NYSERDA'S CLEAN ENERGY COMMUNITIES PROGRAM

A partnership between NYSERDA, CDRPC, and HVRC.

NEW YORK
STATE OF
OPPORTUNITY.™

NYSERDA
Supported

HUDSON VALLEY REGIONAL COUNCIL

Representing Capital District Regional Planning
Commission, an Independent Contractor to NYSERDA

HUDSON VALLEY REGIONAL COUNCIL

- Hudson Valley Regional Council
  - Regional administrator for CEC Program
  - Mid-Hudson Region
    - 7 counties and the Cities/Towns/Villages within them
- CEC Program
  - Launched August of 2016
  - Funded through 2019
- Local CEC Coordinators
  - Available to provide technical assistance to communities
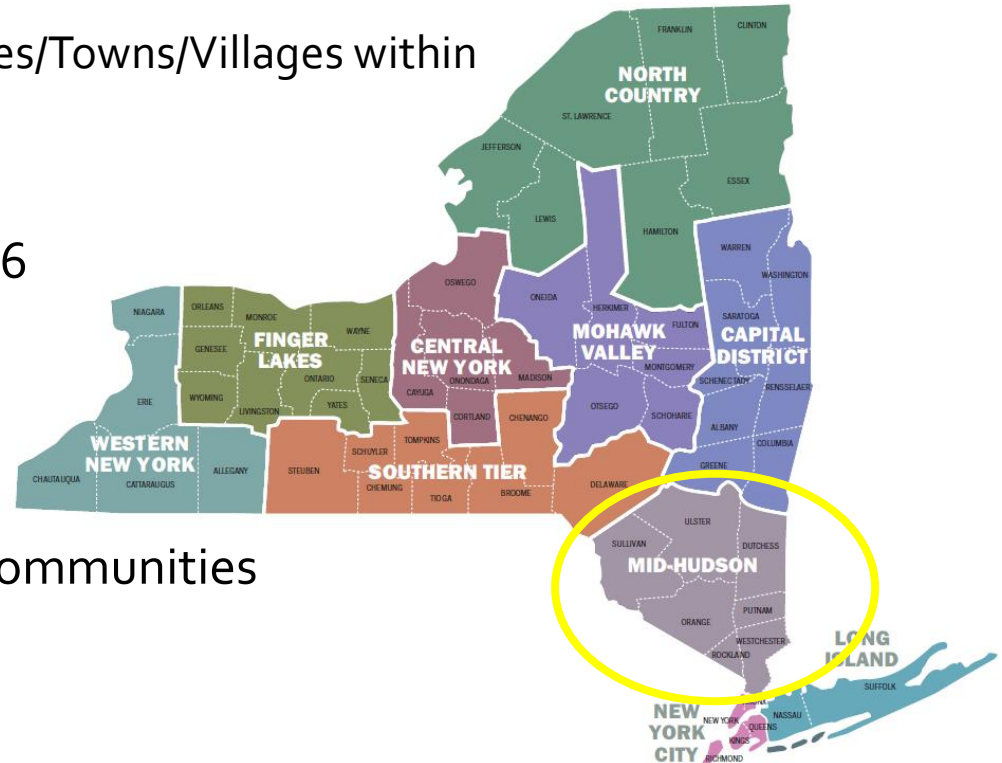
CLEAN ENERGY COMMUNITIES PROGRAM

Designated Clean Energy Communities Map

The communities highlighted on this map are demonstrating their commitment to clean energy by participating in the Clean Energy Communities Program. A community must complete at least four High Impact Actions to earn the Clean Energy Communities designation.

548 Participating Communities

270 Designated Communities

1,554 Actions Completed

CEC Program High Impact Actions

1. Benchmarking
2. Clean Energy Upgrades
3. LED Street Lights
4. Clean Fleets
5. Solarize
6. Unified Solar Permit
7. Energy Code Enforcement Training
8. Climate Smart Communities Certification
9. Community Choice Aggregation
10. Energize NY Finance

