

DARMSTADT OVERHEAD DOORS



THE BACKGROUND

Solar-electric power is generated from the conversion of sunlight into electricity through a photovoltaic (PV) or solar cell. Photovoltaics provide power naturally 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

Darmstadt Overhead Doors located in Kingston, New York has been a family-owned and operated business since 1974. In addition to the sales, service and installation of overhead doors for residential, commercial, and industrial clients, the company also sells hollow-metal doors, architectural hardware, rolling steel doors and grills, and loading dock equipment.

Ken Darmstadt, president of Darmstadt Overhead Doors was always interested in making his business self-sufficient. He also wanted to do his share to reduce both emissions and environmental impact. Darmstadt first learned about the benefits of solar-electric power through a trade magazine, but the price of installing a photovoltaic system was prohibitive. Then, John Wright and Jeff Irish of Hudson Valley Clean Energy told Darmstadt about financial incentives available through NYSERDA.

Darmstadt Overhead Doors and Hudson Valley Clean Energy partnered with the New York State Energy Research and Development Authority (NYSERDA) to design and install a photovoltaic (PV) system providing pollution-free electricity to the business, while reducing energy usage and bills.

Ken Darmstadt is pleased with the benefits provided by the system. He states that utilizing solar power is just a first step in making his company more energy efficient and environmentally friendly.

"We couldn't have done it without NYSERDA's help and financial assistance. I consider the PV system to be my contribution to a better environment."

**– Ken Darmstadt, President
Darmstadt Overhead Doors**

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

Thanks to the NYSERDA Photovoltaic Incentive program, places like Darmstadt Overhead Doors can install affordable PV systems. It's part of NYSERDA's commitment to help make New York State more energy efficient.

THE TEAM

- **NYSERDA:** funding and coordination of the PV 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 Darmstadt Overhead Doors' PV system.
www.hvce.com

THE SYSTEM

The Darmstadt Overhead Doors PV system covers just over 900 square feet of southwest-facing roof surface and is comprised of 90 photovoltaic panels, 165 watts each. The DC (direct current) power produced by the solar panels is converted into AC (alternating current) for use by Darmstadt. The total AC power is estimated at 14.4kW. The total installed system costs are approximately \$117,900 and the NYSERDA incentive is \$74,000.



THE SAVINGS

The estimated annual output of the Darmstadt Overhead Doors system is 15,000 kilowatt hours. This system should **reduce the amount of energy purchased by about 85%.**

Emissions of CO₂ will be **reduced by 16,380 pounds annually.**