

December 2020 Survey Results from Cape and Vineyard Organizations & Stakeholders Working on Energy and Climate Related Issues

Please note: This report reflects the results of the individuals and organizations who completed the survey sent out in advance of the December 10, 2020 meeting of Cape and Vineyard Organizations & Stakeholders working on energy and climate related issues. It is not meant to be a comprehensive overview of energy and climate activity on Cape Cod and Martha’s Vineyard. Information in the report can be updated by contacting Dan Schell at Dan.Schell@capelightcompact.org

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Survey Respondents

Towns

Aquinnah Climate & Energy Committee

William Lake, Chair

Lake.williamt@gmail.com

Purpose and goals: Climate Mitigation and Adaptation

Brewster Energy Committee

Charles H Hanson

chuckhansoncc@gmail.com

Purpose and goals: Advise and support the town of Brewster in saving energy, reducing energy costs, implementing renewable energy within the town.

Barnstable Energy Committee

Gordon Starr, Town Councilor

gordon.m.starr@gmail.com

Peter Doyle, Chairperson, Infrastructure and Energy Committee

misterdoyle182@gmail.com

Purpose and goals: To advise the town on energy related matters.

Chatham

Jill R. Goldsmith, Town Manager jgoldsmith@chatham-ma.gov

Chatham Energy Committee

Bob Wirtshafter, Chair, CVEC Treasurer

wirtino@comcast.net

Purpose and goals: Energy Committee—to promote energy efficiency and sustainable practices in Chatham

Dennis Alternative Energy Committee

Susan Klein, Secretary

sklein1@capecod.net

Purpose and goals: Identify and review renewable energy options that meet the goals and objectives established by the Board of Selectmen. The Committee shall explore and analyze topics such as energy production facilities, infrastructure, efficiency and conservation measures, regional opportunities, and funding/grant opportunities.

Edgartown Energy Committee

Alan Strahler, Chair of Committee

alan@bu.edu

Jack Ensor, Member

jackensor1@verizon.net

Purpose and goals: Assist the Town of Edgartown in saving energy and reducing energy cost

Falmouth Energy Committee

Eleanor Ling, Member

lingeleanor@live.com

Rosemary Carey, Member

Rosemary@copyrose.com

Matthew Patrick

repmattp@gmail.com

<http://www.falmouthmass.us/453/Energy-Committee>

Purpose and goals: Promote energy efficiency, clean and renewable energy systems. The Falmouth Energy committee advises the Selectboard on matters related to energy.

Harwich Energy Committee

Valerie Bell, Chair

valerie600@gmail.com

Purpose and goals: To advise the town of Harwich in matters of energy use and to move the town to adopting more renewable energy sources.

Mashpee

Ashley Fisher, Mashpee Director of Natural Resources

afisher@mashpeema.gov

Purpose and goals: Protect the public health and safety on Mashpee waterways with patrols, and maintenance of signs and navigational aids. Enforce Shellfish and Waterways By-Laws and General Laws. Manage, monitor, protect and when necessary restore the aquatic natural resources including shellfish, water quality and waterways. Restoration includes shellfish propagation and water quality monitoring. Educate the public about shellfish and waterways uses, regulations and issues. Advise Mashpee Boards, Commissions, Committees and Departments as needed regarding shellfish and waterways.

Orleans Energy Committee

Kevin Clements

clements@wppi.edu

Purpose and Goals: Support the incorporation of green energy in Orleans

Provincetown Conservation Commission and Vineyard Wind

Nathaniel Mayo, Director of Public Affairs

natemayo@gmail.com

Sandwich

Leanne Drake, Town Planner

ldrake@sandwichmass.org

www.sandwichmass.org

Sandwich CAN

Judith Holt

holtgreendesign@gmail.com

Laura Gregorio-Tanguilig

tanguilig.laura.gary@gmail.com

Purpose and goals: We are a group of volunteers interested in mitigating the emission of greenhouse gas on the Cape.

Truro Climate Action Committee

Carol Harris, Chair

carol_harris@comcast.net

Purpose and goals: Address the impact of climate change in Truro

Truro Energy Committee

Bob Higgins-Steele

rehigginssteele@gmail.com

Purpose and goals: Find out what other town Committees are doing. Network and find likeminded Committees to ally with to enact a net zero stretch code align Massachusetts school building Authority funding with the Roadmap to 2050, establish funding mechanisms for deep energy retrofits for low to moderate income households

Wellfleet Energy and Climate Action Committee

Richard Elkin, Chair

dickelkin@gmail.com

Suzanne M Ryan, Member

suzeryan01@gmail.com

Jeff Tash, FinCom Liaison

jefftash@comcast.net

Robert M Shapiro, Coordinator for GCOM and CDP Mitigation and Vulnerability reports

rshapiro@capevisions.com

<http://wellfleetenergyandclimateaction.org/>

Purpose and goals: As approved by the Selectboard on April 5, 2019, the committee has two areas of focus: Climate Change Mitigation, and Climate Adaptation Action. The committee also has two constituencies: The Town government and the individual residents, homeowners, and businesses of Wellfleet.