HUDSON VALLEY REGIONAL COUNCIL

NEW YORK STATE OF OPPORTUNITY.
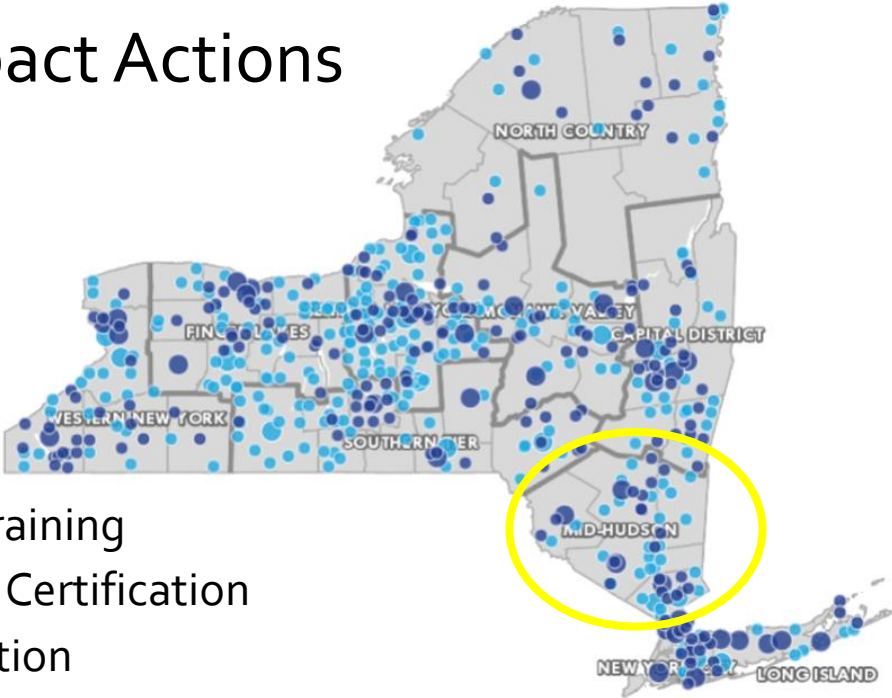
NYSERDA Supported

BENCHMARKING

- Adopt a policy to report the energy use of large municipal buildings on an annual basis
- NYSERDA's Flex Tech Program
  - 50% cost share for building energy audits

ELECTRIC VEHICLES & EV CHARGING STATIONS

- **NYSDEC Zero Emission Vehicle Rebates**
  - **EVs**
    - Up to $5,000 rebate per vehicle
  - **EV charging stations**
    - Up to $8,000 rebate/port for Level 2
    - 20% local cost share can consist entirely of in-kind contributions
- **NYSERDA Drive Clean Rebate**
  - Up to a $2,000 rebate per eligible vehicle

- **Charge Ready New York**
  - Rebates of $4,000 / port
  - Savings of 30% to 80% percent
- **Drive Clean: Drive Electric**
  - Vehicle List
- **Ford Police vehicles**
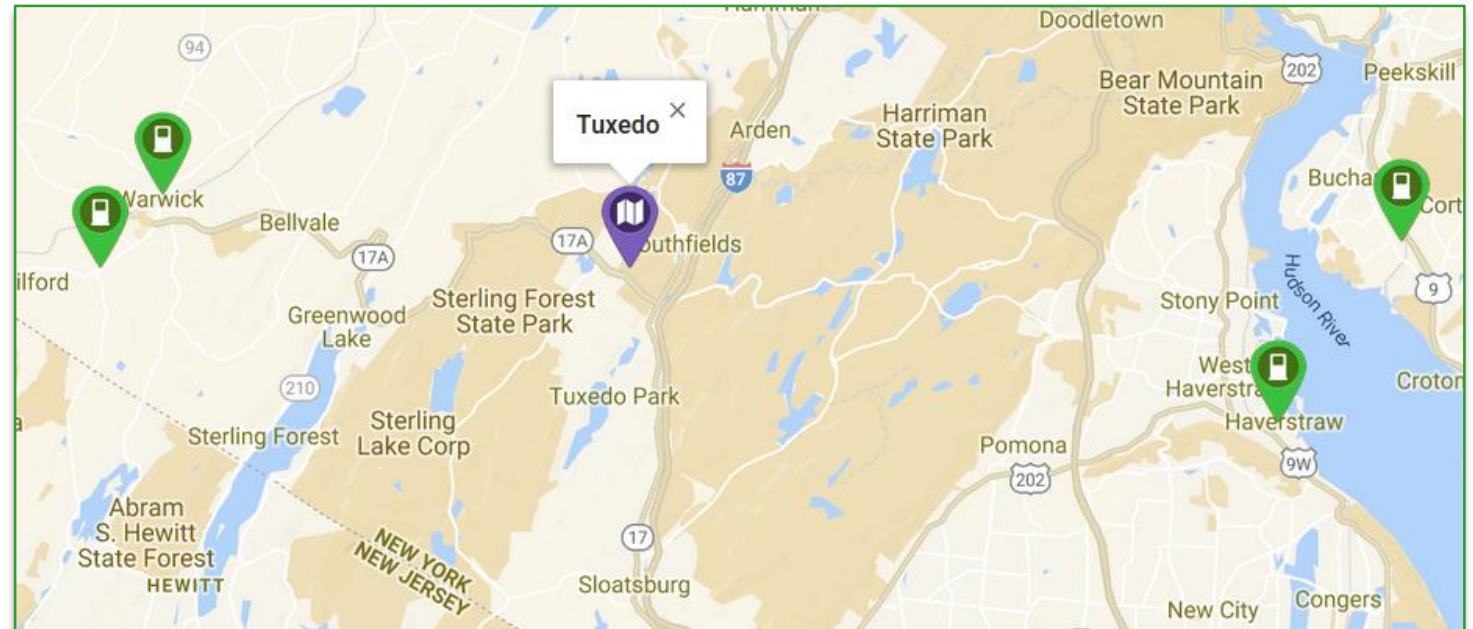
LED STREET LIGHTS

