

## Municipal Clean Energy Leadership

A New Energy Vision for New York

**OCPF Annual Planning Symposium** 

March 2, 2017

**Chris Carrick** 

Energy Program Manager, Central New York Regional Planning and Development Board



#### The CNY RPDB

- Public agency established in 1966 by Cayuga, Cortland, Madison, Onondaga, and Oswego Counties
- Provides a range of services to Central New York communities with a focus on:
  - Community Development (Comprehensive Planning)
  - Economic Development
  - Environmental Management
  - Information and Research Services
  - Transportation Planning
  - Energy Management





# **New York's Energy Policy**

- Under Governor Cuomo, the State is restructuring its energy regulatory environment and clean energy programs through a strategy called Reforming the Energy Vision, or REV.
- The Clean Energy Fund, or CEF, is a 10-year, \$5 billion funding commitment to support the development of clean energy markets and innovation.
- The Clean Energy Standard, or CES, is a state mandate for 50% of New York's electricity consumption to come from renewable energy sources by 2030.



#### **New York's Local Governments**





# **Clean Energy Communities Program**

An inter-agency effort to drive clean energy action and energy literacy in local governments and communities across the state.

- Administered by a dedicated NYSERDA staff team working in close collaboration with the Governor's Office, the New York Power Authority (NYPA), the Department of Public Service (DPS) and the Department of Environmental Conservation (DEC).
- The CEC program will streamline municipal and community access to state energy programs, resources, and tools.
- The CEC program will design and provide clean energy resources that resonate with local leaders based on i) the impact certain actions have on economic development, GHG emissions reductions, and energy cost savings, and ii) locally identified priorities and needs.



#### **Clean Energy Communities Program**

An open enrollment program that provides **rewards and recognition** to local governments that demonstrate clean energy leadership

- **STEP 1: BECOME A CLEAN ENERGY COMMUNITY** by completing four out of ten high-impact actions designed to save money, foster a vibrant economy, and improve the environment. At least two actions must be completed after August 1, 2016.
- **STEP 2: ACCESS GRANT FUNDING** of up to \$250K with no local cost share to support additional clean energy projects.

**Dedicated local coordinators** are available to assist communities as they implement high-impact actions including free on-demand technical support, step-by-step guidance, case studies, model ordinances, RFPs, etc.

#### Clean Energy Communities Grants Available

Municipality size by Population	Tier 1 Awards		Tier 2 Awards		
Large (40,000+)	2	\$250,000	2	\$150,000	
Small/Medium (0-39,999)	4	\$100,000	10	\$50,000	

- Must submit documents to demonstrate completion of 4 of 10 High Impact Action items and be designated a Clean Energy Community
- Grants awarded on a first come, first served basis
- Must submit online grant application within 3 months of becoming a Clean Energy Community



#### **CEC Grant Selection Criteria**

Proposed project must earn a minimum of 50% of the selection criteria points:

- Reasonable timeframe for project proposed (25 points)
- Positive direct impact on energy use/GHG emissions (15 points)
- Other sustainability benefits (15 points)
- Efforts made to collaborate with other municipalities and transfer knowledge (15 points)
- Innovative and/or replicable approach (15 points)
- Leverage public/private dollars and/or generate economic development benefits (15 points)

