

# NY Solar Summit

## New York's Solar Tools

### SNEAK PREVIEW, NY SOLAR MAP



Christine Stearn, June 10, 2015

NY SOLAR MAP



- Information
- Forecasts /  
Projections
- Visualizations

# HISTORY

## NEW YORK CITY SOLAR MAP



## NY SOLAR MAP



NY-Sun



NY  SOLAR MAP

Will solar work  
here?







**CALCULATOR**

Learn your solar  
potential and  
savings

## Street View

Enter your address

3 Solar Way Albany NY 12207

or jump to

Which best describes you?

- ☒ Residential
 ☐ Commercial  
☐ Installer
 ☐ Municipal / Non-profit

GO



Calculator



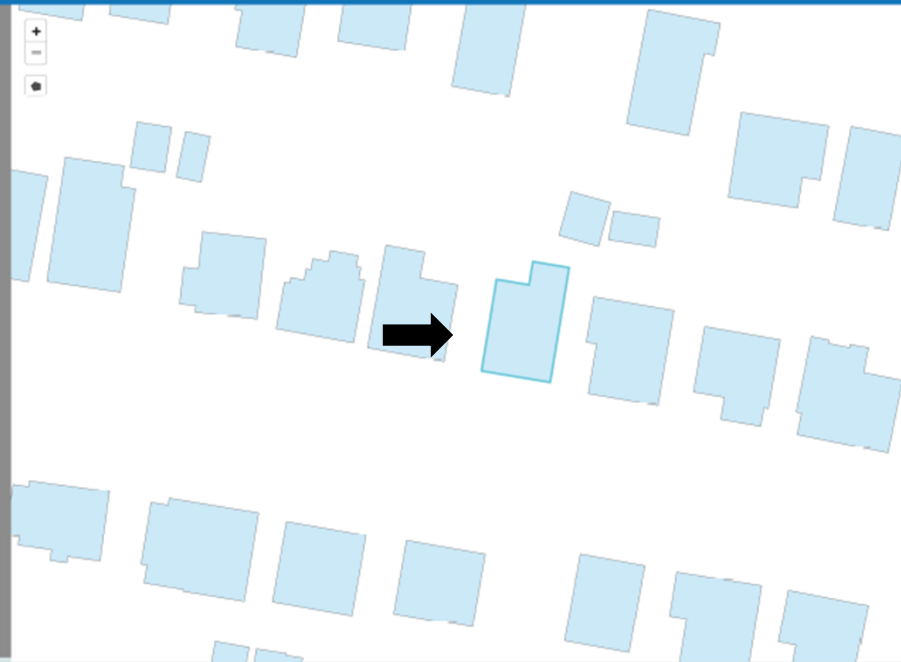
In Your Area



Solar Statistics



Advanced Tools



Solar Potential Calculator

Critical Load Calculator

Resilience Calculator

Energy Efficiency Calculator

## Solar Potential Calculator

### 1. Solar System Assumptions

#### Building Owner Description

Building / User Type Residential

Average monthly electricity cost \$300

Default \$ / Watt System Cost \$4.50

Financing Type Cash

*\* financing options can change your required upfront cost (see below) to adjust payment type.*

[+ Open Advanced Assumptions](#)

CALCULATE

RESET

### 2. Output

Assumptions

### Charts

[More Charts <>](#)

3 Solar Way  
Albany NY 12207

System Size 8.24 kW-DC

Payback Period 8 Years

Annual Savings \$2,096

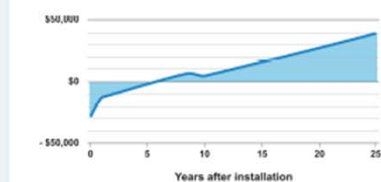
Total System Cost After Incentives \$16,919

GET A QUOTE

DOWNLOAD REPORT

[+ View System and Financing Details](#)

Cumulative Net Cash Flow



# 3 STEPS TO SOLAR

- 1 Enter your address
- 2 See how much you save!
- 3 Connect with a local installer



How do I quickly learn  
how to install solar in  
this community?



Find local solar  
programs,  
processes,  
incentives, and  
resources



## Street View

Enter your address

or jump to

Westchester ▼

Which best describes you?

