

# NORWICH UNION VILLAGE COMMUNITY SOLAR

## CASE STUDY



Fairlee, Vermont



### PROJECT SUMMARY

The Norwich Union Village Solar Project (NUVSP) in Vermont went online in August. It is a **mixed-use community residential and commercial project**, half-owned by a total of sixteen households within the community and half by an investor.

It was designed, permitted, built, and will be operated by Norwich Solar Technologies (NST).

NUVSP is one of only a few mixed residential and commercial community solar projects in Vermont.

The residential community members who signed on to the project were participants in a Solarize Norwich campaign that was promoted by the **Norwich Energy Committee (NEC)**.

Linda Gray, a NEC member, has led a Solarize Norwich campaign every year since 2012, typically seeing 25 to 30 households get solar systems as a result.

The Town of Norwich has one of the highest percentages (25%) of households (325 out of 1,300) that have adopted solar. Gray says that developing a mixed-use community solar project is more difficult than simpler solar systems because of all the different coordination that must be done.

### SYSTEM CAPACITY

214-Kilowatts DC/150-Kilowatts AC

### TYPE OF SYSTEM

- Ground-Mounted

### TECH DATA

(648) Risen Energy 330-watt Modules

(12) Fronius Primo Inverters

RBI Next Gen Racking

### COMMISSIONING DATE

- September 2019, Norwich, Vermont



Norwich, Vermont



15 Railroad Row, White River Junction, VT 05001  
(802) 281-3213 [norwichsolar.com](http://norwichsolar.com) [info@norwichsolar.com](mailto:info@norwichsolar.com)



# NORWICH UNION VILLAGE COMMUNITY SOLAR CASE STUDY

## ENVIRONMENTAL & COST SAVINGS AT-A-GLANCE



Annual Solar Electricity Production  
**262,200 KWH**



Lifetime Benefit  
**\$286,000**



Est. 25-yr CO<sub>2</sub> Offset  
**4,800 METRIC TONS**



Equivalent Trees Planted over 25 years  
**57,000**

*Offset estimates based on 50K lbs. of carbon offset or 579 trees planted per kW over the Solar PV system's 25-year life.*

### FINANCING

As one of NST's **Community Impact Investors** worked with NST to set up a limited liability corporation as the investor for the commercial half of NUVSP. It is supplying electricity credits from the project to the **Norwich Fire District** and the **Town of Fairlee** through net-metering. Because the solar credits are being sold under a long-term contract to municipal entities, the investment is low risk and qualifies for low bank interest rates. The off-takers, owners, builders, and others involved are local to Norwich, Vermont.



### ABOUT COMMUNITY SOLAR

Community Solar offers an option for participants who do not own their home or business location, do not have a suitable solar site. Community Solar is also a great option for individuals and businesses who want to own, support, and benefit from local clean energy generation but prefer to have their solar system at a centralized location.

Participants either buy and own some of the solar panels, then receive a monthly credit on their electric bills, or work with companies such as Norwich Solar Technologies to lease panels in the system or purchase a portion of the power the array generates.



### ABOUT NORWICH SOLAR TECHNOLOGIES

We specialize in end-to-end solar services including Development, Design, Engineering, Procurement, and Construction, and Power Purchase Agreements. Our clean energy partners include Commercial & Industrial Clients, Schools, Municipalities, Farms, Communities, Industry, Health Care Facilities, and Small Businesses.



LEARN MORE AT  
[NORWICHSOLAR.COM](http://NORWICHSOLAR.COM)

15 Railroad Row, White River Junction, VT 05001  
(802) 281-3213 [norwichsolar.com](http://norwichsolar.com) [info@norwichsolar.com](mailto:info@norwichsolar.com)