



# Verona Solar

Open House

July 2023

# World's Leading Privately Held Renewable Energy Company

## RENEWABLE PROJECT DEVELOPMENT CORE BUSINESS

**Invenergy**  
Renewables

**Our Foundation**  
Developing and operating  
the technologies of the  
renewable energy future



### Wind

105 projects  
16,695 megawatts



### Solar

43 projects  
5,061 megawatts



### Storage

16 projects  
871 megawatt hours  
300 megawatts



### Transmission

1,500+ miles  
operating or under  
contract

## Our Invenergy Impact



### 10% veterans

Percent of Invenergy's U.S.-based  
workforce who are military veterans  
or reservists



### \$1.2 million

Given to different cause-based  
organizations in 2019, focusing  
on veterans, education,  
emergency services &  
environmental stewardship

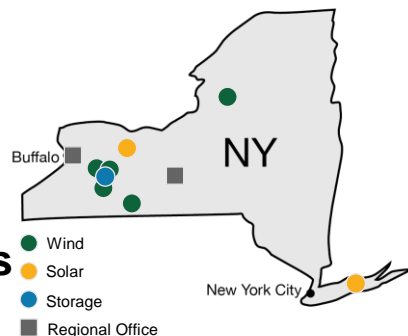


### \$216 million

Total 2019 local economic  
investment in wages & benefits,  
lease payments, and state &  
local taxes

# Invenergy in New York

**Eight Projects | 1,100 Megawatts**



**\$2.7 million**  
invested annually in local taxes



**\$4.2 million**  
in annual land and lease payments



**\$1.6 million**  
paid in annual wages and benefits



**5 wind projects**  
totaling 668 megawatts



**2 solar projects**  
totaling 205 megawatts



**1 storage project**  
totaling 20 megawatts



**261,000 American homes**  
powered through electricity generated



**33 employees**  
including our New York regional offices (16) and operations & maintenance full-time staff (17)



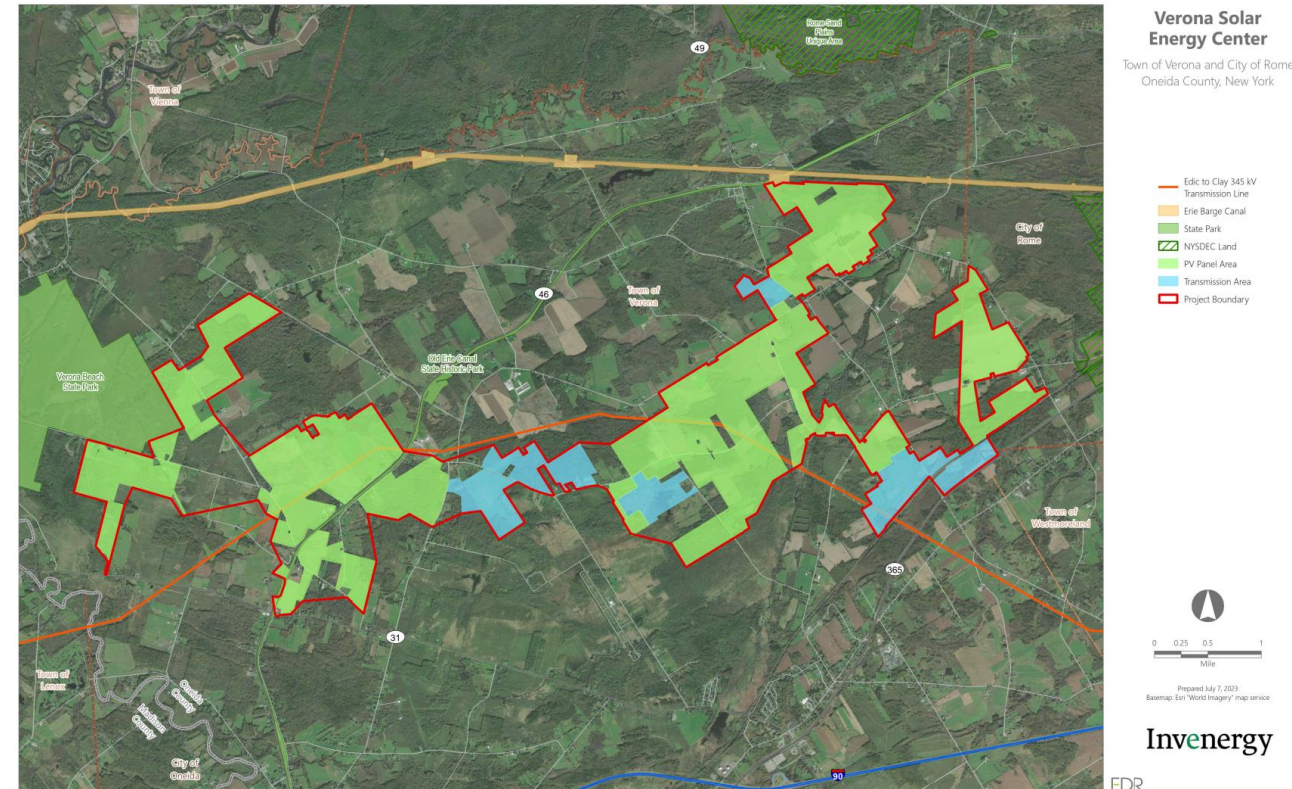
**6 New York counties**  
including Allegany, Lewis, Livingston, Steuben, Suffolk and Wyoming Counties



