryana	3.74	0.00	50.48		16.06
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	3.08	0.00	34.90		94.26
Rajasthan	0.00	0.00	0.00		0.00
Uttar Pradesh	48.60	14.94	984.18		923.71
Uttarakhand	0.00	0.00	29.23		13.88
Northern Region	55.42	14.94	1098.79		1047.91
Chhattisgarh	0.00	0.00	5.08		0.00
Gujarat	0.72	0.00	3.11		3.19
Madhya Pradesh	0.00	0.00	0.00		10.68
Maharashtra	66.08	23.56	428.59		530.20
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	66.80	23.56	436.78		544.07
Andhra Pradesh	4.11	1.49	17.74		20.75
Telangana	0.00	0.11	0.10		15.04
Karnataka	145.75	83.74	517.99		394.16
Kerala	4.08	3.90	26.43		8.02
Tamil Nadu	16.16	25.63	287.55		243.28
Lakshadweep	0.00	0.00	0.00		0.00
Puducherry	0.00	0.00	0.00		0.00
Southern Region	170.10	114.88	849.81		681.25
Andaman Nicobar	0.00	0.00	0.00		0.00
Bihar	0.00	0.00	1.48		31.09
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	96.38	148.73		810.02
DVC	0.00	0.00	0.00		0.00
Eastern Region	0.00	96.38	150.21		841.11
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	292.32	249.76	2535.60		3114.35

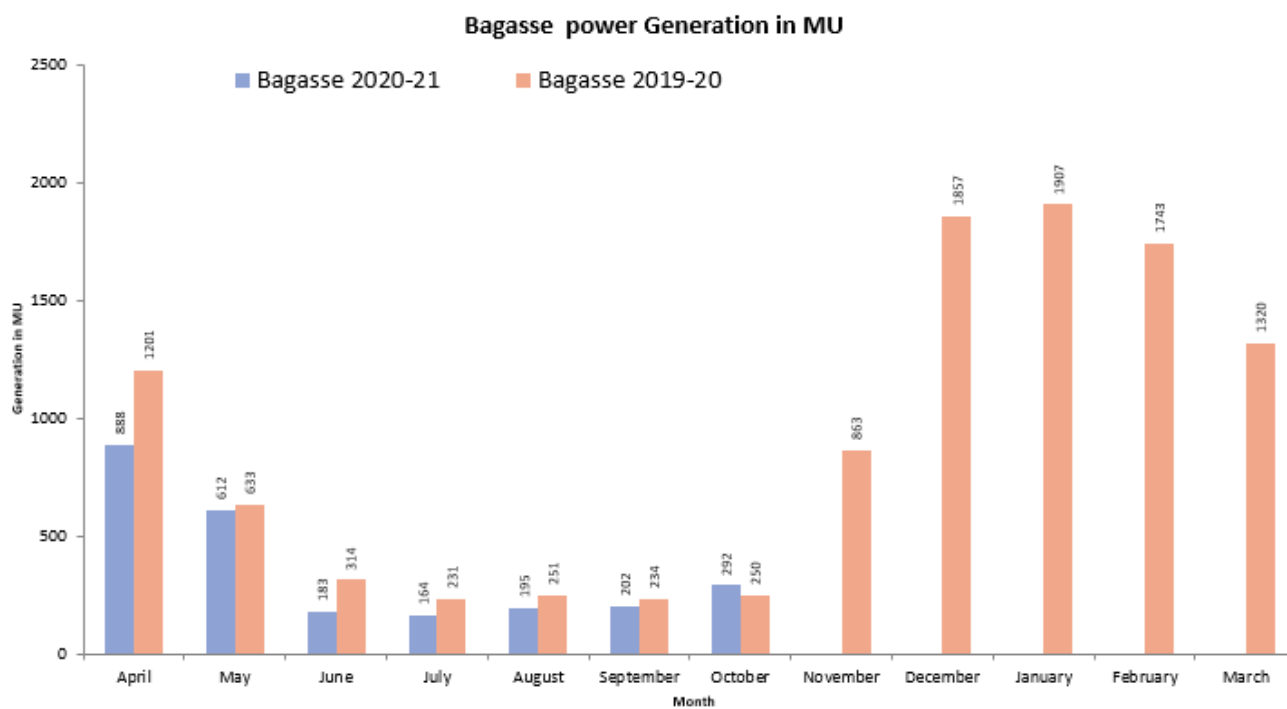


Figure 16 Month wise bagasse Power Generation

Table 7 State Wise Small Hydro Generation

Small Hydro Energy Generation (State Wise) for the month of October,2020				
State	Oct 2020	Oct,2019	April 2020 - Oct, 2020	April, 2019- Sep
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	25.14	35.46	206.16	205.47
HP	183.51	208.08	1808.60	1609.65
J & K	24.50	26.31	333.81	338.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	59.10	37.74	485.64	449.91
Rajasthan	0.18	0.30	1.37	0.77
Uttar Pradesh	22.16	0.37	82.31	18.09
Uttarakhand	84.22	57.67	566.40	514.85
Northern Region	398.81	365.92	3484.29	3136.73
Chhattisgarh	20.83	24.66	105.85	64.12
Gujarat	23.87	23.25	111.67	101.54
Madhya Pradesh	27.30	31.47	162.09	127.99
Maharashtra	70.17	62.06	490.18	375.30
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	142.17	141.43	869.80	668.94
Andhra Pradesh	42.63	46.13	147.12	116.01
Telangana	7.43	10.23	30.82	25.81
Karnataka	386.77	345.36	1576.15	1269.32
Kerala	86.20	75.04	451.35	338.11
Tamil Nadu	26.78	28.41	117.24	111.64
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	549.80	505.16	2322.68	1860.89
Andaman Nicobar	1.74	0.94	9.92	1.81
Bihar	0.00	0.85	43.20	10.61
Jharkhand	0.00	0.00	0.00	0.00
Orissa	53.94	38.13	246.76	197.76
Sikkim	5.41	6.92	33.30	37.12
West Bengal	21.99	23.13	79.96	90.86
DVC	1.04	0.16	3.64	0.17
Eastern Region	84.13	70.13	416.78	338.34
Arunachal Pradesh	0.05	0.05	0.31	0.41
Assam	2.62	3.83	20.02	23.09
Manipur	0.00	0.00	0.00	0.00
Meghalaya	10.68	6.96	28.86	34.49
Mizoram	5.04	6.33	24.94	31.19
Nagaland	7.23	8.69	43.99	50.00
Tripura	0.00	1.61	1.94	11.68
North Eastern Region	25.62	27.47	120.06	150.86
All India Total	1200.53	1110.11	7213.60	6155.77