- ☐ Residential
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Available map layers

NYC and Westchester Buildings ▼



Calculator In Your Area Solar Statistics Advanced Tools



## In Your Area

### Solarize / Solar Community Campaigns

You are eligible for Solarize Westchester assistance and discounts on going solar. [Click here to learn more.](#)

### Yonkers Solar Permitting Guide

Step by Step process across agencies in Yonkers to obtain approvals for solar. [Click here to learn more.](#)

### Helpful Links / Resources / How To TIP

<a href="#">Solarize / community solar campaigns</a>	<a href="#">NYS Residential Net Metering FAQ</a>	<a href="#">Bid / Call Request Form</a>
<a href="#">NYSERDA EDGE contractors</a>	<a href="#">10 Steps to Install Solar</a>	<a href="#">All Installed systems</a>
<a href="#">Business services for solar</a>	<a href="#">Multifamily Building How To</a>	<a href="#">System Testimonials</a>

### Business Services

NYSERDA Edge contractors—Regional Outreach Contractors (ROCs) encourage economic growth through outreach to commercial, institutional, municipal, industrial, and residential customers. Contact: [Melissa Herreria](#), Courtney-Strong Inc., 446 Broadway, Kingston, NY 12401. [Click here.](#)



## Solar Guides

The Solar guide will take you through a series of questions and answers to create a profile you will have and we can use to determine feasibility of solar panel installation on your property.

- ➡ 1. Are you applying online through the Development Hub? ☐ Yes ☒ No
2. Are you applying for the property tax abatement (PTA)? ☐ Yes ☒ No
3. Are you applying through Hub Full Service? ☐ Yes ☒ No
4. Are you applying through Hub Self Service? ☐ Yes ☒ No
5. Are you applying for Directive 14? ☐ Yes ☒ No

➡ [PERSONALIZE GUIDE](#)

[PRINT GUIDE TO PDF](#)

- ➡
- ▶ 6. Create Architectural Plans
  - ▶ 7. Upload Documentation
  - ▶ 8. Receive Construction Sign-Off in BIS
  - ▼ 4. Create Development Hub e-filing application

To use Hub Full-Service, you must prepare your job application using the Department's electronic submission system (eFiling). Preparers or Design Professionals can enter **Hub Full-Service** on the "Review" page of the Plan/Work Application.

The eFiling system will prompt you to enter information for the [PW1 – Plan/Work Approval](#) form electronically.

[< Previous](#) | [Next >](#)

▶ 5. Determine Project's Site-Specific Characteristics

▶ 6. Create Architectural Plans

The PW1 is the first document filed with the Department to begin the application process.  
[View DOB guide](#)



How much solar is in my community? Where should solar be in my community? How can we streamline the solar process?



