

REGIONAL ENERGY SCORECARD: ACRPC

Overall
Score:
B

Enhanced Energy Plan Status: Approved 2018

Introduction

Following the release of the Vermont Climate Action Plan and Comprehensive Energy Plan, it is important to understand how our work at a local level translates to the goals set by the State. To that end, ACRPC has developed energy scorecards to report on the progress made by towns and across Addison Region in achieving energy targets set by the enhanced energy planning (EEP) process. These scorecards are intended to act as a progress report for the community and provide suggestions for next steps. They are not part of any required reporting. Regional targets were used for towns that have not completed an EEP to demonstrate the work being done in the context of regional goals. If you have questions about how this data was used, your town's results, or how you can increase energy efficiency in your town, please reach out to ACRPC or the resources cited in this document for assistance.

Structure of the Scorecard

Each town has been graded on progress in four categories. For each category, you will find the energy target, a short report on progress, and suggested actions for continued improvement. Regional results are included in the following pages with some of the actions ACRPC has taken to improve energy efficiency in the region.

Graded Categories

1. Electricity Efficiency
2. Transportation
3. Thermal Efficiency
4. Renewable Generation

Grading System:

- A** - 2025 target has been achieved
- B** - 50% or better progress on 2025 target
- C** - below 50% progress on 2025 target

Data in the scorecards was taken from the following sources:

- Efficiency VT - energy usage, thermal efficiency, and weatherization projects
- VT Energy Dashboard - renewable generation
- VT DMV - Vehicle registrations. Note: DMV registration data is organized by zip code. Therefore, EV and Hybrid registrations are estimates based on proportion of zip code represented by each town.

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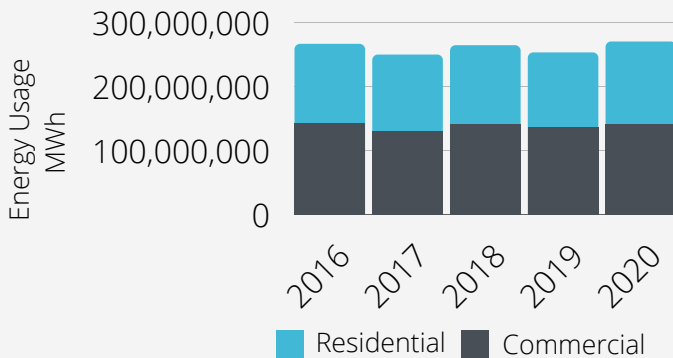
Electric Efficiency

Target:

2025

Energy Usage Reductions

11%



Addison Regions' total energy usage has increased by 1% between 2016 and 2020. Average residential usage also increased by 2% in the same period.

What is ACRPC doing to help?

- Promoting energy efficiency programs to residents, municipalities, and businesses.
- Developing webinar presentations in partnership with Efficiency VT to support



Transportation and Land Use

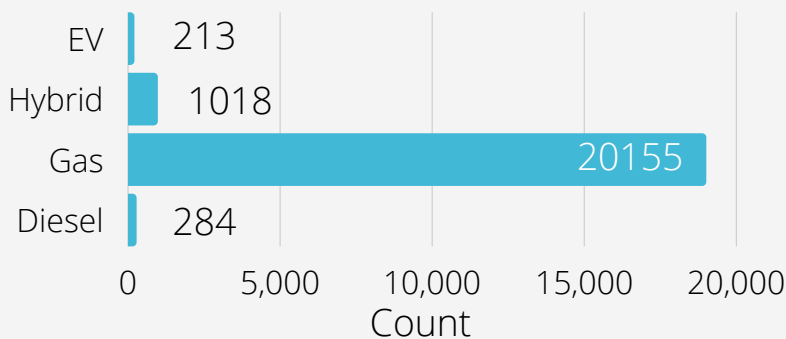
Target:

2025

EVs in Use

2258

Registrations by Vehicle Type



According to the DMV, Addison Region has 1,231 registered electric or hybrid cars, about 6% of all cars in the region. The region has completed 55% of the 2025 target.

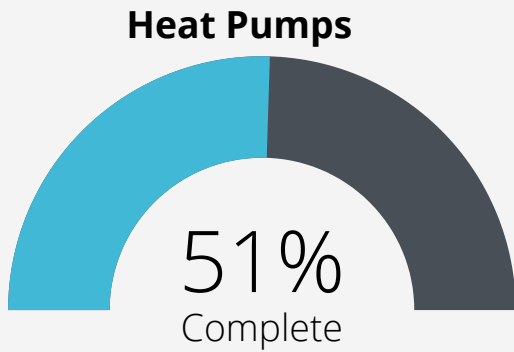
What is ACRPC Doing to Help?

- Helping to update town zoning regulations to guide increased density in downtown and village centers.
- Supporting the Installation of public EV chargers on municipal property and at local businesses.
- Hosting an EV demonstration event at the Middlebury office.
- Serving on the Transportation team for the Climate Economy Action Center of Addison County.