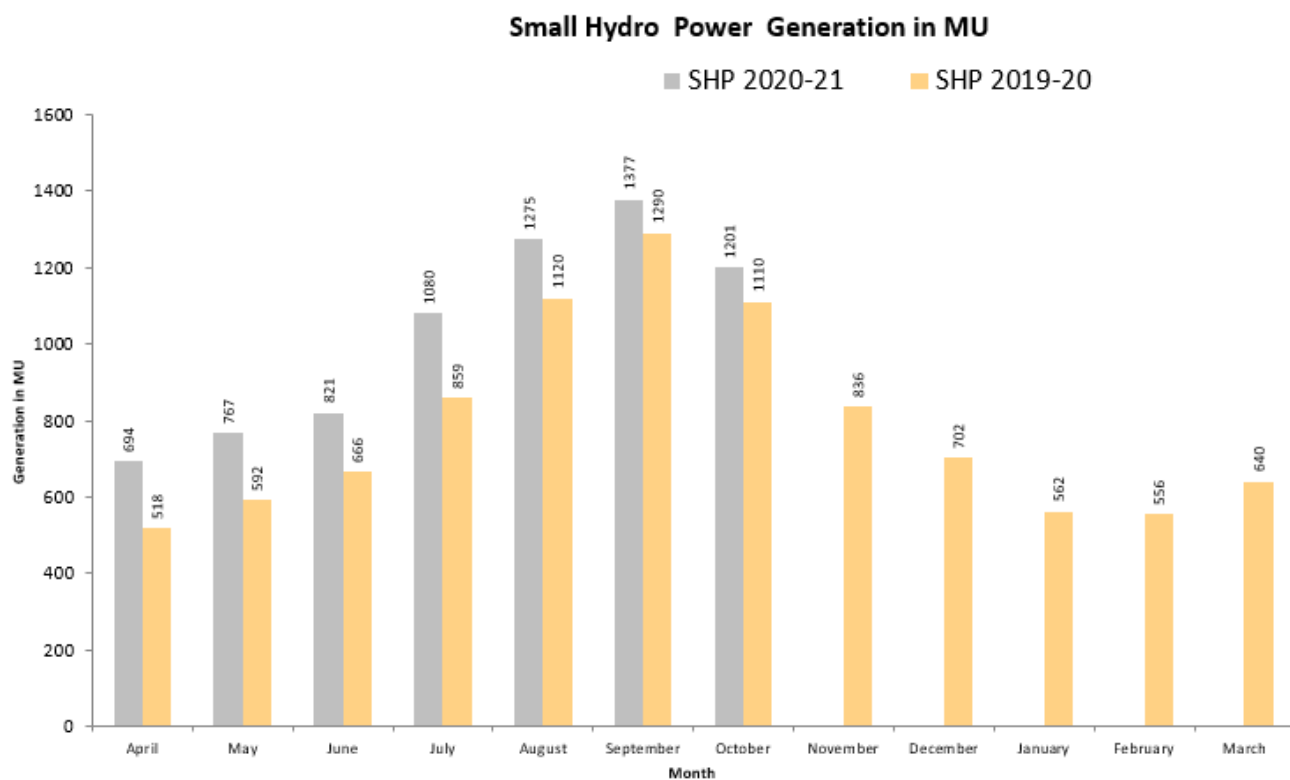


Figure 17 Month wise Small Hydro Power Generation

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

Other RE sources Energy Generation (State Wise) for the month of October ,2020				
State	Oct,2020	Oct,2019	April 2020 - Oct 2020	April, 2019- Oct 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	18.36	27.61	147.75	178.38
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	0.05	0.01	0.17
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	18.36	27.66	147.76	178.55
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	0.00	0.00	10.61	16.07
Madhya Pradesh	3.32	3.58	19.53	15.72
Maharashtra	0.00	0.08	0.05	0.59
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	3.32	3.66	30.18	32.38
Andhra Pradesh	7.08	0.47	23.33	3.76
Telangana	5.84	0.00	43.52	4.43
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	12.92	0.47	66.85	8.19
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	126.77	0.00	547.71	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	126.77	0.00	547.71	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	161.38	31.79	792.50	219.12

