

# What is a Climate Smart Community?



# Climate Smart Community

- Partnership between New York State and local governments
- Resources and services to:
  - Reduce energy use and greenhouse gas emissions
  - Save taxpayer dollars
  - Advance community goals for health and safety, economic vitality, energy independence and quality of life

The CNYRPDB serves as the Climate Smart Community Coordinator for Cayuga, Cortland, Madison, Onondaga and Oswego counties



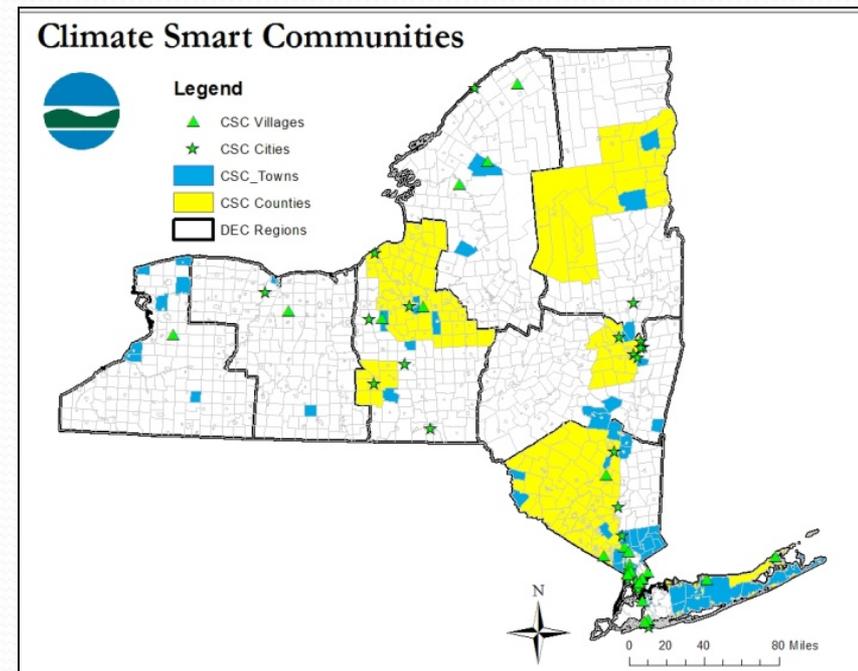
Central New York Regional Planning & Development Board

# Climate Smart Communities are leaders for energy sustainability

**123 communities throughout New York State have signed a pledge to become Climate Smart Communities**

**18 of these municipalities are located in Central New York**

Onondaga County, Syracuse (C), DeWitt (T), Skaneateles (T), Skaneateles (V), Fayetteville (V), Minoa (V), Oswego County, Oswego (C), Minetto (T), Madison County, Oneida (C), Cazenovia (T), Cazenovia (V), Eaton (T), Auburn (C), Cortland (C), Preble (T)

