



County of Albany Solar Project



New York Climate Leadership & Community Protection Act (2019)

Albany County supporting Governor's target of 10GW of distributed solar PV by 2030.





Solar project at 897 Watervliet Shaker Road

- County of Albany engaged New York Power Authority (NYPA) to lead a solicitation seeking partners to develop solar projects on County property.
- Siemens was selected to develop a solar project at the Radar Tower Site at 897 Watervliet Shaker Road.
- Proposed project is 2.1MW solar PV that will generate 2,599,000 kWh per year.
- Project will sit on five acres of land at the radar tower site.
- Albany County will purchase all electricity under a 25-year Power Purchase Agreement.

NEWS

Albany County proposes Colonie solar farm

Project would be built near Albany International Airport

Steve Hughes

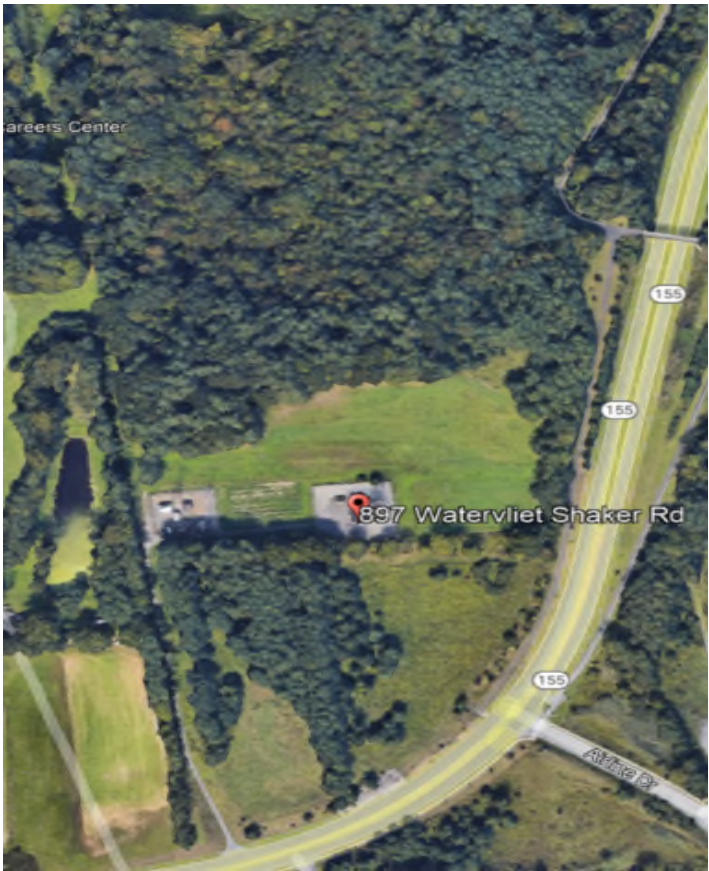
Sep. 16, 2021 | Updated: Sep. 17, 2021 2:39 p.m.



Albany County is considering building a solar farm on a 33.9 acre property that the county owns in Colonie.
Andrew Altschorn/Corbis via Getty Images

COLONIE — Albany County is looking to build a solar farm near Albany International Airport that could meet up to a third of its annual electrical demand.

Solar project at 897 Watervliet Shaker Road





Development milestones and schedule

Agency	Approved	Date
The County of Albany Resolution 14- Agreement with NYPA to develop project with Siemens	Yes	2/10/2020
The County of Albany Local Law 11- Permitting long term Power Purchase Agreements	Yes	12/28/2021
NYS Environmental Quality Review Act (SEQR)	Yes	6/13/2022
NYS Office of Parks Recreation and Historic Prevention (OPRHP-SHPO Historic/Archaeological)	Yes	9/12/2022
National Grid Coordinated Electrical System Interconnect Review (CESIR)	Yes	1/3/2023
Federal Aviation Administration (FAA)	Pending approval	
NYS Department of Conservation- State Pollutant Discharge Elimination System Permit (DEC-SPDES)	Obtained before construction	
County Legislative Approval (estimated)		May 2023
Construction Start Date (estimated)		June 2023
Commercial Operation Date (estimated)		May 2024



Why was this site selected: Benefits of Radar Tower site

1. No other uses allowed due to FAA radar tower.



Preserves other land for higher-value uses.

2. Removal of invasive species such as Black Locusts.



Replaces invasive species 1-for-1 with native trees and pollinators.





3. South-facing for maximum solar production.



Maximizes value of solar to the County.



Decarbonization benefits of solar project at 897 Watervliet Shaker Road

System size	2.06MW		
Production	2,599,000kWh/yr		
Carbon Reduction	1,429 Tons of Carbon Dioxide reduced ¹		
Reduce CO ₂ Emissions equivalent to ²	252	homes' electricity use for one year [?]	
	1,434,764	pounds of coal burned [?]	
	21,442	tree seedlings grown for 10 years [?]	
	127,385	gallons of diesel consumed [?]	

1. Based on NYSERDA's reported current state-wide marginal emissions factor of 0.55 Short Tons CO2 per MWh.
2. From [epa.gov/energy/greenhouse-gas-equivalencies-calculator](https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator)



Economic benefits of solar project at 897 Watervliet Shaker Road

- Solar project will provide Albany County with 2,599,000 kWh per year of clean, renewable electricity.
- Power Purchase Agreement (PPA) pricing below expected utility electric bill credits for the power, providing estimated ~\$210k in long-term value to County based on current prices.
- Payment in Lieu of Taxes (PILOT) allows municipalities to override solar tax exemption providing revenue to Town of Colonie, Albany County, South Colonie Central School District.
- Fixed-price PPA pricing provides long-term budget certainty for the County.
- Reduces County's dependence on electricity from high and volatile-priced fuels such as natural gas and coal.



Community benefits of solar project at 897 Watervliet Shaker Road

- Siemens partnering with Shaker Heritage Society to replace the roof on the Shaker Meeting House at the Church Family Site, estimated at \$35,000.
- Stem-to-Workforce Collaboration;
 - BOCES school will be provided access to dashboard showing solar project performance
 - Site visits will be arranged for BOCES students during construction and operations and maintenance activities.
- Construction jobs supporting local economy.



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Learning



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Workforce



Visual Representation- View from Watervliet Shaker road (looking Northward)





Visual Representation- View from existing asphalt pedestrian path (looking westward)





lex Glabra— Inkberry



Juniperus communis- Common Juniper



Aronia Melanocarpa- Black Chokeberry



~~Amelanchier Stolonifera- Serviceberry~~



Cornus Sericea 'Bailey'
Red-Twig Dogwood



**Cornus Sericea 'Flaviramea' -
Yellow-Twig Dogwood**



Hydrangea Quercifolia- Oakleaf Hydrangea



Itea Virginica—Virginia Sweetspire



Myrica Pensylvanica- Northern Bayberry



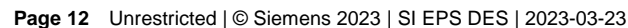
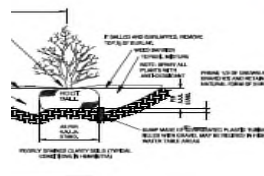
Physocarpus Opulifolius- Eastern Nineb



Rhus Aromatica- Fragrant Sumac



Viburnum Dentatum—Arrowwood Viburnum



There are three ways to provide feedback:

- At a public meeting
- Fill out a comment form
- Via email to: ACSolarProject@AlbanyCountyNY.gov

Thank you



Thank you



Lucas Rogers

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