

**From:** Jack Mudge  
**To:** [Lynch, Ariel D \(APA\)](#)  
**Subject:** Major Project Notice P2020-0157  
**Date:** Friday, September 25, 2020 9:52:48 AM

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*ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.*

Good Morning Ariel,

I am the new Executive Director of Mountain Lakes Services, DBA the Arc of Essex County. I received your notice of Major Project Notice P2020-0157. Mountain Lake Services owns 1461 Street Rd. in Ticonderoga New York. Unfortunately, during the transition of Executive Director the first notice was missed. I believe this project is immediately behind our property which houses an OPWDD population of developmentally disabled gentlemen. The backyard is a haven to an extensive amount of wildlife which is enjoyed by both the folks that live at the home, but also their caregivers. Besides the loss of serenity, we also have some concerns of our participants accessing this solar property and potentially getting hurt or damaging the property. Are there plans for expansion or other solar farms or major projects in this area as these gentlemen have lived in this lovely area for many years and it has been good for them, as it is a rural natural environment. So what can be done to protect our participants? Allow for a continued natural environment and for support this home and residence for the disruption that will be take place.

Thanks for your consideration.

Sincerely

Jack



John (Jack) M. Mudge  
Executive Director  
Mountain Lakes Services/ Arc of Essex County NY  
10 St. Patrick's Place  
Port Henry, NY 12974  
T-518-546-3381  
F 518-518-546-7158  
[jmudge@Mountainlakeservices.org](mailto:jmudge@Mountainlakeservices.org)



**From:** jwhunter@rochester.rr.com  
**To:** [Lynch, Ariel D \(APA\)](#)  
**Subject:** project no. 2020-0157  
**Date:** Wednesday, September 30, 2020 4:01:59 PM

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Ariel

I have 2 concerns about the placemaent of solar panels on the Doering property in Ticonderoga N.Y.

1. The land that the panels are going on has been condemed by the N.Y. DEC.
2. What will become of the cemetary on the property, it is part of President Arthur family.

Joseph Wright  
791 Curran Road Shortsville N.Y. 14548  
585-289-4553

**From:** jwhunter@rochester.rr.com  
**To:** [Lynch, Ariel D \(APA\)](#)  
**Subject:** RE: project no. 2020-0157  
**Date:** Wednesday, October 07, 2020 3:07:19 PM

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Ariel thank you for your response I,m not sure if the whole property is condemned ,but where the apple orchards were the property cannot be built on unless the top 14 inc. of soil is removed. I actually thought about buying the property when I retired in 2008.,but was advised not to. by my lawyer. I will be straight forward with you I do not like solar panels or wind mills projects they are a eye sore and as for increasing the value of up state N.Y. people are leaving the state not moving in.

Joe Wright

-----  
From: "Lynch, Ariel D (APA)"  
To: "jwhunter@rochester.rr.com"  
Cc:  
Sent: Tuesday October 6 2020 11:27:57AM  
Subject: RE: project no. 2020-0157

Dear Mr. Wright,

Thank you for your September 30, 2020 email commenting on the ELP Ticonderoga Solar project (APA # P2020-0157). Your letter has been included in the project file and will be considered during review of the project.

I find no record that the property where the solar generation facility is proposed has been "condemned" by the NYS Department of Environmental Conservation.

No development is proposed within 50' of the cemetery. The applicant wrote the following as part of their application: "The cemetery has been located on the site plans with a 50' buffer and a note indicating the cemetery is to be located and marked in the field prior to beginning tree clearing activities."

I thought it might be helpful to see the Overall Site Plan provided by the applicant (copy attached). If you would like to see any other application materials, please request them via FOIL at <https://www.apa.ny.gov/foil.html>.

Please don't hesitate to contact me should you have questions.

Sincerely,

Ariel Lynch

## Ariel Lynch

Environmental Program Specialist 2

### NYS Adirondack Park Agency

PO Box 99

1133 NYS Route 86

Ray Brook, NY 12977

OFFICE: (518) 891-4050

MOBILE: (518) 319-0231

[ariel.lynch@apa.ny.gov](mailto:ariel.lynch@apa.ny.gov)

[www.apa.ny.gov](http://www.apa.ny.gov)

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**From:** jwhunter@rochester.rr.com <jwhunter@rochester.rr.com>

**Sent:** Wednesday, September 30, 2020 4:02 PM

**To:** Lynch, Ariel D (APA) <Ariel.Lynch@apa.ny.gov>

**Subject:** project no. 2020-0157

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Ariel

I have 2 concerns about the placemaent of solar panels on the Doering property in Ticonderoga N.Y.

1. The land that the panels are going on has been condemned by the N.Y. DEC.
2. What will become of the cemetary on the property, it is part of President Arthur family.

Joseph Wright

791 Curran Road Shortsville N.Y. 14548

585-289-4553



2861 NYS Route 73  
PO Box 130  
Keene, NY 12942

(518) 576-2400  
info@adirondacklandtrust.org  
www.AdirondackLandTrust.org

August 12, 2019

Doreen Harris  
Director, Large Scale Renewables  
NYSERDA  
17 Columbia Circle,  
Albany, NY 12203-6399

Dear Ms. Harris,

We are writing in support of East Light Partners' proposed Ticonderoga solar project.

Before commenting on the proposal itself, we would like to provide broader context by explaining Adirondack Land Trust's position on renewable energy. Because the Adirondacks and New York State are already feeling the impact of climate change, we believe we all share a responsibility to address it. ALT is committed to working with communities and energy developers to identify and secure sites that are suitable for renewable energy generation while advancing other conservation and community goals.

In fact, we hope that the Adirondack Park will play a significant role in meeting New York State's ambitious renewable energy goals. We realize that this cannot be accomplished by siting solar facilities on rooftops and brownfields alone. Other appropriate locations for large-scale solar facilities must be identified that do not have significant impacts on the park's scenic, recreational and natural resources. That brings us to East Light's proposal in Ticonderoga.

East Light, in our opinion, is approaching this project just right. It chose the site to minimize or avoid impacts to the community and the park, and it is actively soliciting community input during the design process, with a goal of community-wide support. The project, and the process leading to its development, could serve as a model for how other Adirondack communities approach renewable energy siting and generation.

Thank you for your consideration.

Sincerely,

A handwritten signature in blue ink that reads 'Michael Carr'.

Michael Carr  
Executive Director

Cc: Chairman McTyler and Members of the Ticonderoga Town Planning Board  
Joe Giordano, Ticonderoga Town Supervisor  
Colleen Parker, Adirondack Park Agency

**From:** [kenbeiser@gmail.com](mailto:kenbeiser@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [kenbeiser@gmail.com](mailto:kenbeiser@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 1:51:34 PM

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Please copy "2020-0157, Kenneth Beiser, [kenbeiser@gmail.com](mailto:kenbeiser@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Kenneth Beiser  
Email from: [kenbeiser@gmail.com](mailto:kenbeiser@gmail.com)  
Address: 29 Redfox Lane Hague NY 12874  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I write as a resident of the Ticonderoga School District. The APA should be encouraged to accept the ELP Ticonderoga Solar project for these reasons:

1) APA's mandate to protect the Park ought to include active measures to mitigate the effects of Global Climate Change, as it fought Acid Rain two decades ago, well beyond its borders. The alternative to solar power, nationally, is coal, which is pernicious in its contribution to global warming.

