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विद्युत मंत्रालय
Ministry of Power
केन्द्रीय विद्युत प्राधिकरण
Central Electricity Authority



Monthly Renewable Energy Generation Report

मासिक नवीकरणीय ऊर्जा उत्पादन

July, 2020

नवीकरणीय ऊर्जा परियोजना प्रबोधन प्रभाग
Renewable Energy Project Monitoring Division

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Decreased by 5.56% as compared to June,20.

Decreased by 18.14% as compared to July, 19

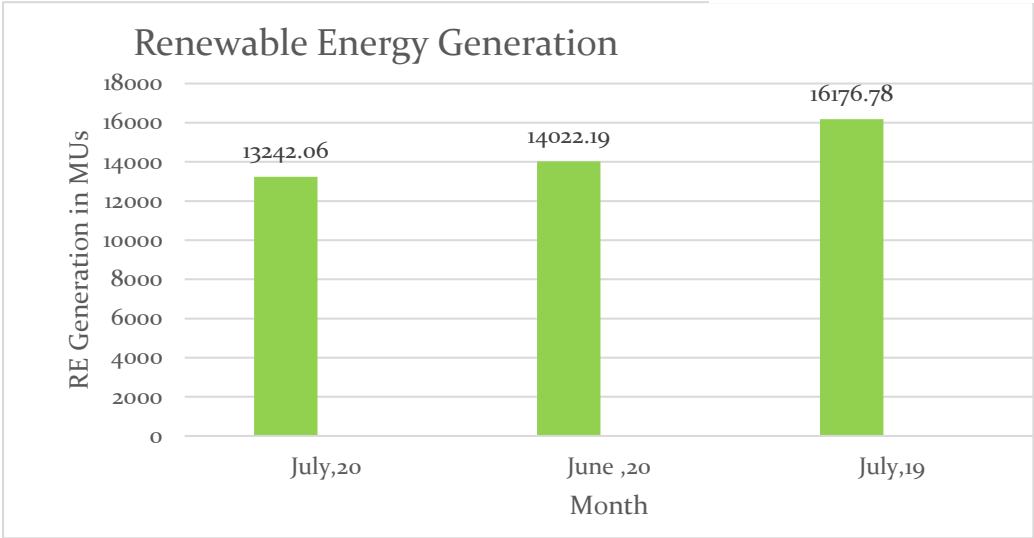


Figure 1 Renewable Energy Generation

Increased by 30.69% as compared to June , 20.

Decreased by 55.65% as compared to July,19

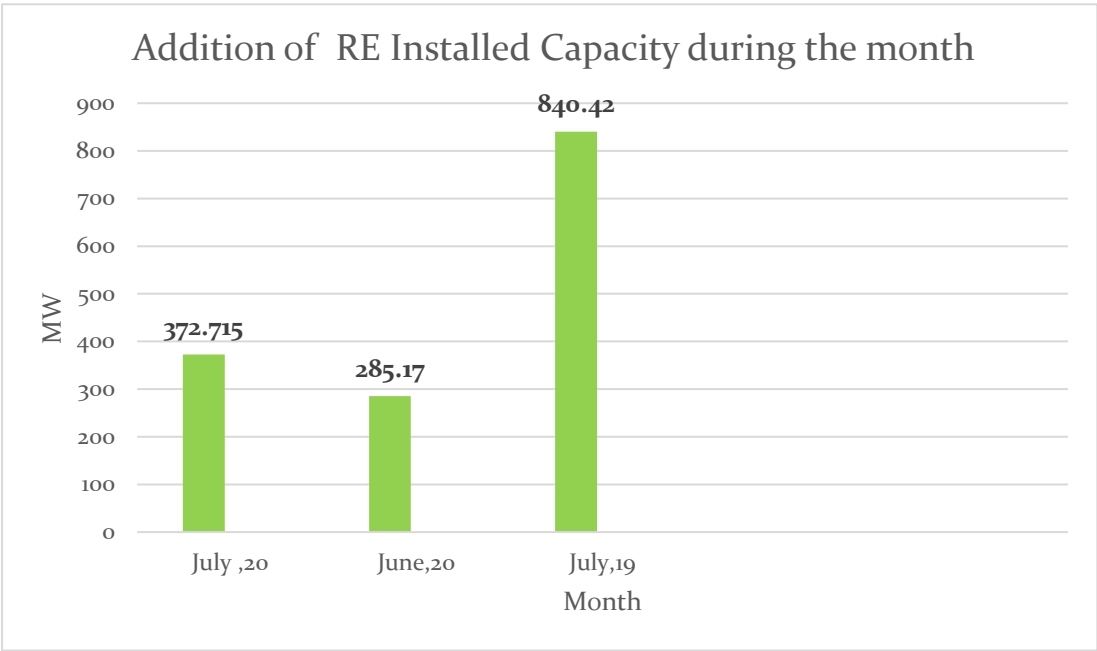


Figure 2 RE capacity added during the Month

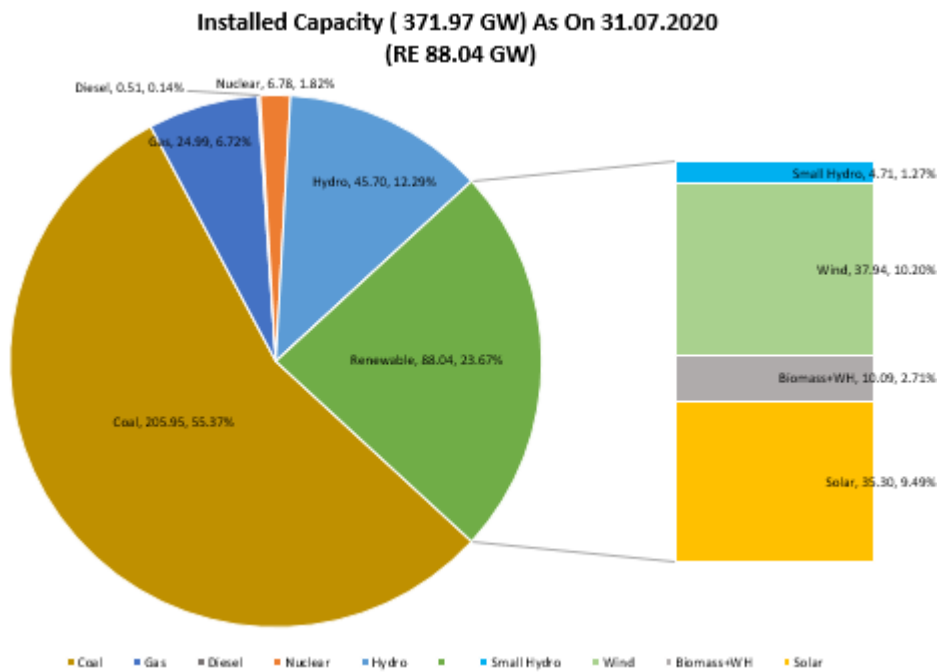


Figure 3 Installed Capacity in India as on 31.07.2020

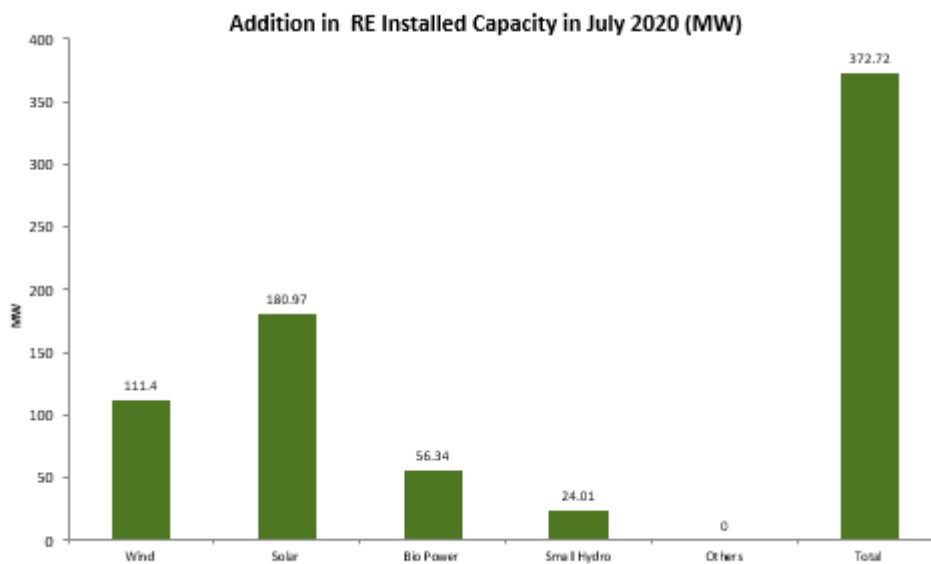


Figure 4: Addition in RE Installed Capacity in July 20.

HIGHLIGHTS OF RE GENERATION DURING JULY, 2020

1. RE generation, slipped down by 18.14% in July 2020 as compare to July 2019.
2. Wind Power generation during the month of July , 2020 decreased in all wind power generating states namely Rajasthan, Gujarat, Madhya Pradesh ,Maharashtra , Tamil Nadu ,Andhra Pradesh and Karnataka as compared to July, 2019.
3. Daily wind generation decreased by 38.58 % as compared to July 2019 and decreased by 14.61 % as compared to June 2020.
4. Solar Power generation during the month of July 2020 increased in Punjab, Rajasthan, Gujarat, Karnataka, Madhya Pradesh and Tamil Nadu, Maharashtra, Andhra Pradesh and Telangana as compared to July 2019.
5. Daily solar generation increased by 35.23% as compared to July 2019 and decreased by 04.37 % as compared to June , 2020.
6. Generation from Bagasse is not at the past year levels and lower in July 2020 in West Bengal as compared to July 2019.