Arm

Photocell

Head

Pole

Base

Cobra Head
Street Light
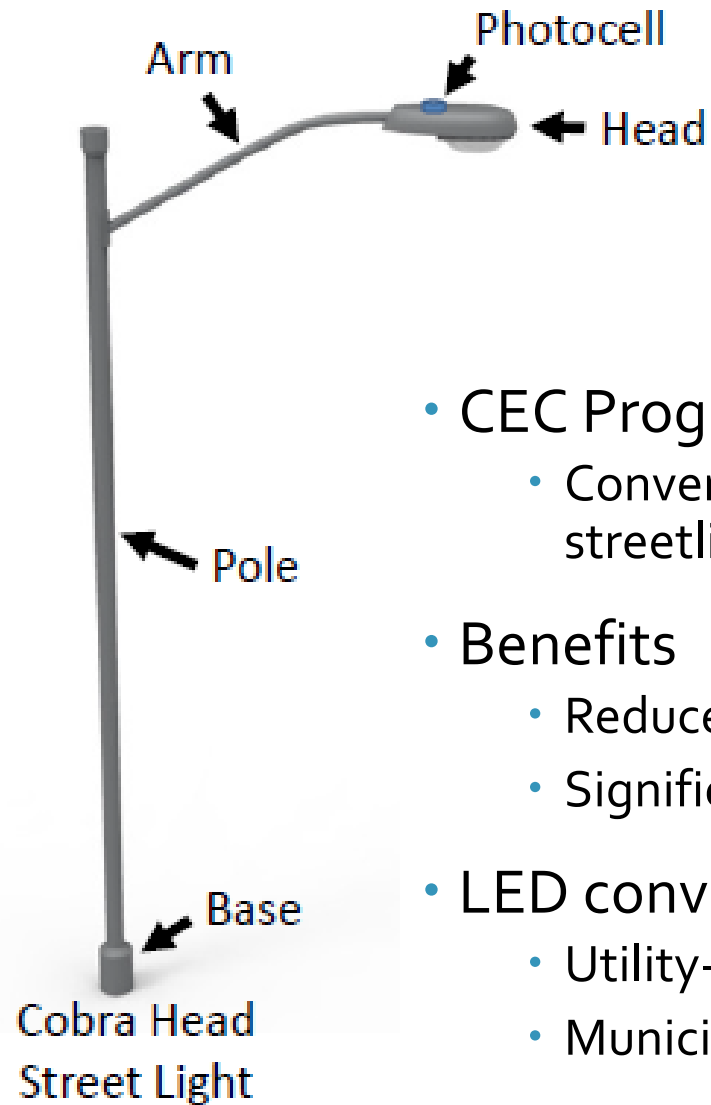
- CEC Program High Impact Action
  - Convert a minimum of 50% of cobra head streetlights to LEDs
- Benefits
  - Reduce streetlight energy use
  - Significantly reduce utility streetlighting bills
- LED conversion pathways
  - Utility-owned
  - Municipal purchase & conversion

LED STREET LIGHTS

- Town of Example
  - 448 Rate A streetlights
  - Central Hudson territory

Estimated Annual Costs			
	Current Model	Utility Ownership	Municipal Ownership
Facility	$92,132.94	$70,602.22	$14,867.06
Electricity	$16,037.41	$4,492.19	$7,258.40
Total	$108,170.35	$75,094.41	$22,125.46
% Savings	N/A	31%	80%