From the US Energy Information Administration's July Short-Term Energy Outlook "We forecast U.S. coal production will increase by 78 million short tons (MMst) (15%) in 2021 to total 617 MMst for the year. The expected increase in production reflects greater electric power sector demand for coal. Higher natural gas prices make coal more economically competitive relative to natural gas for electricity generation dispatch. In the [2022] forecast, coal production increases by 13 MMst (9%) in the Appalachia region, 14 MMst (16%) in the Interior region, and 51 MMst (17%) in the Western region. "

[https://www.eia.gov/outlooks/steo/archives/jul21.pdf?](https://www.eia.gov/outlooks/steo/archives/jul21.pdf?utm_source=newsletter&utm_medium=email&utm_campaign=newsletter_axiosgenerate&stream=top)

[utm\\_source=newsletter&utm\\_medium=email&utm\\_campaign=newsletter\\_axiosgenerate&stream=top](https://www.eia.gov/outlooks/steo/archives/jul21.pdf?utm_source=newsletter&utm_medium=email&utm_campaign=newsletter_axiosgenerate&stream=top)

2) The Ticonderoga site is as well-suited as any within the Blue Line for solar. Nearby industrial land uses include a slaughterhouse, NY's largest papermill, sand and gravel pits, a concrete plant, water-processing facilities, an airport and big-box and petroleum retailing. Ti has historically been a heavy-industry, natural-resource extractive town. While there are fantastic viewsheds in Ti, this is not part of one. The site is hayfields and defunct orchards which are reverting to scrub. This area between Route 74 and Street Road is covered with power lines.

3) Ticonderoga and Essex County need the low-impact economic boost that the ELP proposal brings: Construction jobs are suited to the local workforce and local contractors. Permanent site maintenance jobs provide supplementary income for local farmers or landscape maintenance businesses. PILOT and property taxes will be paid to Ti and its school district for 20 years, yet these facilities never send children to the schools and demand almost no public services. Were this site turned into housing, it is unlikely taxes would offset public sector costs.

4) Environmentally low impact: In addition to displacing coal and gas-fired electrical production, Solar Farms also reduce the need for additional long-distance transmission lines, by generating power locally. Permeability of soils are maintained, as rain water sheds directly from panels and is disbursed over the whole site. Beneficial

vegetative groundcovers are typical in such designs.

My family and I have lived in Hague, NY, the next town South of Ti, since 1907. My mom was born in Ticonderoga's Moses Ludington Hospital. We are mostly summer residents now but have a long commitment to the Lake George area and the Adirondacks. I hope you will accept this project and the local and global benefits it brings, and the message it sends about APA's concern for the Climate.

Ken Beiser, Member- Lake George Assn. / Member – Silver Bay Property Owners Assn.

**From:** [jtgunther@aol.com](mailto:jtgunther@aol.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [jtgunther@aol.com](mailto:jtgunther@aol.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Wednesday, September 29, 2021 5:01:56 PM

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Please copy "2020-0157, Jane e Gunther, [jtgunther@aol.com](mailto:jtgunther@aol.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Jane e Gunther  
Email from: [jtgunther@aol.com](mailto:jtgunther@aol.com)  
Address: 2264 Black point Rd. Ticonderoga NY 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

This project sounds like a great idea. I believe this would be a profitable addition to the town tax revenues. Any add industries that come to the Ti area is only a positive addition to the area.

**From:** [jwrangle16@gmail.com](mailto:jwrangle16@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [jwrangle16@gmail.com](mailto:jwrangle16@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 9:43:12 AM

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Please copy "2020-0157, Justin Wrabley, [jwrangle16@gmail.com](mailto:jwrangle16@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Justin Wrabley  
Email from: [jwrangle16@gmail.com](mailto:jwrangle16@gmail.com)  
Address: 2202 Cranberry Lane Coatesville PA 19320  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Hi,  
My family has owned a house on Blackpoint road and have been visiting Ticonderoga for longer than I have been around. It is exiting to see that our town is going to see some of the investments being made in clean energy and grid modernization. Lake George is known for its beauty and cleanliness. What better way to supplement this nature-loving community than to have clean solar energy being produced right here. Thanks to all involved!

**From:** [Dclarke1120@gmail.com](mailto:Dclarke1120@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Dclarke1120@gmail.com](mailto:Dclarke1120@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 8:07:03 PM

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Please copy "2020-0157, Diana clarke, Dclarke1120@gmail.com" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Diana clarke  
Email from: [Dclarke1120@gmail.com](mailto:Dclarke1120@gmail.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Solar panels are a great way to help the environment. I support this project wholeheartedly! This is a terrific addition to the town.

**From:** [Laurendubeau@gmail.com](mailto:Laurendubeau@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Laurendubeau@gmail.com](mailto:Laurendubeau@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 5:13:21 PM

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Please copy "2020-0157, Lauren DuBeau, [Laurendubeau@gmail.com](mailto:Laurendubeau@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Lauren DuBeau  
Email from: [Laurendubeau@gmail.com](mailto:Laurendubeau@gmail.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Not only will this project contribute to a greener Ticonderoga and healthy lake, Ti will benefit from the tax revenue.

**From:** [Mpd149@hotmail.com](mailto:Mpd149@hotmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Mpd149@hotmail.com](mailto:Mpd149@hotmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 5:31:47 PM

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Please copy "2020-0157, Michael DuBeau, [Mpd149@hotmail.com](mailto:Mpd149@hotmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Michael DuBeau  
Email from: [Mpd149@hotmail.com](mailto:Mpd149@hotmail.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Sounds like a good opportunity for Ticonderoga and the community.

**From:** [carolynleventry@howardhanna.com](mailto:carolynleventry@howardhanna.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [carolynleventry@howardhanna.com](mailto:carolynleventry@howardhanna.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 4:58:36 PM

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Please copy "2020-0157, Carolyn Leventry, [carolynleventry@howardhanna.com](mailto:carolynleventry@howardhanna.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Carolyn Leventry  
Email from: [carolynleventry@howardhanna.com](mailto:carolynleventry@howardhanna.com)  
Address: 221 Collegiate Dr. Johnstown PA 15904  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I have visited that beautiful region numerous times in my life. That's a perfect place for solar energy. Perfect for Reducing Air Pollution and water usage and will improve Humanity's health in the long run not to mention it will help fight climate change. So proud of the time and energy that was put into this project.

**From:** [Dldsss@hotmail.com](mailto:Dldsss@hotmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Dldsss@hotmail.com](mailto:Dldsss@hotmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, September 30, 2021 8:47:06 PM

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Please copy "2020-0157, Lorraine Scott, [Dldsss@hotmail.com](mailto:Dldsss@hotmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Lorraine Scott  
Email from: [Dldsss@hotmail.com](mailto:Dldsss@hotmail.com)  
Address: 130 Hawthorne St Johnstown PA 15904  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Lake George is a beautiful area I have visited many times. The proposed wind farm will have a small physical footprint on the land and will ensure the future energy needs of the area will be met while protecting the environment. Wind turbines do not release emissions that pollute the air and water resources. I am hopeful that the effort to develop the wind farm will be successful.

**From:** [rdoering@atlanticbb.net](mailto:rdoering@atlanticbb.net)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [rdoering@atlanticbb.net](mailto:rdoering@atlanticbb.net)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 2:10:44 PM

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Please copy "2020-0157, Richard Doering, [rdoering@atlanticbb.net](mailto:rdoering@atlanticbb.net)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Richard Doering  
Email from: [rdoering@atlanticbb.net](mailto:rdoering@atlanticbb.net)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

My family has owned a home in Ticonderoga for my entire life. I've grown up watching the area change. What I've loved the most about it is that, through much hard work and diligence, everything has remained so clean and environmentally friendly. Lake George has won most beautiful lake in the United States at least several times and it's no surprise. This project would be great for Ticonderoga and I think it would help keep the area clean, yet modern, to help facilitate more tourism for the foreseeable future.

**From:** [servitus@gmail.com](mailto:servitus@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [servitus@gmail.com](mailto:servitus@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 1:50:02 PM

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Please copy "2020-0157, Joshua Gaylord, [servitus@gmail.com](mailto:servitus@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Joshua Gaylord  
Email from: [servitus@gmail.com](mailto:servitus@gmail.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Most solar power installations are low impact, high reward. We all benefit from investment into renewable energy projects like this one and as a member of the public, I approve.

**From:** [djerry1983@gmail.com](mailto:djerry1983@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [djerry1983@gmail.com](mailto:djerry1983@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 6:01:12 AM

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Please copy "2020-0157, Dawn Jerry, [djerry1983@gmail.com](mailto:djerry1983@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Dawn Jerry  
Email from: [djerry1983@gmail.com](mailto:djerry1983@gmail.com)  
Address: 67 Veterans Rd Ticonderoga NY 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

The Solar Panels are hidden from public eye being surrounded by trees while being placed in open fields. This fields cannot be used for building development so I believe the Solar Panels will be a great use of the space. Care is being taken for safety with a fence being placed around them. This source of energy will be good for the town and it's citizens. Taxes are paid on the property for it to sit and nothing be done, the panels will not negatively affect anyone in the area or passing by so I'm for having them put in.