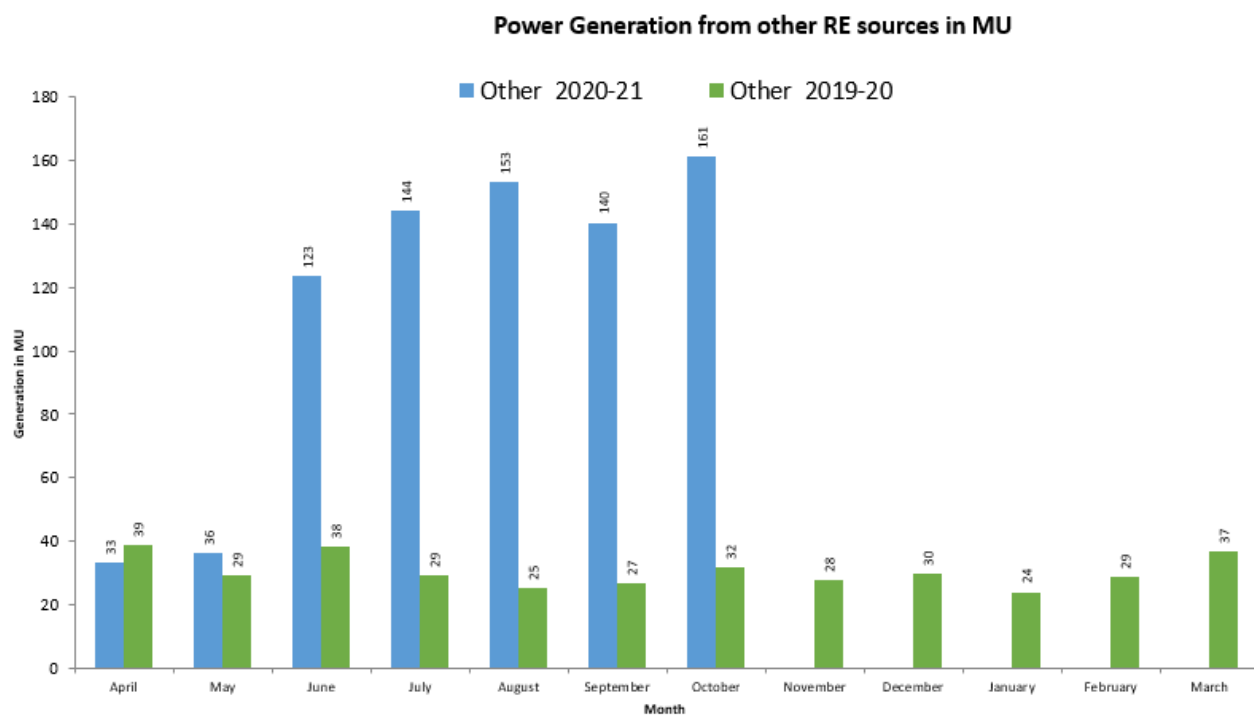


Figure 18 Month Other RE (Waste Heat etc) Power Generation

Table 9: Renewable Energy Generation by ISGS Stations

Monthly RE generation from Inter State Generating Station (ISGS) for October, 2020							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF (%)
DADRI SOLAR	Uttar Pradesh	Central	NTPC	Solar	5	0.59	16%
SINGRAULI SOLAR	Uttar Pradesh	Central	NTPC	Solar	15	1.70	16%
UNCHAHAR SOLAR	Uttar Pradesh	Central	NTPC	Solar	10	2.06	29%
ADANI GREEN ENERGY NINETEEN LTD	Rajasthan	Private	IPP	Solar	50	10.29	29%
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Rajasthan	Private	IPP	Solar	50	10.50	29%
MAHOBASOLAR (UP) PRIVATE LTD	Rajasthan	Private	IPP	Solar	200	42.06	29%
ACME CHITTORGARH ENERGY PVT LTD	Rajasthan	Private	IPP	Solar	250	43.84	24%
AZURE POWER INDIA PVT LTD	Rajasthan	Private	IPP	Solar	200	37.73	26%
AZURE POWER THIRTY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	130	27.96	30%
CLEAN SOLAR POWER (BHADLA) PVT LDT	Rajasthan	Private	IPP	Solar	300	61.82	29%
RENEW SOLAR POWER PVT LTD	Rajasthan	Private	IPP	Solar	50	10.62	30%
RENEW SOLAR POWER PVT LTD. BIKANER	Rajasthan	Private	IPP	Solar	250	52.86	29%
SB ENERGY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	200	42.83	30%
TATA POWER RENEWABLE ENERGY LTD	Rajasthan	Private	IPP	Solar	150	31.84	29%
Northern Region					1860	376.70	
ACME SOLAR (RAMNAGAR)	Madhya Pradesh	Private	IPP	Solar	250	37.75	21%
ARINSUN SOLAR (BARSAITADESH)	Madhya Pradesh	Private	IPP	Solar	250	38.84	22%
MAHINDRA SOLAR (BADWAR)	Madhya Pradesh	Private	IPP	Solar	250	42.45	24%
RENEW SOLAR (BHUVAD)	Gujarat	Private	IPP	Solar	250	23.85	13%
ALFANAR WIND	Gujarat	Private	IPP	Wind	300	23.63	11%
GIWEL-II WIND (VADVA)	Gujarat	Private	IPP	Wind	250	30.25	17%
GIWEL-III WIND (NARANPAR)	Gujarat	Private	IPP	Wind	300	30.59	14%
ADANI GREEN ENERGY MP LTD(DAYAPAR)	Gujarat	Private	IPP	Wind	176.6	19.26	15%