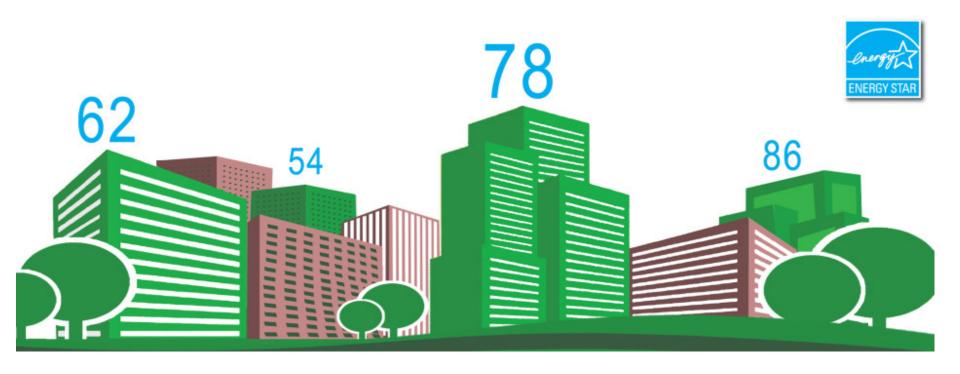


# **10 High-Impact Actions**

- 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. PACE Financing









## **EPA Portfolio Manager**





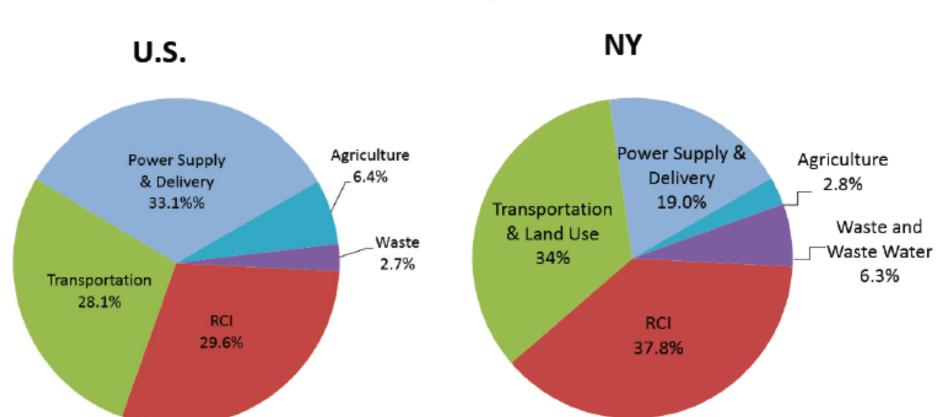
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#### 2014 GHG Emissions by Sector: NY and US



# **Energy Saving Upgrades – Preble**













NEW YORK STATE OF OPPORTUNITY.

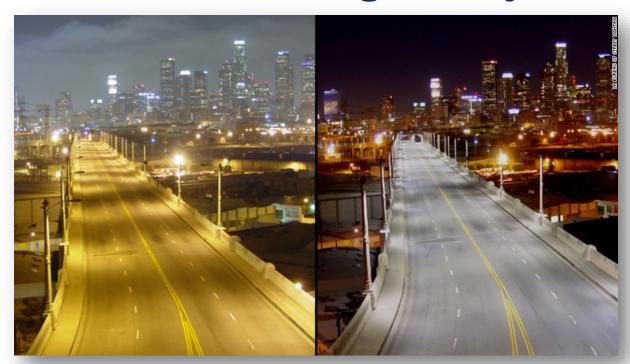
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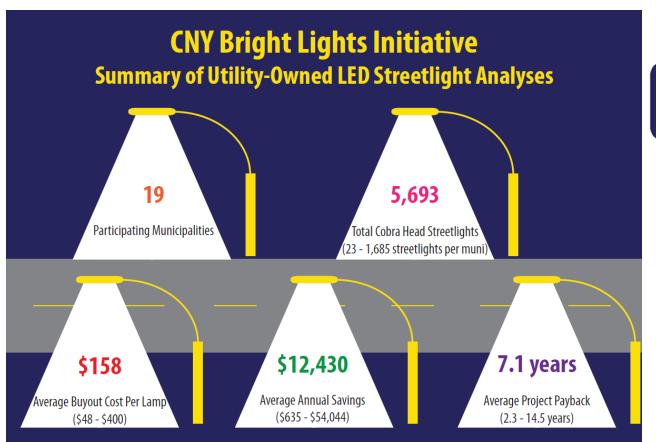




# City of Los Angeles, before and after LED Street Light Project











# Village of Minoa LED Street Light Project









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#### **Examples of Electric Vehicles**