**From:** [bjordonjr@gmail.com](mailto:bjordonjr@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [bjordonjr@gmail.com](mailto:bjordonjr@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 5:54:43 AM

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Please copy "2020-0157, Bernard Jordon Jr, [bjordonjr@gmail.com](mailto:bjordonjr@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Bernard Jordon Jr  
Email from: [bjordonjr@gmail.com](mailto:bjordonjr@gmail.com)  
Address: 67 Veterans Rd Ticonderoga NY 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I believe this project is a great use of the land. The property cannot be built on for living, but it can help with the renewable energy. Mrs. Deoring pays taxes on the property for it to not be used and the solar panels will help her and Ticonderoga. I live on Veterans road and won't be seeing the Panels as they will be hidden by trees. Everyone involved is taking great care to ensure the project is being done to preserve the wetlands and forest so I see no issues with making use of the land with an energy source that will help accommodate the town and local Citizens.

**From:** [robert.g.melrose@gmail.com](mailto:robert.g.melrose@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [robert.g.melrose@gmail.com](mailto:robert.g.melrose@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Monday, October 4, 2021 10:44:59 AM

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Please copy "2020-0157, Robert G. Melrose, [robert.g.melrose@gmail.com](mailto:robert.g.melrose@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Robert G. Melrose  
Email from: [robert.g.melrose@gmail.com](mailto:robert.g.melrose@gmail.com)  
Address: 17 Lake George Ave Ticonderoga New York 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

This is a very well conceived use for this particular piece of property.

**From:** [Mmiller1788@yahoo.com](mailto:Mmiller1788@yahoo.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Mmiller1788@yahoo.com](mailto:Mmiller1788@yahoo.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 1:37:04 PM

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Please copy "2020-0157, Matthew Miller, Mmiller1788@yahoo.com" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Matthew Miller  
Email from: [Mmiller1788@yahoo.com](mailto:Mmiller1788@yahoo.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Solar farms create clean energy sources for people and wildlife. There are no moving parts to cause harm. I think this would be a great idea for the area for jobs and emission reduction.

**From:** [Ayahner90@gmail.com](mailto:Ayahner90@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Ayahner90@gmail.com](mailto:Ayahner90@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Sunday, October 3, 2021 1:45:10 PM

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Please copy "2020-0157, Anna Yahner, Ayahner90@gmail.com" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Anna Yahner  
Email from: [Ayahner90@gmail.com](mailto:Ayahner90@gmail.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

Hello,

Every year I visit Ticonderoga and spend a great deal of time there at the home of my boyfriend's family. It is a beautiful, welcoming and friendly place that I eagerly await returning to. I am quite thrilled to see that investments into in clean energy are being made by the community there. It is no surprise as the area has always taken a great deal of pride and consideration in caring for its population, wildlife and resources. Lake George is one of the most clean and beautiful lakes in the nation and I feel this initiative compliments the community's love and respect for nature. Having clean solar energy produced locally would be another wonderful addition to the many incredible things they do for the environment.

Thank you for all that you are doing and to everyone taking part in this endeavor!

**From:** [Apowc@verizon.net](mailto:Apowc@verizon.net)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Apowc@verizon.net](mailto:Apowc@verizon.net)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Monday, October 4, 2021 4:15:47 PM

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Please copy "2020-0157, Christine adams, Apowc@verizon.net" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Christine adams  
Email from: [Apowc@verizon.net](mailto:Apowc@verizon.net)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

All in for green energy!!!!!!!!

**From:** [Jpowsale@aol.com](mailto:Jpowsale@aol.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [Jpowsale@aol.com](mailto:Jpowsale@aol.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Monday, October 4, 2021 4:13:31 PM

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Please copy "2020-0157, John C. Powell, [Jpowsale@aol.com](mailto:Jpowsale@aol.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: John C. Powell  
Email from: [Jpowsale@aol.com](mailto:Jpowsale@aol.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

As a person who has a vested interest in a home/property fronting onto Lake George, I am very interested and excited about the project to install solar panels generating electricity for the Ticonderoga Area. I applaud the New York Government for being a leader in their initiative in establishing solar power for our area. Solar will not only be a benefit to our local population, but will go a long way in preserving our local wildlife and natural habitat. We live in one of the most beautiful areas of our Country and are responsible for maintaining it. This Solar Project is a major first step in the right direction.

**From:** [cali@generousact.org](mailto:cali@generousact.org)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [cali@generousact.org](mailto:cali@generousact.org)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Wednesday, October 6, 2021 3:57:16 PM

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Please copy "2020-0157, Cali Brooks, [cali@generousact.org](mailto:cali@generousact.org)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Cali Brooks  
Email from: [cali@generousact.org](mailto:cali@generousact.org)  
Address: 132 Evans Lane Lake Placid NY 12946  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

The team behind this solar project are incredibly thoughtful about siting and strive to develop projects that will be unobtrusive and beneficial to communities where they work. Our rural communities need more options for alternative energy, so I fully endorse the Adirondack Park Agency to approve this project.

**From:** [Adele@adworkshop.com](mailto:Adele@adworkshop.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [adele@adworkshop.com](mailto:adele@adworkshop.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Wednesday, October 6, 2021 7:30:23 PM

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Please copy "2020-0157, Adele Connors, Adele@adworkshop.com" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Adele Connors  
Email from: Adele@adworkshop.com  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I believe this project is a wonderful step forward to cleaner energy in the Ticonderoga area. The whole area has done a good job on master planning the entire community for responsible growth and I truly believe that this plan should be wholeheartedly supported.

**From:** [pahuestis@yahoo.com](mailto:pahuestis@yahoo.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [pahuestis@yahoo.com](mailto:pahuestis@yahoo.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, October 7, 2021 7:16:06 AM

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Please copy "2020-0157, Paul A Huestis , pahuestis@yahoo.com " into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Paul A Huestis  
Email from: [pahuestis@yahoo.com](mailto:pahuestis@yahoo.com)  
Address: 78 grace ave Ticonderoga Ny 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I'm in favor of the solar field it would be a great step forward in renewable energy. The location is perfect and the best way to use the land .

**From:** [jmartens5@verizon.net](mailto:jmartens5@verizon.net)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [jmartens5@verizon.net](mailto:jmartens5@verizon.net)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Wednesday, October 6, 2021 9:01:43 PM

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Please copy "2020-0157, Joe Martens, [jmartens5@verizon.net](mailto:jmartens5@verizon.net)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Joe Martens  
Email from: [jmartens5@verizon.net](mailto:jmartens5@verizon.net)  
Address: 52 Moongate Lane Lake Placid NY 12946  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

As a Park resident and renewable energy advocate, I urge the Agency to approve the ELP Ticonderoga Solar project in the Town of Ticonderoga. The 20 MW solar project is a model of renewable energy development. It is sensitively sited on former orchard land that is unlikely to be used for other productive purposes. It will generate clean, renewable energy, provide significant local benefits and, perhaps most importantly, enjoys strong community support. This project demonstrates that renewable energy can be developed in a manner that is consistent with the strong environmental protections embodied in the Adirondack Park Agency Act and deserves the Agency's full support. Thank you.