Streetlighting Costs Analysis

LED STREET LIGHTS

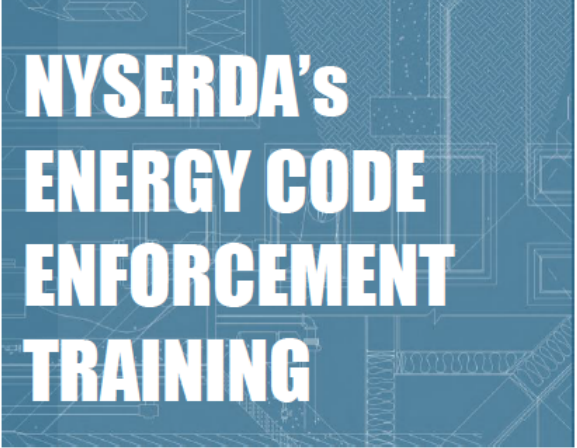- Utility conversion

  - Requires payment of the net-book value of the existing lights to the utility

- Municipal conversion

  - Purchase of the streetlighting system from the utility

  - Purchase of the LED streetlight fixtures & installation costs

  - Estimated annual maintenance costs

    - $20/per light/per year included in projected annual costs (for example cost analysis)

ENERGY CODE ENFORCEMENT TRAINING

- Free training for Code Enforcement Officers
- Full-day, interactive workshop
- 8 DOS in-service hours
- June/July 2019 TBD (Rockland County area)

NYSERDA's ENERGY CODE ENFORCEMENT TRAINING

WEDNESDAY MARCH 27, 2019
8:00 AM - 5:00 PM
KINGSTON CENTER OF SUNY ULSTER

94 MARY'S AVENUE, KINGSTON, NY, 12401--ROOM 104

Newport Ventures will provide a full-day, interactive workshop for NYSERDA's Clean Energy Communities Program's Energy Code Enforcement Training high impact action. To receive credit for the ECET action, municipalities must sign-up for BOTH the residential and commercial portions.

Seating is limited – Register NOW for BOTH portions:

Enforcing the Energy Code: Residential Buildings

Enforcing the Energy Code: Commercial Buildings

Eligible municipalities: Those with populations under 40,000 residents. Registration limited to 3 persons per municipality. No cost for workshops.

Residential & Commercial Structures

For Code Enforcement Officials

Interactive Workshop

Troubleshoot Compliance with Mock Plans & Specs

8 hours of DOS In-Service Credit

Complete Clean Energy Communities Program Action in 1 day!

EVENT QUESTIONS?

Contact: Newport Ventures via registration pages, or Hudson Valley Regional Council at 845-564-4075.

*NOTE: Lunch is not provided. Please bring your own or plan to dine out.

CEC High Impact Action

CLIMATE SMART COMMUNITIES PROGRAM

- NYSDEC-administered program
  - 253 participating communities state-wide
  - **CSC Certification Portal**

- First Step:
  - Take the CSC **Pledge**
  - Access technical assistance & grant funding

- Next Steps:
  - Appoint CSC coordinator & task force
  - Work on CSC actions
  - Apply for CSC certification
    - **Tri-annual certification application cycle**
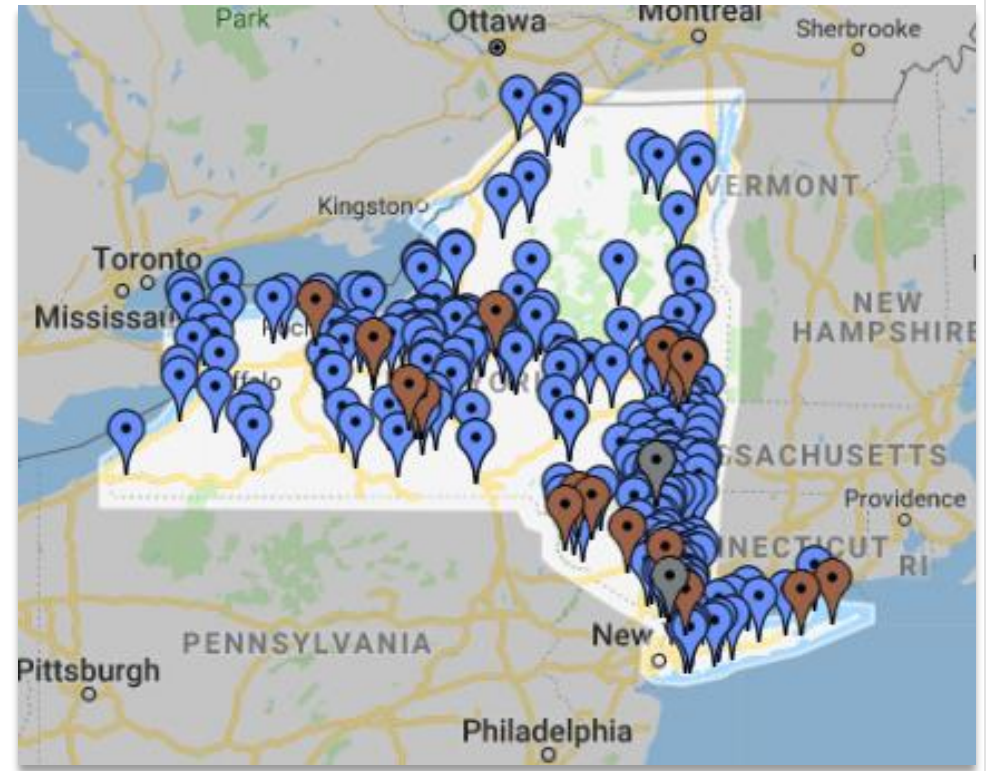
PE1: Build a climate-smart community.