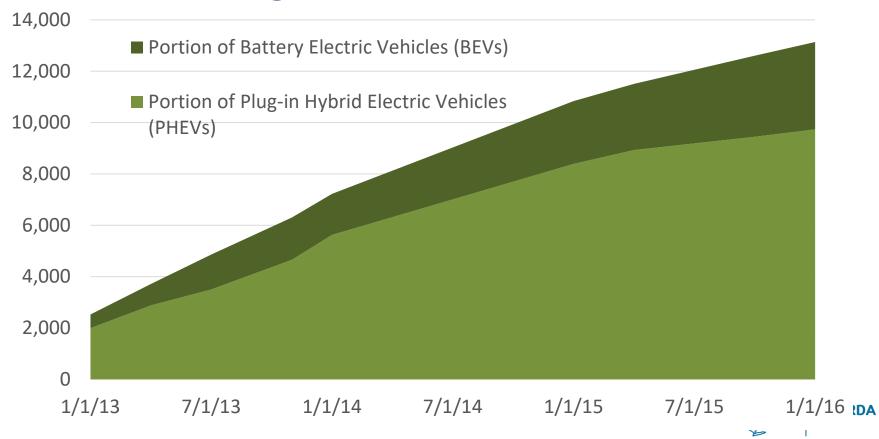
**Chevy Bolt Battery Electric Vehicle** 



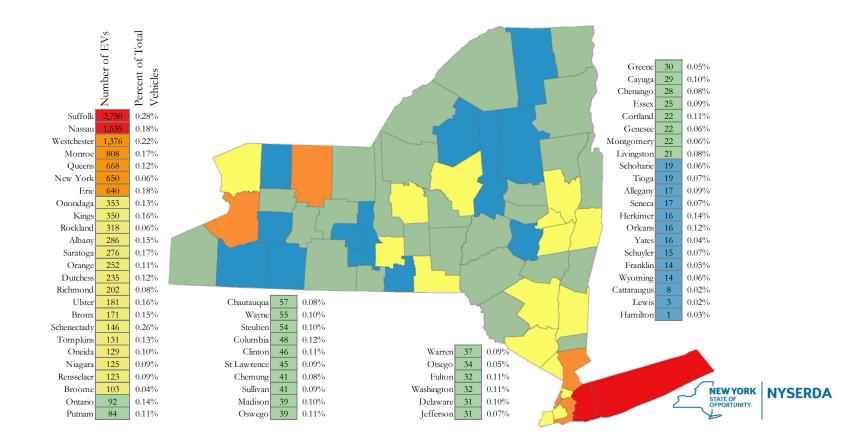
**Chevy Volt Plug-in Hybrid Electric Vehicle** 