IWISL WIND (DAYAPAR)	Gujarat	Private	IPP	Wind	250	14.62	8%
OSTRO WIND (KUTCH)	Gujarat	Private	IPP	Wind	250	32.77	18%
RENEW WIND ENERGY AP2	Gujarat	Private	IPP	Wind	300	6.68	15%
Western Region					2526.6	300.69	17%
GREEN INFRA	Tamil Nadu	Private	IPP	Wind	250	69.40	39%
ORANGE	Tamil Nadu	Private	IPP	Wind	200	57.01	40%
MYTRA	Tamil Nadu	Private	IPP	Wind	187	54.22	40%
BEETAM (TITUCORIN)	Tamil Nadu	Private	IPP	Wind	126.2	31.95	35%
Southern Region					763.2	212.58	
Total					5149.8	889.97	

Table 10 Renewable Energy Generation by CPSU Owned stations

Renewable Energy Generation Data (CPSU Wise) for October 2020						
CPSU	State	Installed Capacity (MW)	Source	Actual Generation (MU)	Cumulative Generation (MU)	Monthly CUF (%)
				October,2020	April 2020 to October 2020	
NTPC						
NTPC Faridabad _Solar	Haryana	5	Solar	0.56	4.23	15.05
NTPC Bhadla	Rajasthan	260	Solar	38.04	267.54	19.67
NTPC Dadri _Solar	Uttar Pradesh	5	Solar	0.59	4.16	15.86
NTPC Unchahar _Solar	Uttar Pradesh	10	Solar	2.06	9.40	27.69
NTPC Singrauli _Solar	Uttar Pradesh	15	Solar	1.70	12.34	15.23
NTPC Singrauli _SH	Uttar Pradesh	8	Small Hydro	0.00	13.70	0.00
NTPC Rojmal	Gujarat	50	Wind	4.45	48.00	11.96
NTPC Rajgarh _Solar	Madhya Pradesh	50	Solar	6.69	45.60	17.98
NTPC Mandsaur	Madhya Pradesh	250	Solar	34.31	229.20	18.45
NTPC Anantapuram	Andhra Pradesh	250	Solar	28.55	218.04	15.35
NTPC Ramagundam	Telangana	10	Solar	1.10	7.85	14.78
NTPC Andaman Nicobar	Andaman Nicobar	5	Solar	0.38	2.71	10.22
NTPC Talchar _Solar	Orissa	10	Solar	1.12	7.73	15.05
Total NTPC		928		119.55	870.51	
THDC						
THDC Patan Wind Power Project	Gujarat	24.33	Wind	2.99	46.99	8.04
THDC Devbhumi Dwarka Wind Power Project	Gujarat	42.28	Wind	6.10	79.47	13.01
THDC Dhukwan SHEP Jhansi,UP	Uttar Pradesh	22.16	Small Hydro	11.09	34.94	62.11
Total THDC		39.05		20.18	161.40	
NHPC						
NHPC Wind Power Project	Rajasthan	20.25	Wind	3.38	42.85	9.09
NHPC Solar Power Project	Tamil Nadu	21.20	Solar	7.44	54.50	19.99
Total NHPC		20.73		10.82	97.35	14.54
ONGC						
ONGC Wind, Bhuj	Gujarat	30.65	Wind	1.71	44.80	4.51
ONGC Wind, Jaisalmer	Rajasthan	18.68	Wind	4.98	87.31	6.57
ONGC Solar, Goa	Goa	12.86	Solar	0.12	0.78	16.67
ONGC Solar, Hazira	Gujarat	10.64	Solar	1.31	8.49	17.59
ONGC Solar, Ankleshwar	Gujarat	13.45	Solar	0.68	4.71	18.17
ONGC Solar, Rajahmundry	Andhra Pradesh	10.86	Solar	0.08	0.66	10.59
ONGS Solar, SPP of Assam	Assam	13.20	Solar	0.11	0.30	12.95

Renewable Energy Generation Data (CPSU Wise) for October 2020

ONGC Solar, SPP of Tati paka, Rajahmundry	Andhra Pradesh	0.56	Solar	0.41	0.76	10.97
ONGC Solar, Rooftop (RTS) Gujarat	Gujarat	8.78	Solar	0.44	2.78	13.97
ONGC Solar, Assam (RTS)	Assam	11.57	Solar	0.13	1.01	10.87
ONGC Solar, Uttarakhand (RTS)	Uttarakhand	11.12	Solar	0.14	0.87	15.55
ONGC Solar, Agartala asset	Tripura	13.30	Solar	0.02	0.15	12.90
ONGC Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.73	Solar	0.002	0.02	0.94
ONGC Solar, Cauvery Assest Karaikal	Maharashtra	80.12	Solar	0.0080	0.04	71.68
ONGC Solar,DDU Bhawan, (Under Maintenance)	Goa	0.00	Solar	0.00	0.00	0.00
Total ONGC		20.42		10.15	152.69	
SJVN Limited						
Khirvire Wind Power	Maharashtra	40.27	Wind	1.64	53.01	4.64
Sadla Wind Power	Gujarat	30.97	Solar	3.27	53.68	8.80
Charanka Solar Power	Gujarat	7.47	Solar	0.01	3.62	0.26
Total SJVN		33.98		4.93	110.31	
Oil India Ltd						
Oil India Ltd	Rajasthan	19.68	Solar	2.19	14.92	20.98
Oil India Ltd	Rajasthan	13.99	Wind	3.22	46.32	6.40
Oil India Ltd	Gujarat	33.41	Wind	5.39	47.27	16.72
Oil India Ltd	Madhya Pradesh	32.20	Wind	6.90	79.24	14.68
Total Oil India Ltd		25.00		17.69	187.75	
NEEPCO	Tripura	5	Solar	0.32	3.08	8.64
All India		1645.30		183.63	1583.09	

