

TOWN OF GREENBURGH



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

The Town Hall functions as the center of government for the Town of Greenburgh, population approximately 86,000, the largest town in Westchester County (the first county north of New York City). Greenburgh has been an Energy \$mart Community since February 2003 and actively conducts outreach to educate its residents and businesses about energy conservation/efficiency and renewable energy.

Town officials sought to install this 5.6 kW photovoltaic system primarily as a demonstration system to increase public awareness of the need for and benefits of renewable energy. The Town Hall's central location, high visibility and large number of visitors made it an ideal setting for this purpose. A monitor in the lobby displays real-time data about the system's

performance. The Town also benefits from the electricity produced by the system and the fact that it helps reduce the Town Hall's peak demand.

In order to first reduce the building's energy consumption, in early 2006 the Town Hall completed an energy-efficiency retrofit, installing new high-efficiency lighting and occupancy sensors.

"We hope that our solar demonstration project at Greenburgh Town Hall will encourage residents and businesses throughout the town to explore solar power and other energy alternatives, as well as to save energy," said Town Supervisor Paul Feiner. "We must reduce our use of fossil fuels and end our reliance on foreign oil. The town hopes to lead the way."

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

Thanks to the **NYSERDA Photovoltaic Incentive program**, places like the **Town of Greenburgh** 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 this PV project, and 11 other municipal PV projects, is a result of the settlement of a lawsuit by the New York State Office of the Attorney General (OAG) against the Virginia Electric Power Company (VEPCO). www.PowerNaturally.org
- **John Calhoun:** A PV consultant, responsible for assisting the Town of Greenburgh with the design and procurement of its PV system.
- **ETM Solar Works:** A NYSERDA "Eligible Installer," responsible for designing and installing the PV system. www.etmsolar.com

THE SYSTEM

The 5.6kW PV system, comprised of 34 PV modules, was installed on a south-facing, sloped, standing-seam roof of Town Hall, occupying approximately 479 square feet on the roof. Through a data acquisition system, a lobby display monitor provides real-time data on performance of the PV system.



THE SAVINGS

The Town of Greenburgh's PV system will generate approximately **6,840 kWh** of electricity annually (roughly the equivalent of the use of an average to large house).

Emissions of CO₂, the primary greenhouse gas, will be **reduced by an estimated 7,460 pounds a year.**