**From:** [donna@ticonderoga-alliance.org](mailto:donna@ticonderoga-alliance.org)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [donna@ticonderoga-alliance.org](mailto:donna@ticonderoga-alliance.org)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Wednesday, October 6, 2021 7:36:55 PM

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Please copy "2020-0157, Donna Wotton, [donna@ticonderoga-alliance.org](mailto:donna@ticonderoga-alliance.org)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Donna Wotton  
Email from: [donna@ticonderoga-alliance.org](mailto:donna@ticonderoga-alliance.org)  
Address: 174 Lake George Avenue Ticonderoga NY 12883  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

There is always a balance to be struck between preserving our visual environment and preserving our planet. Here in the Ticonderoga Area we work so hard to preserve our beautiful lakes, mountains and landscape. I believe that within that context there is room to make our contribution to preserving our planet. We simply must move to renewable energy sources and allowing projects such as this solar project to be created will, in the long run allow us to preserve the beautiful habitat that surrounds us, yet leave our planet functioning for generations to come. The Town of Ticonderoga spent a great deal of time and money developing a long term zoning plan to enable solar projects. They explored the best solar zoning laws in the North Country, surveyed potential parcels around the town, and got guidance from solar companies, environmental groups, the APA, other regulators, and other successful towns. We're ready to do this. Please vote to move the ELP Ticonderoga Solar project forward.

**From:** [donahueltd@gmail.com](mailto:donahueltd@gmail.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [donahueltd@gmail.com](mailto:donahueltd@gmail.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, October 7, 2021 12:09:03 PM

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Please copy "2020-0157, Matt Donahue, [donahueltd@gmail.com](mailto:donahueltd@gmail.com)" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Matt Donahue  
Email from: [donahueltd@gmail.com](mailto:donahueltd@gmail.com)  
Address: Adirondack Foundation, 304 Bear Cub Road Lake Placid New York 12946  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I am submitting comments in support of ELP Ticonderoga Solar's installation at Veterans Rd and Rte 9N in Ticonderoga. This is a model project for the Adirondack region, which needs more investment in alternative energy solutions. Clean energy is the future, and Adirondack towns need to facilitate that future. I am hoping more sites like these can offset regional power drains in tourist heavy seasons that exponentially increase demand.

**From:** [Adele@adworkshop.com](mailto:Adele@adworkshop.com)  
**To:** [APA Regulatory Programs Comments](#)  
**Cc:** [adele@adworkshop.com](mailto:adele@adworkshop.com)  
**Subject:** APA Project 2020-0157 Public Comments  
**Date:** Thursday, October 7, 2021 4:42:43 PM

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Please copy "2020-0157, Adele Connors, Adele@adworkshop.com" into your message for our reference.

\*\*\*\*\*

Attn: Ariel Lynch  
Comments from: Adele Connors  
Email from: [Adele@adworkshop.com](mailto:Adele@adworkshop.com)  
Address:  
Re: Agency Project 2020-0157, ELP Ticonderoga Solar, LLC

My Comments:

I believe this project is a wonderful step forward to cleaner energy in the Ticonderoga area. The whole area has done a good job on master planning the entire community for responsible growth and I truly believe that this plan should be wholeheartedly supported.



# ADIRONDACK COUNCIL

PRESERVING WATER,  
AIR AND WILDLANDS

October 7, 2021

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Noah Shaw  
Douglas Stewart

**Executive Director**  
William C. Janeway



Ariel Lynch  
Adirondack Park Agency  
P.O. Box 99  
Ray Brook, NY 12977  
*(Via Electronic Submission)*

## **RE: Support ELP Ticonderoga Solar Project, P2020-0157, and Request for Public Hearing**

Dear Ariel,

On behalf of the Adirondack Council, I would like to thank you for the opportunity to provide comments on the *ELP Ticonderoga Solar Project, P2020-0157*. Smartly sited renewable energy projects in the Adirondack Park can and should deliver economic benefits to its residents and communities while protecting the ecological integrity of unfragmented forested landscapes in the Adirondacks and enabling the state to meet its aggressive clean energy goals. The Adirondack Council supports this large-scale solar development, with conditions to avoid, minimize or mitigate impacts to wetlands. This project also presents the Adirondack Park Agency with the opportunity to begin assessing the cumulative impacts of solar development in the Adirondack Park.

East Light Power Ticonderoga Solar, LLC (ELP) is seeking to develop a 20MW utility-scale solar project in the Town of Ticonderoga. The project is proposed to be sited on 100 acres of a 255-acre Moderate Intensity Use property that consists of meadowed agricultural and forest lands. The project site is located along Route 9N and Veterans Road, where existing transmission infrastructure is proximate. However, new connection to National Grid's Ticonderoga-Republic #2 115kV line will be needed. The Council recognizes that these types of upgrades are necessary to support renewable energy generation and transmission within and out of the Adirondack region.

According to ELP's application materials to the Agency, "the meadow areas will remain meadow with introduction of solar facility, and portions of the wooded areas will be cleared and converted to meadow. A portion of the agricultural meadow, which was used to produce hay as recently as last year, will also host part of the solar facility." While the Council does not prefer the conversion of farmland or forested land for renewable energy development because it can inhibit natural climate mitigating processes, we do understand

*The mission of the Adirondack Council is to ensure the ecological integrity and wild character of the Adirondack Park for current and future generations.*

**Main Office:** 103 Hand Ave. Suite 3 | PO Box D-2 | Elizabethtown, NY 12932 | 518.873.2240  
**Albany Office:** 342 Hamilton St. | Albany, NY 12210 | 518.432.1770

AdirondackCouncil.org  
info@adirondackcouncil.org

the myriad factors that contribute to preferred site selection. Therefore, we appreciate the applicant's exploration of several other alternative sites in the area that were ultimately deemed unviable "due to topographic features, active farming activities, APA land classification, and Town zoning classification, it was determined that these sites were less optimal than our proposed site."

According to the Council's own renewable energy policy, we support careful, science-based siting and design methods employed to minimize visual and other impacts related to renewable energy projects. It appears the applicant took measures, by working with the Town and the APA, to minimize impacts. In addition, the proposed project aligns with the Council's policy in that the project is located proximate to a community center, it is proximate to existing transmission infrastructure, and provides a decommissioning plan where the applicant is responsible for removing all infrastructure and restoring the site to its original status at its own expense. While we do support maximizing underground energy transmission infrastructure, we ask that the developer work with the Agency to avoid, minimize or mitigate impacts to all wetlands on the property.

#### Farmland

In the deliberation of previous solar projects, the APA Board has often discussed the need to better understand how utilizing farmland for solar development impacts communities. We echo that need for clarity and take it a step further by asking that the APA ensure developers are working with agricultural stakeholders, like the Essex Farm Institute, to determine what, if any, farmland enhancements are possible for a project, like dual use solar that allows for sheep grazing, apiaries, etc. Attached you will find two resources that review the benefits of dual use solar on agricultural lands: *What is Dual Use Solar* and *Co-Location of Agriculture and Solar – Opportunities to Improve Energy, Food, and Water Resource*.

#### Cumulative Impacts

The Town of Ticonderoga, as compared to many other Adirondack communities, has seen a heightened level of solar development, including two recently approved 5MW projects, and presents a unique opportunity for the APA to examine the cumulative impacts of solar development in the Park at a digestible scale. The Agency's Application for Solar Generation Facility does not currently assess the cumulative impacts of solar at any scale, and we view this as a flaw in the Agency's review process. As the state strives to meet its climate goals, it is imperative we work proactively to understand the regional ecological impacts solar development has on natural resources and if/how they impact natural climate solutions, wildlife migration, etc. These questions and assessments must be asked now as the proliferation of solar power infrastructure is still in its infancy.

#### Public Hearing on Solar in the Park

With cumulative impacts and planful siting in mind, the Council asks that the Agency host a general public hearing on solar development to harness the expertise and feedback of stakeholders to understand what solar development in the Adirondack Park should look like. It would be an opportunity to not only hear from in-Park stakeholders but from developers and other state agencies like the NYS Research & Development Authority, Ag & Markets, Department of Environmental Conservation, Office of Renewable Energy Siting.

Climate change no longer allows for drawn out trial and error processes. Rather, it demands thoughtful, intentional and planful action up front to minimize impacts to natural resources that sequester carbon and increase natural resiliency. The Agency cannot do this in a silo. Within its regulatory boundaries and processes, the Agency has the power to set a new standard of collaboration and cooperation at a landscape scale to support the health of our natural and human communities.