PE1 Action: CSC Task Force	1.2	Create a community Climate Smart Community task force focused on climate mitigation and adaptation	20
PE1 Action: CSC Coordinator	1.3	Appoint a Climate Smart Community coordinator	10
PE1 Action: National/Regional Climate Program	1.5	Join a national or regional climate campaign or program	3

PE2: Inventory emissions, set goals, and plan for climate action.

PE2 Action: Government Operations GHG Inventory	2.1	Develop a government operations GHG emissions inventory	16
PE2 Action: Community GHG Inventory	2.2	Develop a community GHG emissions inventory	16
PE2 Action: Government Operations Climate Action Plan	2.5	Develop a government operations climate action plan	12 - 16
PE2 Action: Community Climate Action Plan	2.6	Develop a community climate action plan	16

PE3: Decrease energy use.

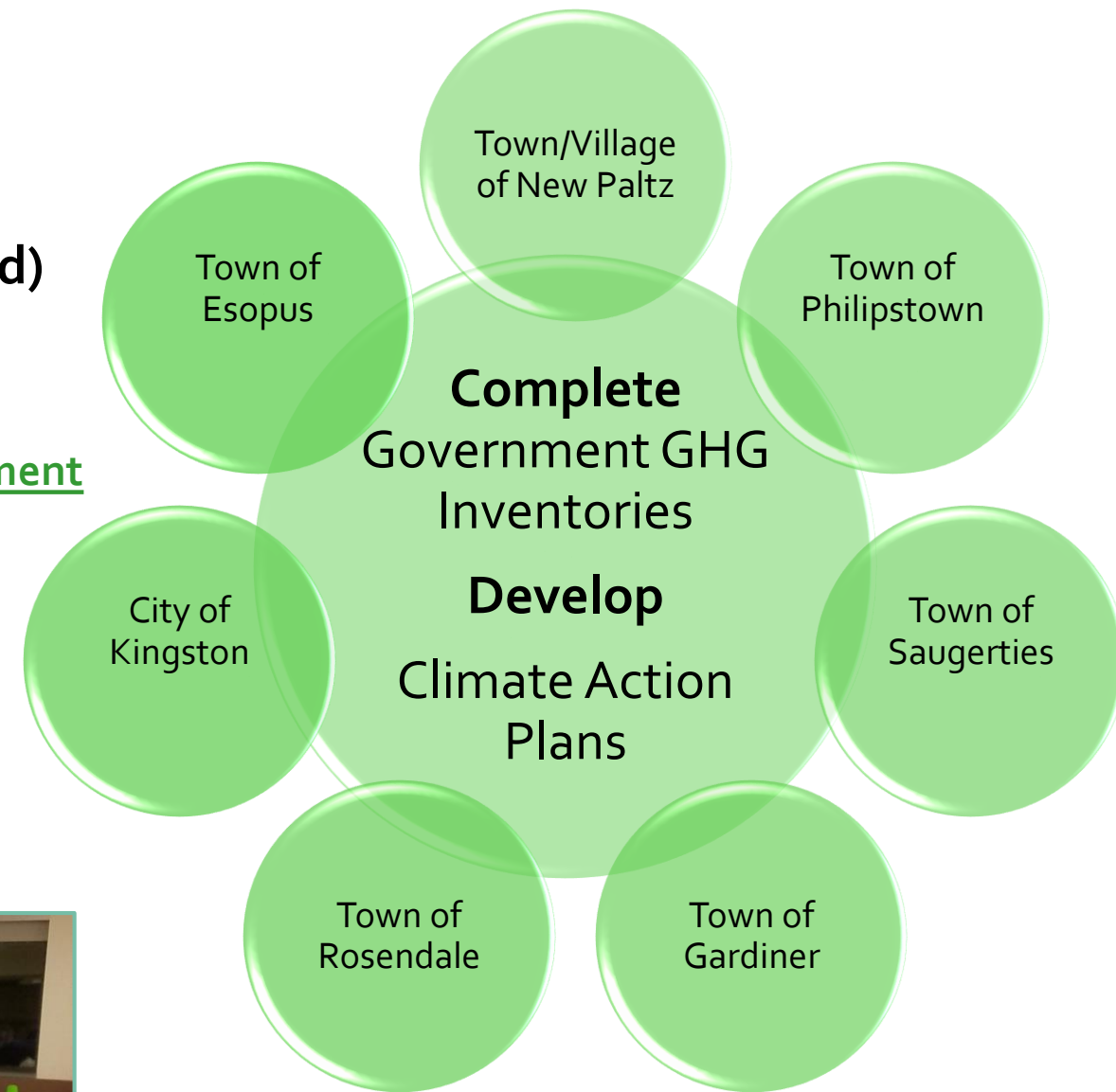|			
PE3 Action: Government Building Energy Audits	3.1	Conduct energy audits of local government buildings	8 - 16
PE3 Action: Interior Lighting Upgrades	3.2	Upgrade interior lighting	1 - 5
PE3 Action: HVAC Upgrades	3.3	Upgrade HVAC equipment	1 - 5
PE3 Action: Water-efficient Fixtures	3.4	Install water-efficient fixtures	1 - 4
PE3 Action: Building Energy Management System	3.5	Install a building energy management system (EMS)	1 - 5
PE3 Action: Energy Benchmarking for Government Buildings	3.32	Adopt an energy benchmarking requirement for government-owned buildings	2 - 4
PE3 Action: Green Building Standard for Government Buildings	3.7	Adopt a green building standard for local government buildings and facilities	2 - 4
PE3 Action: Green Building Certification	3.8	Build a new green building	15
PE3 Action: Fleet Inventory	NA	NA (This is a new action under version 3.)	4
PE3 Action: Fleet Efficiency Policy	3.10	Adopt a vehicle fleet efficiency policy	2 - 3
PE3 Action: Fleet Rightsizing	3.11	Right-size the local government fleet	1 - 3
PE3 Action: Advanced Vehicles	3.12	Replace traditional vehicles with advanced vehicles	2 - 10
PE3 Action: LED Street Lights	3.15	Convert streetlights to LED	5 - 10