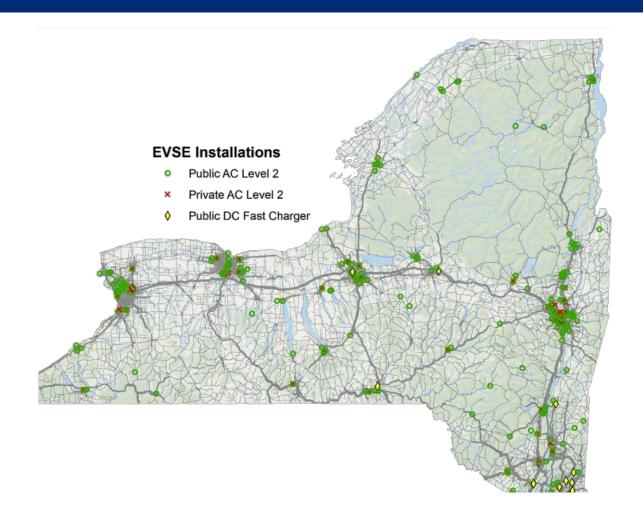


#### **Total Registered EVs in New York State**



#### **BEVs and PHEVs by County**







#### **Charging Stations in Central New York**



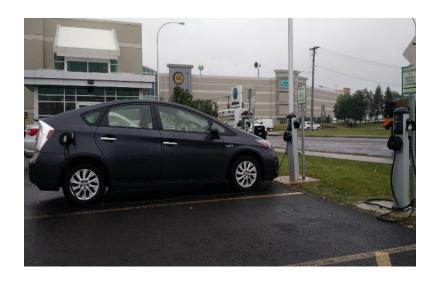
**Onondaga Lake Park, Liverpool NY** 



**Skaneateles Village Hall** 



#### **Charging Stations in Central New York**



**Destiny USA, Syracuse** 



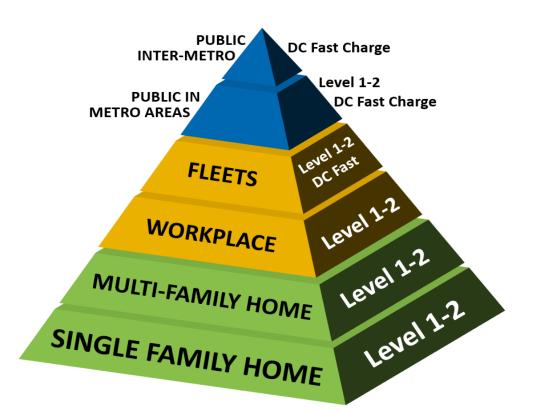
Chili's, Liverpool and Dewitt













**Level 2 Charging Station** 



## **EV Charging Station Installation**







Village of Fayetteville
Mill Street Municipal Parking Lot



**Township 5 Shopping Center in Camillus** 



**Dewitt Town Hall** 



**Syracuse Center of Excellence** 



**Great Northern Mall in Clay** 



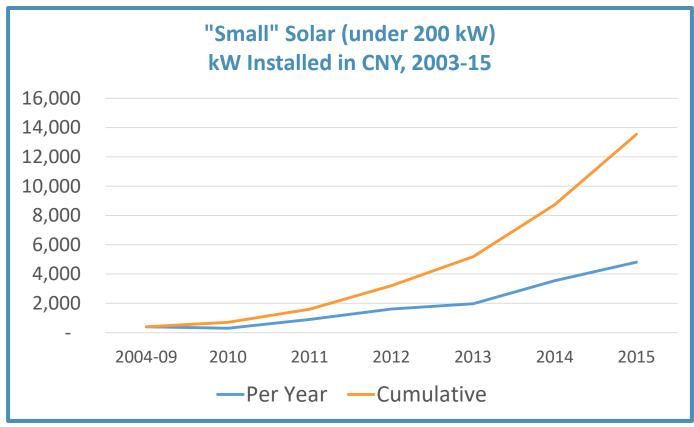
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#### **Central New York Installed Solar**