With the close of the construction season upon us, we urge the Agency to utilize the upcoming offseason to host a public hearing to solicit feedback on solar development in the Park that looks broadly and beyond the project-by-project scale. We suggest the following questions for consideration:

- What amount of forested land clearing is acceptable?
- What should be considered when farmland is proposed for a solar site? What are the impacts of removing productive farmland from use? Should dual-use solar be considered on farmland?
- What remediation measures should be included in project plans to ensure the land can return to a natural state as quickly as possible?
- What environmental considerations should be included in the Solar Generation Facility Application? Where are the formerly industrial or abandoned sites that are ripe for solar development? Are there ways to incentivize solar development at these sites?
- How can stakeholders and partners support the Agency in this effort?

Climate change is the defining environmental threat for our generation. It poses real, long-term dangers to the Adirondack Park's natural and human communities and the world, including impacting wilderness, clean water, clean air, wildlife, natural communities, natural processes, people and the economy. As the largest park in the continental U.S., the Adirondacks can be a model for a large public-private conservation landscape combating climate change. The path towards a cleaner future is rooted in natural landscape protection, harnessing natural climate solutions like carbon sequestration, and the propagation of renewable energy resources. Transitioning to a cleaner and fossil free future by harnessing renewable natural resources, like solar power, is an essential piece to protecting the Adirondack Park's natural and human communities.

In closing, the Adirondack Council supports this solar project because it is a well-designed and sited project. However, we ask the Agency to consider the cumulative impacts of this project and others in the Town of Ticonderoga to more deeply understand how these projects impact the natural resources and processes of the Park. In addition, we ask the Agency to host a non-project-specific public hearing to utilize Park and state-wide expertise on solar planning to foster collaboration and a shared understanding of such development in the Park. Thank you for reviewing our comments.

Sincerely,



Jackie Bowen  
Associate Conservation Director

# What is Dual-Use Solar?



**Dual-use solar siting, also known as agrivoltaics, is the practice of installing solar photovoltaic panels on farmland in such a manner that primary agricultural activities (such as animal grazing and crop/vegetable production) are maintained simultaneously on that farmland.**

Benefits of siting solar energy as dual-use:

- ◆ Supports solar development and renewable energy production goals
- ◆ Protects farmland from permanent solar or other development
- ◆ Protects farmland access for farmers leasing land as well as for new farmers
- ◆ Provides strong incentive for exiting farmers to transition land to another farmer to maintain on-site agricultural activity
- ◆ Provides income diversification and improved income stability
- ◆ Panels can improve moisture retention in soil and plants in times of high heat and low precipitation,\* leading to:
  - Reports of increased yields for some vegetables under dual-use arrays (including potatoes, celery, kale, and others)\*\*
  - Increases in pasture grass biomass under arrays during summer months as compared to areas in full-sun\*
- ◆ Panels can reduce heat-stress in livestock by providing added shade in summer
- ◆ Protects the land's potential for increased carbon sequestration

American Farmland Trust's (AFT) mission is to save the land that sustains us by protecting farmland, promoting sound farming practices, and keeping farmers on the land. AFT supports accelerated solar development and believes that, with proper planning and siting, our agricultural lands can also play a meaningful role in hosting solar energy while maintaining active, productive agriculture. **However, AFT does not support solar siting that converts farmland or displaces agriculture from the landscape.**

\* Remarkable agrivoltaic influence on soil moisture, micrometeorology and water-use efficiency. Adeh, Selker, & Higgins. PLOS One <https://dx.plos.org/10.1371/journal.pone.0203256>

\*\* Agrophotovoltaics: High Harvesting Yield in Hot Summer of 2018. Fraunhofer ISE. [https://www.ise.fraunhofer.de/content/dam/ise/en/documents/press-releases/2019/1019\\_ISE\\_e\\_PR\\_Agrophotovoltaics.pdf](https://www.ise.fraunhofer.de/content/dam/ise/en/documents/press-releases/2019/1019_ISE_e_PR_Agrophotovoltaics.pdf)



# Co-Location of Agriculture and Solar: Opportunities to Improve Energy, Food, and Water Resources

Jordan Macknick  
JISEA Annual Meeting  
March 14, 2019



## InSPIRE Project Overview

Low-impact site preparation  
Pollinator and native vegetation solar  
Solar-agricultural co-location

Department of Energy Funded (2015-2021)  
Extensive Industry Partnerships  
Field and Analytical Modeling Work

# Benefits of Low-Impact Solar Development for Energy, Water, and Agricultural Resources

- Energy

- Improved solar PV efficiencies due to cooler microclimate underneath panels
- Reduced O&M costs
- Reduced construction and acquisition/permitting costs

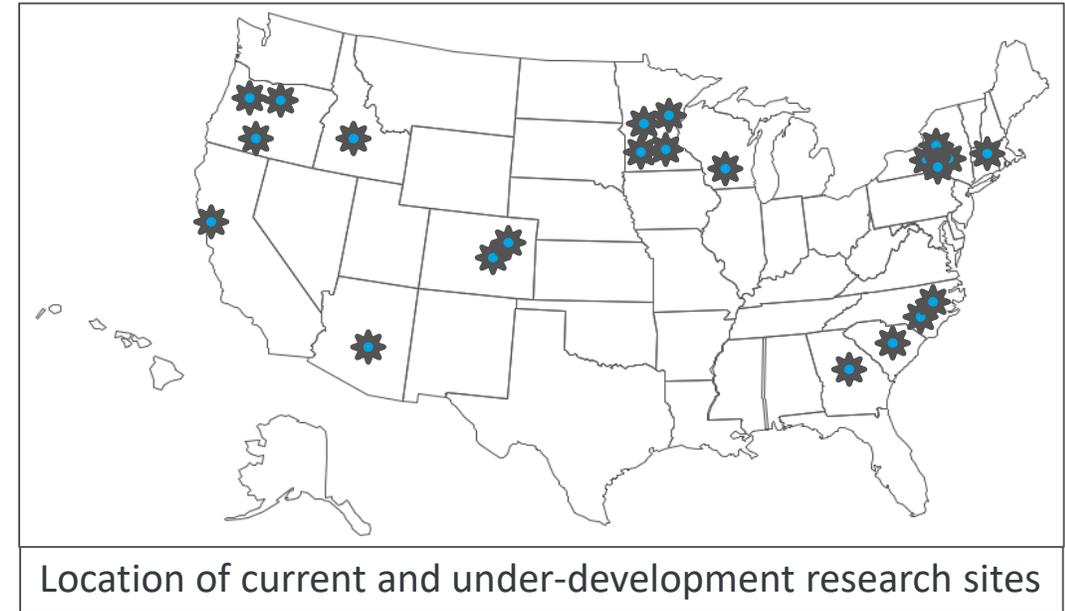
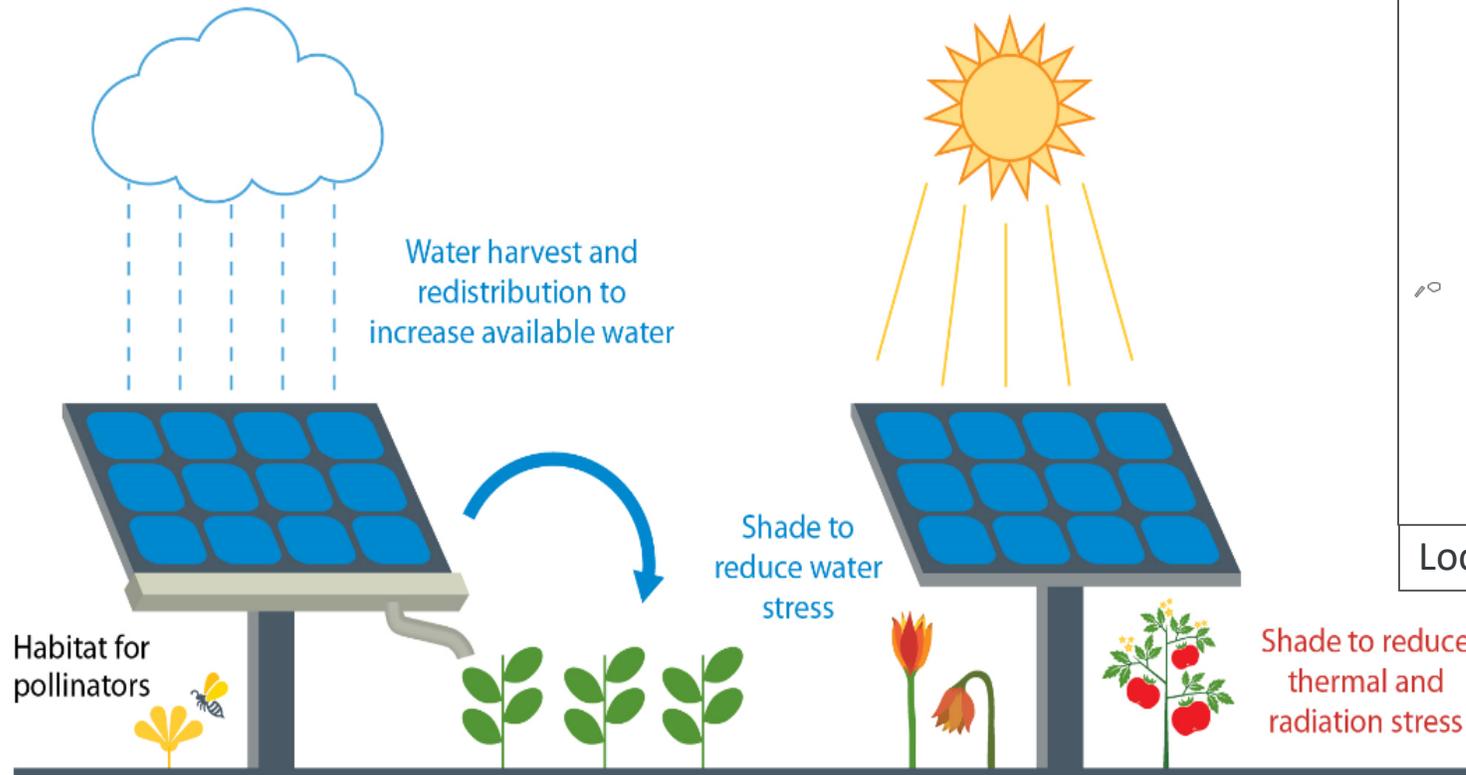
- Water

