

Permitting Solar PV in Massachusetts

A Guide for Municipalities

This series of case studies was developed for municipalities in Massachusetts to be used as a guide to improve permitting processes for residential and commercial solar photovoltaic (PV) systems.

The case studies highlight how various municipalities in Massachusetts have improved permitting processes for solar PV, thereby saving time and money for government officials, solar installers, and residents.

These resources have been developed by the Massachusetts Department of Energy Resources, with support from the Clean Energy States Alliance.

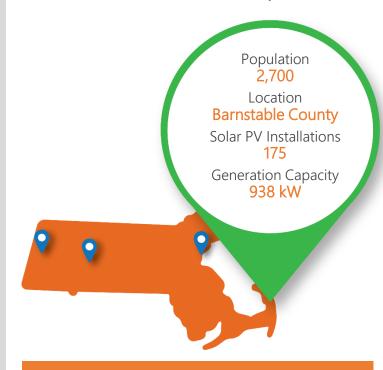
Municipalities covered in this series:

- Boston
- Northampton
- Pittsfield
- Wellfleet



Image courtesy: https://www.flickr.com/photos/nait/6915219490

Wellfleet, MA



Forward Thinking and Engaging the Community

Wellfleet was selected as a study for its response to the local Solarize campaign, which was wildly successful in the town. In six months, 133 residences went solar in a town of 2,700. The Wellfleet Building Department foresaw the uptick in solar installations and convened beforehand with installers to adequately prepare, improve transparency, and accelerate its permitting process.



Wellfleet, MA

Solar Photovoltaics (PV) Permitting: Simple Steps to Streamline Processes

THE TOWN OF WELLFLEET

Wellfleet, a Massachusetts town of 2,700, is located on the Atlantic Ocean near the tip of Cape Cod. In 2013, the town participated in Solarize Mass, a group-purchase program for residential solar PV, and installed 665.7 kW of solar across 133 homes. On December 3, 2014, Wellfleet became a designee in the Massachusetts Green Communities program.

The Inspector of Buildings in Wellfleet, estimates that Wellfleet currently has 175 residential solar installations. According to a Massachusetts solar tracking program, this corresponds to roughly 938 kW of solar power capacity installed.

PERMITTING FOR SOLAR IN WELLFLEET

Prior to the Solarize Wellfleet campaign, few solar PV systems had been installed in Wellfleet. Since 2009, the building inspector estimates that roughly four to five residential solar permits were processed in Wellfleet each year. In anticipation of the Solarize campaign, the building department prepared for a drastic increase in residential solar permits. During the campaign, the building department issued close to 11 permits every month. Now that the Solarize program has ended, fewer residential solar permit applications are submitted, but the Wellfleet building department still processes three to four each month—12 times the yearly permits pulled prior to the Solarize Wellfleet campaign.

Solarize Mass & Green Communities

Solarize Mass is a community based campaign that aims to increase the adoption of small-scale solar. Tiered pricing structures save participants more money as more people sign contracts.

The Green Communities designation and grant program seeks to cut energy costs and strengthen economies in all 351 Massachusetts municipalities. Communities must meet specific criteria after which the state will provide grants to finance energy efficiency and renewable energy projects.

"Wellfleet Building Department is great to deal with."

- Permitting Manager for solar installer operating in Wellfleet

PREPARING FOR SOLARIZE WELLFLEET

Community Engagement

To manage the significant surge in permit applications, Wellfleet's building department met with solar contractors before the Solarize campaign to prevent bottlenecks. In a series of meetings convened by a local resident, the participating solar contractors and the entire staff of the Wellfleet Building Department worked together to create a checklist and streamlined process that catered to each of their needs.

Checklist

The checklist was a critical document in reducing the solar permit application process time in Wellfleet. The document improves solar contractors adherence to the requirements of the building department when filing applications. The checklist standardized the process for processing solar permits in Wellfleet.



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THE PERMITTING PROCESS

Wellfleet has a standardized process for solar PV permits. Contractors submit their application for solar permits using a permitting checklist to the two-member building department. Figure one illustrates this process and table one lists the associated fees.

Figure 1: The five-step solar PV permit process in the Town of Wellfleet



Typically, the building department will receive about 35-40 building permits for all proposed projects each month. The building inspector completes the plan review in one day, but additional administrative time is needed to process applications and most permits are issued within two weeks. The building department notifies contractors when their permit is ready.

Graph 1: Solar PV Permit applications before, during, and after the Solarize Wellfleet campaign

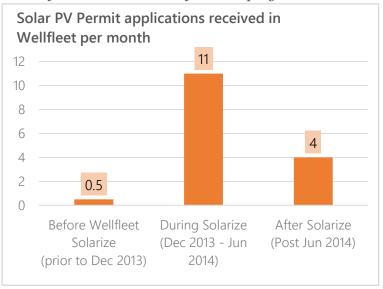
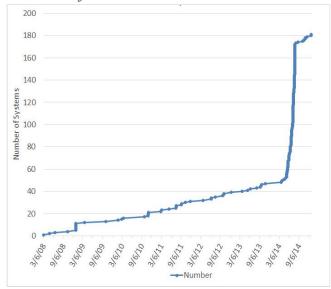


Table 1: Permit fees in Pittsfield

Fee	Building	Electrical	Application
Details	Permit	Permit	Fee
Fee	1% of the building cost	US\$ 120	US\$ 50

Graph 2: Solarize Wellfleet and the surge in number of solar PV installations



Source: http://solarizewellfleet.org/

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RESULT

Wellfleet's solar permit streamlining strategy was based on a proactive and collaborative approach which reduced the amount of time spent processing PV permits. Through stakeholder engagement, participating Solarize installers were able to familiarize themselves with the processes of the Wellfleet Building Department, while the building department adapted their procedures to solar PV. The Town of Wellfleet has proven that increased transparency, collaboration, and education are key elements for a fast and effective solar permitting process.

WELLFLEET Checklist for Permitting Best Practices				
✓	Permitting Checklist		Eliminate Excessive Inspections	
	Permitting Templates		Implement Expedited Process	
	Limited Inspection Time Windows	✓	Do Not Require Community-Specific Licenses	
✓	Permitting Websites		Simplified Permit Fees	
	Online Permitting	✓	Train Permitting Staff in Solar	











This material is based upon work supported by the U.S. Department of Energy under Award Number DE-EE0006305. This report was prepared as an account of work sponsored by an agency of the United States Government. Neither the United States Government nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof. The views and opinions of authors expressed herein do not necessarily state or reflect those of the United States Government or any agency thereof. Icons for these case studies are courtesy of: Ananda A Nair, Alexis Doreau, Magicon, TNS, Yugu Design, Roy Martens, and artwork bean.

¹ Based on data tracked by the Massachusetts Department of Energy Resources for qualified units under the Solar Carve-Out I and II programs. For more information, visit www.mass.gov/eea/energy-utilitiesclean-tech/renewable-energy/solar/