ALL INDIA SUMMARY OF RENEWABLE GENERATION

Source	Installed Capacity as on 31.7.2020(MW)	RE Generation(MU) July'2020	RE Generation(MU) July'2019	% of Last Year (2/3)	RE Generation (MU) April'2020-July 2020	RE Generation (MU) April'2019-July 2019	% Of Last Year (5/6)
	1	2	3	4	5	6	7
Wind	37940.95	6966.96	11343.58	61.42	24574.50	30435.96	80.74
Solar	35303.3	4650.36	3438.81	135.23	20316.90	15894.21	127.83
Biomass	9936.65	278.02	275.22	101.02	1158.08	941.53	123.00
Bagasse		164.17	231.34	70.97	1845.23	2379.17	77.56
Small Hydro	4712.17	1038.32	858.79	120.91	3318.36	2634.84	125.94
Others	148.84	144.23	29.04	496.71	337.42	135.41	249.18
Total	88041.91	13242.06	16176.78	81.86	51550.48	52421.12	98.34

Table 1 All India Summary of Renewable Energy Generation

Note: As per information received from West Bengal SLDC, Generation from co-generation plants, which was considered earlier under Bagasse now being considered under others (Waste to energy) category.

Additional RE generation in July,20 as comparison to July ,19

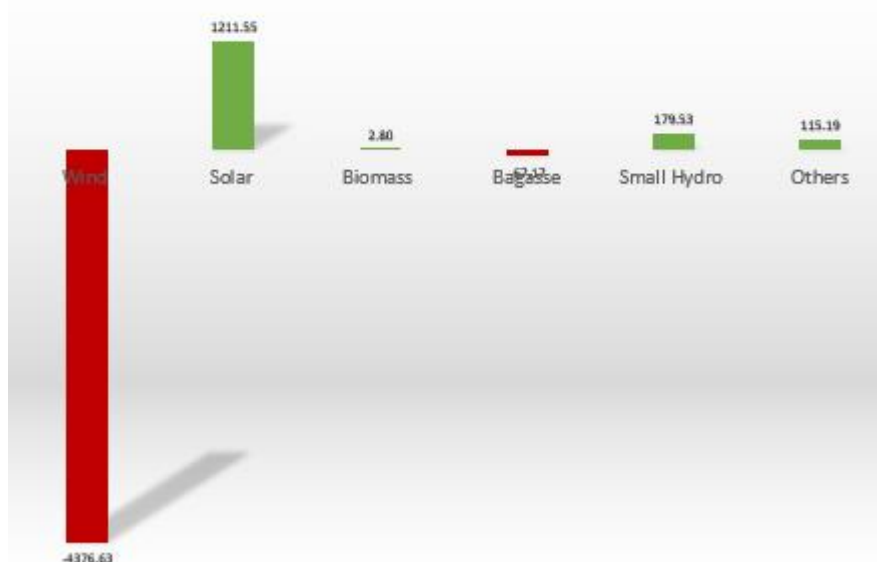


Figure 5 Additional RE Generation in July 20

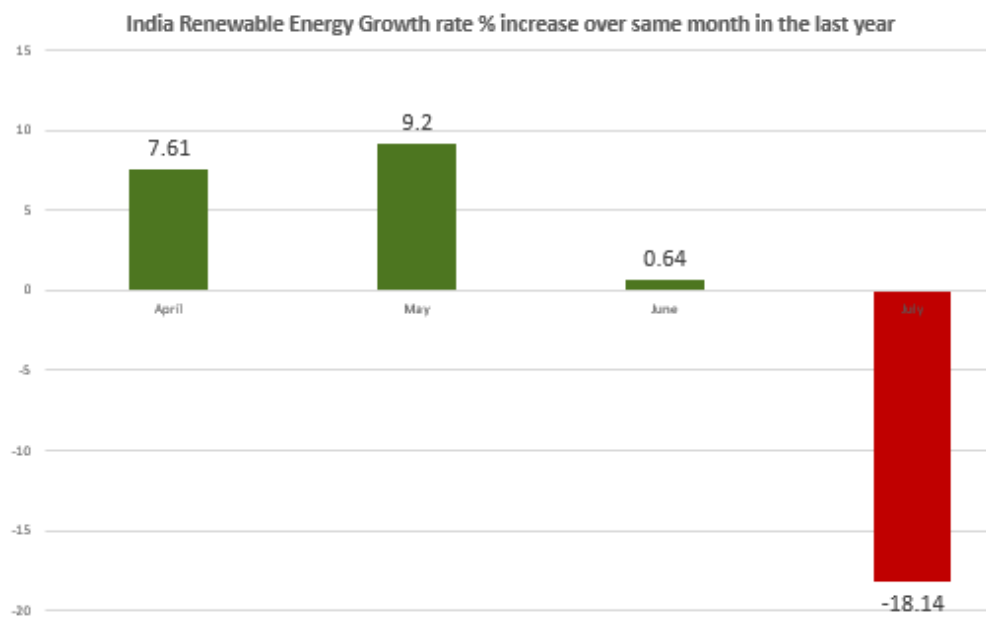


Figure 6 Month Wise Growth of RE Generation

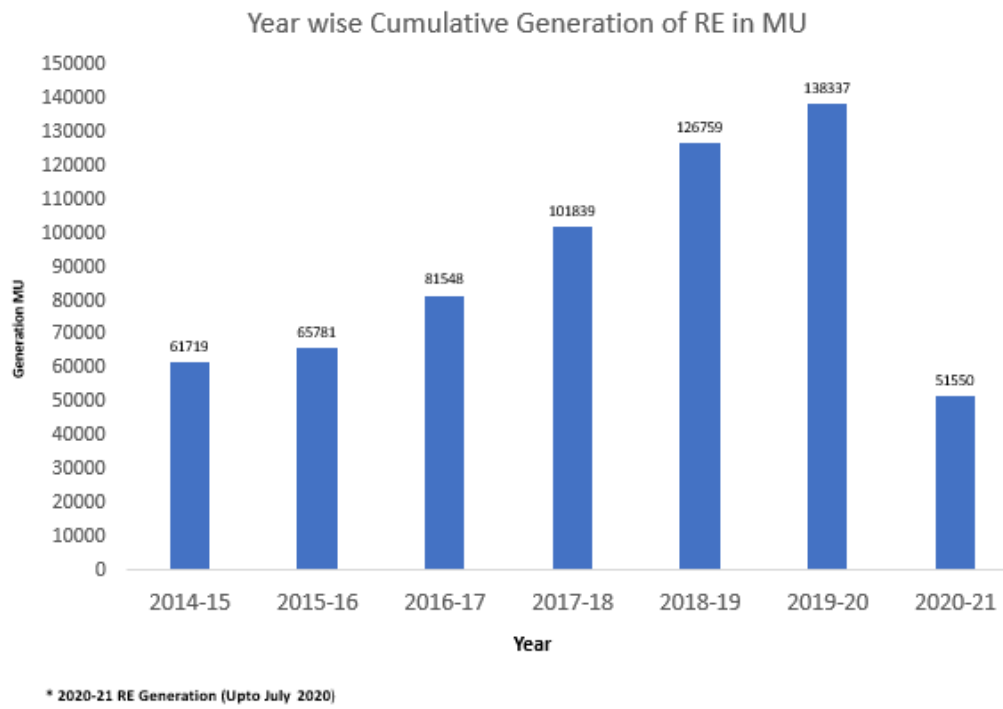


Figure 7 Year Wise RE Generation

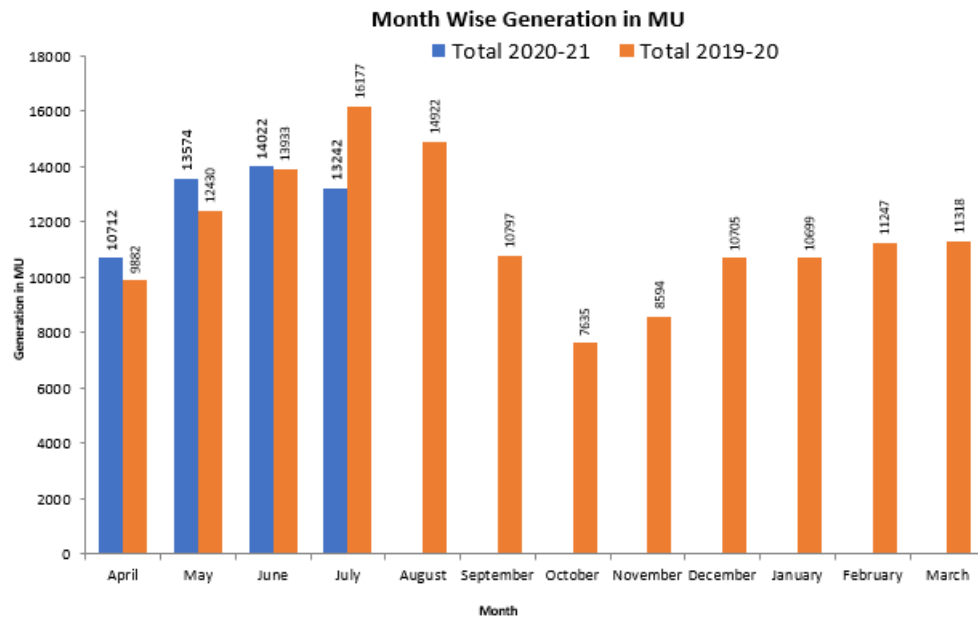


Figure 8 Month Wise RE Generation

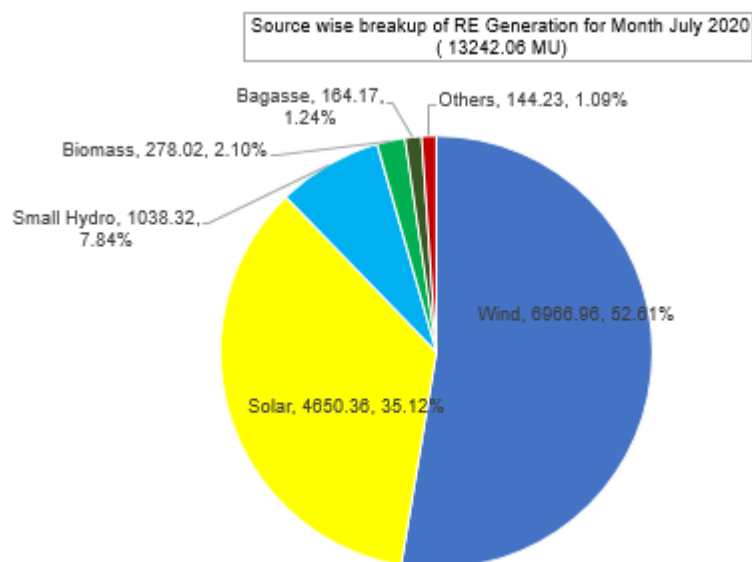


Figure 9 Source wise breakup of Monthly RE Generation

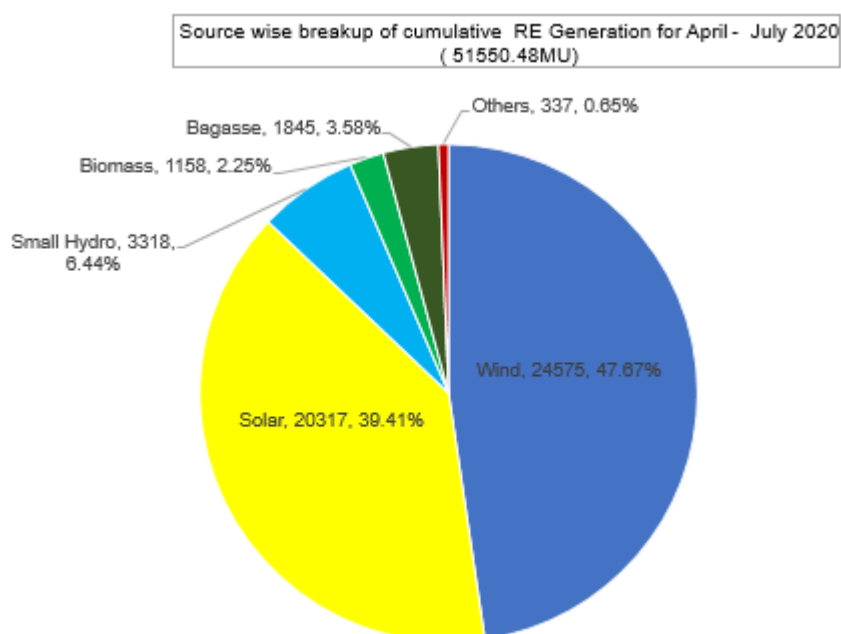


Figure 10 Source wise breakup of Cumulative of RE Generation

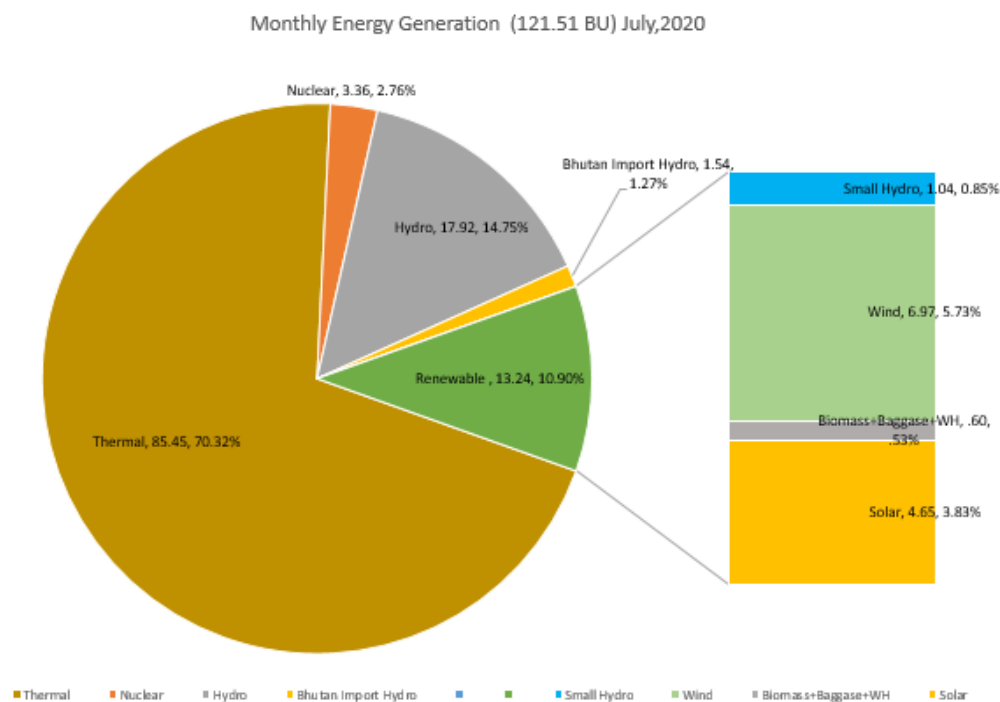


Figure 11 Monthly Energy Generation In India and RE Share

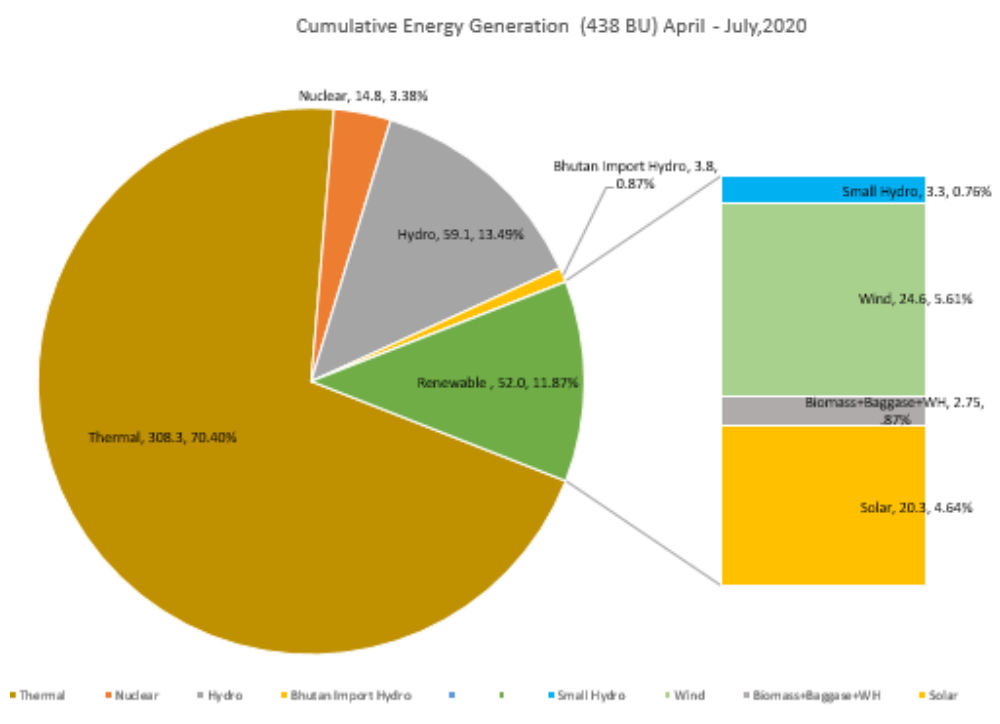


Figure 12 Cumulative Energy Generation In India and RE Share

Table 2 State Wise Renewable Energy Generation

Renewable Energy Generation (State Wise) for the month of July,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.28	0.23	5.12	5.10
Delhi	37.30	36.75	158.69	157.70
Haryana	53.91	49.95	244.90	216.66
HP	275.52	230.62	1068.14	857.75
J & K	55.55	40.82	222.86	242.89
Ladakh	0.00	0.00	0.00	0.00
