

# Watertown Sustainability



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Massachusetts  
DEPARTMENT OF ENERGY RESOURCES

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# Watertown has a proud history of Sustainability

## Environment & Energy Efficiency Committee (WE3C)

- Volunteer Committee chartered to advise and assist Municipal Officials and residents on sustainability issues.

## Town of Watertown

- Strong commitment to Sustainability thru daily work and Design Standards and Guidelines to promote sustainable and environmentally responsible designs for development.

## Watertown became a Green Community in 2010

- Became Eligible for State Grants
- Reduced Municipal Energy Usage / Green House Gas Emissions by 12%

# Grants & Rebates Received by Watertown

• HS & DPW Solar Systems	\$189,965
• Grassroots & Solarize Grants for the WE3C	\$3,750
• ESCO Owner's Agent	\$10,000
• LED Street Light Retrofit – Phase 1	\$262,574
• 5 Big Belly Solar Compactors	\$22,025
• CEC – Municipal PV evaluation	\$25,000
• Energy Manager Grant	\$50,000
• LED Street Light Retrofit – Phase 2	\$300,000
<b>➤ <u>Total Grants/Rebates</u></b>	<b>\$863,314</b>

# Watertown Renewable Energy Generation

## Solar PV on Municipal Buildings

- 54 kW at DPW
- 28 kW at Police Station
- 6 kW at High School
- Reduces Green House Gas 79 Tons CO<sub>2</sub>e per year
- Reduces annual electric cost \$24,000

## Solarize Mass, Neighborhood Solar and WISE

- Over 75 Watertown households installed Solar Arrays
- Over 350 kW installed
- Reduces GHG emissions 314 Tons CO<sub>2</sub>e per year

# Watertown Energy Efficiency Improvements

## Performance Contract

- 14 Town & School Buildings upgraded to be more energy efficient
- Energy savings pay for upgrades
- Town expected to save \$1.8M over the 20 year contract

## LED Streetlights – Phase 1

- 1269 Streetlights changed to energy efficient LED's
- Reduced GHG emissions 140 Tons CO2e per year
- Reduces annual electrical cost \$29,800

## Watertown Initiative to Save Energy (WISE)

- 631 Residential Energy Assessments Completed
- 178 Completed Energy Efficiency Upgrades
- Reduced GHG emissions 412 Tons CO2e per year
- Reduced Residents annual Energy Costs by \$107,000

# Watertown Energy Efficient Buildings

## New Police Station

- Onsite Solar PV
- State-of-the-art geothermal heating and cooling system
- Highly efficient building design

## Design Standards and Guidelines

- Design Standards and Guidelines apply to development and redevelopment and promote sustainable designs and environmental responsibility

# Watertown Energy Manager

- Funded by a 2015 State Grant – Goals include:
  - Pursue Energy Efficiency Grants and Incentives
  - Implement Town-Wide Energy Efficiency Projects
  - Provide Town Interface to WE3C
  - Community & Educational Outreach and Assistance
  - Manage Green Community Activities
  - Reduce Watertown's Carbon Footprint
  - Save Watertown Energy and Money

# Current Sustainability Projects

## LED Streetlights - Phase 2

- 100% Funded by \$300,000 Green Community Grant & Incentives
- Replace 781 streetlights with LED's
- Reduce maintenance costs
- Reduce GHG emissions 234 Tons CO2e per year
- Reduce annual electrical cost approx. \$50,000

## Clean Energy Center grant to study potential Municipal PV Sites

- Evaluating municipal rooftops and parking lots for potential PV solar deployment
- Component of Watertown's Clean Energy Roadmap

## ***For more information visit Watertown's Sustainability Webpage***

Town Webpage ([www.watertown-ma.gov](http://www.watertown-ma.gov)) > *Town Departments > Community Development and Planning > Green Community and Sustainability*

Watertown became a Green Community in 2010.

Becoming a Green Community has allowed the Town to be eligible for state grants for energy efficiency and renewable energy projects. These projects are part of an effort by the Town to lead by example in being sustainable and are saving the community money.

Since 2010 Watertown has reduced Municipal energy usage, and the resulting Green House Gas emissions, by over 12%.

# Police Station Solar Array



# DPW Solar Array