PE7: Enhance community resilience to climate change.			
PE7 Action: Climate Vulnerability Assessment	7.1	Conduct a vulnerability assessment	4 - 16
PE7 Action: Climate Resilience Vision	7.2	Develop a climate resilience vision and associated goals	3
PE7 Action: Climate Smart Resiliency Planning	7.3	Review existing community plans and projects to identify climate adaptation strategies and policies or projects that may decrease vulnerability	6
PE7 Action: Climate Adaptation Strategies	7.4	Develop climate adaptation strategies	2 - 8
PE7 Action: Climate Resiliency in Local Plans & Projects	*7.5*	*Incorporate climate resiliency vision, goals, and strategies into local plans and projects*	
PE7 Action: Multi-Hazard Mitigation Plan Updates	*7.6*	*Update the multi-hazard mitigation plan to address changing conditions and identify specific strategies to reduce vulnerability to natural hazards*	
PE7 Action: Heat Emergency Plan	7.7	Develop and implement a heat emergency plan	6
PE7 Action: Shade Structures in Public Spaces	7.8	Require shade structures and features in public spaces	4
PE7 Action: Cooling Centers	*7.9*	*Open new or expand existing cooling centers*	
PE7 Action: Watershed Assessment	7.10	Create or update a watershed assessment to identify flooding and water quality priorities	2 -6
PE7 Action: Floodplain Restoration	7.12	Conserve, revegetate and reconnect floodplains and buffers in riparian areas	1 - 10
PE7 Action: Conservation of Natural Habitats	7.13	Conserve natural areas for species migration and ecosystem resilience	4 - 16
PE7 Action: Strategic Relocation Out of Flood-prone Areas	*7.14*	*Facilitate a strategic relocation of uses that are not water dependent from flood prone areas*	
PE7 Action: National Flood Insurance Program Community Rating System	7.15	Promote community flood prevention strategies through the National Flood Insurance Program Community Rating System	3 - 9
PE7 Action: Green Infrastructure for Stormwater Management	*7.16*	*Use green infrastructure to manage stormwater in developed areas*	
PE7 Action: Conservation of Wetlands & Forests	*7.17*	*Conserve wetlands and forests to manage stormwater, recharge groundwater and mitigate flooding*	
PE7 Action: Nature-based Shoreline Protection	*7.18*	*Use natural, nature-based or ecologically enhanced shoreline protection*	