Punjab	263.28	231.17	1009.11	1034.77
Rajasthan	1688.37	1707.23	6550.02	5288.77
Uttar Pradesh	188.75	141.81	1548.61	1457.06
Uttarakhand	116.52	118.83	480.67	439.05
Northern Region	2679.48	2557.40	11288.12	9699.76
Chhattisgarh	136.21	130.86	546.93	314.46
Gujarat	1576.95	2450.62	6751.32	7301.75
Madhya Pradesh	670.24	901.93	3228.49	3467.72
Maharashtra	1072.31	1703.35	4289.93	5338.37
Dadra and Nagar Haveli	0.44	0.34	2.21	2.19
Daman & Diu	2.97	1.39	9.83	6.98
Goa	0.09	0.00	0.48	0.00
Western Region	3459.20	5188.49	14829.18	16431.46
Andhra Pradesh	1265.87	1946.71	4966.73	5897.74
Telangana	530.37	520.28	2375.06	2370.08
Karnataka	2334.57	2580.70	8710.80	7817.74
Kerala	117.95	70.97	320.44	212.30
Tamil Nadu	2618.76	3039.23	8250.53	8936.24
Lakshadweep	0.03	0.04	0.17	0.23
Puducherry	0.37	0.37	1.48	1.18
Southern Region	6867.92	8158.29	24625.21	25235.50
Andaman Nicobar	2.08	1.01	5.95	6.58
Bihar	16.97	19.87	67.86	93.54
Jharkhand	0.96	1.31	5.04	6.25
Orissa	66.92	64.92	255.95	308.14
Sikkim	5.41	6.20	17.07	17.77
West Bengal	122.78	150.94	389.71	546.14
DVC	0.51	0.01	0.51	0.02
Eastern Region	215.62	244.26	742.09	978.44
Arunachal Pradesh	0.14	0.16	0.74	0.61
Assam	4.45	4.13	11.34	12.78
Manipur	0.48	0.21	1.83	0.56
Meghalaya	3.03	7.01	12.12	18.01
Mizoram	4.28	3.78	11.17	14.74
Nagaland	6.98	11.68	23.05	20.13
Tripura	0.49	1.36	5.63	9.13
North Eastern Region	19.85	28.33	65.88	75.96
All India Total	13242.06	16176.78	51550.48	52421.12

Table 3 State Wise wind Power Generation

Wind Energy Generation (State Wise) for the month of July ,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July,
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	762.89	1152.64	2754.94	2890.82
Uttar Pradesh	0.00	0.00	0.00	0.00
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	762.89	1152.64	2754.94	2907.72
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	1219.11	2142.29	5132.15	6030.70
Madhya Pradesh	331.96	657.83	1735.70	2216.00
Maharashtra	804.00	1475.88	2713.20	3757.29
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	2355.07	4276.00	9581.06	12004.00
Andhra Pradesh	711.85	1474.82	2538.81	3691.72
Telangana	19.47	38.52	73.54	81.61
