

Climate Smart Communities Webinar

Telephone call-in number

- 1-866-394-2346
- Code: 1982360347#
- No audio signal will be transmitted over the Internet



Welcome

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Office of Climate Change

New York State

Department of Environmental Conservation



Climate Smart Communities Webinar

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Climate Smart Communities Webinar

Website Address



<http://www.dec.ny.gov/energy/50845.html>

Climate Smart Community Webinars

- November 20, 11:00 a.m. *Collaborative Green Power Procurement and NYSERDA PON 2672*, and Follow-up Meeting with Optony V.P. Ben Foster, 1:30 p.m.
- December 11, 10:30 a.m. *The New York State Land-use Toolkit & Streamlining Municipal Electric Vehicle Permitting*

Coming Events

- January 24, 2014-Climate Change: Adaptation & Building Resiliency in Our Communities, Schenectady. <http://muse.union.edu/climatechange/>
- May 19-21, 2014-Local Solutions: Northeast Climate Change Preparedness Conference. Keene, NH. <http://www.antiochne.edu/innovation/climate-change-preparedness/>

CLEANER GREENER COMMUNITIES



Cleaner, Greener Communities Grants Streamlined PV and EVSE Permitting

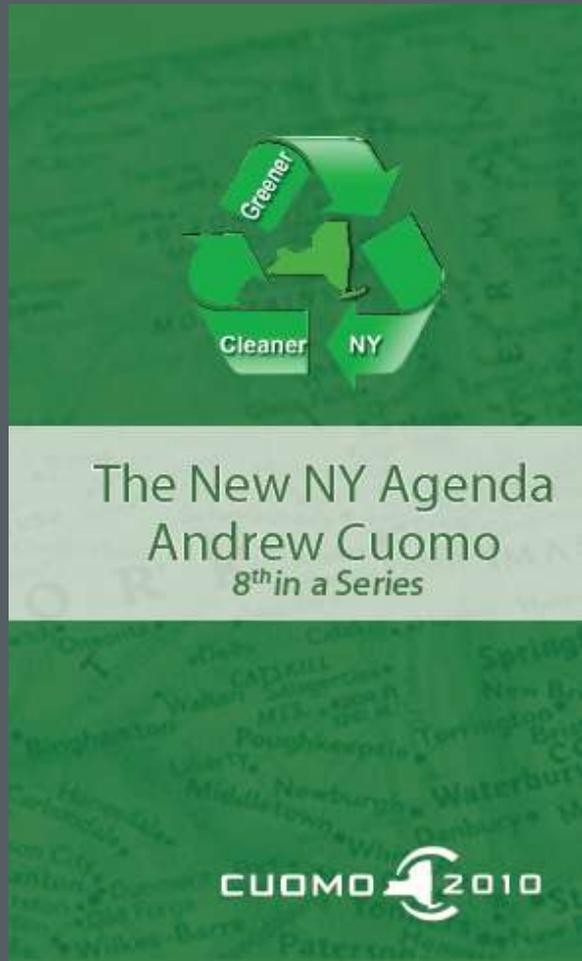
Jennifer Manierre
Associate Project Manager
NYSERDA



CGC@nyserda.ny.gov



Cleaner Greener NY Agenda



“Key elements of this plan include an emphasis on **urban revitalization**, development and expansion of the **Climate Smart Communities** program, a focus on “**green**” instead of “gray” **infrastructure**, a coordinated environmental approach with input from **environmental justice** communities and improved **public transportation** infrastructure”



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CGC Phase I – Planning

- Provided resources for all NYS regions to develop comprehensive sustainability plans
- One ~\$1 million grant per REDC Region (10)



CGC Phase II – Implementation

- Fund projects supporting plans developed in Phase I
- \$90 million over three years (2013 - 2015)
 - \$30million released through NYSERDA 's PON2721 (2013)
 - \$29 million competitive (closed 8/12/13)
 - \$1million open enrollment (open through 9/30/14)



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Goals of CGC

- Incentivize sustainable communities
- Economic revitalization (green jobs)
- Energy efficiency and renewable energy
- Environmental justice
- Efficient and clean public and private transportation
- Protect & preserve natural resources



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Streamlined PV and EVSE permitting

(PON2721, Category 1 Incentives)

Up to \$1 million available in total, up to \$10,000 per applicant

Applications will be accepted until 4:00 PM Eastern Time on September 30, 2014, until funds are exhausted, or until the solicitation is revised by NYSERDA, whichever comes first.