CSC Actions Checklist

Climate Action Planning Institute

- **WEBINAR**
- Final group presentation slides (April 10, 2019)

Climate Smart Communities Task Forces (and beyond)

- **Esopus Environmental Board:** CSC & Stormwater Management Task Forces
- **Rosendale Commission for Conservation of the Environment**
- **Kingston Climate Smart Commission**
- **Climate Smart Saugerties**
- **Climate Smart Gardiner**
- **Climate Smart Philipstown**
- **New Paltz Climate Action Coalition**
- **Ulster County Department of the Environment**

Town/Village of New Paltz

Town of Philipstown

Town of Esopus

Complete Government GHG Inventories

Develop Climate Action Plans

Town of Saugerties

City of Kingston

Town of Rosendale

Town of Gardiner

Climate Action Planning Institute

GHG INVENTORY & CLIMATE ACTION PLAN

- Where to focus on emissions reductions?
  - Rec center energy/emissions high compared to other facilities
- Fleet emissions higher than all facilities combined
- Town uses a lot of fuel oil
  - Fuel oil emissions are more than double electricity
  - But Town pays HALF as much for fuel oil

2016 Facility GHG Emissions (tons)

Town of Philipstown
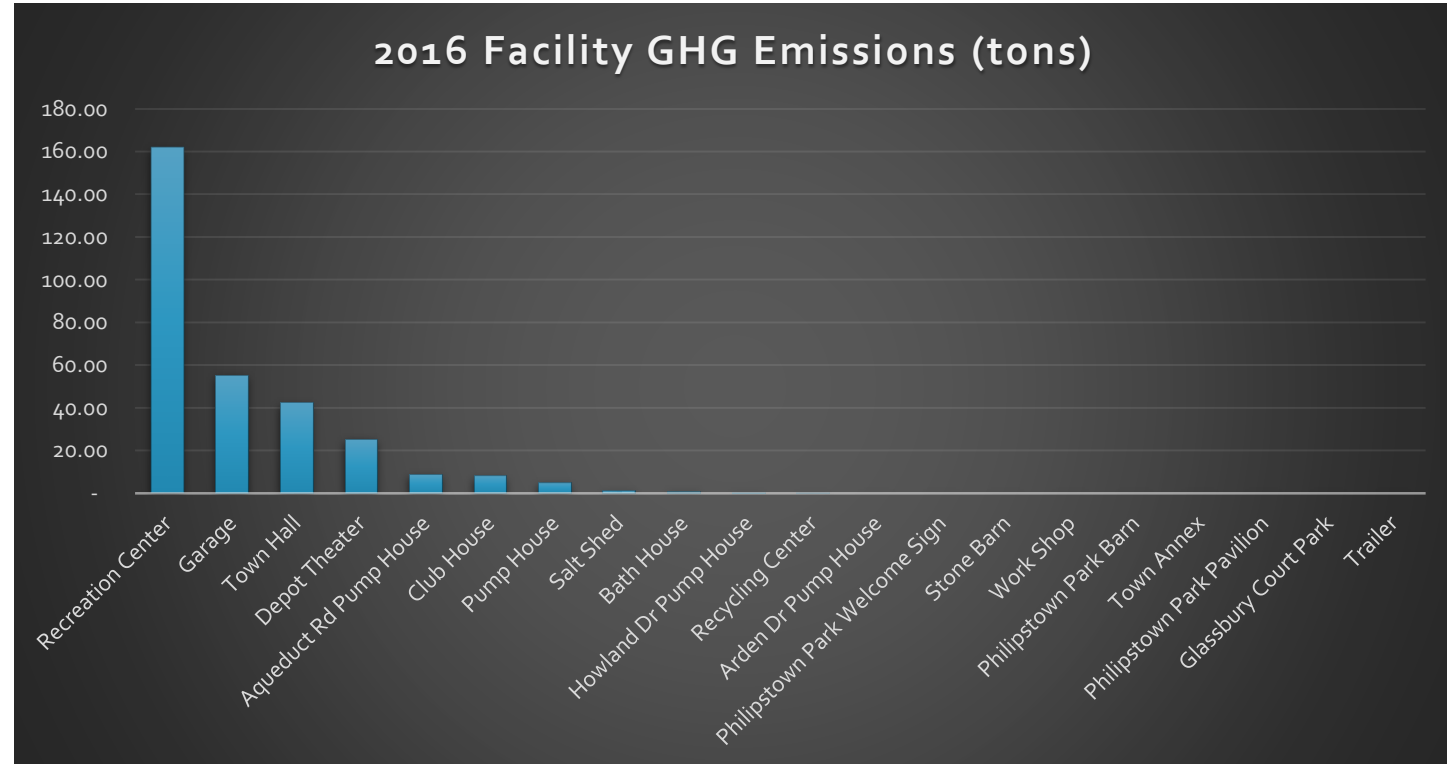
CLIMATE SMART COMMUNITIES PROGRAM