Karnataka	1053.56	1769.73	3593.26	4444.86
Kerala	16.31	16.85	50.67	51.77
Tamil Nadu	2047.80	2615.04	5982.22	7199.61
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	3848.99	5914.95	12238.50	15469.58
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	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	6966.96	11343.58	24574.50	30435.96

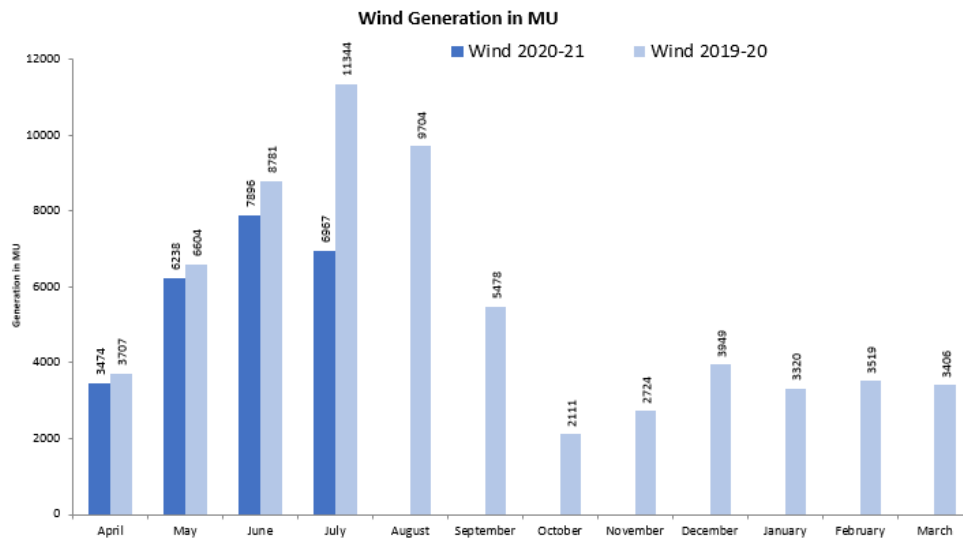


Figure 13 Month Wise Wind Power Generation

Table 4 State Wise Solar Power Generation

Solar Energy Generation (State Wise) for the month of July,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.28	0.23	5.12	5.10
Delhi	19.08	11.63	70.07	55.61
Haryana	7.44	5.57	25.49	26.80
HP	3.32	0.00	12.88	0.00
J & K	0.95	0.00	0.95	0.00
Ladakh	0.00	0.00	0.00	0.00
Punjab	130.92	118.30	533.01	557.36
Rajasthan	887.27	525.37	3654.61	2272.26
Uttar Pradesh	130.02	107.48	581.73	508.30
Uttarakhand	34.03	27.86	139.42	127.39
Northern Region	1213.31	796.44	5023.29	3552.81
Chhattisgarh	27.28	24.58	120.52	101.88
Gujarat	328.54	285.85	1514.97	1182.48
Madhya Pradesh	313.41	234.94	1421.19	1197.44
Maharashtra	188.35	155.74	877.43	829.59
Dadra and Nagar Haveli	0.44	0.34	2.21	2.19
Daman & Diu	1.65	1.39	8.25	6.98
Goa	0.09	0.00	0.48	0.00
Western Region	859.76	702.83	3945.04	3320.55
Andhra Pradesh	528.22	451.40	2319.98	2110.94
Telangana	482.00	462.41	2202.57	2232.76
Karnataka	980.62	592.18	4458.04	2873.24
Kerala	21.32	8.71	61.41	40.64
Tamil Nadu	506.61	374.75	2055.37	1528.62
Lakshadweep	0.03	0.04	0.17	0.23
Puducherry	0.37	0.37	1.48	1.18
Southern Region	2519.17	1889.87	11099.01	8787.60
Andaman Nicobar	1.39	1.01	4.19	5.77
Bihar	16.26	14.11	65.04	52.05
Jharkhand	0.96	1.31	5.04	6.25
Orissa	33.25	27.48	147.18	141.60
Sikkim	0.00	0.00	0.00	0.00
West Bengal	4.79	4.53	22.37	22.52
DVC	0.00	0.01	0.00	0.02
Eastern Region	56.65	48.44	243.81	228.20
Arunachal Pradesh	0.10	0.11	0.56	0.34
Assam	0.38	0.38	1.51	1.67
Manipur	0.48	0.21	1.83	0.56
Meghalaya	0.00	0.00	0.00	0.00
Mizoram	0.02	0.03	0.10	0.14
Nagaland	0.00	0.00	0.00	0.00
Tripura	0.49	0.51	1.75	2.33
North Eastern Region	1.47	1.23	5.74	5.03
All India Total	4650.36	3438.81	20316.90	15894.20