West Tisbury Energy Committee

Kate Warner, Chair

kswarner57@gmail.com

<https://www.westtisbury-ma.gov/energy-committee>

Purpose and goals: The Energy Committee is an advisory body, which oversees, reviews and advises the town on energy use and measures that will help decrease our town's contribution to climate change. In the Fall of 2020, the Town unanimously passed a resolution to be 100% Renewable by 2040. This resolution applies to all West Tisbury residents, buildings and vehicles. The Energy Committee is working now to provide our townspeople with information so that they can help us meet this goal. Our

hope is that all buildings and transportation in the town will be converted, over time, to use electricity from renewable sources as their sole energy source.

Yarmouth

Amanda Lima, Town Engineer

alima@yarmouth.ma.us

Yarmouth Energy Committee

Mike Duffy, Solarize Plus Solar Coach

mikeduffysr@yahoo.com

<https://www.yarmouth.ma.us/816/Energy-Committee>

Purpose and goals: To inspire energy sustainability throughout the Town of Yarmouth—municipal buildings, schools, commercial businesses, residential homes and transportation vehicles. Goals: 1. Reduce Energy Consumption within Yarmouth by 20% by 2025. 2. Increase the Use of Renewable Energy within Yarmouth by 20% by 2025. 3. Achieve 1,000 Zero Emission Vehicles in Yarmouth by 2025.

Regional and Non-Profit Organizations

350 Cape Cod

Rosemary Dreger Carey, Vice Chair

rosemary@copyrose.com

www.350capecod.org

Purpose and goals: We are a group of concerned Cape Cod residents who have come together to protect the Cape and all the places we love from the climate crisis. We are a local chapter of the 350.org global network, and a local "node" of the 350 Mass / Better Future Project.

Cape and Vineyard Electric Cooperative

Liz Argo, Executive Director

largo@cvecinc.org

www.cvecinc.org

Purpose and goals: The Cape & Vineyard Electric Cooperative (CVEC) was created in 2007 to provide municipalities and schools a way to work together to integrate clean, renewable energy as part of a more sustainable region. Today, CVEC's 32 governmental participants benefit both from annual savings of over \$3,000,000 and from commensurate greenhouse gas reduction. With the additional projects, some with batteries, due for completion in 2022, CVEC will have facilitated the installation of 53 renewable energy projects, totaling 50 MW, able to produce 17 million kilowatt hours of renewable energy annually.

Cape Cod Commission

Michele White, Special Projects Coordinator

michele.white@capecodcommission.org

Heather McElroy, Natural Resources Manager

hmcclroy@capecodcommission.org

<https://capecodcommission.org/>

Purpose and goals: The county's regional planning agency.

Cape Light Compact

Briana Kane, Residential Program Manager

bkane@capelightcompact.org

Margaret Song, Commercial Program Manager

msong@capelightcompact.org

www.capelightcompact.org

Purpose and goals: **Cape Light Compact** is a Joint Powers Entity established and operated by the 21 Cape Cod and Martha's Vineyard towns and Dukes County. The Compact's mission is to provide energy efficiency services, a renewable competitive electric supply offering and advocate for all Cape and Vineyard residents and businesses.

Green Energy Consumers Alliance

Larry Chretien, Executive Director

larry@greenenergyconsumers.org

www.greenenergyconsumers.org

Purpose and goals: To speed the transition to a low carbon economy

Martha's Vineyard Airport

Geoffrey R. Freeman, Airport Director

gfreeman@mvyairport.com

www.mvyairport.com

Purpose and goals: To help in the movement for a cleaner environment and to have our airport a model for others

Passive House Massachusetts

Aaron Gunderson, Executive Director

aaronjgunderson@gmail.com

www.phmass.org

Self-Reliance Corporation

Megan Amsler, Executive Director

megan@reliance.org

www.reliance.org

Purpose and goals: We help people with their decision-making relating to energy efficiency/conservation, solar, heat pumps, battery storage, EVs. We offer community-shared solar and conduct energy benchmarking and create climate and energy action plans for NGOs. We also work in the offshore wind workforce space.

Vineyard Power

Richard Andre, President

richard@vineyardpower.com

Erik Peckar, Vineyard Power Cooperative & Dukes County Rep to CLC

erik@vineyardpower.com

www.Vineyardpower.com

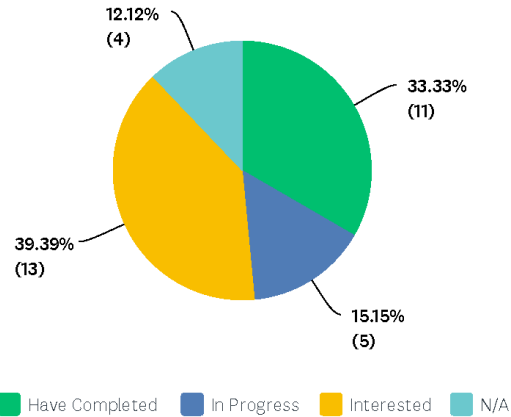
Purpose and goals: Our mission is to produce electricity from local, renewable resources while advocating for and keeping the benefits within our island community. Our vision is to make the island

of Martha's Vineyard 100% renewable, in domestic electricity, transportation, and home heating, by 2040.

Electric Vehicle Charging Stations

Q10 Public Electric Vehicle Charging Stations

Answered: 33 Skipped: 6



	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
Public Electric Vehicle Charging Stations	33.33% 11	15.15% 5	39.39% 13	12.12% 4	33	2.07

Towns

Aquinnah Climate & Energy Committee - Have Completed

Two installed this year.