- Reduced evaporation
- Reduced runoff
- Improved water use efficiency of crops and pollinator habitat

- Agriculture

- Compatibility with crop production and livestock
- Pollinator habitat can improve local agricultural yields
- Improved soil health

# InSPIRE Project Overview



Field-based research across multiple sites is driven by key scientific questions to provide foundational insights that will support economic, environmental, and agricultural evaluations of solar-agriculture co-location. Research topics include:

- (1) Economic viability of solar-agriculture co-location configurations. (*University of Massachusetts-Amherst and Minnesota*)
- (2) Increasing agricultural yields in arid environments. (*University of Arizona Biosphere 2 and Colorado State University*)
- (3) Energy, water, and food security in remote, off-grid areas. (*Puerto Rico and Indonesia*)
- (4) Pollinator habitat and ecological services (*Cornell University, Illinois, and Minnesota*)

# Specific research activities for field studies

Study Design



Crop Planting



Data Collection and Analysis



Harvesting



Soil Carbon

Temperature Probe

Relative Humidity Probe

Rain Gauge



Datalogger

Soil Heat Flux Plate

Wind Anemometer

Soil Thermocouple

Pyranometer

*Armstrong et al., 2016*

Soil Moisture Reflectometer

PV Panel Thermocouple

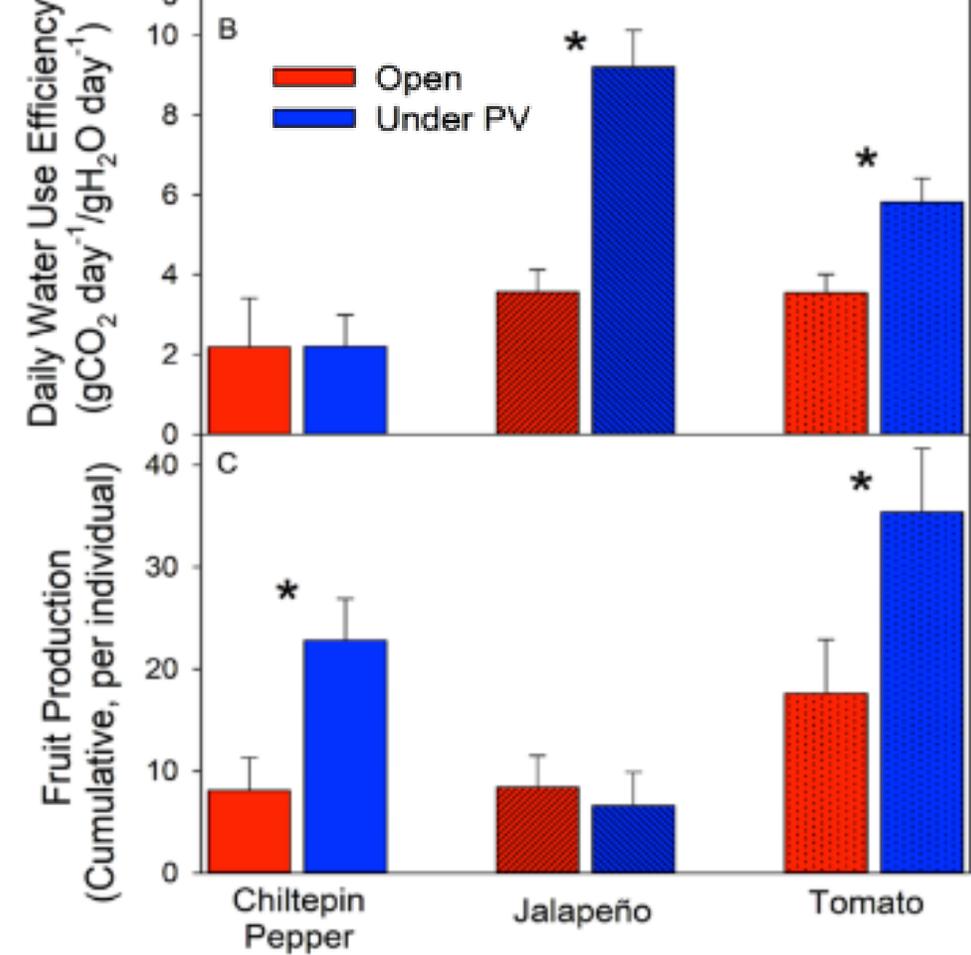


## Key Highlight: Co-Location can lead to Higher Crop Yields with Less Water

Arizona co-location facility: higher yields, less water, longer growing season

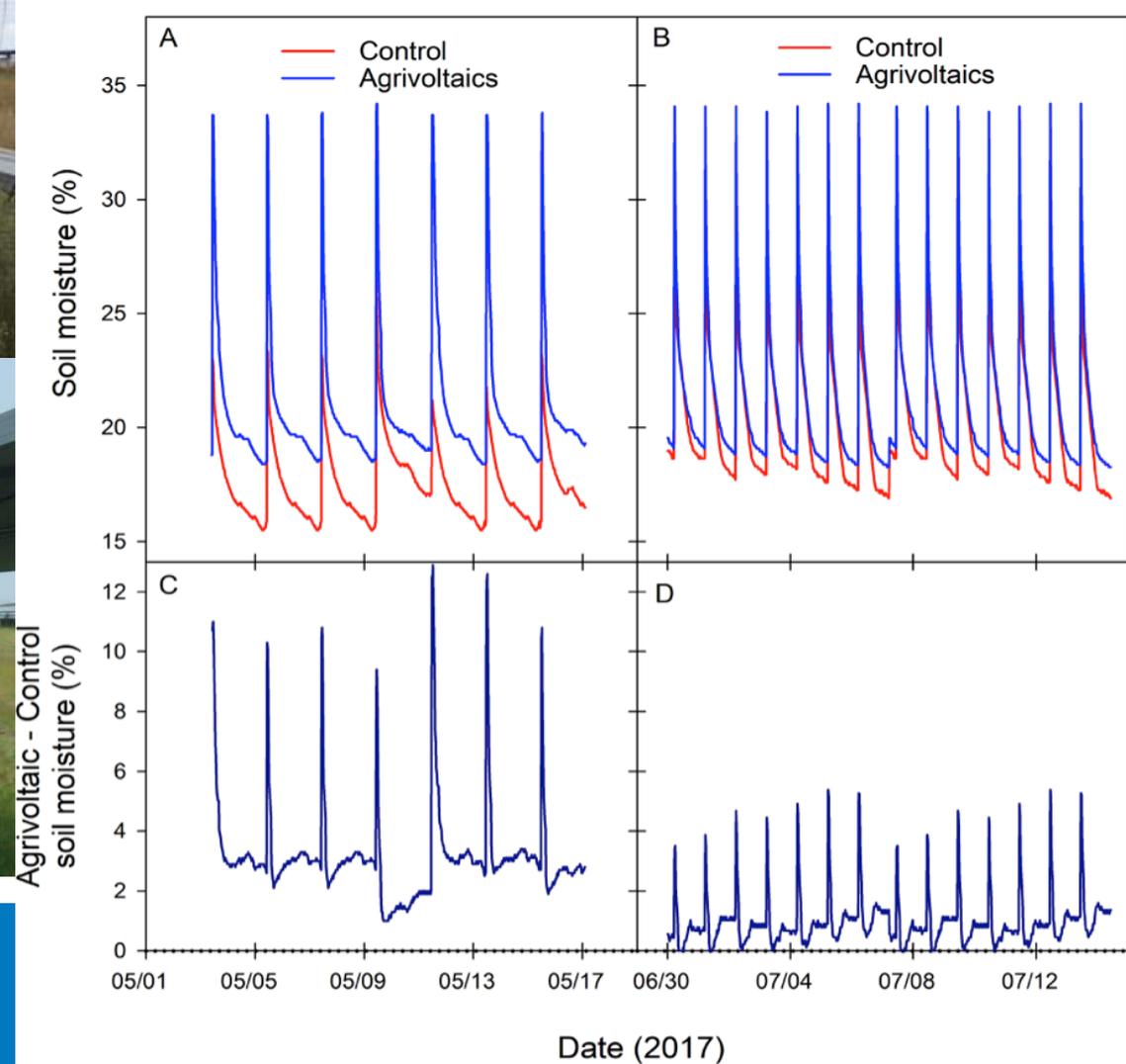
Massachusetts co-location facility: higher yields in hot, dry years

New sites planted or under development in Colorado, Oregon, Puerto Rico, United Arab Emirates, and Indonesia





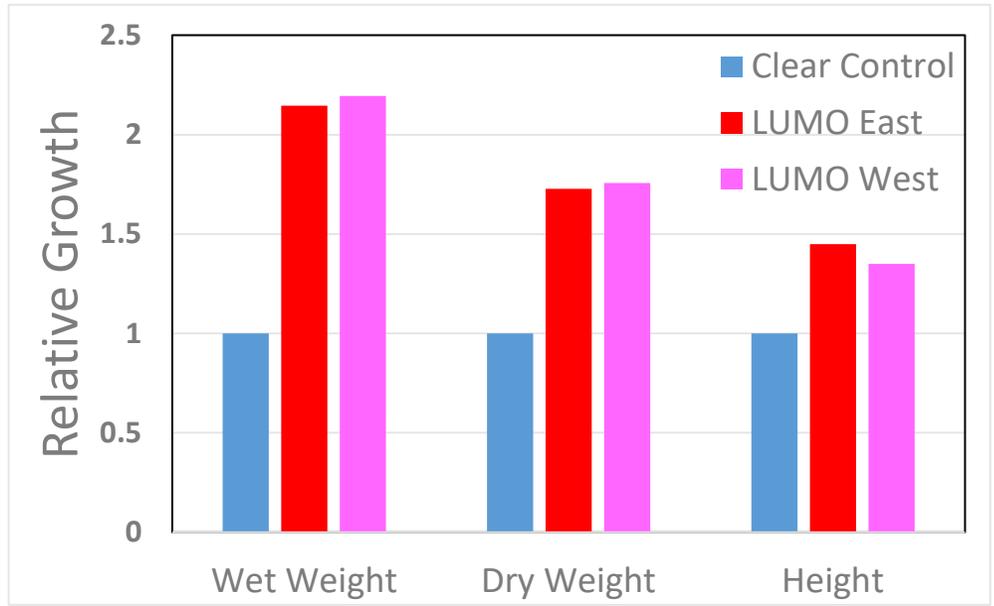