**SOLAR  
STATISTICS**

View solar  
market  
growth,  
potential, and  
prices



## Street View

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Calculator



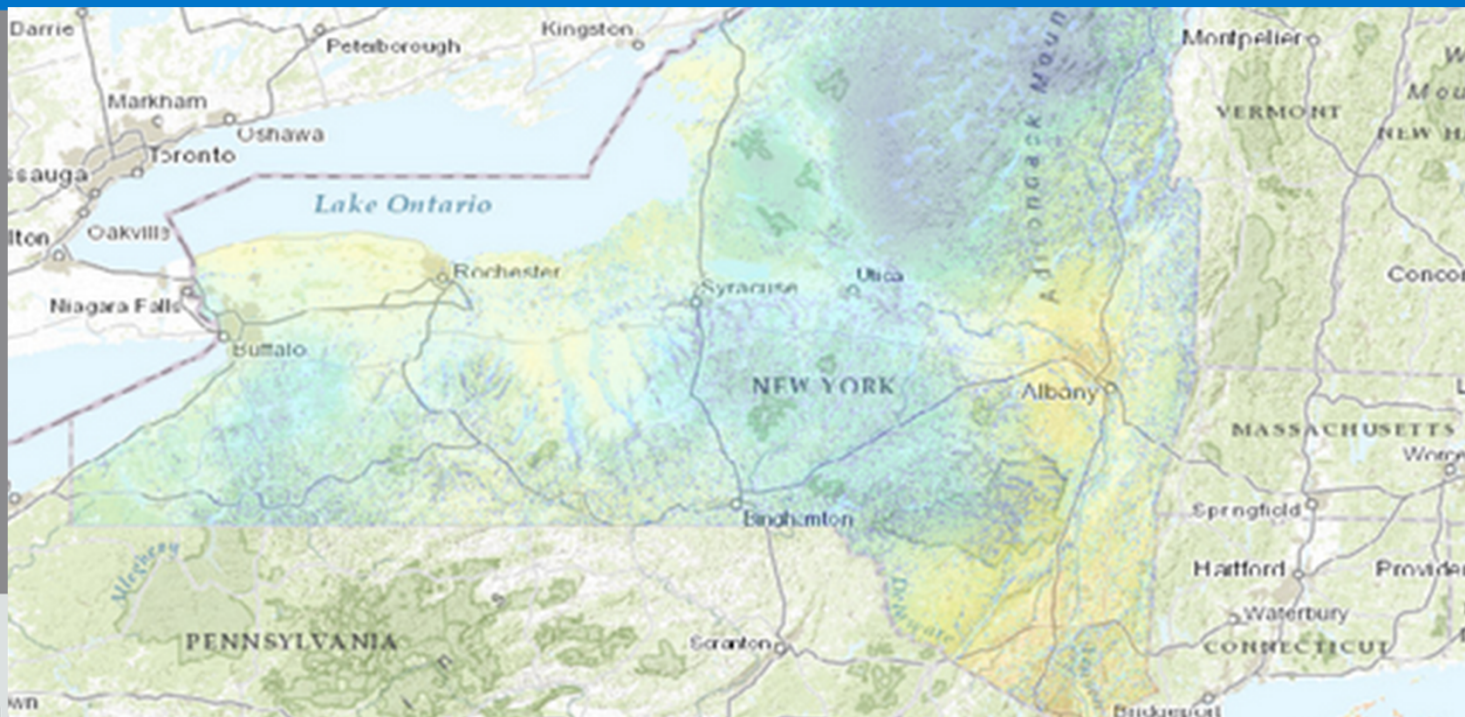
In Your Area



Solar Statistics

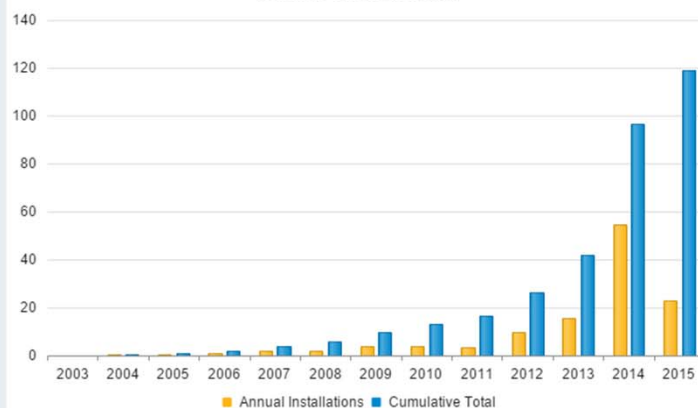


Advanced Tools

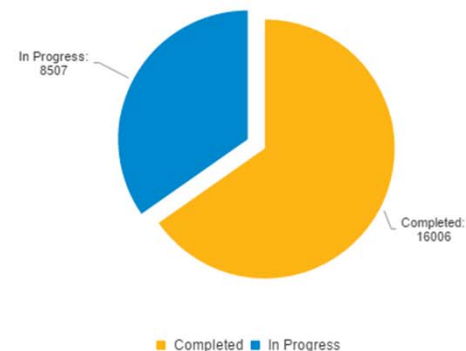


## Solar Statistics for New York State

Installed Capacity in MW



Projects in Queue Versus Completed



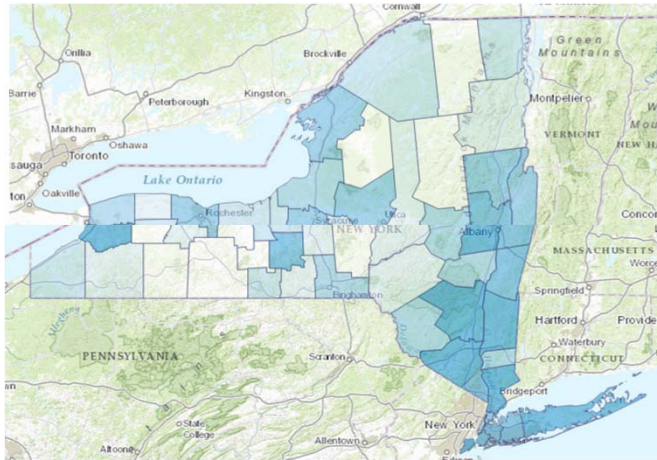




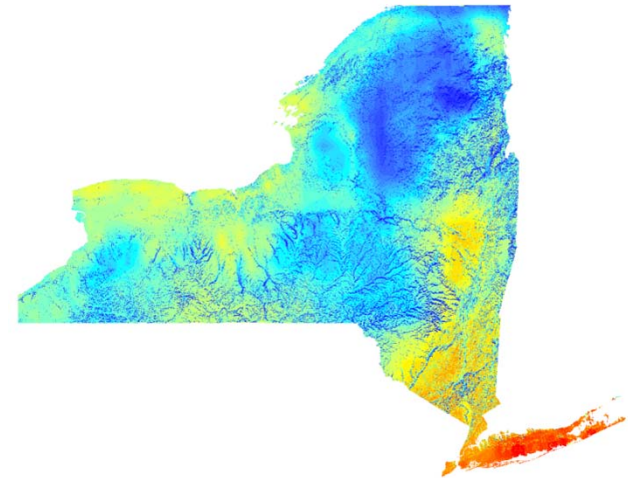
View on the  
map  
visualization  
of the solar  