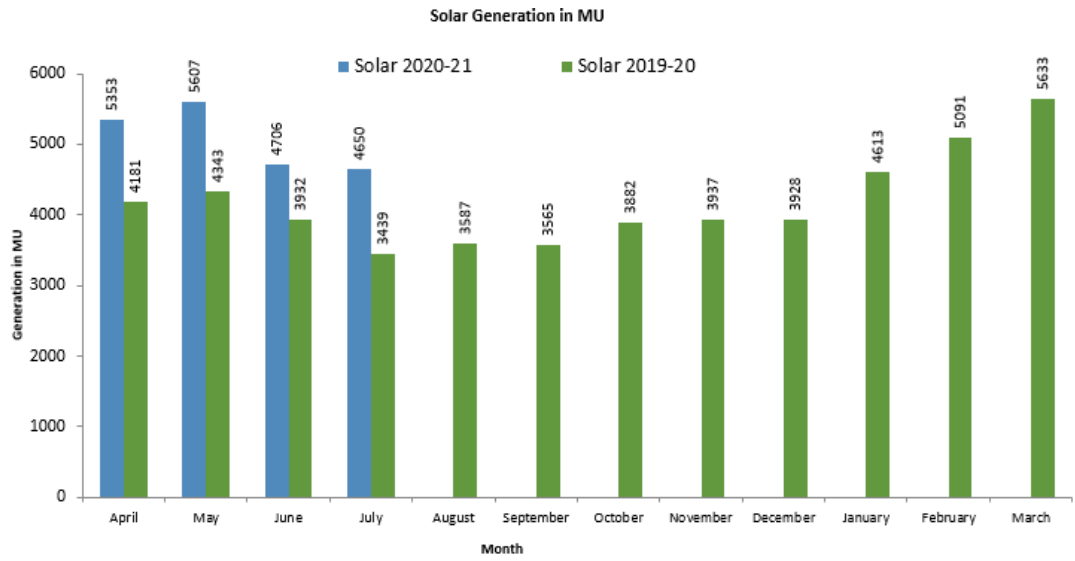


Figure 14 Month wise Solar Power Generation

Table 5 State Wise Biomass Power Generation

Biomass Energy Generation (State Wise) for the month of July,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	14.08	16.98	56.93	65.05
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	41.41	27.41	179.61	117.29
Rajasthan	38.10	29.16	139.94	125.46
Uttar Pradesh	0.72	9.39	51.52	38.25
Uttarakhand	0.00	0.00	0.00	0.00
Northern Region	94.32	82.94	428.00	346.05
Chhattisgarh	82.08	95.85	368.00	192.90
Gujarat	9.76	8.14	39.24	35.42
Madhya Pradesh	0.01	0.12	0.01	0.69
Maharashtra	31.33	31.92	101.54	136.99
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00
Daman & Diu	1.32	0.00	1.58	0.00
Goa	0.00	0.00	0.00	0.00
Western Region	124.50	136.03	510.37	366.00
Andhra Pradesh	10.94	14.06	41.48	56.92
Telangana	16.28	12.13	59.27	40.86
Karnataka	18.68	13.73	62.44	61.25
Kerala	0.00	0.00	0.00	0.00
Tamil Nadu	11.73	11.00	40.32	40.41
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	57.63	50.91	203.51	199.44
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.71	1.31	2.82	5.95
Jharkhand	0.00	0.00	0.00	0.00
Orissa	0.87	4.02	13.38	24.10
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	1.58	5.34	16.20	30.05
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	278.02	275.22	1158.08	941.53

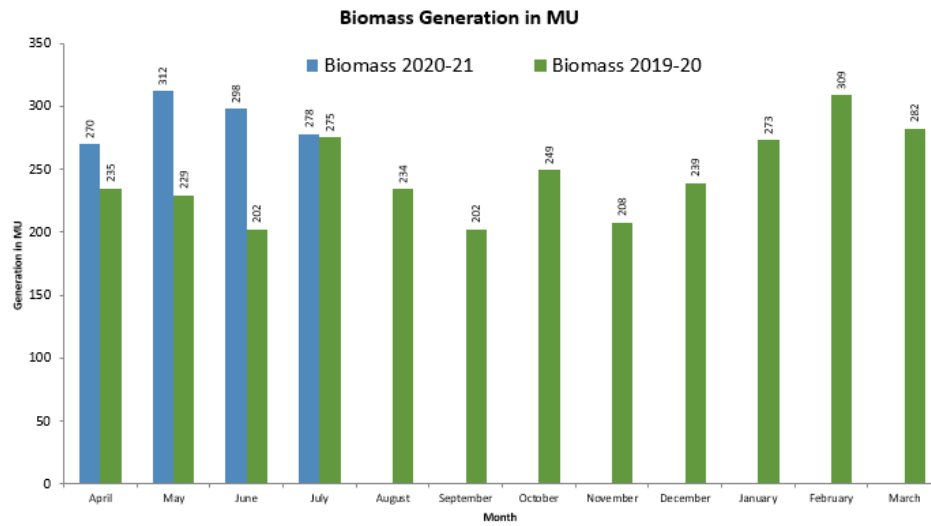


Figure 15 Month Wise Biomass Power Generation

Table 6 State Wise bagasse Power Generation

Bagasse Energy Generation (State Wise) for the month of July ,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	2.92	0.00	42.70	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	6.16	6.97	27.35	91.62
Rajasthan	0.00	0.00	0.00	0.00
Uttar Pradesh	51.94	21.64	888.90	895.24
Uttarakhand	0.00	0.00	29.23	13.88
Northern Region	61.02	28.60	988.18	1016.80
Chhattisgarh	0.00	0.00	5.08	0.00
Gujarat	0.00	0.00	2.39	3.19
Madhya Pradesh	0.00	0.00	0.00	10.68
Maharashtra	9.80	15.44	352.01	495.90
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	9.80	15.44	359.48	509.78
Andhra Pradesh	2.13	2.62	9.92	17.57
Telangana	0.00	1.42	0.00	5.54
Karnataka	43.09	20.37	175.84	151.67
Kerala	4.15	0.00	14.15	0.00
Tamil Nadu	43.99	31.00	148.93	152.83
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	93.35	55.41	348.84	327.62
Andaman Nicobar	0.00	0.00	0.00	0.00
Bihar	0.00	0.00	0.00	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	131.89	148.73	493.89
DVC	0.00	0.00	0.00	0.00
Eastern Region	0.00	131.89	148.73	524.98
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	164.17	231.34	1845.23	2379.16

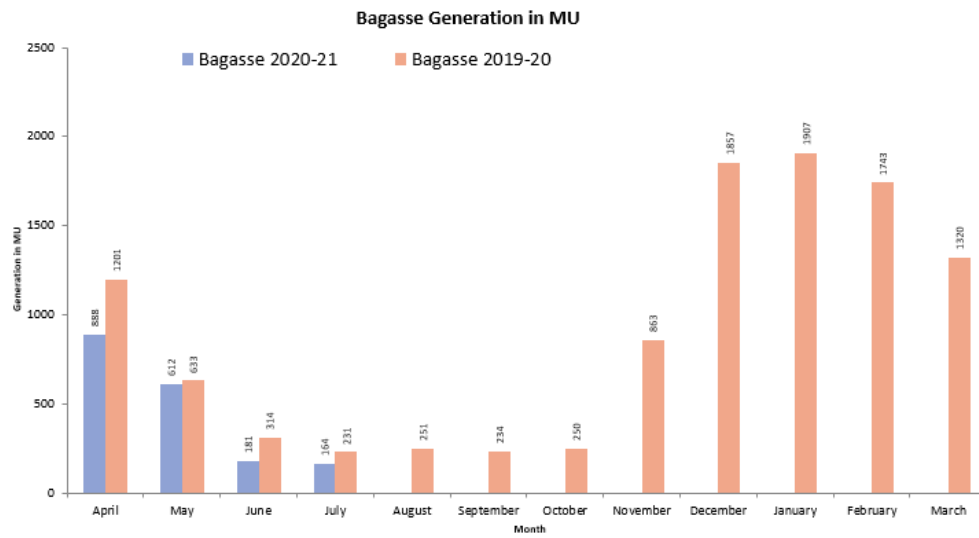


Figure 16 Month wise bagasse Power Generation

Table 7 State Wise Small Hydro Generation

Small Hydro Energy Generation (State Wise) for the month of July ,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	0.00	0.00	0.00	0.00
Haryana	29.47	27.40	119.78	108.76
HP	272.20	230.62	1055.26	857.75
J & K	54.60	40.82	221.91	242.89
Ladakh	0.00	0.00	0.00	0.00
Punjab	84.79	78.45	269.13	251.54
Rajasthan	0.10	0.06	0.54	0.23
Uttar Pradesh	6.07	3.31	26.45	15.28
Uttarakhand	82.49	90.97	312.02	297.78
Northern Region	529.72	471.62	2005.09	1774.23
Chhattisgarh	26.85	10.43	53.34	19.69
Gujarat	14.92	14.34	51.96	33.88
Madhya Pradesh	21.73	7.26	60.19	32.99
Maharashtra	38.82	24.33	245.71	118.16
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	102.31	56.37	411.20	204.72
Andhra Pradesh	12.18	3.17	55.24	18.18
Telangana	5.70	4.40	11.18	4.89
Karnataka	238.62	184.68	421.23	286.72
Kerala	76.17	45.41	194.21	119.89
Tamil Nadu	8.63	7.44	23.69	14.76
Lakshadweep	0.00	0.00	0.00	0.00
Puducherry	0.00	0.00	0.00	0.00
Southern Region	341.31	245.10	705.54	444.43
Andaman Nicobar	0.69	0.00	1.77	0.81
Bihar	0.00	4.45	0.00	4.45
Jharkhand	0.00	0.00	0.00	0.00
Orissa	32.80	33.42	95.39	87.78
Sikkim	5.41	6.20	17.07	17.77
West Bengal	7.19	14.52	21.66	29.74
DVC	0.51	0.00	0.51	0.00
Eastern Region	46.60	58.60	136.39	140.55
Arunachal Pradesh	0.04	0.05	0.18	0.27
Assam	4.08	3.76	9.83	11.11
Manipur	0.00	0.00	0.00	0.00
Meghalaya	3.03	7.01	12.12	18.01
Mizoram	4.26	3.75	11.07	14.60
Nagaland	6.98	11.68	23.05	20.13
Tripura	0.00	0.85	3.88	6.80
North Eastern Region	18.38	27.10	60.14	70.93
All India Total	1038.32	858.79	3318.36	2634.85