Brewster Energy Committee – Interested

Barnstable Energy Committee - Have Completed

We have 7-8 charging stations run by the town.

Chatham - Interested

We are in progress for employee vehicle charging stations and interested in pursuing public charging stations in municipal parking lots.

Chatham Energy Committee - In Progress

Slowed down by Covid

Dennis Alternative Energy Committee - Interested

EV Charging Stations are our Committee's #1 priority for 2021. A sub-committee has been formed and 2-3 potential sites have been identified.

Edgartown Energy Committee - In Progress

Awaiting approval for 2 poles (4 spaces) at April, 2021, town meeting

Falmouth Energy Committee - Have Completed

Falmouth has one public EV charging station at Marine Park and another for employees of WHOI. An additional EV charging station was purchased last year (2019) for municipal use. Town's fleet in process of converting. We have several electric cars.

Harwich Energy Committee - Interested

Mashpee - In Progress

Town: Awaiting a meter from Eversource. All other installation is complete, and cars have been purchased. Public: Tesla station at the Mashpee Commons.

Provincetown - Have Completed

Provincetown was an early adopter of charging stations at public parking lots, however more are needed as density should be compared against town automobile activity (seasonal activity with a 10x increase in seasonal population) rather than year-round population.

Sandwich CAN - Interested

There is great interest on the part of Sandwich CAN to install EV charging stations throughout the town.

Truro Climate Action Committee - Interested

Truro Energy committee - In Progress

Wellfleet Energy and Climate Action Committee - Interested

One charging station behind town hall.

West Tisbury Energy Committee - In Progress

The Town Hall and Public Safety Building each have charging stations for 2 vehicles. Money has been received to put another charging station in the parking lot shared by the Library and the Up-Island Council on Aging. Hopefully, it will be complete in the Spring.

Yarmouth Energy Committee - Have Completed

Four individual charging hookups active at Town Hall. Two individual hookups active at the Senior Center. Two individual charging hookups active at Bayberry Golf Course. Two individual charging hookups in progress at the new DPW Building scheduled to be completed in Spring 2021.

Regional and Non-Profit Organizations

350 Cape Cod - Interested

We advocate and educate for the electrification of our transportation system. Locally that means urging our towns to purchase (or lease) electric vehicles for their fleets and install EV charging stations.

Martha's Vineyard Airport - Interested

Next 1.5 years

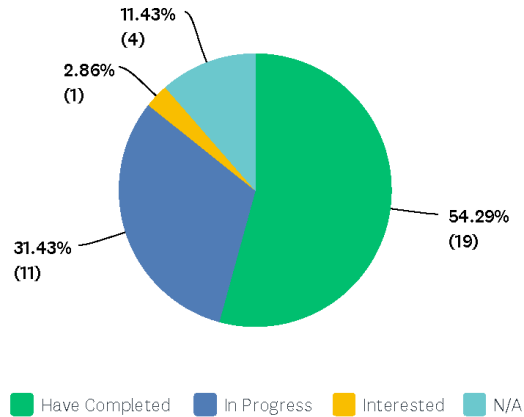
Vineyard Power Cooperative - Have Completed

We have built public EV charging stations at Cronig's Market in Vineyard Haven.

Municipal Solar Projects

Q11 Municipal Solar Projects

Answered: 35 Skipped: 4



	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	54.29%	31.43%	2.86%	11.43%	35	1.42
	19	11	1	4		

Towns

Aquinnah Climate & Energy Committee - In Progress

Expected in 2021

Barnstable Energy Committee - Have Completed

Multiple large PV systems. We are close, if not over our limit.

Brewster Energy Committee - Have Completed

Solar on Capped Landfill Solar panels on both elementary school roofs Solar canopies on parking lot at Golf Course Driving Range (March 2021) Solar canopies on parking lot at golf Course (Fall 2021) Solar panels on Fire Station Roof (Spring 2021) Solar panels on Water Department Building Roof (Spring 2021)

Chatham Energy Committee - Have Completed

5 sites through CVEC, two under development

Dennis Alternative Energy Committee - Have Completed

First municipal solar project was a PV installation on the roof of the Dennis Police Station. The primary project was a solar farm/brightfield on the capped landfill that went online in 2014. At the time, it was the largest solar project on a capped landfill in the U.S.

Edgartown Energy Committee - Have Completed

Town has Nunnepog Well and Katama Farm solar fields dating from about 2013 presently in operation. We are in the early stages of leasing the town's closed landfill for development of solar PV and energy storage

Falmouth Energy Committee - Have Completed

Our capped landfill installed a 4 MW solar array in 2017; another 2MW is in development by the EDIC. In 2018 we passed a bylaw that established a large-scale ground mounted solar overlay district which made way for a 7MW ground mounted solar array owned by the Lynch Corporation. The Barnstable Fairgrounds is building a carport solar canopy array on some of its parking lots.

Harwich Energy - Have Completed

The town has completed several projects with CVEC

Sandwich CAN - In Progress

The Sandwich Police department has a PV canopy. Future canopies are planned for 3 schools and for the Center for Active Living.

Mashpee - Have Completed

Truro Climate Action Committee - Interested

Truro Energy Committee - Have Completed

Wellfleet Energy and Climate Action Committee - In Progress

Solar PV array on capped landfill. 1.3 megawatts DC. Operational in 2021

West Tisbury Energy Committee - In Progress

The solar array at the landfill provides renewably generated electricity for all town buildings. A next goal is to provide resilience to town buildings using solar and battery banks so that our town can continue to function as needed in a prolonged power failure.