market.

# Example Map Layers

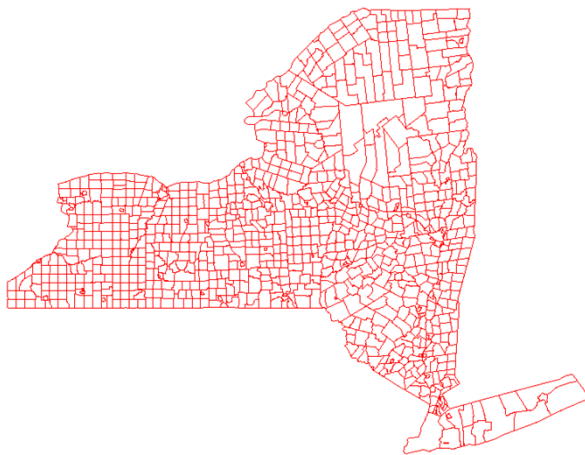
Installations by County



Solar Insolation



Municipalities



Potential others:

- Solarize Programs
- Unified Permit Adopters
- Strategic Zones
- Grid Ready
- Resilient Solar Systems
- Potential for Resilient Systems on Critical Infrastructure

How can I get insight  
on if this large PV  
installation is likely to  
be approved as is or  
needs expensive  
interventions?





**ADVANCED  
TOOLS**

Identify upfront  
if technical and  
financial  
barriers exist  
for large-scale  
PV projects