## Key Highlight: Vegetation under PV can Improve Soil Moisture Retention



Higher soil moisture in solar array area than in non-shaded (non-solar) control area

Significant variation in soil moisture levels depending location within array (directly underneath panels, in between rows, etc.)

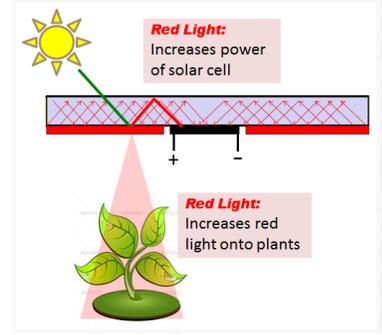
Improved soil moisture retention for vegetated groundcover PV than for non-vegetated groundcover PV



## Key Highlight: Solar-Integrated Greenhouses can Improve Yields



**SOLICULTURE**



*Chervil: annual herb related to parsley with a delicate anise-like flavor*

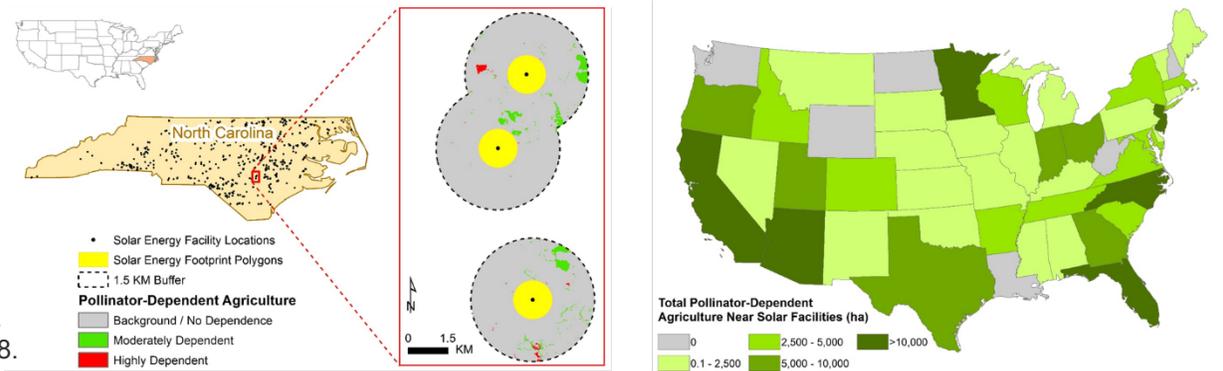
Plants that received the altered light spectrum of LUMO in the late afternoon performed significantly better than chervil grown under a greenhouse with clear covering.



# Key Highlight: Pollinator-Friendly Solar



Over 860,000 acres of agricultural land would benefit if existing solar facilities had pollinator-friendly vegetation



[Examining the Potential for Agricultural Benefits from Pollinator Habitat at Solar Facilities in the United States.](#)  
 Leroy J. Walston, Shruti K. Mishra, Heidi M. Hartmann, Ihor Hlohowskyj, James McCall, Jordan Macknick 2018.  
 Environmental Science & Technology Vol. 52 (13) 3 July 2018 pp. 7566-7576.



## Pine Gate Renewables, Old Sol Apiaries create largest solar farm apiary in America

By Kelsey Misbrener | June 15, 2018

Utility-scale solar developer Pine Gate Renewables, headquartered in Charlotte, North Carolina, is pleased to announce that honey bees are now living on Eagle Point solar farm in Jackson County, Oregon, thanks to the company's SolarCulture Initiative. SolarCulture is a Pine Gate environmental stewardship initiative that promotes sustainable agriculture and collaborations with the community to support research for smarter solar development.