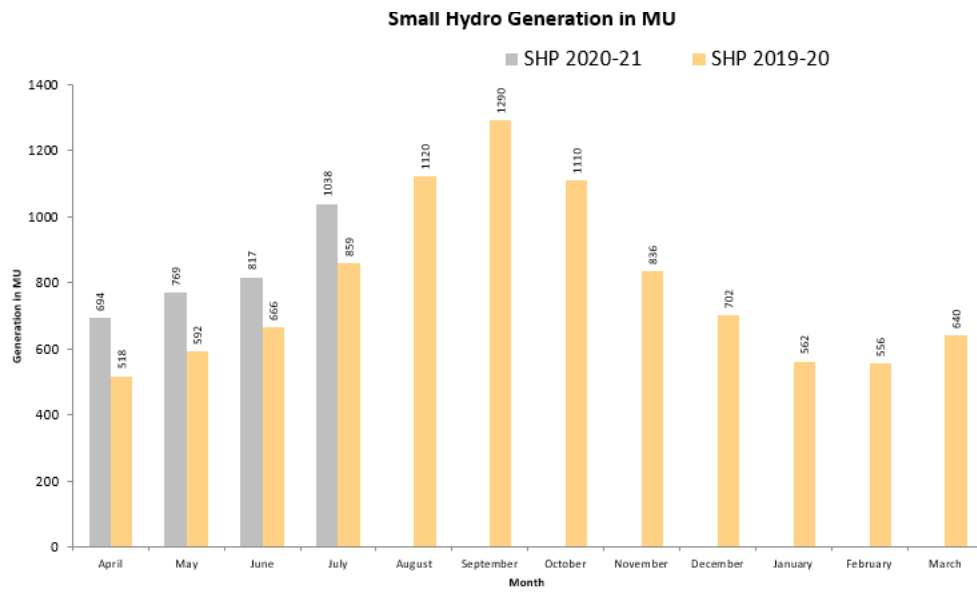


Figure 17 Month wise Small Hydro Power Generation

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

Other Energy Generation (State Wise) for the month of July ,2020				
State	July,2020	July,2019	April 2020 - July, 2020	April, 2019- July, 2019
Chandigarh	0.00	0.00	0.00	0.00
Delhi	18.22	25.12	88.62	102.09
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	0.04	0.01	0.06
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	18.22	25.16	88.63	102.15
Chhattisgarh	0.00	0.00	0.00	0.00
Gujarat	4.62	0.00	10.61	16.07
Madhya Pradesh	3.13	1.78	11.40	9.92
Maharashtra	0.00	0.04	0.04	0.43
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	7.75	1.82	22.04	26.42
Andhra Pradesh	0.54	0.64	1.30	2.41
Telangana	6.93	1.41	28.50	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	7.46	2.05	29.80	6.84
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	110.80	0.00	196.95	0.00
DVC	0.00	0.00	0.00	0.00
Eastern Region	110.80	0.00	196.95	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	144.23	29.04	337.42	135.41

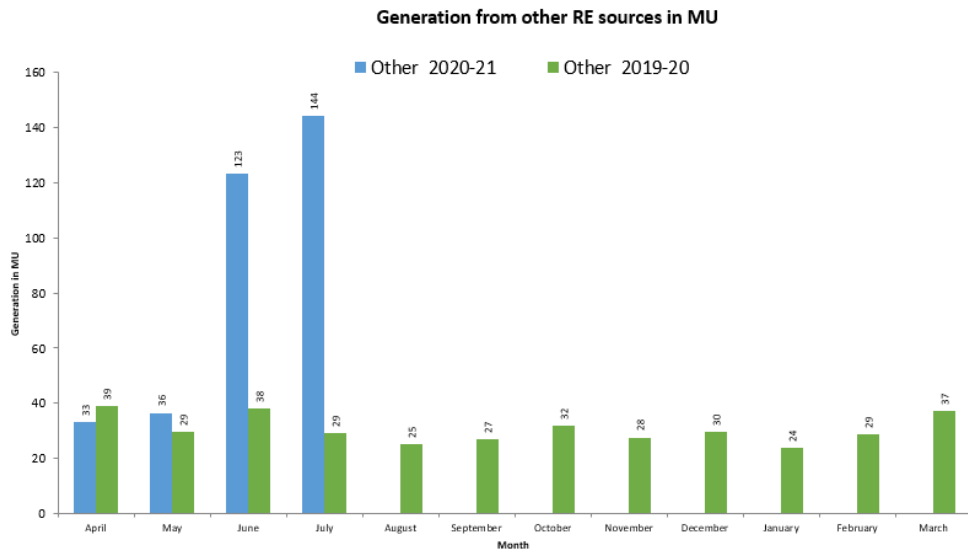


Figure 18 Month Other RE (Waste Heat etc) Power Generation

Table 9: Renewable Energy Generation by ISGS Stations

Monthly RE generation from Inter state Generating Station (ISGS) for July , 2020							
Station	State/ Region	Sector (Central /State /Private)	Owner	Type	Capacity (MW)	Generation (MU)	Monthly CUF
DADRI SOLAR	Uttar Pradesh	Central	NTPC	Solar	5	0.57	16%
SINGRAULI SOLAR	Uttar Pradesh	Central	NTPC	Solar	15	1.61	15%
UNCHAHAR SOLAR	Uttar Pradesh	Central	NTPC	Solar	10	1.07	15%
ADANI GREEN ENERGY NINETEEN LTD	Rajasthan	Private	IPP	Solar	50	3.05	25%
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Rajasthan	Private	IPP	Solar	50	11.32	31%
MAHOBA SOLAR (UP) PRIVATE LTD	Rajasthan	Private	IPP	Solar	200	43.35	30%
ACME CHITTORGARH ENERGY PVT LTD	Rajasthan	Private	IPP	Solar	250	40.13	22%
AZURE POWER INDIA PVT LTD	Rajasthan	Private	IPP	Solar	200	38.90	27%
AZURE POWER THIRTY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	130	28.32	30%
CLEAN SOLAR POWER (BHADLA) PVT LDT	Rajasthan	Private	IPP	Solar	300	69.54	32%
RENEW SOLAR POWER PVT LTD	Rajasthan	Private	IPP	Solar	50	11.24	31%
RENEW SOLAR POWER PVT LTD. BIKANER	Rajasthan	Private	IPP	Solar	250	51.44	29%
SB ENERGY FOUR PVT LTD	Rajasthan	Private	IPP	Solar	200	43.07	30%
TATA POWER RENEWABLE ENERGY LTD	Rajasthan	Private	IPP	Solar	150	34.05	32%
Northern Region*					1860	377.66	
ACME SOLAR (RAMNAGAR)	Madhya Pradesh	Private	IPP	Solar	250	34.96	19%
ARINSUN SOLAR (BARSAITADESH)	Madhya Pradesh	Private	IPP	Solar	250	35.68	20%
MAHINDRA SOLAR (BADWAR)	Madhya Pradesh	Private	IPP	Solar	250	37.83	21%
RENEW SOLAR (BHUVAD)	Gujarat	Private	IPP	Solar	250	55.85	31%
ALFANAR WIND	Gujarat	Private	IPP	Wind	300	2.90	13%
GIWEL-II WIND (VADVA)	Gujarat	Private	IPP	Wind	250	59.83	33%
GIWEL-III WIND (NARANPAR)	Gujarat	Private	IPP	Wind	300	68.11	32%
ADANI GREEN ENERGY MP LTD(DAYAPAR)	Gujarat	Private	IPP	Wind	176.6	46.92	37%

IWISL WIND (DAYAPAR)	Gujarat	Private	IPP	Wind	250	32.94	18%
OSTRO WIND (KUTCH)	Gujarat	Private	IPP	Wind	250	60.49	34%
Western Region					2526.6	435.51	24%
GREEN INFRA	Tamil Nadu	Private	IPP	Wind	250	76.91	43%
ORANGE	Tamil Nadu	Private	IPP	Wind	200	60.66	42%
MYTRA	Tamil Nadu	Private	IPP	Wind	187	59.59	44%
BEETAM (TITUCORIN)	Tamil Nadu	Private	IPP	Wind	50.2	16.98	47%
Southern Region					687.2	214.14	
Total					5073.8	1027.31	

Table 10 Renewable Energy Generation by CPSU Owned stations

Renewable Energy Generation Data (CPSU Wise) for July 2020						
CPSU	State	Installed Capacity (MW)	Source	Actual Generation (MU)	Cumulative Generation (MU)	Monthly CUF (%)
				July ,2020	April 2020 to July 2020	
NTPC						
NTPC Faridabad_Solar	Haryana	5	Solar	0.60	2.55	16.13
NTPC Bhadla	Rajasthan	260	Solar	39.41	159.33	20.37
NTPC Dadri_Solar	Uttar Pradesh	5	Solar	0.57	2.49	15.32
NTPC Unchahar_Solar	Uttar Pradesh	10	Solar	1.07	5.06	14.38
NTPC Singrauli_Solar	Uttar Pradesh	15	Solar	1.61	7.38	14.43
NTPC Singrauli_SH	Uttar Pradesh	8	Small Hydro	3.60	11.69	60.48
NTPC Rojmal	Gujarat	50	Wind	7.33	27.57	19.70
NTPC Rajgarh_Solar	Madhya Pradesh	50	Solar	6.48	27.81	17.42
NTPC Mandsaur	Madhya Pradesh	250	Solar	33.07	141.22	17.78
NTPC Anantapuram	Andhra Pradesh	250	Solar	30.34	133.57	16.31
NTPC Ramagundam	Telangana	10	Solar	1.02	5.26	13.71
NTPC Andaman Nicobar	Andaman Nicobar	5	Solar	0.39	1.57	10.48
NTPC Talchar_Solar	Orissa	10	Solar	1.08	4.73	14.52
Total NTPC		928		126.57	530.24	18.33
THDC						
THDC Patan Wind Power Project	Gujarat	50	Wind	9.34	32.90	25.11
THDC Devbhumi Dwarka Wind Power Project	Gujarat	63	Wind	13.73	49.13	29.29
THDC Dhukwan SHEP Jhansi,UP	Uttar Pradesh	24	Small Hydro	0.00	7.81	0.00
Total THDC		137		18.75	58.96	27.44
NHPC						
NHPC Wind Power Project	Rajasthan	50	Wind	7.49	25.50	20.13
NHPC Solar Power Project	Tamil Nadu	50	Solar	10.07	37.08	27.07
Total NHPC		100		17.56	62.58	
ONGC						
ONGC Wind, Bhuj	Gujarat	51	Wind	5.53	26.33	14.57
ONGC Wind, Jaisalmer	Rajasthan	102	Wind	20.49	65.05	27.00
ONGC Solar, Goa	Goa	1	Solar	0.09	0.47	12.10
ONGC Solar, Hazira	Gujarat	10	Solar	1.15	5.32	15.44

