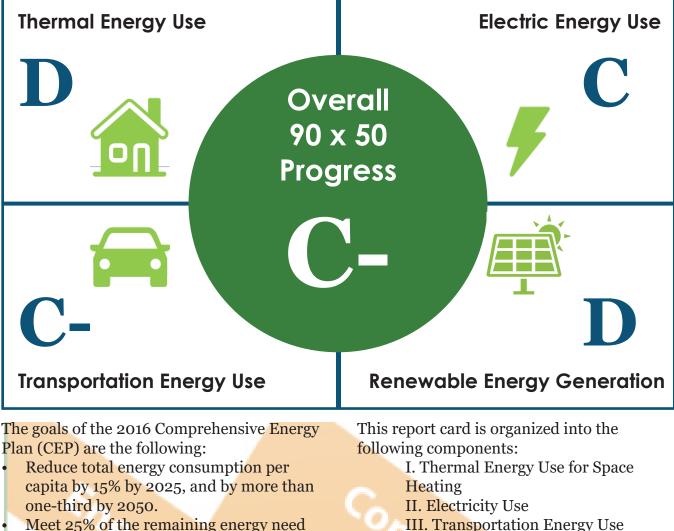
# Town of Braintree Energy Progress Report Card

This report was generated by



Data for this report card was gathered from the American Community Survey, Energy Action Network, Vermont Public Service Department, Efficiency Vermont, and the Vermont Energy Dashboard.



- Meet 25% of the remaining energy need from renewable sources by 2025, 40% by 2035, and 90% by 2050.
- IV. Renewable Energy Generation



# 💻 I. Thermal Efficiency

# Selected Goals: New Heat Pump Units

2025	2035	2050
56	146	309

#### **Progress:** New Heat Pumps & Wood Heat

Projects	Total (2016-2020)
Cold Climate Heat Pump Installations - Residential	5
Cold Climate Heat Pump Installations - Commercial	0
Heat Pump Hot Water Heaters Installations	1
Wood Heating Installations	3

#### % of Residences to be Weatherized

2025	2035	2050	
33%	67%	100%	

(of 584 residential premises)

#### **Progress:** Residential Weatherization

Projects	Total (2016-2020)
Home Performance with Energy Start Projects	1
Other Weatherization Projects	1
Home Energy Visits	2

# **Remaining Progress to Reach 2025 Goal:**

Install 51 new Cold Climate Heat Pumps Weatherize 582 additional Residences

- 1. Coordinate with Efficiency Vermont and other weatherization service providers to encourage residents to participate in weatherization programs.
- 2. Promote the use of the residential and commercial building energy standards by asking the Zoning Administrator to distribute information about Vermont's Energy Codes to permit applicants and explaining options for energy efficiency.
- 3. Conduct an energy audit of municipal buildings to identify weatherization retrofits and consider the recommendations for incorporation into the municipal capital budget.
- 4. Explore opportunities and pursue funding to upgrade efficiencies in all municipal buildings. and encourage efficiency measures in private residential and commercial buildings
- 5. Pursue external funding to support the conversion of municipal buildings to efficient, and renewable heat sources.



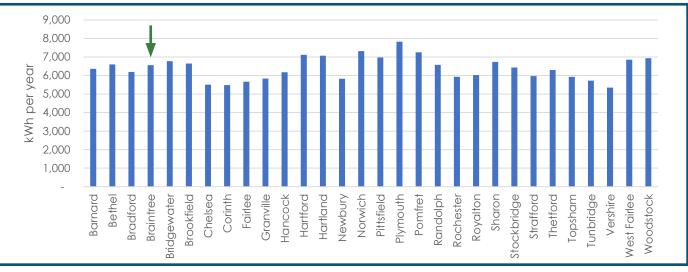
#### Selected Goal: Electricity Efficiency Targets

2025	2035	2050
0.0%	5.7%	9.9%

#### Progress: Electricity usage by year and sector (kWh)

Sector	2017	2018	2019
Commercial & Industrial	733,460	748,849	770,279
Residential	4,028,929	4,081,751	3,829,549
Total kWh	4,762,389	4,830,600	4,599,828

# Average Residential Electricity Usage compared to TRORC Region



# Remaining Progress to Reach 2025 Goal:

Reduce average residential electricity use by 380 kWh/year to 6,279 kWh/year

- 1. Promote the use of the residential and commercial building energy standards by distributing information about Vermont's Energy Codes to permit applicants and explaining energy efficiency options.
- 2. Plan for and encourage electric vehicle charging infrastructure in the community.
- 3. Investigate the installation of municipal solar and/or wind net-metering facilities to offset municipal electric use.
- 4. Support installation of community-based renewable energy project(s) to allow TOWN's citizens to participate in the economic benefits of local energy production.
- 5. Explore opportunities and pursue funding to upgrade efficiencies in all municipal buildings.
- 6. Encourage the incorporation of electric vehicle ready standards into building code.

# III. Transportation Energy Use

#### Selected Goal: Electric Vehicles in Use

2025	2035	2050
79	561	1,166

#### **Progress: Registered Electric Vehicles**

Sector	2017	2018	2019
All Electric	0	2	4
Plug in Hybrid	0	1	2
Total	0	3	6

# Remaining Progress to Reach 2025 Goal:

73 electric vehicles in use

- 1. Work with your local public transportation agency to understand the ways in which service to your could be improved.
- 2. Encourage the installation of electric vehicle charging infrastructure.
- 3. Review municipal road standards to ensure that they reflect all "complete streets" principles applicable to our village and rural roads in order to enable safe access for all users, including pedestrians, bicyclists, motorists and transit riders of all ages and abilities.
- 4. Consider purchasing electric vehicles or high mileage per gallon vehicles to replace aging municipal fleet.
- 5. Support and educate citizens about Vermont's motor idling law (23 V.S.A. § 1110)
- 6. Encourage the use of Park & Rides in your community, or look into creating a municipal Park & Ride facility in your town.



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Selected Goal: Renewable Generation Target (MWh)

2050

6,995-8,550

Based off of the LEAP model, the 2050 goal is displayed as a range.

# **Progress: Current Renewable Energy Generation**

Туре	# of Sites	Total Production Capacity (kW)	Total Generation (MWh/year)	Capacity installed since 2017 (kW)	Additional Generation since 2017 (MWh/ year)
Solar	33	165.74	203.26	27.9	34.22
Wind	0	0	0	0	0
Hydro	0	0	0	0	0
Biomass	0	0	0	0	0
Total Existing Generation	33	165.74	203.26	27.9	34.22

# **Remaining Progress to Reach 2025 Goal:**

6,961-8,516 MWh of new renewable energy generation (approx. .79-.97 MW)

- 1. The Energy Committee will work closely with the Planning Commission, DRB and Zoning Administrator on any proposed energy development projects.
- 2. Investigate the installation of municipal solar and/or wind net-metering facilities to offset municipal electric use to identify where installation is economically feasible.
- 3. Investigate installation of community-owner renewable energy project(s) to allow citizens to participate in the economic benefits of local energy production.
- 4. Identify potential properties for a town-owned community solar array.