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 OCTOBER,2020,

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

Table 11 RE Curtailment Data as available from SLDCs

Renewable Energy Curtailment for the month of October-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	0	SLDC, RRVPNL Website- https://sldc.rajasthan.gov.in/mis/monthlyReDsmReports
8.	Madhya Pradesh	0	SLDC, MP Power Transmission Corporation Ltd.- http://223.31.122.117/mpslhc/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
1-10-2020	48	11:49:00	200	200	1242	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	50	12:21:00	50	50	1202	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
11-10-2020	50	12:21:00	200	400	1202	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	50	12:21:00	100	100	1202	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-10-2020	50	12:21:00	75	75	1202	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
11-10-2020	51	12:38:00	50	100	833	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
11-10-2020	51	12:38:00	200	600	833	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	53	13:05:00	200	800	622	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	53	13:05:00	60	160	622	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-10-2020	53	13:05:00	40	115	622	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
11-10-2020	54	13:18:00	100	900	396	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	57	14:10:00	100	1000	228	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	57	14:10:00	14	174	228	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-10-2020	57	14:10:00	14	129	228	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
11-10-2020	69	17:06:00	-100	0	73	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
11-10-2020	69	17:06:00	-1000	0	73	Released to maintain grid security as per IEGC regulation (At Ghani SS)
11-10-2020	69	17:06:00	-174	0	73	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-10-2020	69	17:06:00	-129	0	73	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
12-10-2020	43	10:36:00	300	300	1274	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)

12-10-2020	43	10:36:00	50	50	1274	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
12-10-2020	43	10:36:00	50	50	1274	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-10-2020	43	10:36:00	100	100	1274	curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
12-10-2020	45	11:09:00	-200	100	819	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-10-2020	46	11:26:00	-100	0	989	Released to maintain grid security as per IEGC regulation (At Ghani SS)
12-10-2020	46	11:26:00	-50	0	989	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
12-10-2020	46	11:26:00	-100	0	989	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
12-10-2020	47	11:31:00	-50	0	958	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
13-10-2020	46	11:28:00	200	200	1121	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
13-10-2020	47	11:32:00	100	100	1147	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-10-2020	47	11:34:00	100	100	1103	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
13-10-2020	49	12:10:00	-100	0	775	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-10-2020	49	12:12:00	-200	0	750	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-10-2020	52	12:58:00	300	300	1223	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
13-10-2020	52	13:00:00	100	100	1247	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-10-2020	59	14:31:00	-300	0	867	Released to maintain grid security as per IEGC regulation (At Ghani SS)
13-10-2020	59	14:36:00	-100	0	965	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
13-10-2020	59	14:43:00	-100	0	982	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
14-10-2020	39	09:36:00	300	300	1300	curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
14-10-2020	39	09:37:00	100	100	1284	curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
14-10-2020	39	09:39:00	100	100	1250	curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)

14-10-2020	50	12:18:00	-300	0	838	Released to maintain grid security as per IEGC regulation (At Ghani SS)
14-10-2020	50	12:18:00	-100	0	838	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
14-10-2020	54	13:18:00	-100	0	659	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)

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
01-10-2020	3	00:43:00	-20	30	999	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
01-10-2020	5	01:01:00	-30	0	1086	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
01-10-2020	5	01:01:00	-100	0	250	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	40	09:59:00	50	50	243	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	40	09:59:00	20	20	456	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	41	10:06:00	50	100	228	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	41	10:06:00	30	50	430	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	44	10:46:00	30	80	268	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	45	11:06:00	20	100	128	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	46	11:16:00	-40	60	195	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	48	11:48:00	-20	40	264	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	49	12:06:00	-20	20	270	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	49	12:12:00	-20	0	264	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
02-10-2020	49	12:12:00	-100	0	140	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
03-10-2020	40	09:47:00	50	50	410	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
03-10-2020	40	09:47:00	30	30	1055	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
03-10-2020	53	13:00:00	-20	10	827	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
03-10-2020	55	13:43:00	-10	0	834	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
03-10-2020	55	13:43:00	-50	0	341	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	11	02:35:00	50	50	474	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	11	02:35:00	20	20	1745	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	18	04:24:00	-20	0	1620	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	18	04:24:00	-50	0	479	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	36	08:52:00	50	50	460	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	36	08:52:00	30	30	983	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	38	09:24:00	50	100	417	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	38	09:24:00	20	50	911	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	40	09:58:00	30	80	875	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	47	11:34:00	-20	60	569	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	48	11:50:00	-10	50	640	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	48	11:50:00	-50	50	337	Wind generators with temporary connectivity are released to

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
						maintain grid security as per IEGC regulation (in percentage)
04-10-2020	58	14:18:00	-30	20	704	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	59	14:33:00	-20	0	801	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
04-10-2020	59	14:33:00	-50	0	305	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	4	00:54:00	50	50	435	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	4	00:54:00	30	30	985	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	8	01:54:00	-30	0	898	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	8	01:54:00	-50	0	376	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	53	13:10:00	50	50	76	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	53	13:10:00	50	50	200	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	54	13:19:00	50	100	85	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	54	13:19:00	50	100	172	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	70	17:22:00	-50	50	81	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	71	17:37:00	-50	0	101	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	71	17:37:00	-100	0	21	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	86	21:18:00	50	50	124	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
11-10-2020	86	21:18:00	40	40	269	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	87	21:35:00	50	100	89	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	87	21:35:00	20	60	172	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	96	23:47:00	-100	0	120	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
11-10-2020	96	23:47:00	-60	0	370	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
12-10-2020	0	00:00:00	0	0		Curtailment -NIL
13-10-2020	31	07:35:00	50	50	181	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	31	07:35:00	40	40	489	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	32	07:58:00	50	100	155	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	32	07:58:00	20	60	430	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	34	08:23:00	30	90	398	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	37	09:03:00	-40	50	491	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	41	10:12:00	30	80	636	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	44	10:50:00	10	90	557	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	64	15:48:00	-20	70	586	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	66	16:20:00	-40	30	671	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	67	16:35:00	-30	0	834	Wind generators with permanent connectivity are released to