Yarmouth Energy Committee - Have Completed

~3.3 MW bought by Yarmouth through CVEC's Offtaker Program.

803 kW installed and to be installed by CVEC: Fire Station 1 roof, Fire Station 3 roof.

kW installed by commercial developers (non CVEC): Town Hall roof: ~10.5 kW (2008); 2 kW added later Disposal Area ground mount ~2kW. Chamber of Commerce roof ~ 5kW. Septage treatment facility roof mount 276 kW (2011).

2.78 MW installed for DYRSD through CVEC In Progress: Senior Center roof. DPW Building roof (non-CVEC). Police Station. Fire Station 3 canopy. 50 Workshop Road, sub parcel E, ground mount. Town Hall roof - expanded array?

Regional and Non-Profit Organizations

Martha's Vineyard Airport - In Progress

Working with CVEC on solar projects that may start in 2021

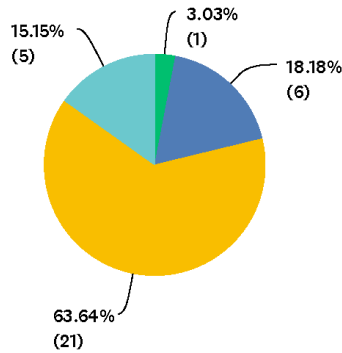
Vineyard Power Cooperative - Have Completed

We have completed two municipal solar projects for both the town of Aquinnah and Chilmark.

Municipal Battery Storage

Q12 Municipal Battery Projects

Answered: 33 Skipped: 6



■ Have Completed
 ■ In Progress
 ■ Interested
 ■ N/A

(no label)	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
	3.03%	18.18%	63.64%	15.15%	33	2.71
	1	6	21	5		

Towns

Aquinnah Climate & Energy Committee - In Progress
Expected in 2021

Barnstable Energy Committee - Interested

Brewster Energy Committee - In Progress
Batteries planned to be included in the solar canopy installation at Captains Golf Course.

Chatham Energy Committee - Interested

Dennis Alternative Energy Committee - Interested

Edgartown Energy Committee - In Progress

Falmouth Energy Committee - Interested
Falmouth High School is an emergency shelter making it a desirable location for a large rooftop and carport solar project with battery backup storage.

Harwich Energy Committee - Interested

Mashpee - Interested

Sandwich - Interested

Sandwich CAN - Interested

We encourage the use of battery storage with all PV installations.

Truro Climate Action Committee - Interested

Truro Energy committee - Interested

Wellfleet Energy and Climate Action Committee - Interested

West Tisbury Energy Committee - Interested

None so far

Yarmouth Energy Committee - Have Completed

Battery Energy Storage System for DYHRS Emergency Shelter

Regional and Non-Profit Organizations

Martha's Vineyard Airport - Interested

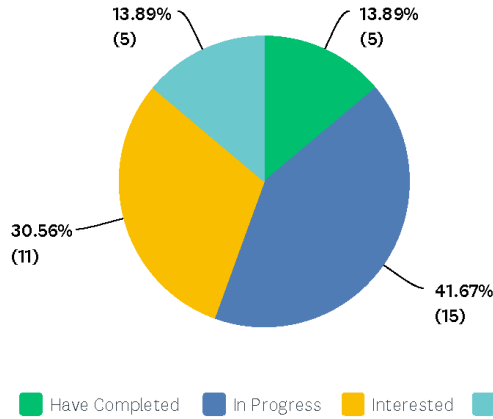
next 1.5 years

Vineyard Power Cooperative - In Progress

Town Adoption of Net Zero Goals

Q13 Net Zero Goals - Town Adoption

Answered: 36 Skipped: 3



	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	13.89% 5	41.67% 15	30.56% 11	13.89% 5	36	2.19

Towns

Aquinnah Climate & Energy Committee - In Progress

In warrant for next Town meeting

Barnstable Energy Committee - In Progress

We passed a Climate Resolution committing to NetZero as soon as possible.

Brewster Energy Committee - In Progress

Chatham Energy Committee - In Progress

Require all town new construction be net zero. Matter on agenda for next Energy Committee. Also on agenda is discussion of sustainable landscaping bylaw.

Dennis Alternative Energy Committee - Interested

Edgartown Energy Committee - In Progress

Aspirational goals of 100% renewable energy and 0% fossil fuel consumption for town and residents by 2040 to be on April, 2021, town warrant

Falmouth Energy Committee - In Progress

After passing the Climate Emergency Declaration at Town Meeting 2020, the Energy committee and community groups are working to define net zero goals that are more specific than "as soon as economically and technologically feasible" written into the resolution.

Harwich Energy Committee - Interested

Mashpee - Interested

Provincetown - Have Completed

Climate Emergency Declaration passed at Fall 2020 town meeting

Sandwich - In Progress

Sandwich CAN - Interested

We encourage the town to adopt net zero as a building code.

Truro Climate Action Committee - In Progress

Currently working on goal setting.

Truro Energy committee - In Progress

Wellfleet Energy and Climate Action Committee - Have Completed

Became Green Community in 2014. Started inventory of town government energy usage. Joined Global Covenant of mayors in 2018. Started inventory of town wide energy usage and plan for net-zero GHG emissions. Adopted Climate Emergency Policy in 2020. Working towards net-zero GHG for new Nauset Regional HS building

To Zero as soon as possible but not later than 2050.