**Annual donations**  
to local education, emergency & veteran services, and environmental stewardship

# Verona Solar Facility Description

- Up to 250-Megawatt (MW) solar facility
- Town of Verona and City of Rome in Oneida County, New York
- The project will be located on land leased or purchased from private landowners situated across a subset of approximately 3,800 acres
- The proposed POI is a tap into NYPA's Edic-Clay 345kV system



Represents Preliminary Areas Being Studied for Panel Placement – Subject to Change

# Verona Solar

## Environmental and Economic Benefits

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**250 MW** is enough electricity to power more than **47,000 American homes**



More than **\$110 million** invested in tax revenue, land costs, and lease payments



Up to **400 jobs** supported throughout construction



Up to **250 megawatts** of renewable energy



Emissions reductions equivalent to **159 million** trees planted



Up to **3 full time** operations & maintenance staff

# Permitting and Project Studies

# Verona Solar

## Application and Timeline

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Verona Solar intends to submit a 94-c application to the Office of Renewable Energy Siting (ORES) in Q1 2024.



### Anticipated Timeline

- 94c Application Filing – Winter/Spring 2024
- Start of Construction – Spring 2026
- Target COD – Winter 2027

# Verona Solar

## Ongoing Studies & Surveys

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**Prior to formal application submittal, Invenergy will complete:**

- Wildlife/Bird Surveys
- Wetland Delineations
- Cultural Resource Studies
- Noise and Visual Impact Assessments
- Transportation Studies
- Geotechnical Surveys
- Detailed Engineering Design



# Verona Solar

## Local Agency Account Funds

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**Intervenor Funding.** Local Agency Account Funds, otherwise known as intervenor funding, are funds that are made available to qualified, locally affected parties and municipalities to offset certain qualified expenses that they incur in participating in the 94-c permitting process.

**Rates.** With the filing of its 94-c application, Verona Solar will submit the required local agency account fee equal to \$1,000 for each MW of capacity. These funds can be sought by local agencies and community intervenors; however, 75% will be reserved for local agencies (including host municipalities).

**Qualification.** If any local agency (including a host municipality) or potential community intervenor<sup>1</sup> wants to apply for a portion of the project's local agency account funds, it must submit a request for initial funding no later than thirty (30) days after the 94-c application is filed.

**Request Submission.** Such request should be made to the Office of Renewable Energy Siting, Attention: Request for Local Agency Account Funding, either by mail or electronic mail. The form for requesting local agency account funds can be found at: <https://ores.ny.gov/resources>, including instructions on how and where to submit it.