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
						maintain grid security as per IEGC regulation (in percentage)
13-10-2020	67	16:35:00	-100	0	834	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	80	19:58:00	100	100	410	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	80	19:58:00	30	30	1045	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	84	20:55:00	-20	10	983	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	85	21:06:00	-10	0	1095	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
13-10-2020	85	21:06:00	-100	0	409	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	1	00:01:00	50	50	510	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	1	00:01:00	20	20	1671	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	8	01:47:00	30	50	1638	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	9	02:10:00	50	100	424	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	9	02:10:00	20	70	1353	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	17	04:10:00	-20	50	1080	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	20	04:54:00	-20	30	1311	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	24	05:54:00	20	50	1551	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	34	08:28:00	30	80	1293	Wind generators with permanent 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
14-10-2020	37	09:14:00	15	95	964	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	54	13:25:00	-20	75	504	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	56	13:50:00	10	85	809	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	59	14:35:00	-15	70	720	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	59	14:42:00	-20	50	746	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	62	15:17:00	-30	20	1123	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	66	16:20:00	-20	0	1494	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	66	16:20:00	-100	0	478	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	69	17:10:00	100	100	492	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	69	17:10:00	30	30	1558	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	70	17:28:00	-30	0	1315	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	70	17:28:00	-100	0	1315	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	80	19:51:00	100	100	474	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	80	19:51:00	40	40	1744	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	81	20:02:00	-40	0	1360	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
14-10-2020	81	20:02:00	-100	0	416	Wind generators with temporary connectivity are released to

Date	Block No	Time	Wind curtailment (MW)	Total Wind Curtailment (MW)	Wind generation (MW)	Reasons for Backing down
						maintain grid security as per IEGC regulation (in percentage)
15-10-2020	37	09:06:00	50	50	345	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	37	09:06:00	40	40	529	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	40	09:55:00	50	100	314	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	40	09:55:00	30	70	595	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	41	10:05:00	20	90	542	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	47	11:37:00	-10	80	473	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	47	11:43:00	-20	60	482	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	49	12:08:00	-30	30	556	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	50	12:22:00	-50	50	204	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	50	12:22:00	-10	20	722	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	51	12:42:00	-50	0	238	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	51	12:42:00	-20	0	788	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	53	13:02:00	50	50	291	Wind generators with temporary connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	53	13:02:00	20	20	1206	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	54	13:28:00	50	100	238	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
15-10-2020	54	13:28:00	20	40	947	Wind generators with permanent connectivity are curtailed to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	61	15:11:00	-50	50	202	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	61	15:11:00	-20	20	905	Wind generators with permanent connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	63	15:32:00	-50	0	204	Wind generators with temporary connectivity are released to maintain grid security as per IEGC regulation (in percentage)
15-10-2020	63	15:32:00	-20	0	959	Wind generators with permanent connectivity are released 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 October 2020				
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.
Northern Region				
ACME CHITTORGARH ENERGY PVT LTD	Solar	44.51	43.84	-0.67
ADANI GREEN ENERGY NINETEEN LTD	Solar	10.45	10.29	-0.16
AZURE SOLAR	Solar	39.48	37.73	-1.75
AZURE SOLAR THIRTY FOUR	Solar	28.99	27.96	-1.04
CLEAN SOLAR POWER(BHADLA) PVT LTD.	Solar	66.04	61.82	-4.22
DADRI SOLAR	Solar	0.69	0.59	-0.10
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Solar	10.52	10.50	-0.02
MAHOBA SOLAR	Solar	42.79	42.06	-0.73
RENEW SOLAR	Solar	11.01	10.62	-0.38
RENEW SOLAR POWER LTD PVT BIKANER	Solar	53.95	52.86	-1.09
SB ENERGY	Solar	42.67	42.83	0.16
SINGRAULI SOLAR	Solar	1.83	1.63	-0.20
TATA POWER RENEWABLE	Solar	31.12	31.84	0.72
UNCHAHAH SOLAR	Solar	1.46	1.27	-0.19
Western Region				
ACME SOLAR (RAMNAGAR)	Solar	33.55	35.01	1.46
ADANI GREEN ENERGY MP,LTD	Wind	27.68	24.86	-2.82
ALFANAR WIND	Wind	27.53	26.35	-1.18
ARINSUN SOLAR (BARSITADESH)	Solar	34.34	34.72	0.38
GREEN INFRA WIND ENERGY LIMITED SECI 2	Wind	35.98	32.37	-3.61
GREEN INFRA WIND ENERGY LIMITED SECI 3	Wind	38.76	33.79	-4.97
INOX WIND	Wind	20.49	17.30	-3.20
MAHINDRA SOLAR (BADWAR)	Solar	38.70	39.52	0.82
OSTRO -KUTCH	Wind	36.11	31.99	-4.13
RENEW WIND ENERGY AP2	Wind	4.21	6.68	2.47
RENEW POWER	Solar	28.61	23.59	-5.02
Southern Region				
BEETAM	Wind	34.38	35.99	1.60
GIREL	Wind	89.48	86.43	-3.05
MYTRAH	Wind	75.78	71.03	-4.75
ORANGE	Wind	65.15	68.34	3.19