West Tisbury Energy Committee - In Progress

In the Fall of 2020, the Town unanimously passed a resolution to be 100% Renewable by 2040. This resolution applies to all West Tisbury residents, buildings and vehicles. The Energy Committee is working now to provide our townspeople with information so that they can help us meet this goal. Our hope is that all buildings and transportation in the town will be converted, over time, to use electricity from renewable sources as their sole energy source.

Yarmouth - Have Completed

Regional and Non-Profit Organizations

350 Cape Cod - In Progress

We helped organize the Climate Emergency campaign which brought resolutions to move toward net zero at the earliest economically and technologically feasible time. We continue to engage in moving net zero goals in each town forward.

Martha's Vineyard Airport - In Progress

To have the airport CAMPUS net zero by 2040

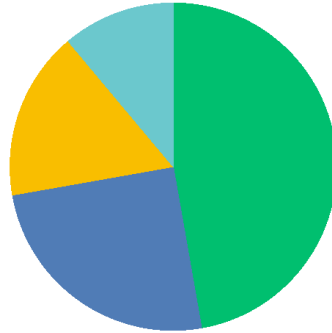
Vineyard Power Cooperative – In Progress

Working with all 6 island towns on the adoption of the following non-binding resolutions goals of which are to eliminate the island's reliance on fossil fuels by 2040 and ensure the island's energy needs are met from renewable sources. The Town of West Tisbury has already adopted these items.

Green Communities

Q14 Green Communities

Answered: 36 Skipped: 3



■ Have Completed
 ■ In Progress
 ■ Interested
 ■ N/A

	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	47.22% 17	25.00% 9	16.67% 6	11.11% 4	36	1.66

Towns

Aquinnah Climate & Energy Committee - Have Completed

Barnstable Energy Committee - In Progress

Audits and reports of municipal buildings almost done. Hope to vote in February or March.

Brewster Energy Committee - Have Completed

Green Communities Status awarded in Dec 2019

Chatham Energy Committee - Have Completed

Dennis Alternative Energy Committee - Have Completed

Edgartown Energy Committee - In Progress

Lacking approval of Stretch Code, will be on town warrant for April, 2021.

Falmouth Energy Committee - In Progress

Our Green Communities application is near completion; we are aiming to submit it by year-end 2020.

Harwich Energy Committee - Have Completed

Mashpee - Interested

Provincetown - Have Completed

Sandwich - Interested

Sandwich CAN - In Progress

The town has started the process toward adopting Green Communities. It has lagged behind due to Covid and reluctance on the Board of Selectmen.

Town of Wellfleet Energy Committee - In Progress

Grant proposal accepted: 5 different projects.

Truro Climate Action Committee - Have Completed

Truro Energy committee - Have Completed

Wellfleet Energy and Climate Action Committee - Have Completed

Joined in 2014

West Tisbury Energy Committee - Have Completed

The Town became a Green Community in 2011 and the Energy Committee has overseen the reduction of the town buildings' energy use by 20% since we joined the program. Our goal is to continue to improve the town buildings' energy performance by increasing efficiency measures and by converting all town buildings over to electricity, provided from renewable sources, for all heating, cooling and water heating. We are now working to add the School to the Green Communities program and reduce its energy use by at least 20% and also convert it, over time, to get all its energy needs from electricity.

Yarmouth Energy Committee - Have Completed

Yarmouth became a Green Community in spring 2018 and is finishing up work on its initial grant project.

Regional and Non-Profit Organizations

350 Cape Cod - Interested

With members from every town on the Cape, we share ideas and strategies to help residents advocate effectively for their town to achieve Green Communities status.

Martha's Vineyard Airport - Interested

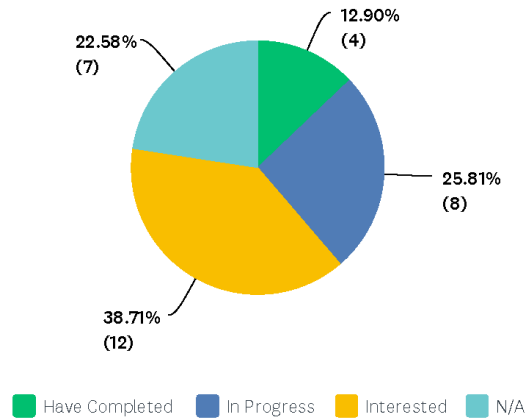
Vineyard Power - Have Completed

Solarize

The solarize program issues an RFP to select a designated solar installer that can offer competitive pricing for a large quantity of installs offering customers upfront savings.

Q15 Solarize

Answered: 31 Skipped: 8



	HAVE COMPLETED	IN PROGRESS	INTERESTED	N/A	TOTAL	WEIGHTED AVERAGE
(no label)	12.90% 4	25.81% 8	38.71% 12	22.58% 7	31	2.33

Towns

Barnstable Energy Committee – Interested

Brewster Energy Committee – Interested

Chatham – Interested

Edgartown Energy Committee - Interested

We are following these developments. We have two solar sites, and we are in the planning stages for two others.