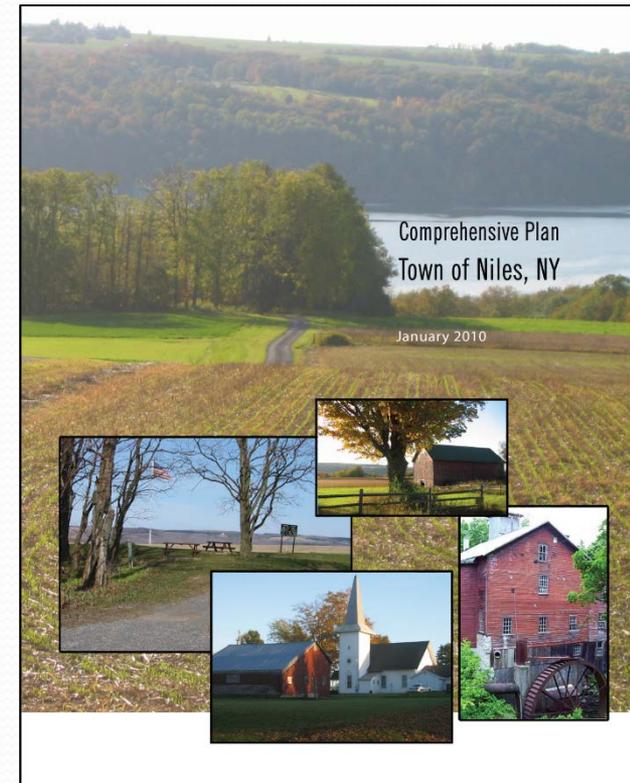




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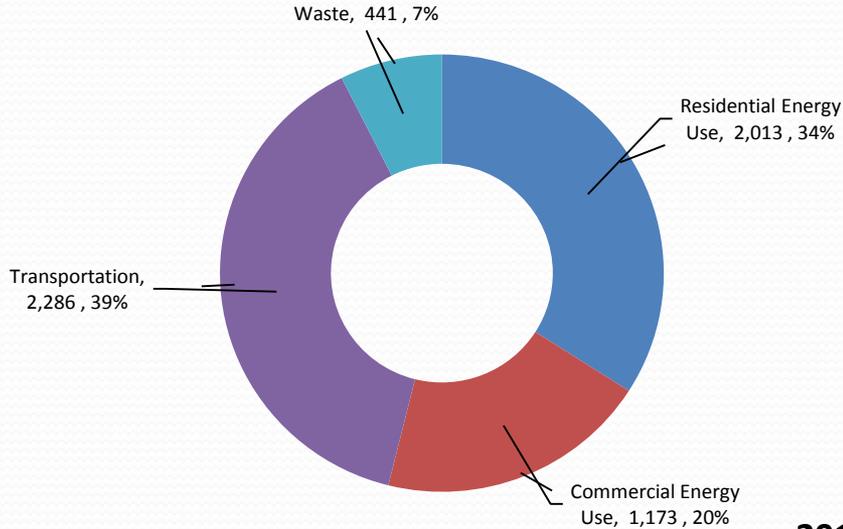
## The Central New York Regional Planning and Development Board provides resources and opportunities for Climate Smart Communities

- greenhouse gas inventories
- climate action plans
- clean energy demonstration projects
- technical guidance
- financial resources
- municipal policy development

