

FARM & GRANARY™

ON DEER RUN LANE, WAWARSING, NEW YORK



THE BACKGROUND

Solar-electric power is generated from the conversion of sunlight into electricity through a photovoltaic (PV) or solar cell. Photovoltaics provide Power NaturallySM and reliably. While the initial system cost can be considerable, NYSERDA has introduced an innovative program to make PV systems

more affordable

and to encourage new PV installations through qualified system installers.

THE STORY

For Michael Siegel and Barbara Caldwell, harvesting solar energy just makes sense. At Farm & Granary, their 14 acre farm nestled between the Shawangunk Ridge and the Catskill Mountains in the Rondout Valley, they take the best of what is old and marry it to the best of what is new. Their certified organic heirloom vegetables and eggs represent a new direction in agriculture. Crops on their farm are intensively grown in raised beds and in high tunnels which extend the season in which Michael and Barbara bring great tasting sweet potatoes, yellow Brandywine tomatoes, and varieties of beets to market.

Knowing that assistance was needed to accomplish their goals, Michael and Barbara contacted NYSERDA which provided the needed assistance to make the photovoltaic dream a reality.

“It was only logical that we would look to natural sunlight to help us in our efforts to grow organic crops. NYSERDA helped us in our goal to use solar-electric energy in our farming efforts,” said Michael Siegel.

“We are making our farm a little “greener” by adding photovoltaic panels to our agricultural efforts,” said Barbara Caldwell.

For more information call 1-866-NYSERDA
or log on to www.PowerNaturally.org

Thanks to the NYSERDA Photovoltaic Incentive program, places like Farm & Granary can install affordable PV systems. It's part of NYSERDA's commitment to help make New York State more energy efficient and less dependent on fossil fuels.

THE TEAM

- **NYSERDA:** funding and coordination of the photovoltaic incentive program, through the New York Energy \$martSM program www.PowerNaturally.org
- **Hudson Valley Clean Energy, Inc.:** A NYSERDA "eligible installer" responsible for the design and installation of the Farm & Granary PV system www.hvce.com

THE SYSTEM

The system is comprised of 30 photovoltaic modules, 140 watts each. The DC (direct current) power produced by the solar modules is converted into AC (alternating current) for use by Farm & Granary. The total AC rated power of the system is 3.5kW. The total installed system costs are approximately \$34,200 and the NYSERDA incentive is \$16,800.

THE SAVINGS

The estimated annual output of the Farm & Granary system is **4,900 kWh.**

This system should **reduce the amount of energy purchased by about 85%.** Emissions of **CO₂** will be **reduced by 5,350 pounds annually.**