Falmouth Energy Committee – Interested

Harwich Energy - Interested

Mashpee - Interested

Provincetown - Have Completed

Sandwich CAN - In Progress

We encourage the town. to install as much PV and wind as possible.

Sandwich - Interested

Truro Energy committee - Interested

Wellfleet Energy and Climate Action Committee - Have Completed Program in 2014 and again in 2018

Previous outer cape solar program for residents finished last year. Team being put together for a new project.

Yarmouth Energy Committee - In Progress

Yarmouth received a 2020 Solarize Plus award for Solar PVs and Air-Source Heat Pumps from the Mass Clean Energy Center. We will be issuing an Installer RFP in early January and anticipate beginning installations in late March.

Regional and Non-Profit Organizations

350 Cape Cod - Interested

Martha's Vineyard Airport - In Progress

Additional Projects

Towns

Aquinnah Climate & Energy Committee

Food forest, review of stream-crossing culverts, CERT planning for disaster readiness.

Sandwich CAN

We are working on making sure every home in Sandwich has had an energy assessment. We also encourage the installation of solar.

Sandwich

Mainly working on solar, net zero, plastic consumption and green communities

Truro Climate Action Committee

Outreach and education Planting for carbon sequestration Adopt MA stretch code Encourage businesses to get an energy audit. Develop a response plan for Truro

Wellfleet Energy and Climate Action Committee

Preliminary planning on further Outer Cape Energize or Cape and Islands Energize (solarize and conservation and electrification)

Expansion of GHG inventory project for other towns. Working with CDP and GCOM on improvement of annual filing of GHG reduction plans and vulnerability plans.

West Tisbury Energy Committee

We are working with an engineering team that the MA Clean Energy Center appointed on analyzing what is needed to make 6 key Town buildings resilient in times of prolonged power failure/extreme weather events.

Yarmouth Energy Committee

We are entering the first year of our 5-Year Plan to reduce overall energy consumption within Yarmouth, to increase the percentage of energy consumption from renewable sources, and to increase the number of zero emission vehicles."

Regional and Non-Profit Organizations

350 Cape Cod

Our Steering Committee members are actively involved in the Cape Cod Commission Climate Action Plan Stakeholder process. We are organizing to call for a withdrawal of the proposed Machine Gun Range at the Joint Base Cape Cod. We continue to advocate for the advancement of solar, wind and other renewable projects on the Cape and offshore, including solar in historic districts.

Cape Cod Commission

Cape Cod Climate Initiative stakeholder process and climate action plan. Anticipated completion of a final plan will be Spring 2021. See our Climate Initiative webpage for more information on the Commission's climate related work: <https://www.capecodcommission.org/our-work/climate-change/>. The Commission is also performing a legal and jurisdictional analysis to better understand the limits and opportunities of county and towns to adopt policies or regulations within the existing legal context.

Martha's Vineyard Airport

Overall reduction of electrical usage in terminal areas

Vineyard Power

The Vineyard Wind project(s)

Additional Technical Assistance and Data Requests

Towns

Aquinnah Climate & Energy Committee

More volunteers from Town residents.

Barnstable Energy Committee

Is it possible to get data about which houses have had energy audits, and how many have actually had the work done? Can we get this by town or village?

In the process of the Green Community, it might prove helpful to have a list of folks who are GC knowledgeable as the Town Council may request a workshop

Edgartown Energy Committee

Solar energy consultant to guide town to RFP for solar PV/battery storage at closed landfill.

We may be doing an RFP for solar for 2 sites - we are interested in how other governmental organizations have approached this topic. Did these use consultants/issue an RFP directly from the entity or did they use some other approach?

Falmouth Energy Committee

Sharing of knowledge between towns is very much needed. Sample bylaws, procurement policies, cost analyses of net zero buildings, innovative ideas, marketing templates or website to assist with communications.

Harwich Energy Committee

Our committee is only 3 people. We are looking for grant opportunities and technical advice.

Mashpee

Green infrastructure for new municipal buildings. i.e.. DNR building when plans to build are approved.

Sandwich CAN

Funding, funding, funding. Sandwich is working on designing and building a Net Zero Center for Active Living (new construction on vacant land). Would be grateful to learn of all incentive opportunities to reach this goal.

Truro Climate Action Committee

Support for GHG assessment Support for carbon sequestrationeverything, actually

Truro Energy committee

Vehicle miles travel data for GHG inventory

Wellfleet Energy Committee and Climate Action Committee

Current GHG inventory inaccuracies due to missing information. Includes poor information on use of propane and fuel oil for residents' houses. Town also lacks accurate fuel consumption for vehicles owned by residents. These two factors are critical because they account for more than half the GHGs generated in the town of Wellfleet.

We need data on municipal, residential and commercial fossil fuel usage so we can measure and report our progress to Global Covenant of Mayors for Climate and Energy.
Help with data collection for fuel oil and propane delivery and for fleet average efficiency for town.

West Tisbury Energy Committee

We will be seeking help from the Cape Light Compact and CVEC once our resilience analysis is complete to accomplish whatever recommendations there are with regard to greater energy efficiency and to find ways to finance and install solar modules and battery banks.

Yarmouth Energy Committee

With regard to Solarize Plus Yarmouth: We would be interested in hearing from other towns who have already completed a Solarize or Heat Smart program with the Mass Clean Energy Center, especially concerning lessons-learned, successful outreach tips and materials, and references on the specific installers used for both solar PVs and ASHPs.