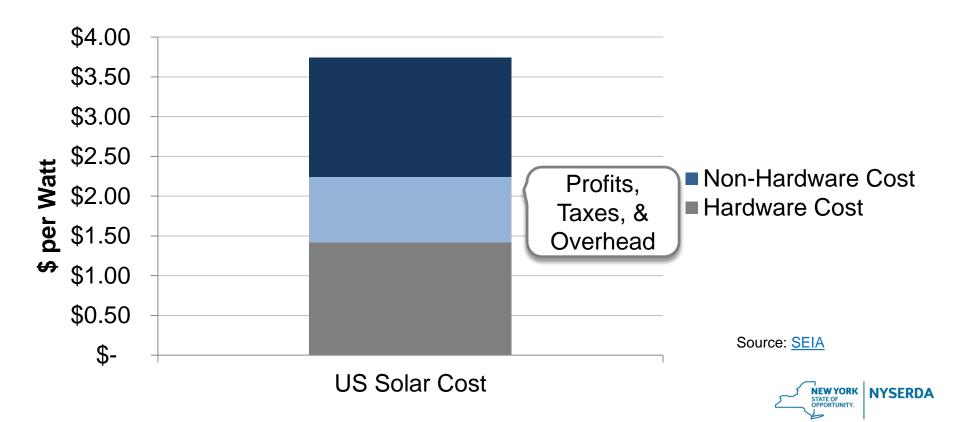
Source: Open NY database

#### **GROWTH OF NEW YORK SOLAR POWER**

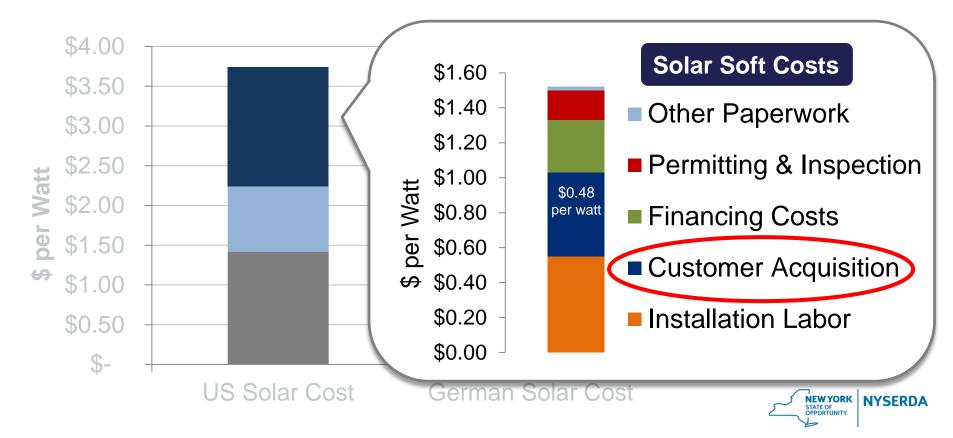
Region	Total Installed Through 2011		Total Installed Through 2016		Percent Increase in	Percent Increase
	Megawatts Installed	Projects Installed	Megawatts Installed	Projects Installed	Megawatts Installed	in Projects Installed
Capital Region	8.5	899	113.26	8,365	1,043 percent	744 percent
Central New York	1.6	178	23.56	1,731	1,246 percent	836 percent
Finger Lakes	2.1	249	37.38	1,870	1,487 percent	603 percent
Long Island	37.8	4,938	214.23	24,428	460 percent	414 percent
Mid-Hudson	12.1	1,305	162.74	14,125	1,164 percent	944 percent
Mohawk Valley	1.2	140	26.95	1,790	1,597 percent	1,005 percent
New York City	6.4	361	88.42	7,348	1,102 percent	1,719 percent
North Country	1.1	177	13.98	1,063	827 percent	432 percent
Southern Tier	2.1	390	29.23	2,113	1,182 percent	426 percent
Western New York	5	352	33.88	2,093	554 percent	481 percent
Total	77.9	8,989	743.65	64,926	795 percent	615 percent



# **US Solar Costs**



# **US Solar Costs**



## **SolarizeCNY**

- Grassroots, community based effort
- Throughout the five county Central New York region
- A growing movement
  - Reduce our use of non-renewable energy sources
  - Shift our region to clean, sustainable energy sources
  - Dramatically increase the adoption of solar energy







# **How SolarizeCNY Helps**

High upfront cost



Volume discount

Complexity



Installer selection, community outreach

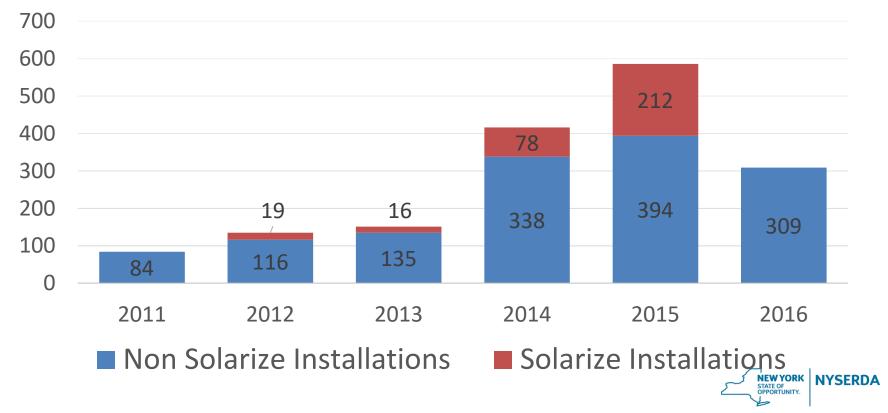
Customer inertia



Limited-time offer



# The Impact



### **Cumulative Impact in Central New York**

**Customer Savings** 



\$1.5 million

**Economic Impact** 



\$13 million

**Jobs Created** 



80

**Market Impact** 



1/3 of region's residential PV

**Carbon Reduced** 



2,400 metric tons









#### SolarizeCNY - Go Green in 2017

















# **Ways You Can Participate**

Sponsor

Go Solar

Volunteer









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#### **NYS Unified Solar Permit**