## Street View

Enter your address

49 5th Avenue, New York NY 10003

or jump to

New York City

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Calculator



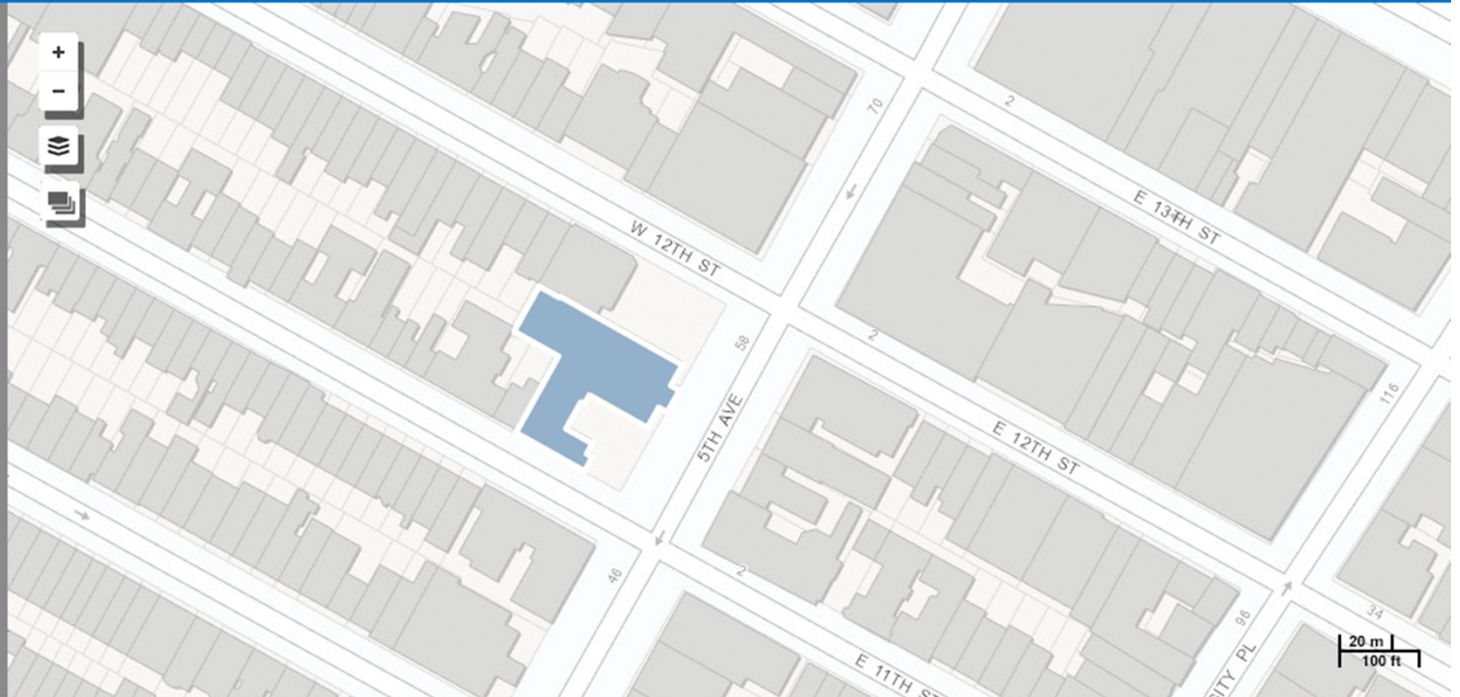
In Your Area



Solar Statistics



Advanced Tools



Grid Ready Information

Distributed Generation Information

## Grid Ready Information

Building	Interconnection Technical Screen	Opportunity Factor Designation	Result	Next Steps
3 Solar Way Brooklyn, NY 11211 Solar Potential: 275 kW	Identify Service Type Load vs PV Potential Evaluate existing Service Capacity for export	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	Go	Potential cost information: XYZ Potential grid upgrades required based on opportunity factor: XYZ <a href="#">Con Edison information on interconnection</a>

[grid ready assumptions](#)



How do I find up-to-date relevant information about Solar in NY state and in my local community?