With regard to our 5-Year Plan: We have been using both “Mass Save Data” and “Mass Energy Insight” to collect baseline electricity and natural gas usage by user type within Yarmouth.

We would really like to find a source for obtaining the number of electric (zero-emission) vehicles registered within Yarmouth.

Regional and Non-Profit Organizations

350 Cape Cod

We welcome data that supports the economic viability of renewable energy and energy conservation projects so we can reduce our reliance on climate warming fossil fuels.

Cape Cod Commission

We collect and share data related to land use planning, water quality, economic indicators, conservation, natural resources, transportation, affordable housing, greenhouse gas emissions, renewable energy generation and use, and others.

Martha's Vineyard Airport

We are looking to partner and learn from all groups to help the airport be successful in meeting environment goals while still maintaining a safe aviation network.

Vineyard Power

Pursue collaboration with CVEC

Responses to Data Requests

MUNICIPAL BUILDINGS

- Net Zero Center for Active Living
 - Laura Gregorio-Tanguilig, Sandwich CVEC Rep and CAN
 - Sandwich is working on designing and building a Net Zero Center for Active Living (new construction on vacant land). Would be grateful to learn of all incentive opportunities to reach this goal.
 - *Response:*
 - *Cape Light Compact will reach out to Heather Harper to discuss available Energy Efficiency Incentives.*
 - Ashley Fisher, Town of Mashpee (NR Director)
 - Green infrastructure for new municipal buildings, i.e. DNR building when plans to build are approved.
 - *Response:*
 - *Cape Light Compact's Commercial & Industrial Program will reach out to discuss available Energy Efficiency Incentives.*

SOLAR AND BATTERY PROCUREMENT

- Solar and battery
 - Alan Strahler, Edgartown Energy Committee
 - Solar energy consultant to guide town to RFP for solar PV/battery storage at closed landfill.
 - *Response:*
 - *CVEC is in communication about this project.*
 - *CLEAR (Clean Energy and Resiliency program) and META (Municipal Energy Technical Assistance) Grants may also be available through the Department of Energy Resources (DOER).*
 - <https://www.masscec.com/about-masscec/news/baker-polito-administration-announces-funding-ensure-climate-resilient-facilities>
 - <https://www.mass.gov/news/baker-polito-administration-awards-municipal-energy-technical-assistance-grants-to-56#:~:text=The%20Department%20of%20Energy%20Resource's,municipalities%2C%20regional%20school%20districts%2C%20a>
[nd](#)
 - Jack Ensor, Edgartown Energy Committee
 - We may be doing an RFP for solar for 2 sites - we are interested in how other governmental organizations have approached this topic. Did these use consultants/issue an RFP directly from the entity or did they use some other approach?

- *Response:*
 - *CVEC can assist with municipal procurement of solar. CVEC will follow up with details.*
 - *MassCEC's Solarize program can assist with procurement of small scale systems. Yarmouth and the Outer Cape towns have participated in this program already. Details at the link below.*
 - <https://www.masscec.com/solarize-mass-1>

DATA: GHG, HEATING FUEL USE, ENERGY AUDITS, AND TRANSPORTATION

- General information about renewables and conservation efforts
 - Rosemary Dreger Carey, 350 Cape Cod
 - When we (meaning 350 Cape Cod and other grassroots groups) are advocating for changes in energy choices, such as converting to electric heating and cooling versus gas, oil or coal fuel in our homes, it would be helpful to have supporting data. Cape-specific would be even nicer (i.e. the median home on Cape Cod is a 3 br, 2 ba.... That home would save \$X per year by switching to electric heat & cool pumps). Maybe that's out there somewhere already. The Mass DOER info for the stretch code is helpful, but very much in the weeds and was hard to explain when advocating for the Stretch code with builders. The same for electric vehicles - it would be helpful to have Cape specific info such as "the average mid-size car owner driving 12k miles per year can save \$1xxx/year on fuel driving an electric vehicle versus gas. We would use this information in our communications and being able to source the Cape Cod Commission would surely lend credibility.
 - *Response:*
 - *CLC/Mass Save is currently working on developing and HVAC calculator that will allow customers to calculator potential savings by switching to more efficient HVAC technologies. This should be available in 2021.*
 - *A current calculator that allows for inputting square footage as well the local fuel costs can be found here:*
 - <https://c03.apogee.net/mvc/home/hes/land/el?spc=hcc&utilityname=pseg>
 - *Cost comparison of EVs vs gas vehicles can be found at the link below. Unfortunately, this does not also include the maintenance cost savings of EVs as well.*
 - <http://chooseev.com/savings-calculator/>
 - *The economics of solar installations can be found from the Mass Solar Loan data which includes average cost per kWh and number of projects per town.*
 - <https://www.masssolarloan.com/program-performance>
 - Kate Warner, West Tisbury Energy Committee
 - We will be seeking help from the Cape Light Compact and CVEC once our resilience analysis is complete to accomplish whatever recommendations there

are with regard to greater energy efficiency and to find ways to finance and install solar modules and battery banks.