+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 for the Month of October ,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	494.38	0.00	0.00	35.68	530.06	6.73
Haryana	1169.69	44.52	0.00	0.00	54.67	1268.88	4.31
HP	0.00	0.00	0.00	2531.43	186.65	2718.08	100.00
J & K	0.00	0.00	0.00	1044.61	24.50	1069.11	100.00
Ladakh	0.00	0.00	0.00	34.13	0.00	34.13	100.00
Punjab	982.96	0.00	0.00	401.36	240.00	1624.32	39.48
Rajasthan	4115.74	30.06	628.63	33.88	1183.58	5991.89	30.81
Uttar Pradesh	10436.46	164.76	313.15	173.67	218.95	11306.99	6.24
Uttarakhand	0.00	0.00	0.00	1035.63	109.85	1145.48	100.00
Northern Region	16704.85	733.72	941.78	5254.71	2054.18	25689.24	32.12
Chhattisgarh	11413.21	0.00	0.00	35.62	119.17	11568.00	1.34
Gujarat	7876.51	2187.91	324.42	299.82	980.92	11669.58	13.76
Madhya Pradesh	11107.35	0.00	0.00	568.66	588.66	12264.67	9.44
Maharashtra	9289.63	532.54	405.62	330.72	621.11	11179.62	12.14
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	3.65	3.65	100.00
Goa	0.00	0.00	0.00	0.00	0.12	0.12	100.00
Western Region	39686.70	2720.45	730.04	1234.82	2314.00	46686.01	9.17
Andhra Pradesh	3502.30	239.32	0.00	593.98	946.69	5282.29	29.17
Telangana	3610.01	0.00	0.00	751.50	480.62	4842.13	25.45
Karnataka	937.92	0.00	672.72	1021.28	2208.57	4840.49	80.62
Kerala	0.00	0.00	0.00	690.88	135.60	826.48	100.00
Tamil Nadu	3436.13	214.20	1624.59	604.54	2347.44	8226.90	55.63
Lakshadweep	0.00	0.00	0.00	0.00	0.05	0.05	100.00
Puducherry	0.00	21.69	0.00	0.00	0.37	22.06	1.68
Southern Region	11486.36	475.21	2297.31	3662.18	6119.34	24040.40	50.24
Andaman Nicobar	5.75	0.00	0.00	0.00	3.15	8.90	35.40
Bihar	2964.27	0.00	0.00	0.00	14.19	2978.46	0.48
Jharkhand	2415.65	0.00	0.00	28.66	1.75	2446.06	1.24
Orissa	4874.78	0.00	0.00	759.78	92.21	5726.77	14.88
Sikkim	0.00	0.00	0.00	1162.39	5.41	1167.80	100.00
West Bengal	6495.95	0.00	0.00	354.25	154.40	7004.60	7.26
DVC	0.00	0.00	0.00	0.00	1.05	1.05	0.00
Eastern Region	16756.40	0.00	0.00	2305.08	272.15	19333.63	13.33
Arunachal Pradesh	0.00	0.00	0.00	409.15	0.17	409.32	100.00
Assam	260.46	240.54	0.00	0.00	3.18	504.18	0.63
Manipur	0.00	0.00	0.00	76.86	0.48	77.30	100.00
Meghalaya	0.00	0.00	0.00	146.01	10.68	156.69	100.00

Mizoram	0.00	0.00	0.00	23.98	5.06	29.04	100.00
Nagaland	0.00	0.00	0.00	30.45	7.23	37.68	100.00
Tripura	0.00	590.83	0.00	0.00	0.34	591.17	0.06
North Eastern Region	260.46	831.37	0.00	686.45	27.14	1805.38	39.52
All India Total	84894.77	4760.75	3969.13	13143.24	10786.82	117554.71	23.73

Table 14 Renewable Energy as % of Total Electricity Generated

RE Generation as proportion of Total Electricity generation -Physical location wise. (State Wise) for the Month of October,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	494.38	0.00	0.00	35.68	530.06	6.73
Haryana	1169.69	44.52	0.00	0.00	54.67	1268.88	4.31
HP	0.00	0.00	0.00	2531.43	186.65	2718.08	6.87
J & K	0.00	0.00	0.00	1044.61	24.50	1069.11	2.29
Ladakh	0.00	0.00	0.00	34.13	0.00	34.13	0.00
Punjab	982.96	0.00	0.00	401.36	240.00	1624.32	14.78
Rajasthan	4115.74	30.06	628.63	33.88	1183.58	5991.89	19.75
Uttar Pradesh	10436.46	164.76	313.15	173.67	218.95	11306.99	1.94
Uttarakhand	0.00	0.00	0.00	1035.63	109.85	1145.48	9.59
Northern Region	16704.85	733.72	941.78	5254.71	2054.18	25689.24	8.00
Chhattisgarh	11413.21	0.00	0.00	35.62	119.17	11568.00	1.03
Gujarat	7876.51	2187.91	324.42	299.82	980.92	11669.58	8.41
Madhya Pradesh	11107.35	0.00	0.00	568.66	588.66	12264.67	4.80
Maharashtra	9289.63	532.54	405.62	330.72	621.11	11179.62	5.56
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	3.65	3.65	100.00
Goa	0.00	0.00	0.00	0.00	0.12	0.12	100.00
Western Region	39686.70	2720.45	730.04	1234.82	2314.00	46686.01	4.96
Andhra Pradesh	3502.30	239.32	0.00	593.98	946.69	5282.29	17.92
Telangana	3610.01	0.00	0.00	751.50	480.62	4842.13	9.93
Karnataka	937.92	0.00	672.72	1021.28	2208.57	4840.49	45.63
Kerala	0.00	0.00	0.00	690.88	135.60	826.48	16.41
Tamil Nadu	3436.13	214.20	1624.59	604.54	2347.44	8226.90	28.53
Lakshadweep	0.00	0.00	0.00	0.00	0.05	0.05	100.00
Puducherry	0.00	21.69	0.00	0.00	0.37	22.06	1.68
Southern Region	11486.36	475.21	2297.31	3662.18	6119.34	24040.40	25.45
Andaman Nicobar	5.75	0.00	0.00	0.00	3.15	8.90	35.40
Bihar	2964.27	0.00	0.00	0.00	14.19	2978.46	0.48
Jharkhand	2415.65	0.00	0.00	28.66	1.75	2446.06	0.07
Orissa	4874.78	0.00	0.00	759.78	92.21	5726.77	1.61
Sikkim	0.00	0.00	0.00	1162.39	5.41	1167.80	0.46
West Bengal	6495.95	0.00	0.00	354.25	154.40	7004.60	2.20
DVC	0.00	0.00	0.00	0.00	1.05	1.05	100.00
Eastern Region	16756.40	0.00	0.00	2305.08	272.15	19333.63	1.41
Arunachal Pradesh	0.00	0.00	0.00	409.15	0.17	409.32	0.04
Assam	260.46	240.54	0.00	0.00	3.18	504.18	0.63
Manipur	0.00	0.00	0.00	76.86	0.48	77.30	0.62
Meghalaya	0.00	0.00	0.00	146.01	10.68	156.69	6.81