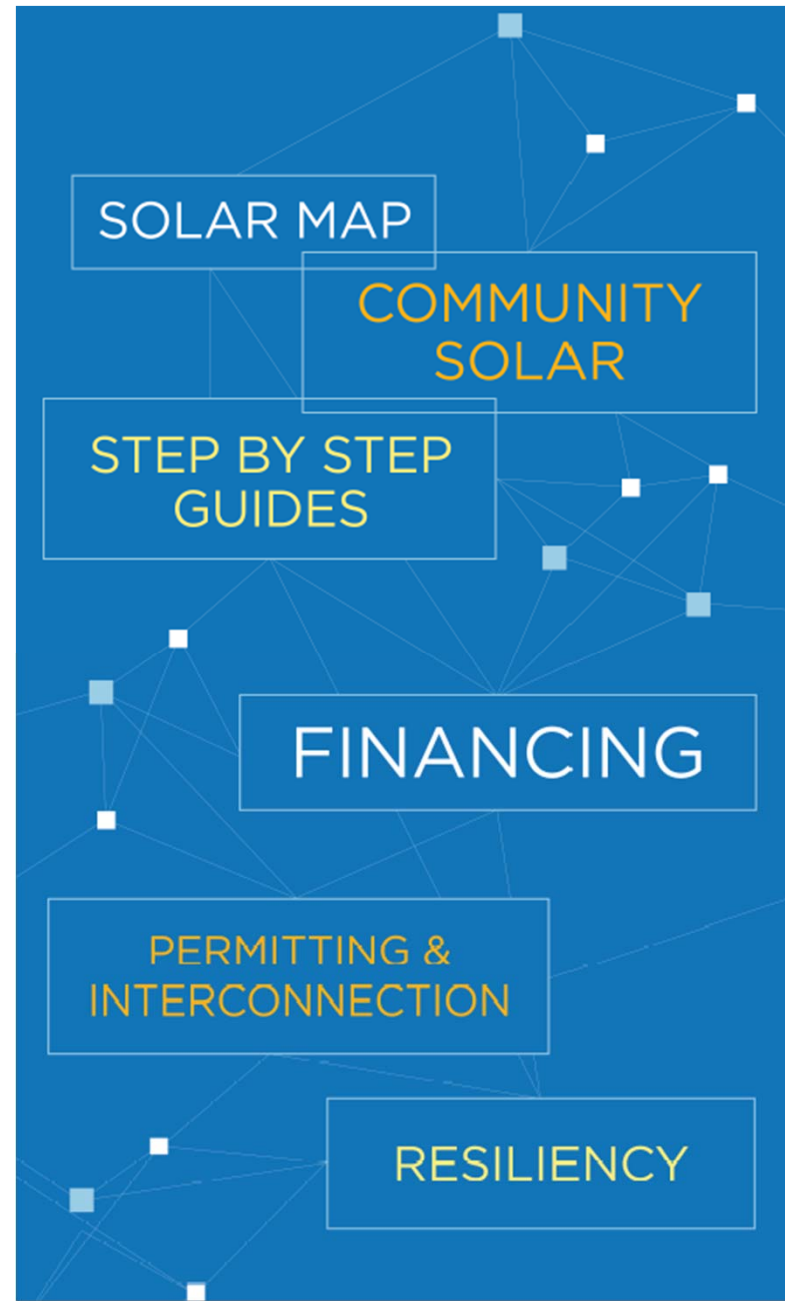


NY SOLAR MAP

# PORTAL

Brings solar  
information to  
the fingertips of  
users across the  
State.

NY SOLAR MAP



## COMMERCIAL PACE

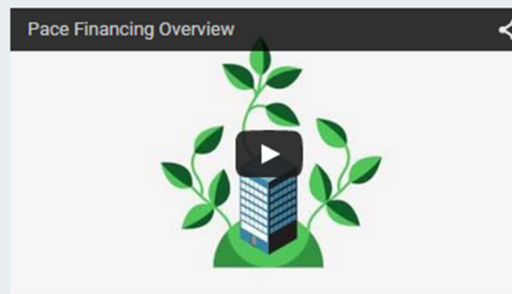
Energize NY PACE Finance provides convenient P.A.C.E. (Property Assessed Clean Energy) financing for energy efficiency and renewable energy projects in commercially and nonprofit owned properties in New York State. Eligible projects include solar PV, efficient lighting, chillers, energy storage, biomass, insulation, efficient heating or cooling, smart controls or combined heat and power. Energize NY PACE Finance:

- Interest rates are 4 - 6.5% with flexible terms 5-20 years, subject to market conditions.
- Up to 100% of the cost of a project is financeable – no down payment is required
- Energize NY (PACE) Finance allows repayment through a special tax charge in Energize NY participating jurisdictions utilizing money from energy improvement savings.
- Financing transfers automatically to a new owner upon sale (as well as the improvements), eliminating the need to pay it off.
- Combines seamlessly with state and local energy incentive programs and federal tax benefits.
- Financing available for energy improvements in existing commercial property including: office, hospitality, retail, institutional, multifamily, light industrial, non-profits, commercially-owned residential, agricultural.

### Energize NY Criteria:

- Energy improvement Savings-to-Investment ratio must be greater than one (1).
- Annual energy cost savings from improvements must be greater than annual finance payments.
- Property's existing Loan-to-Value ratio no greater than 80%.
- Financing available up to 10% of the value of the property.
- No bankruptcy within last 7 years.
- At least 3 year history of timely property tax payments.
- Existing mortgage holder consent required.
- Project must be located in member municipality who participates in the Energize NY Finance program. List of participating members [here](#).

To learn more about Energize NY financing please visit their website [here](#) or call (914) 302-7300.