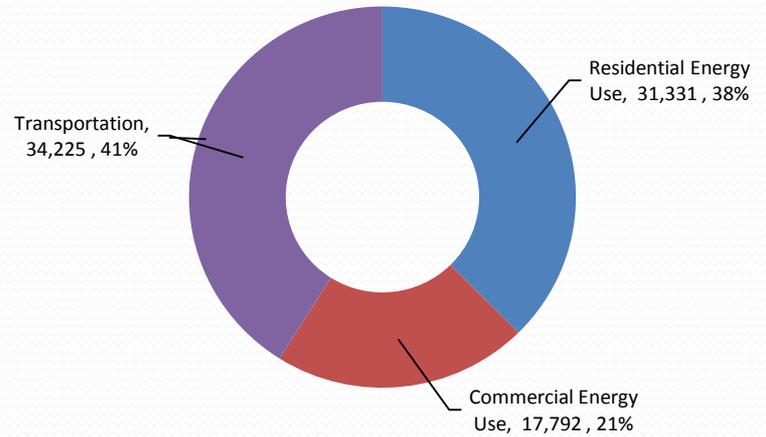


# Niles GHG Inventory

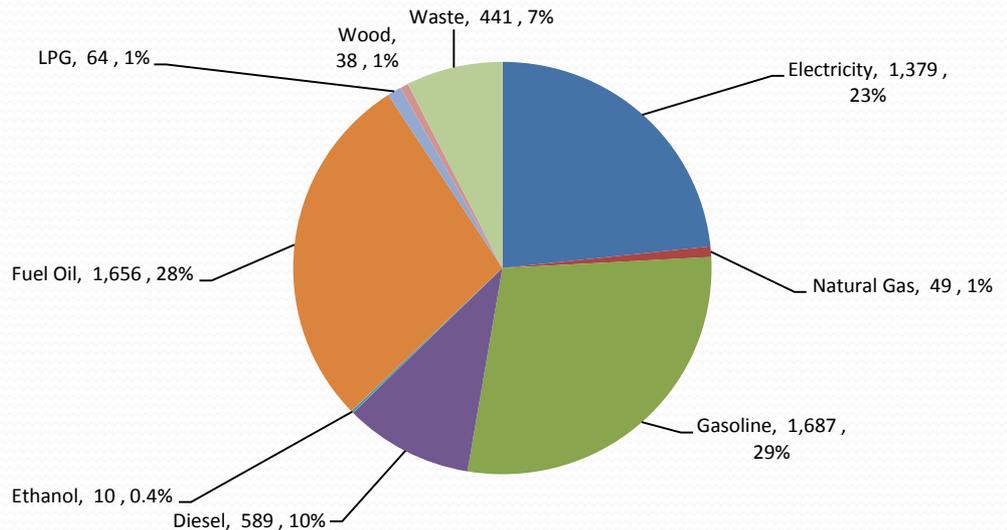
2010 Community Emissions by Sector (MTCO<sub>2</sub>e)



2010 Community Energy Use by Sector (MMBtu)



2010 Community Emissions by Source (MTCO<sub>2</sub>e)



# MTCO<sub>2</sub>e= Metric Tons of Carbon Dioxide Equivalent

**1 MTCO<sub>2</sub>e =**



CO<sub>2</sub> emissions from 112 gallons of gasoline consumed



CO<sub>2</sub> emissions from 2.3 barrels of oil consumed



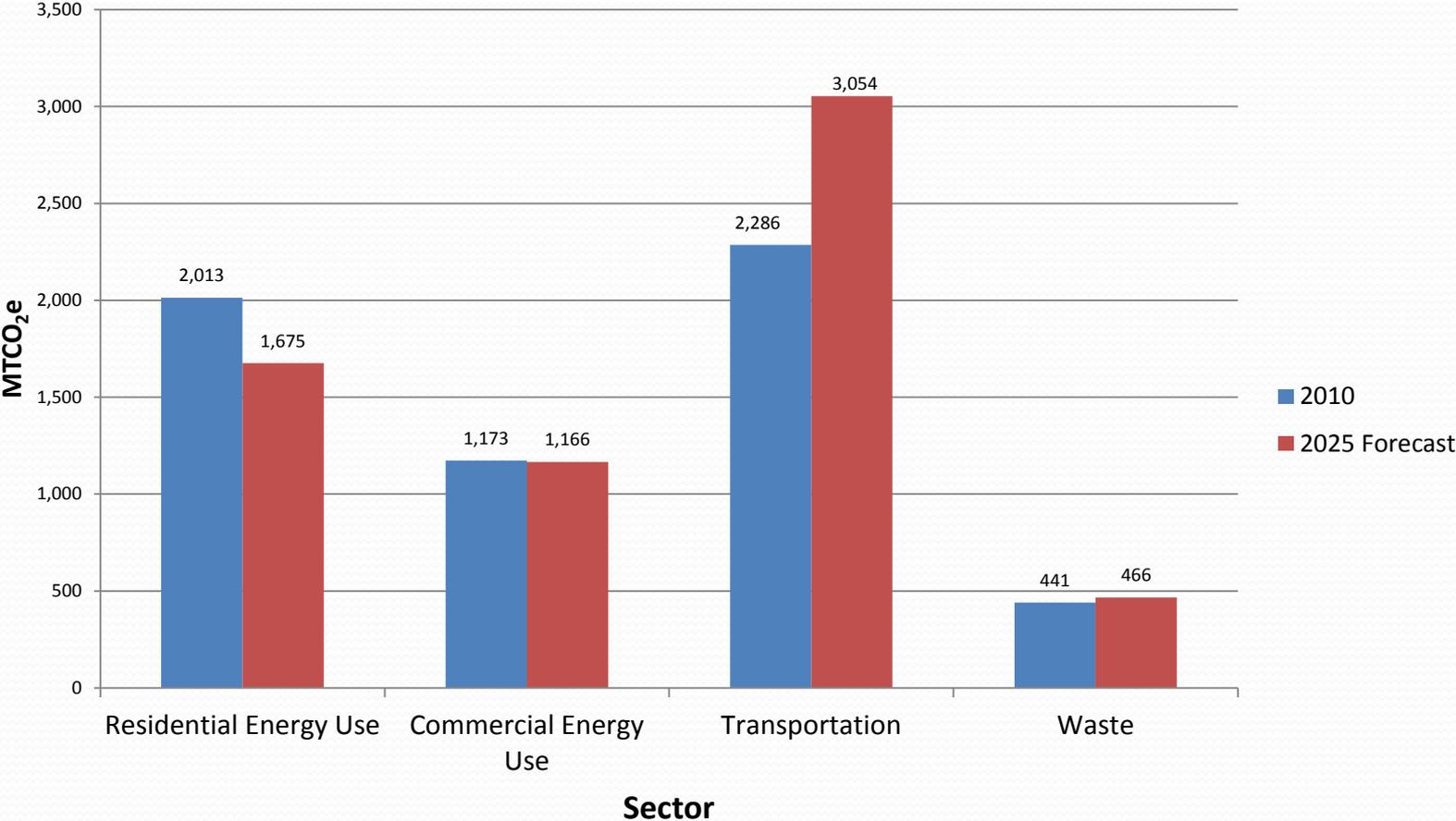
CO<sub>2</sub> emissions from 41.7 propane cylinders used for home barbeques