ONGC Solar, Ankleshwar	Gujarat	5	Solar	0.68	2.92	18.25
ONGC Solar, Rajahmundry	Andhra Pradesh	1	Solar	0.10	0.44	12.90
ONGC Solar, Rooftop (RTS) Gujarat	Gujarat	4.232	Solar	0.37	1.57	11.62
ONGC Solar, Assam (RTS)	Assam	1.645	Solar	0.14	0.59	11.44
ONGC Solar, Uttarakhand (RTS)	Uttarakhand	1.236	Solar	0.12	0.53	13.48
ONGC Solar, Agartala asset	Tripura	0.247	Solar	0.02	0.29	9.25
ONGC Solar, Mumbai (Uran & NBP green height)	Maharashtra	0.285	Solar	0.003	0.01	1.41
ONGC Solar, Cauvery Assest Karaikal	Maharashtra	0.015	Solar	0.0003	0.00	2.69
ONGC Solar, DDU Bhawan, (Under Maintenance)	Goa	0.25	Solar	0.00	0.00	0.00
Total ONGC		177.91		28.68	103.53	
SJVN Limited						
Khirvire Wind Power	Maharashtra	47.6	Wind	5.99	21.69	16.92
Sadla Wind Power	Gujarat	50	Solar	7.38	27.18	19.83
Charanka Solar Power	Gujarat	5.6	Solar	0.67	2.98	16.03
Total SJVN		103.2		14.04	51.85	18.28
Oil India Ltd						
Oil India Ltd	Rajasthan	14	Solar	2.23	8.81	21.43
Oil India Ltd	Rajasthan	67.6	Wind	10.81	31.81	21.50
Oil India Ltd	Gujarat	43.3	Wind	8.34	27.75	25.88
Oil India Ltd	Madhya Pradesh	63.2	Wind	9.37	51.70	19.93
Total Oil India Ltd		188.1		30.75	120.07	
NEEPCO	Tripura	5	Solar	0.47	1.77	12.71
All India		1615.21		241.15	952.07	
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 JULY 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 July-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/mpsldc/RE_DATA

*Curtailment detail of Andhra Pradesh given in MW 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
03-07-2020	42	10:22:00	200	200	1306	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
03-07-2020	42	10:22:00	100	100	1306	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-07-2020	42	10:22:00	50	50	1306	Curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
03-07-2020	43	10:40:00	-100	100	1005	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-07-2020	43	10:40:00	-50	50	1005	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
03-07-2020	43	10:40:00	-50	0	1005	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
03-07-2020	46	11:19:00	-100	0	1248	Released to maintain grid security as per IEGC regulation (At Ghani SS)
03-07-2020	46	11:20:00	-50	0	1248	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
09-07-2020	49	12:10:00	200	200	1117	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
09-07-2020	49	12:10:00	100	100	1117	Curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
09-07-2020	49	12:10:00	100	100	1117	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
09-07-2020	51	12:36:00	-100	0	668	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
09-07-2020	51	12:36:00	-100	0	668	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
09-07-2020	54	13:30:00	-200	0	1094	Released to maintain grid security as per IEGC regulation (At Ghani SS)
10-07-2020	58	14:18:00	200	200	993	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
10-07-2020	58	14:18:00	50	50	993	Curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
10-07-2020	58	14:18:00	100	100	993	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
10-07-2020	61	15:02:00	-50	0	798	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
10-07-2020	61	15:02:00	-50	50	798	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
10-07-2020	65	16:13:00	-50	0	511	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
10-07-2020	66	16:16:00	-200	0	527	Released to maintain grid security as per IEGC regulation (At Ghani SS)
11-07-2020	42	10:27:00	200	200	1173	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-07-2020	42	10:27:00	100	100	1173	Curtailed to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-07-2020	42	10:29:00	50	50	1173	Curtailed to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
11-07-2020	43	10:35:00	100	100	1014	Curtailed to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
11-07-2020	45	11:13:00	-100	100	842	Released to maintain grid security as per IEGC regulation (At Ghani SS)
11-07-2020	47	11:39:00	-100	0	855	Released to maintain grid security as per IEGC regulation (At Mylavaram SS)
11-07-2020	48	11:47:00	-100	0	1082	Released to maintain grid security as per IEGC regulation (At Ghani SS)

11-07-2020	48	11:58:00	-100	0	1185	Released to maintain grid security as per IEGC regulation (At Talaricheruvu SS)
11-07-2020	49	12:13:00	-50	0	1240	Released to maintain grid security as per IEGC regulation (At Distributed Solar in percentage)
11-07-2020	53	13:06:00	200	200	1758	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
11-07-2020	55	13:35:00	-200	0	1408	Released to maintain grid security as per IEGC regulation (At Ghani SS)
24-07-2020	54	13:20:00	200	200	1696	Curtailed to maintain grid security as per IEGC regulation (At Ghani SS)
24-07-2020	57	14:12:00	-200	0	1246	Released to maintain grid security as per IEGC regulation (At Ghani SS)

Table 12 Deviation Data for ISGS

Deviation Settlement Mechanism(DSM) of Renewable Energy (ISGS) project for the Month of July, 2020				
Station	Source	Schedule (MU)	Actual(MU)	Deviation (Actual-Schedule) in MU.
Northern Region				
ACME CHITTORGARH ENERGY PVT LTD	Solar	40.13	41.25	1.12
ADANI GREEN ENERGY NINETEEN LTD	Solar	3.05	3.05	0.00
AZURE SOLAR	Solar	43.35	39.95	-3.40
AZURE SOLAR THIRTY FOUR	Solar	28.32	26.73	-1.59
CLEAN SOLAR POWER(BHADLA) PVT LTD.	Solar	38.90	37.19	-1.71
DADRI SOLAR	Solar	69.54	67.38	-2.16
KILAJ SOLAR (MAHARASHTRA) PVT LTD.	Solar	0.57	0.59	0.02
MAHOBA SOLAR	Solar	11.32	10.44	-0.88
RENEW SOLAR	Solar	11.24	11.32	0.08
RENEW SOLAR POWER LTD PVT BIKANER	Solar	51.44	49.36	-2.08
SB ENERGY	Solar	43.07	43.02	-0.05
SINGRAULI SOLAR	Solar	1.53	1.67	0.14
TATA POWER RENEWABLE	Solar	34.05	31.63	-2.42
UNCHAHAH SOLAR	Solar	1.06	1.17	0.11
Western Region				
ACME SOLAR (RAMNAGAR)	Solar	35.25	34.96	-0.29
ADANI GREEN ENERGY MP,LTD	Wind	47.65	46.92	-0.73
ALFANAR WIND	Wind	2.05	2.90	0.85
ARINSUN SOLAR (BARSAITADESH)	Solar	36.09	35.68	-0.41
GREEN INFRA WIND ENERGY LIMITED SECI 2	Wind	62.48	59.83	-2.65
GREEN INFRA WIND ENERGY LIMITED SECI 3	Wind	71.31	68.11	-3.20
INOX WIND	Wind	33.70	32.94	-0.77
MAHINDRA SOLAR (BADWAR)	Solar	37.17	37.83	0.65
OSTRO -KUTCH	Wind	64.65	60.49	-4.16
RENEW POWER	Solar	55.74	55.85	0.10
Southern Region				
BEETAM	Wind	16.86	16.98	0.12
GIREL	Wind	78.57	76.91	-1.66
MYTRAH	Wind	61.37	59.59	-1.79
ORANGE	Wind	61.92	60.66	-1.26