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

State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Mizoram	0.00	0.00	0.00	23.98	5.06	29.04	17.43
Nagaland	0.00	0.00	0.00	30.45	7.23	37.68	19.19
Tripura	0.00	590.83	0.00	0.00	0.34	591.17	0.06
North Eastern Region	260.46	831.37	0.00	686.45	27.14	1805.38	1.50
All India Total	84894.77	4760.75	3969.13	13143.24	10786.82	117554.71	9.18

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
All figures at Delhi PP in MUs				
DMRC : Delhi Metro Rail Corporation				

All India Wind & Solar Power Daily Generation Report during October, 20

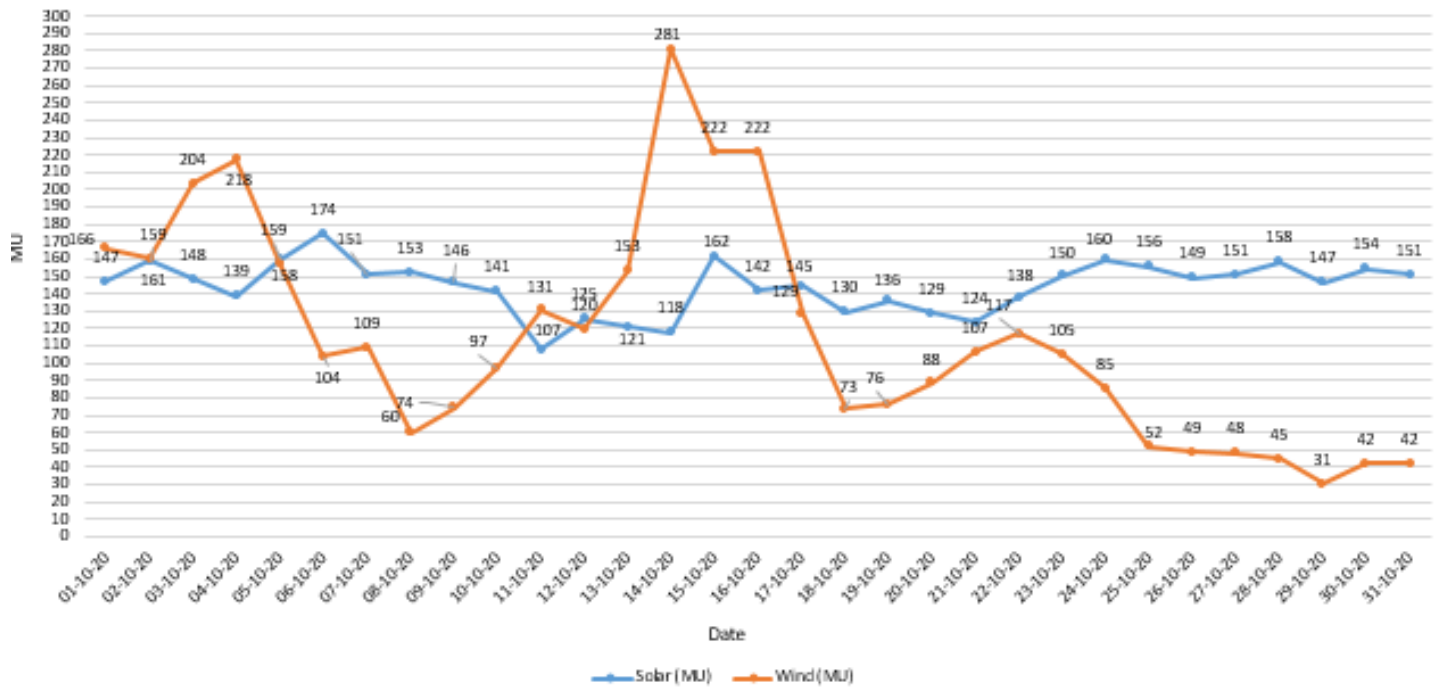


Figure 19 Daily Solar and wind Power Generation trend



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POWER.

FOR ANY QUERY PLEASE CONTACT AT :

011-26732223

ce-rpmcea@cea.nic.in

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