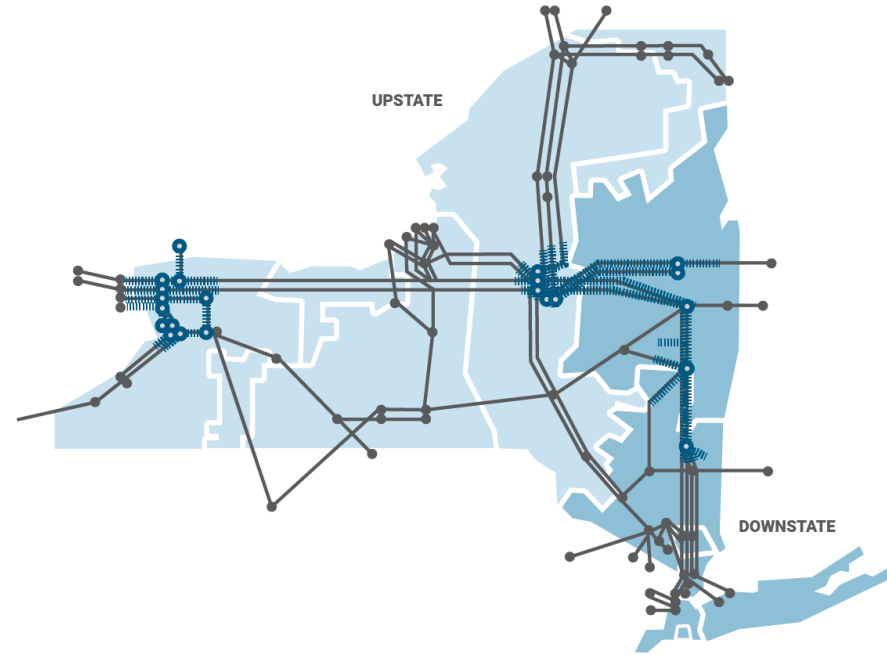
# Solar Siting and Agriculture

# Verona Solar

## Siting Constraints

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- Environmental Factors
  - Wetlands
  - Wildlife
- Existing Infrastructure
- Areas of Cultural Significance
- Topography
- Landowner Interest and Participation
- Access to Transmission Infrastructure



Years of consultation and studies to understand the potential impacts and to design a project that maximizes local benefits while protecting resources

# Verona Solar

## Solar Siting and Agriculture

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- Solar siting tends to occur on previously cleared, flat land which is often agricultural
- Solar leases provide long-term, stable revenues to farmers
- Portions of ag land converted temporarily to solar can allow soils to regenerate, decrease runoff, increase biodiversity and provide habitat. Projects follow NYSDAM decommissioning standards.
- Solar & agricultural co-location being adopted all over the world
- Co-location benefits NYS food production and energy goals

# Verona Solar

## Agriculture

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Solar is beneficial to agricultural communities as a temporary conversion that allows soils to regenerate, decreases runoff, increases biodiversity, and provide habitat. Solar can support agriculture through:

### Sheep grazing

- Sheep products are predominantly imported from Australia and New Zealand
- Opportunity to grow a NYS commodity

### Pollinator support

- Managed pollinators on site can increase soybean yield 18-40%
- 23% of agricultural production in the US including half of the primary crop types, come from pollinator-dependent crops

### Lease Revenues

- Diversify farm revenues to bolster continued operation

### Follow Ag & Markets decommissioning protocol

- A protection for farmland that other developments, including housing, do not offer