+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 July ,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	0.28	0.28	100.00
Delhi	0.00	474.95	0.00	0.00	37.30	512.25	7.28
Haryana	1293.51	139.94	0.00	0.00	53.91	1487.36	3.62
HP	0.00	0.00	0.00	6002.07	275.52	6277.59	100.00
J & K	0.00	0.00	0.00	2336.33	55.55	2391.88	100.00
Ladakh	0.00	0.00	0.00	45.28	0.00	45.28	100.00
Punjab	2438.18	0.00	0.00	570.75	263.28	3272.21	25.49
Rajasthan	3777.01	180.58	619.19	4.45	1688.37	6269.60	36.88
Uttar Pradesh	11052.86	205.83	301.58	177.13	188.75	11926.15	5.60
Uttarakhand	0.00	0.00	0.00	1764.70	116.52	1881.22	100.00
Northern Region	18561.56	1001.30	920.77	10900.71	2679.48	34063.82	42.57
Chhattisgarh	11194.84	0.00	0.00	80.67	136.21	11411.72	1.90
Gujarat	5968.16	2138.39	274.58	200.04	1576.95	10158.12	20.20
Madhya Pradesh	10345.82	0.00	0.00	273.72	670.24	11289.78	8.36
Maharashtra	6525.45	407.28	848.69	361.46	1072.31	9215.19	24.77
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.44	0.44	100.00
Daman & Diu	0.00	0.00	0.00	0.00	2.97	2.97	100.00
Goa	0.00	0.00	0.00	0.00	0.09	0.09	100.00
Western Region	34034.27	2545.67	1123.27	915.89	3459.20	42078.30	13.07
Andhra Pradesh	3213.76	352.93	0.00	150.08	1265.87	4982.64	28.42
Telangana	3786.94	0.00	0.00	380.10	530.37	4697.41	19.38
Karnataka	624.40	0.00	665.07	1061.57	2334.57	4685.61	86.67
Kerala	0.00	0.00	0.00	378.79	117.95	496.74	100.00
Tamil Nadu	3927.59	193.87	649.41	444.80	2618.76	7834.43	47.39
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	19.55	0.00	0.00	0.37	19.92	1.86
Southern Region	11552.69	566.35	1314.48	2415.34	6867.92	22716.78	46.65
Andaman Nicobar	11.16	0.00	0.00	0.00	2.08	13.24	15.69
Bihar	2897.88	0.00	0.00	0.00	16.97	2914.85	0.58
Jharkhand	2340.96	0.00	0.00	33.20	0.96	2375.12	1.44
Orissa	4704.67	0.00	0.00	770.98	66.92	5542.57	15.12
Sikkim	0.00	0.00	0.00	1615.48	5.41	1620.89	100.00
West Bengal	6241.73	0.00	0.00	375.88	122.78	6740.39	7.40
DVC	0.00	0.00	0.00	0.00	0.51	0.51	0.00
Eastern Region	16196.40	0.00	0.00	2795.54	215.62	19207.56	15.68
Arunachal Pradesh	0.00	0.00	0.00	565.09	0.14	565.23	100.00
Assam	241.72	179.31	0.00	35.32	4.45	460.80	8.63

Manipur	0.00	0.00	0.00	77.69	0.48	78.17	100.00
Meghalaya	0.00	0.00	0.00	173.03	3.03	176.06	100.00
Mizoram	0.00	0.00	0.00	11.40	4.28	15.68	100.00
Nagaland	0.00	0.00	0.00	32.36	6.98	39.34	100.00
Tripura	0.00	568.00	0.00	0.00	0.49	568.49	0.09
North Eastern Region	241.72	747.31	0.00	894.89	19.85	1903.77	48.05
All India Total	80586.64	4860.63	3358.52	17922.37	13242.06	119970.22	28.78

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 July ,2020							
State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Chandigarh	0.00	0.00	0.00	0.00	0.28	0.28	100.00
Delhi	0.00	474.95	0.00	0.00	37.30	512.25	7.28
Haryana	1293.51	139.94	0.00	0.00	53.91	1487.36	3.62
HP	0.00	0.00	0.00	6002.07	275.52	6277.59	4.39
J & K	0.00	0.00	0.00	2336.33	55.55	2391.88	2.32
Ladakh	0.00	0.00	0.00	45.28	0.00	45.28	0.00
Punjab	2438.18	0.00	0.00	570.75	263.28	3272.21	8.05
Rajasthan	3777.01	180.58	619.19	4.45	1688.37	6269.60	26.93
Uttar Pradesh	11052.86	205.83	301.58	177.13	188.75	11926.15	1.58
Uttarakhand	0.00	0.00	0.00	1764.70	116.52	1881.22	6.19
Northern Region	18561.56	1001.30	920.77	10900.71	2679.48	34063.82	7.87
Chhattisgarh	11194.84	0.00	0.00	80.67	136.21	11411.72	1.19
Gujarat	5968.16	2138.39	274.58	200.04	1576.95	10158.12	15.52
Madhya Pradesh	10345.82	0.00	0.00	273.72	670.24	11289.78	5.94
Maharashtra	6525.45	407.28	848.69	361.46	1072.31	9215.19	11.64
Dadra and Nagar Haveli	0.00	0.00	0.00	0.00	0.44	0.44	100.00
Daman & Diu	0.00	0.00	0.00	0.00	2.97	2.97	100.00
Goa	0.00	0.00	0.00	0.00	0.09	0.09	100.00
Western Region	34034.27	2545.67	1123.27	915.89	3459.20	42078.30	8.22
Andhra Pradesh	3213.76	352.93	0.00	150.08	1265.87	4982.64	25.41
Telangana	3786.94	0.00	0.00	380.10	530.37	4697.41	11.29
Karnataka	624.40	0.00	665.07	1061.57	2334.57	4685.61	49.82
Kerala	0.00	0.00	0.00	378.79	117.95	496.74	23.74
Tamil Nadu	3927.59	193.87	649.41	444.80	2618.76	7834.43	33.43
Lakshadweep	0.00	0.00	0.00	0.00	0.03	0.03	100.00
Puducherry	0.00	19.55	0.00	0.00	0.37	19.92	1.86
Southern Region	11552.69	566.35	1314.48	2415.34	6867.92	22716.78	30.23
Andaman Nicobar	11.16	0.00	0.00	0.00	2.08	13.24	15.69
Bihar	2897.88	0.00	0.00	0.00	16.97	2914.85	0.58
Jharkhand	2340.96	0.00	0.00	33.20	0.96	2375.12	0.04
Orissa	4704.67	0.00	0.00	770.98	66.92	5542.57	1.21
Sikkim	0.00	0.00	0.00	1615.48	5.41	1620.89	0.33
West Bengal	6241.73	0.00	0.00	375.88	122.78	6740.39	1.82
DVC	0.00	0.00	0.00	0.00	0.51	0.51	100.00
Eastern Region	16196.40	0.00	0.00	2795.54	215.62	19207.56	1.12
Arunachal Pradesh	0.00	0.00	0.00	565.09	0.14	565.23	0.02
Assam	241.72	179.31	0.00	35.32	4.45	460.80	0.97

RE Generation as proportion of Total Electricity generation -Physical location wise. (State Wise) for the Month of July ,2020							
State/UT	Thermal	Gas	Nuclear	Hydro	Renewable Energy	Grand Total	RE as % of Total
Manipur	0.00	0.00	0.00	77.69	0.48	78.17	0.62
Meghalaya	0.00	0.00	0.00	173.03	3.03	176.06	1.72
Mizoram	0.00	0.00	0.00	11.40	4.28	15.68	27.30
Nagaland	0.00	0.00	0.00	32.36	6.98	39.34	17.73
Tripura	0.00	568.00	0.00	0.00	0.49	568.49	0.09
North Eastern Region	241.72	747.31	0.00	894.89	19.85	1903.77	1.04
All India Total	80586.64	4860.63	3358.52	17922.37	13242.06	119970.22	11.04

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

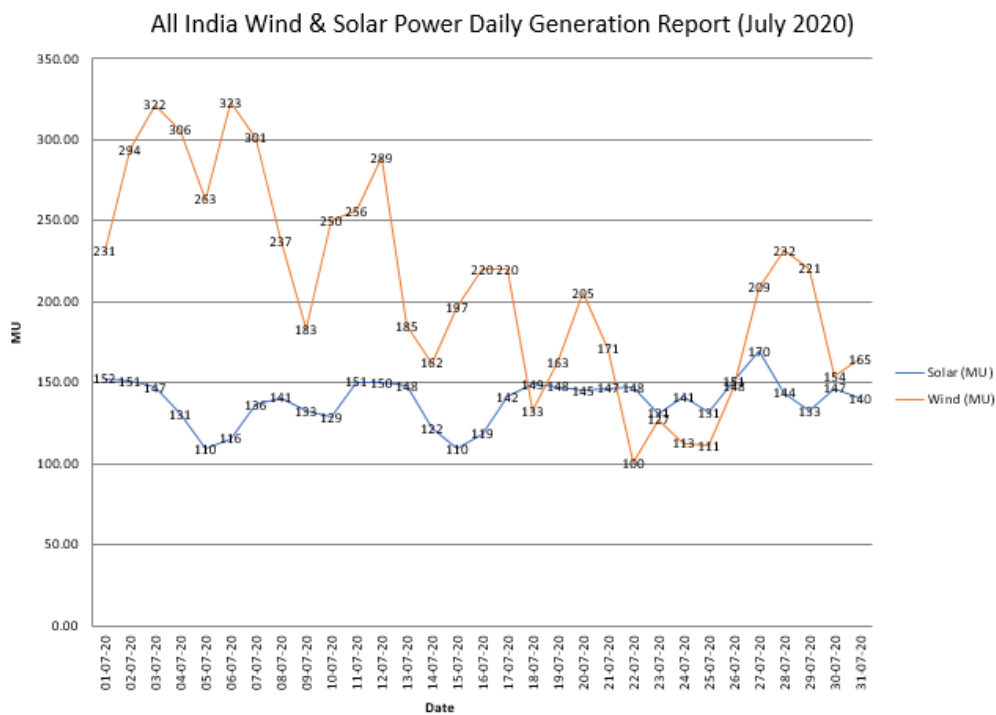


Figure 19 Daily Solar and wind Power Generation trend



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