For simple small-scale installations

Developed by CUNY, NYSERDA, NYPA

Based on industry standards

Municipally-defined review timeline

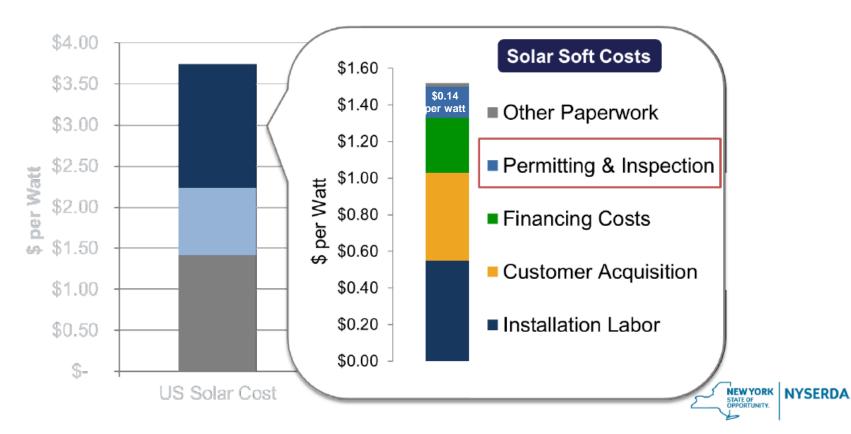
Municipally-defined permit fee

NYSERDA incentive of \$2,500 - \$5,000 for permit adoption





### **Permitting Costs**



# NYS Unified Solar Permit Central NY Adoptees

- 1) Aurelius Town
- 2) Aurora Village
- 3) Baldwinsville Village
- 4) Brutus Town
- 5) Canastota Village
- 6) Cato Village
- 7) Cazenovia Town
- 8) DeRuyter Town
- 9) DeWitt Town
- 10) East Syracuse Village
- 11) Fabius Town
- 12) Fair Haven Village
- 13) Fayetteville Village
- 14) Fenner Town
- 15) Genoa Town
- 16) Georgetown Town
- 17) Granby Town
- 18) Hamilton Town
- 19) Ira Town
- 20) Lacona Village

- 21) LaFayette Town
- 22) Lebanon Town
- 23) Lenox Town
- 24) Lincoln Town
- 25) Liverpool Village
- 26) Manlius Village
- 27) Marcellus Town
- 28) Marcellus Village
- 29) Mentz Town
- 30) Minetto Town
- 31) Minoa Village
- 32) Montezuma Town
- 33) Morrisville Village
- 34) Nelson Town
- 35) Oneida City
- 36) Orwell Town
- 37) Oswego City
- 38) Owasco Town
- 39) Parish Town
- 40) Parish Village

- 41) Pompey Town
- 42) Port Byron Village
- 43) Pulaski Village
- 44) Redfield Town
- 45) Richland Town
- 46) Sandy Creek Town
- 47) Sandy Creek Village
- 48) Scipio Town
- 49) Sennett Town
- 50) Skaneateles Town
- 51) Tully Village
- 52) Union Springs Village
- 53) Victory Town
- 54) Volney Town
- 55) Weedsport Village
- 56) Williamstown Town



#### **Tools and Resources**

#### **PV Trainers Network**

The PV Trainers Network provides a number of on-site training courses and one-on-one technical assistance to communities. <a href="https://training.ny-sun.ny.gov/">https://training.ny-sun.ny.gov/</a>

#### NYSERDA's Solar Guidebook for Local Governments

The guidebook includes a wealth of resources for becoming a solar-friendly community including the New York State Unified Solar Permit Application and Field Inspection Checklist. It includes topics such as rooftop solar access requirements for firefighters and first responders, information on the Real Property Tax Law 487 exempting solar PV systems, a fact sheet for Agricultural Districts, a fact sheet for landowners considering solar leases, Information on land use planning and a model solar energy law.