# DEMO



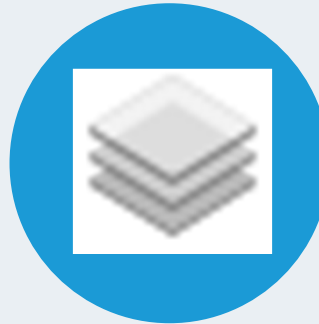
# SOLAR MAP TOOLS



CALCULATOR



IN YOUR AREA



MAP  
LAYERS



SOLAR  
STATISTICS

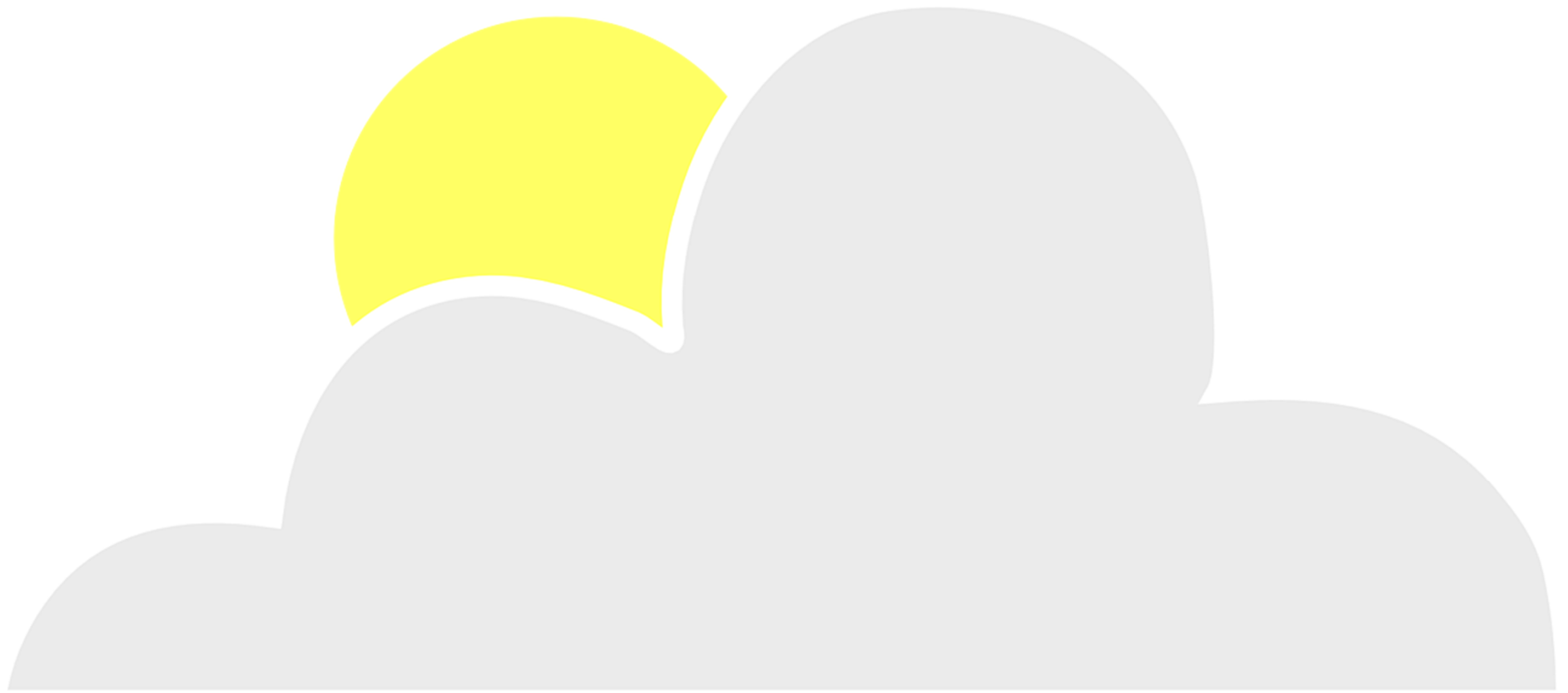


ADVANCED  
TOOLS

NY  SOLAR MAP

# PORTAL

NY  SOLAR MAP



Contact us at [solarportal@cuny.edu](mailto:solarportal@cuny.edu)