- *Response:*
 - *CVEC can provide guidance and assistance with municipal solar and battery storage. Cape Light Compact can provide guidance on available incentives for energy efficiency.*
- Transportation Data
 - Bob Higgins-Steele, Truro Energy Committee
 - Vehicle miles travel data for GHG inventory
 - *Response:*
 - *The dataset found at the link below has 2014 data on the number of electric, hybrid and gas vehicles, as well as, average miles per day for passenger and commercial vehicles. All of the data is by town.*
 - <https://datacommon.mapc.org/browser/datasets/330>
 - *Cape Cod Commission can provide regional data modeling.*
 - *RMV Registration Data is available for purchase here:*
 - <https://atlas.massrmv.com/BulkDataProgram.aspx>
 - *Some county level data is available from the Bureau of Transportation Statistics*
 - <https://www.bts.gov/ctp>
 - *Data may also be available via town excise tax data, if available.*
- Energy Use and GHG Inventory
 - Carol Harris, Truro Climate Action Committee
 - Support for GHG assessment and carbon sequestration
 - *Response:*
 - *Data is available on a regional level from the Cape Cod Commission*
 - <https://capecodcommission.org/our-work/greenhouse-gas-emissions-inventory/>
 - Suzanne Ryan, Wellfleet Energy and Climate Action Committee
 - We need data on municipal, residential and commercial fossil fuel usage so we can measure and report our progress to Global Covenant of Mayors for Climate and Energy.
 - *Response:*
 - *EIA offers data for the Northeast based on heating fuel*
 - <https://www.eia.gov/consumption/residential/data/2015/index.php>
 - *Heating cost estimates by fuel are available from the Massachusetts Department of Energy Resources at the link below. These tables also provide an average fuel use per household by fuel type:*
 - <https://www.mass.gov/info-details/household-heating-costs>
 - *MassEnergyInsights can provide municipal data on electricity, natural gas, and oil use.*
 - <https://www.mass.gov/service-details/massenergyinsight>
 - Dick Elkin, Wellfleet Energy and Climate Action Committee

- Help with data collection for fuel oil and propane delivery and for fleet average efficiency for town.
- *Response:*
 - *EIA offers data for the Northeast based on heating fuel*
 - <https://www.eia.gov/consumption/residential/data/2015/index.php>
 - *Cape Cod Commission can provide regional data modeling for transportation.*
 - *RMV Registration Data is available for purchase here:*
 - <https://atlas.massrmv.com/BulkDataProgram.aspx>
 - *Some county level data is available from the Bureau of Transportation Statistics:*
 - <https://www.bts.gov/ctp>
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 - <https://datacommon.mapc.org/browser/datasets/330>
 - *Heating cost estimates by fuel are available from the Massachusetts Department of Energy Resources at the link below. These tables also provide an average fuel use per household by fuel type:*
 - <https://www.mass.gov/info-details/household-heating-costs>
- Gordon Starr, Barnstable Town Councilor
 - Is it possible to get data about which houses have had energy audits, and how many have actually had the work done? Can we get this by town or village?
 - *Response:*
 - *The Compact can't provide customer specific private data but information on how many homes or businesses at the town and county level have received assessments is available at:*
 - <https://www.massavedata.com/public/home>
- Robert Shapiro, Wellfleet Energy Committee
 - Current GHG inventory inaccuracies due to missing information. Includes poor information on use of propane and fuel oil for residents' houses. Town also lacks accurate fuel consumption for vehicles owned by residents. These two factors are critical because they account for more than half the GHGs generated in the town of Wellfleet.
 - *Response:*
 - *EIA offers data for the Northeast based on heating fuel*
 - <https://www.eia.gov/consumption/residential/data/2015/index.php>
 - *Cape Cod Commission can provide regional data modeling for transportation.*
 - *RMV Registration Data is available for purchase here:*
 - <https://atlas.massrmv.com/BulkDataProgram.aspx>

- *Some county level data is available from the Bureau of Transportation Statistics.*
 - <https://www.bts.gov/ctp>
- *Data may also be available via town excise tax data, if available.*

FUNDING, GRANTS, TECHNICAL ASSISTANCE, AND INFO SHARING

- Grants, Technical assistance, Funding
 - Valerie Bell, Haverhill Energy Committee
 - We are looking for grant opportunities and technical advice
 - Judith Holt, Sandwich CAN
 - I believe funding is needed for non-profits to adopt solar. Residential programs do not apply to non profits. Tax credit programs do not apply to non profits because they do not pay taxes. I know many non profit organizations eager to install solar, batteries and heat pumps but find themselves in a bind financially
 - *Response:*
 - *Cape Light Compact can offer energy efficiency services for non-profits, including heat pumps and demand response incentives for battery storage systems.*
 - *For solar, one potential option would be a Power Purchase Agreement (PPA) to cover the upfront costs of the system.*
 - <https://www.mass.gov/doc/ppa-and-nma-guidance/download>
- Green Communities
 - Peter Doyle, Town of Barnstable, Energy and Infrastructure Committee
 - In the process of the Green Community it might prove helpful to have a list of folks who are GC knowledgeable as the Town Council may request a workshop
 - *Response:*
 - *Cape Light Compact's Commercial & Industrial Program will reach out to discuss.*
- Information sharing, e.g. sample bylaws and procurement processes.
 - Rosemary Carey, Falmouth Energy Committee
 - Sharing of knowledge between towns is very much needed. Sample bylaws, procurement policies, cost analyses of net zero buildings, innovative ideas, marketing templates or website to assist with communications.
 - *Response:*
 - *We are investigating creating a clearinghouse of resources but will need to decide where best to house the information.*