Carbon sequestered by almost 1 acre of U.S. forests in one year

# Niles GHG Inventory

## Community Forecast Emissions 2025



## **Additional benefits of becoming a Climate Smart Community**



- **PRIORITY FUNDING STATUS**
- **Climate updates, grants, and networking opportunities**
- **Educational webinars and documentaries**
- **Presentations and workshops that are customized for residential, commercial, municipal, and institutional groups**
- **Taxpayer dollar savings**
- **Improved municipal operations and infrastructure**
- **Increased energy independence and security**
- **Positioning for economic growth**

# **Climate Smart Communities in CNY**

## *The Village of Skaneateles*



**Ribbon cutting ceremony at the grand opening of the first municipal net-zero energy building in New York State. The Skaneateles Village Hall is designed to produce more energy than it consumes.**

# Climate Smart Communities in CNY

## *The Town of Preble*

Lighting upgrades, insulation and air sealing, window upgrades, replacement of an aging oil fired forced air furnace with high efficiency electric heat pumps, and the installation of a 9kW solar photovoltaic array

- Will save approximately \$7,400 in utility costs
- Payback of approximately 9 years
- Retrofit will eliminate the need for fossil fuel combustion
- Total carbon emissions reduction is projected to be 19.53 tons of carbon dioxide equivalent annually



# Climate Smart Communities in CNY

## *The Town of DeWitt*

Lighting upgrades, de-lamping, white roof, insulation, and the installation of a 51kW solar photovoltaic array

- Will save approximately \$16,000 in utility costs
- Payback of approximately 11 years
- Total carbon emissions reduction is projected to be 12.5 tons of carbon dioxide equivalent annually



# How can Niles become a Climate Smart Community?



Niles' governing body must adopt as a resolution all ten points of the Model Pledge and submit to NYS DEC on official letterhead.



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The Climate Smart Communities Pledge includes all the elements of a successful local climate program.

Additional pledge elements or legislative findings may also be added.

# The Climate Smart Community Pledge



1. Pledge to be a Climate Smart Community.
2. Set goals, inventory emissions, plan for climate action .
3. Decrease community energy use.
4. Increase community use of renewable energy.
5. Realize benefits of recycling and other climate-smart solid waste management practices.
6. Reduce greenhouse gas emissions through use of climate-smart land-use tools.
7. Enhance community resilience and prepare for the effects of climate change.
8. Support development of a green innovation economy.
9. Inform and inspire the public.
10. Commit to an evolving process of climate action.

# For additional information on becoming a Climate Smart Community



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