Streamlined PV and EVSE permitting

(PON2721, Category 1 Incentives)

Incentives to organizations with permitting authority that demonstrate that they have adopted :

1. Streamlined permitting process for installing PV systems

AND/OR

2. Streamlined permitting process for installing Electric Vehicle Supply Equipment (EVSE)
AND
Zoning or parking ordinances that specifically accommodate EVSE.



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Streamlined PV and EVSE permitting

(PON2721, Category 1 Incentives)

	PV Streamlining	EV streamlining
Population up to 30,000	\$2,500	\$2,500
Population over 30,000	\$5,000	\$5,000

Streamlined PV and EVSE permitting

(PON2721, Category 1 Incentives)

More information can be found on NYSERDA's website at the following location:

<http://www.nyserderda.ny.gov/Statewide-Initiatives/Cleaner-Greener-Communities/Implementing-Smart-Development-Projects/Guidance-Documents.aspx>

NYSERDA's Implementation Contractor, Ecology & Environment, will be processing these applications. Please reach out to Liz Santacrose with questions at esantacrose@ene.com



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New York State Energy Research and Development Authority

Climate Smart Communities Solar Webinar

NY-Sun NYSERDA PV Programs

November 14, 2013

Frank Mace

Senior Project Manager

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NY-Sun Standard Offer

NY-Sun PON 2112

- The Program is an open enrollment non competitive solicitation, offered through a network of independent NYSERDA eligible Contractors

You can find an eligible PV contractor at

<http://www.nyserda.ny.gov/Contractors/Find-a-Contractor/Photovoltaic-Installers.aspx>

NY-Sun Standard Offer

PON 2112 Guidelines

The standard offer PV Program has a two tier Incentive structure

Currently \$1.15/Watt up to 50kW, then \$0.75/Watt for the remaining wattage up to 200KW.

Residential incentives are capped at 25kW

Commercial incentives are capped at 200kW

Farms with residential meter classification can receive the commercial incentive, and can keep the residential classification up to 100kW

(NYSERDA's incentive is subject to change without advanced notice based upon program demand)

NY-Sun Standard Offer

Eligible Projects Include

- Residential
- Commercial
- Not-for Profit
- Schools
- Fire Districts
- Government

NY-Sun Standard Offer

Financial considerations

- Cost to install
- NYSERDA Incentives
- Federal and State Income Tax Credits
- Commercial Deprecation Allowances
- Local Tax Exemptions and Abatement Programs
- Financing
- Own vs. Lease/ Power Purchase Agreement (PPA)

NY-Sun Standard Offer

What does it cost ?

- The cost of Photovoltaic (PV) systems is dropping while at the same time the cost of energy continues to rise.
- Currently PV costs about \$4.50 / Watt DC on average.

NY-Sun Standard Offer

Income Tax Credits

- Federal ITC, 30% of the system cost (through 2016)
- NY State ITC 25% of the system cost up to \$5000 for your primary residence which may include any lease payments.
- Always verify projected tax credits with a qualified accountant or tax professional before signing any contract.

NY-Sun Standard Offer

Commercial Depreciation Allowances

- Accelerated Depreciation, through the end of 2013 commercial systems can depreciate 50% of the total cost in the first year, then 10% per year thereafter
- Starting in 2014 the accelerated allowance goes away, and there is a standard 20% per year , five year depreciation allowance
- Residential leased systems held in a commercial portfolio are considered as commercial holdings for depreciation.

NY-Sun Standard Offer

Local Tax Exemptions and Abatement Programs

- NYS Office of Taxation and Finance Form RP 487 when filled with your local tax assessor prevents the reassessment of the property based upon the addition of a PV system for 15 years. Local cities, towns and school districts can opt out but they must declare that and are listed on the Taxation and Finance Website.

http://www.tax.ny.gov/pdf/current_forms/orpts/rp487_fill_in.pdf

- NYC has a real property Tax abatement program, where the property tax bill is reduced when the owner installs PV on there building.
- PV systems are exempt from State sales tax, and may be exempt from local sales tax, depending on the municipality.