## Key Highlight: Solar-Powered Honey Production

- Hives can be located in or outside of project fence
- Innovative branding and marketing opportunities
- Ongoing work evaluating honeybee and native bee preferences



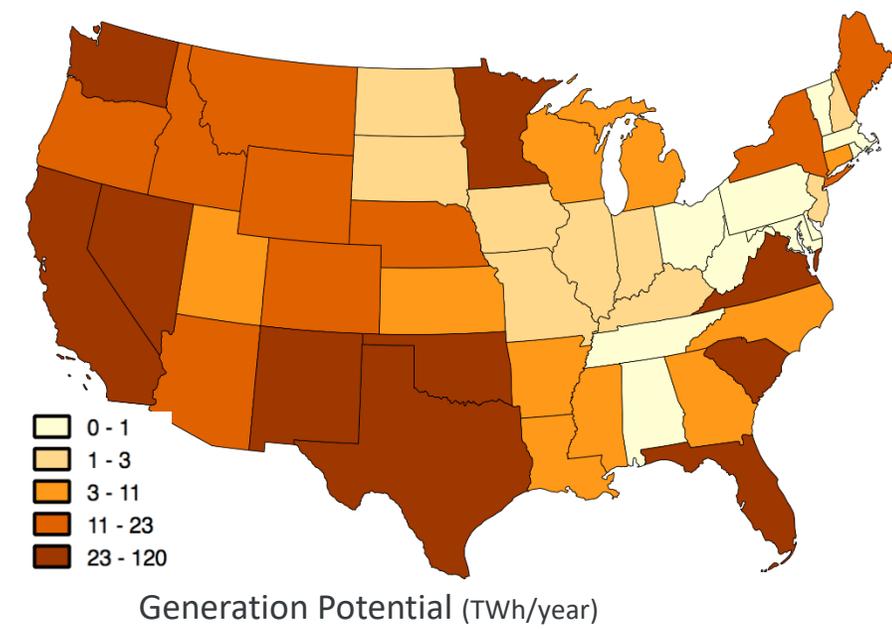
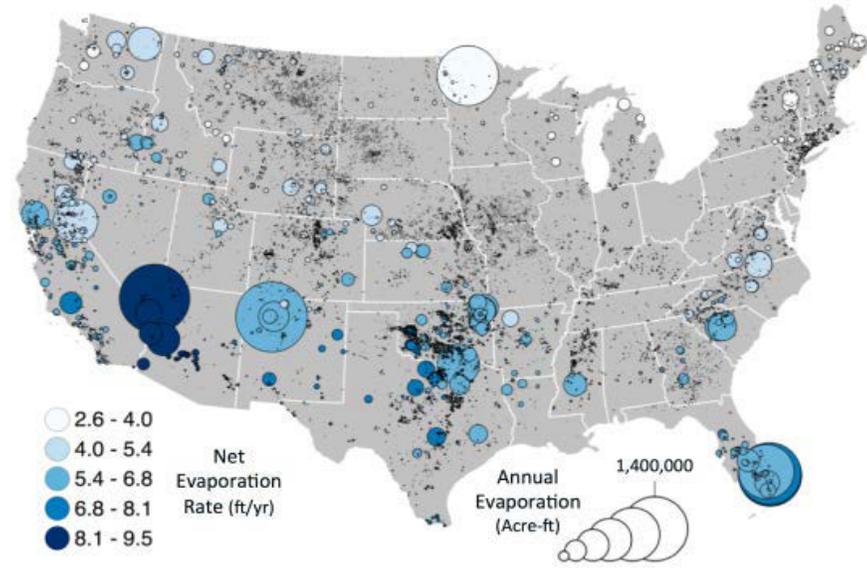
## Key Highlight: Solar-Integrated Grazing

Sustainable grazing practices can improve soils  
Cost reductions from standard mowing practices  
Ongoing work evaluating pastureland performance



## Key Highlight: Floating Solar on Agricultural Reservoirs

Siting on reservoirs can reduce evaporation and algae growth  
 Avoid conflicts with land used for agriculture  
 Recent NREL study identified over 25,000 man-made reservoirs that could supply 10% of U.S. power



[Floating Photovoltaic Systems: Assessing the Technical Potential of Photovoltaic Systems on Man-Made Water Bodies in the Continental United States](#), Robert S. Spencer, Jordan Macknick, Alexandra Aznar, Adam Warren, and Matthew O. Reese. *Environ. Sci. Technol.*, 2019, 53 (3), pp 1680–1689

NREL | 12



## Atwater-as planted

Total research area: 3.2 acres



1. Core vegetation test plots (8 seed mixes, randomly assigned in triplicate)—0.26 acres x2 sites = 0.53 acres (Seed Mixes: Z, Y, X, W, V, U, T, S)
2. Wetlands mixes (3 different mixes)—0.27 acres (Seed Mixes: Z, X, V)
3. Cover crop variations (top=no cover crop; bottom=yes cover crop)—0.09 acres (Seed Mixes: Z)
4. Mycorrhizal inoculation variations (top=no inoculation; bottom=yes inoculation)—0.09 acres (Seed Mixes: Z)
5. Stratification/planting variations (top=no stratification, fall planting; middle=no stratification, spring planting; bottom=stratification, spring planting)—0.09 acres (Seed Mixes: Z)
6. Mowing variations (top=no mowing; bottom=yes mowing)—0.09 acres (Seed Mixes: Z)
7. Spot spray variations (top=no spot spraying; bottom=yes spot spraying)—0.09 acres (Seed Mixes: Z)
8. Native pollinator plot—0.18 acres (Seed Mixes: Y, W, U)
9. Hydromulch control—1.4 acres
10. No shade control plots for 8 core seed mixes—0.12 acres (Seed Mixes: Z, Y, X, W, V, U, T, S)
11. Non-planted test plot—0.09 acres

## Key Highlight: Education through field research

Educational benefits through internships, field trips, work experience, tours

Elementary school through PhD students

State agency, academic, and professional training



# New York Pollinator-Friendly Solar Bill Unanimously Passes Assembly and Senate

06.11.18 // Shachar Sharon

New York League of Conservation Voters  
(212) 361-6350

For Immediate Release: June 11, 2018  
Contact: Shachar Sharon

**New York Pollinator-Friendly Solar Bill Unanimously Passes Assembly and Senate, Healthy Pollinators from Solar Sites to Benefit Crops**

*Low-growing and flowering meadows of deep-rooted native plants to benefit honey bees, native pollinators, birds, and enrich agricultural soils*

[High-resolution photo courtesy Prairie Restorations, Inc.](#) Caption: Pollinator-friendly solar arrays provide urgently needed habitat for honey bees and native pollinators.

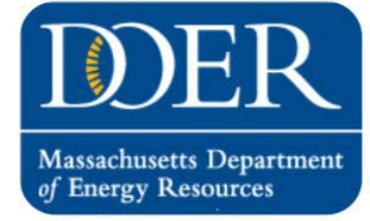
## Enel, NREL partner on three-year solar vegetation study



## In bid to help bees, Xcel to require vegetation disclosure in solar RFPs



## Organic Valley Announces Next Phase of Community Solar Partnership To Become 100 percent Renewably Powered in 2019



**Solar Massachusetts Renewable Target (SMART) Program**



## PRESS RELEASE: ILLINOIS POLLINATOR-FRIENDLY SOLAR ENERGY BILL PASSES, ADDS MOMENTUM TO SOLAR ENERGY DEVELOPMENT

# Key Highlight: Broad Stakeholder Impacts

- Pollinator-Friendly solar standards and scorecards
- State Agency partnerships and technical assistance
- Direct partnerships with solar and agricultural industry
- University initiatives

## Closing Thoughts

- There are many opportunities for synergies between agriculture and solar energy development
- Solar projects can be designed and constructed in ways that improve energy, water, and agricultural resources
- Low-impact designs can lead to reductions in some upfront and O&M costs for solar developers, while also increasing solar energy output
- There are many innovative configurations that can be employed and that still have not been tested

# Thank you

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<https://openei.org/wiki/InSPIRE>

NREL/PR-6A50-73696

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