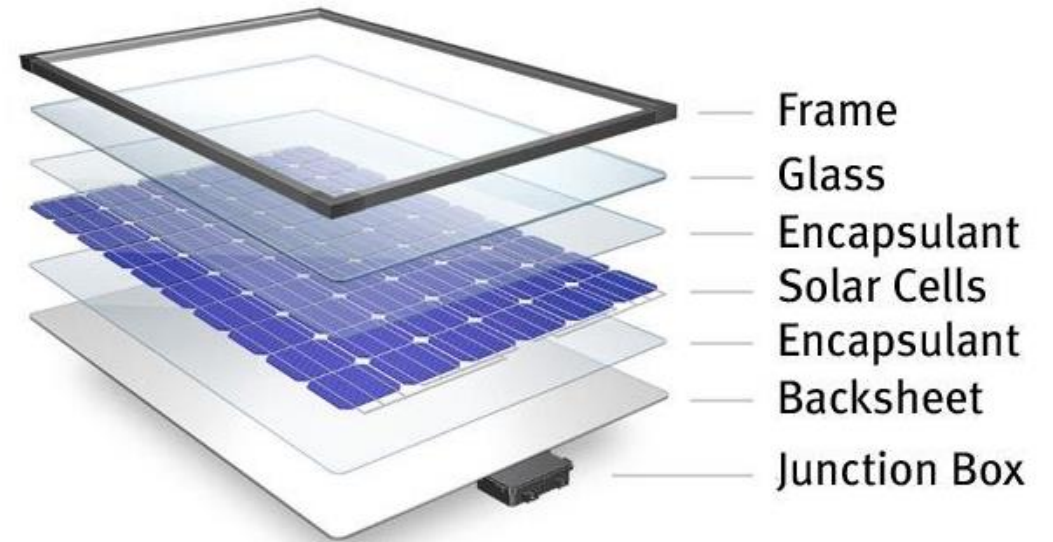
# Solar Engineering

# Verona Solar

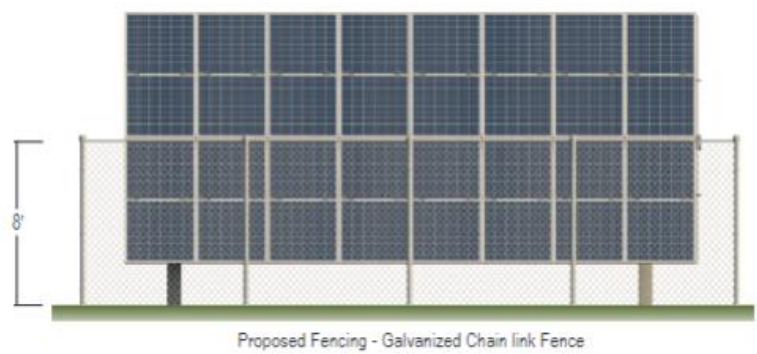
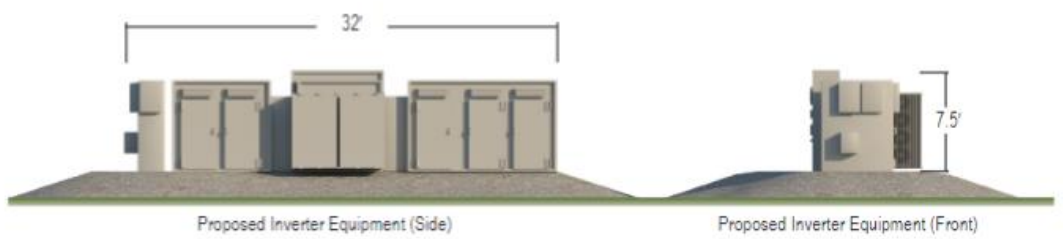
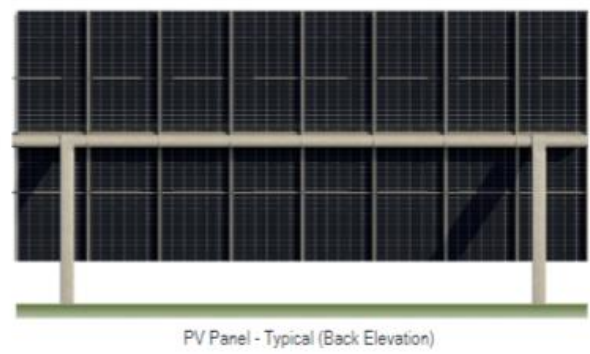
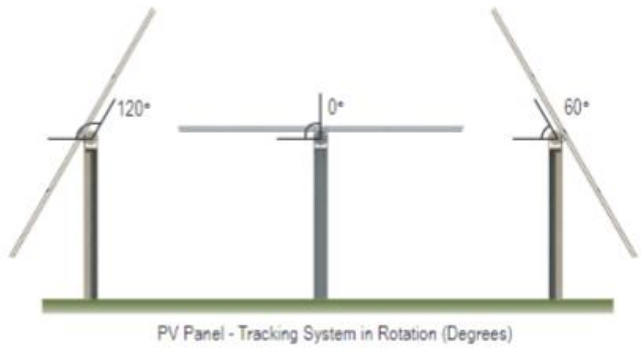
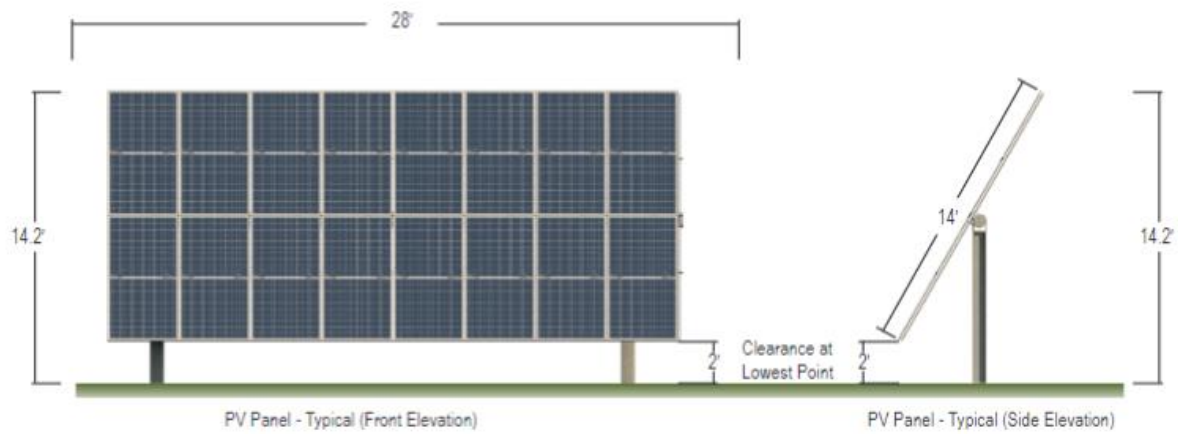
## Bi-Facial Solar Modules