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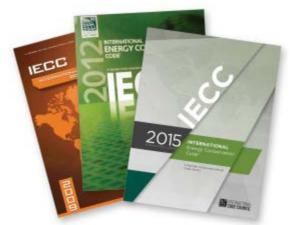


#### **Building Energy Codes**







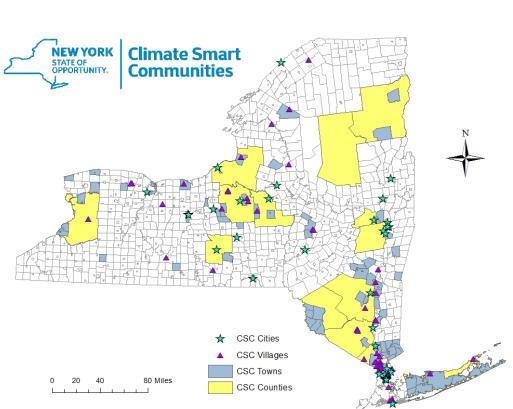


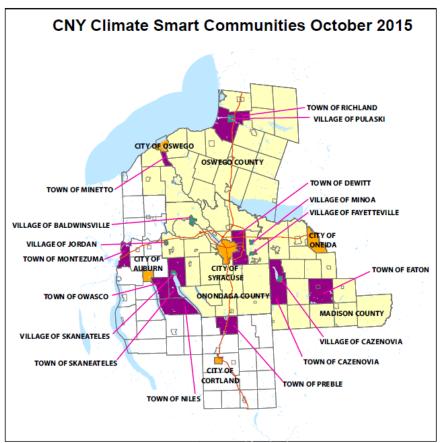


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Counties







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Contact



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# **PACE Advantages Over Conventional Loan**

- No Money Down
- Longer (20-year) term



- Repayment transfers with ownership
- Low interest rates
- Interest is tax deductible
- Lower transaction costs



# Cortland Standard

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#### Cortland Property Owners Could Finance Energy Upgrades Through State Program

Thursday, November 20, 2014



The City of Cortland is considering joining a state funded program that would help private property owners with low cost financing to make energy efficiency upgrades and install renewable energy systems.

The city is looking to become a member of the Energy Improvement Corporation. The EIC is a subdivision of the state Environmental Facility Corporation.

The agency is offering an Energize NY Finance program, Cortland Administrator Mack Cook says by joining the group private property owners can obtain financing to install new energy efficient lighting, insulation, HVAC systems, smart controls, fuel conversion, windows, and doors. The program

also offers financing to install solar, thermal, and wind energy systems.

The state has over \$70 million dollars to finance these improvements. Property owners that tap into the financing repay the loan through their property taxes, it is not a mortgage or a lien. If the property sells the financing transfers to the new property owner. Interest rates on the loan are between 3.75% and 6.75% with 5 to 20 year terms.

Cook says this program comes at no cost to the city and will help spur investment in local properties which can eventually lead to increase property assessments and higher revenue for the city.





- Other Paperwork
- Permitting and Inspection
- Financing
- Customer Acquisition
- Installation Labor



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# **Municipal Leadership**



DeWitt Town Hall 50 kW



Onondaga County
Metro Water Board Reservoir
2,000 kW



Schenectady County
Recycling and Composting Center
600 kW



## **Next Steps**

- Visit <a href="https://www.nyserda.ny.gov/cec">https://www.nyserda.ny.gov/cec</a> for more information
- Reach out to CNY RPDB for assistance in pursuing action items
- Submit documentation for action items already complete at <a href="https://www.nyserda.ny.gov/All-Programs/Programs/Clean-Energy-Communities/Submit-Action-Items-Documentation">https://www.nyserda.ny.gov/All-Programs/Programs/Clean-Energy-Communities/Submit-Action-Items-Documentation</a>



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www.cnyrpdb.org www.cnyenergychallenge.org www.solarizecny.org