Thermal Efficiency

Targets:	2025	2035	2050
Heat Pumps Installed	1,472	3,558	7,008
% Homes Weatherized	3%	11%	55%



Since 2016 Addison Region has surpassed both the 2025 and 2035 targets and installed 3,567 of the 7,008 heat pumps necessary to reach the 2050 target.

Weatherization

	Project Count
Home Performance with ENERGY STAR®	245
Other Weatherization	57
New Residential Construction	102
Homes Weatherized	404

Addison Region has weatherized 2% of homes.

Regional Savings from Efficiency Projects 2016 - 2020

Year	2016	2017	2018	2019	2020
Thermal Savings (MMBTU)	9,080	27,218	12,158	10,068	5,611
Residential	6,294	25,839	10,006	4,747	3,380
Commercial & Industrial	2,786	1,378	2,152	5,322	2,231
Total Emission CO2 Equivalent (lbs) <small>*Includes Electric efficiency</small>	7,911,965	8,982,430	10,833,005	8,833,895	7,065,348
Residential	3,304,374	3,722,549	2,839,528	3,007,358	2,714,098
Commercial & Industrial	4,607,591	5,259,881	7,993,477	5,826,536	4,351,251
Total Customer Cost Savings <small>*Includes Electric efficiency</small>	\$921,611	\$1,064,932	\$1,483,290	\$1,232,181	\$1,044,771
Residential	\$416,126	\$467,399	\$423,166	\$471,080	\$449,909
Commercial & Industrial	\$505,485	\$597,532	\$1,060,124	\$761,101	\$594,862

Data provided by Efficiency VT

What is ACRPC Doing to Help?

- Perform outreach to residents, municipalities, businesses, and landlords to educate on the benefits and incentives for weatherization.
- Facilitate energy efficiency retrofits on municipal buildings

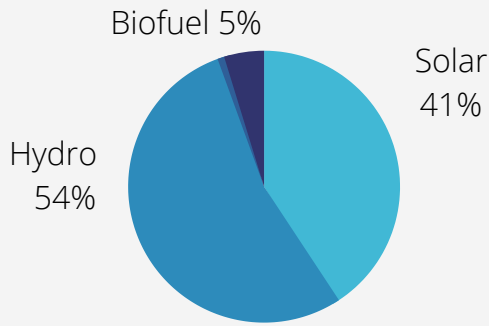


Renewable Energy Generation

Target:

2025

Renewable Generation (MWh) 191,304



Addison Region generates 146,747 MWh of renewable energy each year, equal to about 77% of the 2025 target.



Regional Progress on Renewable Generation Targets 2021

Town	Total Existing Generation 2021 (MWh)	Change in Generation 2017-2021 (MWh)	2025 Renewable Generation Target (MWh)	Remaining to achieve 2025 Target (MWh)	Percent Complete
Addison	3,751.51	389.86	5,488.08	1,736.57	68%
Bridport	6,152.21	-11.42	8,925.59	2,773.38	69%
Bristol	3,695.02	492.80	7,665.36	3,970.34	48%
Cornwall	1,073.52	155.56	3,160.85	2,087.33	34%
Ferrisburgh	13,451.79	7,442.43	9,577.34	Achieved	140%
Goshen	46.52	12.79	762.30	715.78	6%
Leicester	8,161.59	8.22	9,842.70	1,681.11	83%
Lincoln	795.68	-124.12	4,396.74	3,601.06	18%
Middlebury	16,047.62	-1,527.35	25,893.34	9,845.72	62%
Monkton	923.48	-302.92	3,864.34	2,940.86	24%
New Haven	32,488.19	2,169.39	33,277.83	789.64	98%
Orwell	1,171.67	129.53	3,769.75	2,598.08	31%
Panton	7,422.87	6,012.51	2,574.59	Achieved	150%
Ripton	298.59	4.56	1,718.56	1,419.97	17%
Salisbury	5,218.68	42.92	6,987.50	1,768.82	75%
Shoreham	1,560.28	-83.10	5,169.96	3,609.68	30%
Starksboro	973.14	195.29	4,787.53	3,814.39	20%
Vergennes	11,055.86	-406.16	13,623.76	2,567.90	81%
Waltham	804.38	-15.16	1,528.05	723.67	53%
Weybridge	30,740.36	-4,259.96	36,486.85	5,746.49	84%
Whiting	913.61	56.35	1,803.18	889.57	51%
Total	146,746.55	10,382.04	191,304.17	44,557.62	77%

Data collected from the VT Energy Dashboard Jan 2022

What is ACRPC Doing to Help?

- Creation of a renewable siting resource map for the county
- Promotion and facilitation of community solar projects
- Promotion of anaerobic digestion in wastewater and manure management plans