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- Solar panels are made of glass, aluminum, copper, and other common materials.
- Solar panels are safe to touch, attach to your home or install in your neighborhood. Solar panels have been attached to houses, hospitals and airports for decades.
- While there are different kinds of solar panels, the most common are made of silica – the second most abundant element on earth after oxygen. The faces of silica panels are similar in substance to standard household glass.
- Verona Solar will utilize panels that will pass the EPA's Toxicity Characteristic Leaching Procedure (TCLP) test and do not contain heavy metals.



# ( PV Panel | Typical Equipment )





# Verona Solar

## Single Access Tracking System

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- Follows the sun throughout the day to harness energy at the optimal angle.
- The project will likely utilize a '1 in portrait' configuration.
- Accommodates variation in ground cover plant species and allows for additional agricultural features.
- Total height of the panels and racking system will not exceed 20 feet (anticipate 15 feet at the most extreme tracking position).



# Verona Solar

## Other Project Components

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The project will also include associated support facilities such as access roads, buried electrical collection lines, inverters, and a collection substation.



# Verona Solar

## Construction Overview

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- The project will take approximately 12-24 months to construct.
- Construction will begin with any clearing and grading
- Steel piles will be driven into the ground to support the racking systems.
- Panels will be hung on the racking system. An inverter will be installed per block of panels to convert the electricity from DC to AC.
- Electricity will flow to the new project substation where it will be stepped up to be put onto the grid at the interconnection substation.
- Invenergy works with local governments to restore roads to same or better condition as preconstruction.



# Verona Solar

## Operations Safety and Security

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- Verona Solar will develop an Emergency Response Plan in coordination with local first responders.
- We will provide on site training during construction and once per year during operations.
- Invenergy Services employees are required to undergo 48 hours of safety training annually.
- Measures to prevent unauthorized site entry and unsafe practices will be implemented during the construction and operation of the facility.



# Verona Solar

## Decommissioning

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After the operational life of the project:

- The project owner will be responsible for restoration of the land.
- The removal of the facilities will be the responsibility of the project owner. There will be a decommissioning bond in place to ensure the funds are available for the removal of the facilities.



**Get in touch!**

# Verona Solar

## Contact

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Additional information, including maps of the project facility and information about Verona Solar and Invenergy can be found at [veronasolar.invenergy.com](http://veronasolar.invenergy.com).

Invenergy

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sustainable world.**

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