CLIMATE SMART COMMUNITIES GRANTS

NEW YORK STATE OF OPPORTUNITY | Office of Climate Change

Part of the New York State Environmental Protection Fund

The Climate Smart Communities Grant Program is a competitive 50/50 matching grant program for municipalities. It was established in 2016 under Article 54, Title 15 of Environmental Conservation Law, an excerpt of which is below. The program funds climate change adaptation and mitigation projects and includes support for projects that are part of a strategy to become a Certified Climate Smart Community. This fact sheet only provides an overview of the program; please refer to the current Request for Applications (RFA) for details on eligible project types for the current grant cycle.

Project Types

"§ 54-1523. Climate adaptation and mitigation projects.

1. The commissioner is authorized to provide on a competitive basis, within amounts appropriated, state assistance payments to a municipality toward the cost of any climate adaptation or mitigation projects. Such projects shall include:

   a. the construction of natural resiliency measures, conservation or restoration of riparian areas and tidal marsh migration areas;

   b. nature-based solutions such as wetland protections to address physical climate risk due to sea level rise, and/or storm surges and/or flooding, based on available data predicting the likelihood of future extreme weather events, including hazard risk analysis data if applicable;

   c. relocation or retrofit of facilities to address physical climate risk due to sea level rise, and/or storm surges and/or flooding based on available data predicting the likelihood of future extreme weather events, including hazard risk analysis data if applicable;

   d. flood risk reduction;

   e. greenhouse gas emission reductions outside the power sector;

   f. enabling communities to become certified under the Climate Smart Communities Program, including by developing natural resources inventories, right sizing of municipal fleets and developing climate adaptation strategies; and

   g. climate change adaptation planning and supporting studies, including but not limited to vulnerability assessment and risk analysis of municipal drinking water, wastewater, and transportation infrastructure."

Implementation Projects

Grants of up to $2,000,000 are available for implementation projects in two major categories: adaptation and non-power mitigation (i.e., projects that reduce greenhouse gases from sources not related to the generation or consumption of electricity). These project types are described above in **sections a. to e.**

Certification Projects

Grants of up to $100,000 are available for assessments and planning activities that enable local governments to become Certified Climate Smart Communities, as described above in **sections f. and g.** Applicants under this category should review the online Climate Smart Communities Certification Portal at https://climatesmart.ny.gov to learn more about the certification program.

CSC Grants

HUDSON VALLEY REGIONAL COUNCIL

- CEC Program support
  - On-demand technical assistance
  - Step-by-step guidance
  - Case studies
  - Model ordinances
  - Project development support
  - Tools and resources

- Related programs & resources
  - [Orange County Green Star Schools Program](#)
  - [NYSERDA -12 Schools Benchmarking Program](#)
    - The Pre-kindergarten through Grade 12 (P-12) Schools Initiative - Benchmarking Program is available to provide up to three years of free energy benchmarking services to eligible schools
  - [USEPA: Targeted Brownfield Assessments](#)
    - This program supplements other efforts under the Brownfields program to promote the cleanup and redevelopment of brownfields, including the reuse of sites for solar/renewable energy projects
    - Services include site assessments, cleanup options and cost estimates, and community outreach. Services are for an average of $100,000

NEW YORK STATE OF OPPORTUNITY. NYSERDA Supported

Technical Support & Resources

Hudson Valley Regional Council

Europa L. McGovern
Planner / Clean Energy Communities Coordinator
emcgovern@hudsonvalleyrc.org
845-564-4075, ext. 211

Carla C. Castillo G.
Deputy Executive Director / Clean Energy Communities Coordinator
ccastillo@hudsonvalleyrc.org
845-564-4075, ext. 210

Contact Us