NY-Sun Standard Offer

Financing Options

- Pay Cash or private financing
- NYSERDA will soon have Green Jobs Green New York Financing. Which was expanded to include renewable systems.
- Power Purchase Agreement or Lease
- NYSERDA will be launching the new Green Bank

NY-Sun Standard Offer

NYSERDA Contractors

The program uses a network of eligible contractors to provide and install the PV Systems.

The incentives are paid directly to the contractor, who is required to pass them on to the utility customer.

In order to be eligible, the contractor must demonstrate a minimum level of knowledge and competence in the field, sign a participation agreement with NYSERDA, have insurance on file, and remain in good standing with the program rules.

NY-Sun Standard Offer

Own vs. Lease or Power Purchase Agreement (PPA)

- When you “Own”, you pay for the “net” cost after the NYSERDA Incentives ($\$4.50/W - \$1.15/W = \$3.35/W$)
- You get to claim the 30% Federal and 25% State tax credits (up to \$5000 for residential) ($\$3.35 - (\$1.00 + \$0.84) = \$1.51/W$)
- Commercial projects can receive depreciation allowances.
- You may be eligible for GJGNY financing up to \$25,000
- You get a 5 year warrantee, (some installers and manufacturers now have a 10 year warrantee)
- You own it and can sell it as part of your home.
- Your system is expected to last 20 + years

NY-Sun Standard Offer

Own vs. Lease/ Power Purchase Agreement (PPA)

- When you lease or have a PPA , you pay little or no money down. The 3rd party owner gets the NYSERDA incentive.
- The 3rd party owner can claim the 30% Federal ITC and any depreciation allowances.
- You can claim the 25% State tax credits on residential lease payments up to \$5000
- You get a production guarantee (the kWh's that will be produced) for the term of the agreement typically up to 20 years , there may be restrictions for canceling before the full term.
- You pay monthly based upon the system production.

NY-Sun Standard Offer

Own vs. Lease/ Power Purchase Agreement (PPA)

- There are advantages and disadvantages to both, and you as the consumer can choose the option that is best for your individual circumstances.
- Can you take advantage of the tax credits?
- Can you pay for the system or get financing?

NY-Sun Competitive Bid

Large Systems PON Competitive Bid

- PON 2860, (formerly PON 2589)
- Cash incentives for the installation of new grid-connected Solar Electric Photovoltaic (PV) systems for implementation projects chosen through competition based on low bid price (Minimum = 200 kW)
- Incentives are paid based on actual measured performance over a 3-year run period, plus some upfront cash-flow
- Bonus payments (not to exceed \$3 million cap) for systems installed within “Strategic Locations”



NY-Sun Workforce Development

PON 2673

- To provide training to practitioners working in in the renewable energy field, both classroom and on-line.

NY-Sun Balance of Systems

Balance of System (BOS) cost PON 2672

- As part of the NY-Sun initiative NYSERDA and the New York Power Authority (NYPA) seek proposals to identify and address Photovoltaic (PV) Balance-of-System (BOS) issues that will result in cost savings associated with purchasing, installing, owning, and operating a PV system in New York.
- BOS includes everything involved in a PV system except for the PV module. BOS cost reduction should be considered in a holistic manner to ensure that cost reductions in one area don't cause unintended cost increases in another area that negate the overall savings. Projects should focus on reducing life cycle costs and lowering the cost of energy

NY-Sun Balance of Systems

RFP 2697 \$3.5M

- Training and Education Program for decision makers and authorities having jurisdiction.
- Target audiences include code enforcement officials, building and electrical third party inspectors, fire fighters and first responders, public safety officials, building departments, municipal engineers, public officials.

NY-Sun , What's next?

PSC Petition items and possible changes

- Restructuring of the standard offer program to a MW Block structure
- Restructuring the competitive bid program to a standard offer.
- State wide co-operation of PV programs

NY-Sun Standard Offer

The Standard Offer Program PON 2112

- For more information on the program , you can visit

<http://www.nyserda.ny.gov/Renewables>

Frank Mace

Senior Project Manager

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