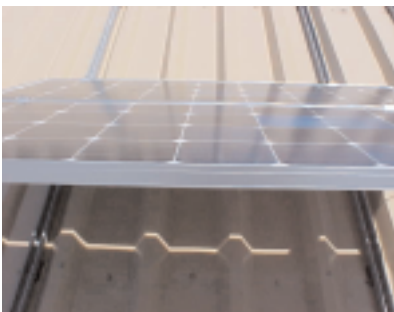


Case History

Katrina Mygatt Recycling Center Stamford, Connecticut



After evaluating multiple sites throughout the City for a solar demonstration project, the City of Stamford chose the Katrina Mygatt Recycling Center roof as the site to install a 7.92 kWp solar electric generation system. The appeal of the recycling center roof, which is 12 feet high above the recycling containers, was the visibility of the system. Visitors and residents can easily view all the photovoltaic panels, and walk around the corner of the on-site office to see the inverters, weather station, and data acquisition system.

The solar generated electricity will be used to power the energy efficient lighting system under the canopy roof, in addition to the small recycling center office. The system generates enough electricity during the daytime to power over 8 homes. This system will reduce the electric bill for the site, in addition to supplying excess electricity for the congested grid in Southwest Connecticut. The system was completed in September, 2004.

The system utilizes 3 strings of 22 PV modules in series for a total of 66 AstroPower AP-120, 120 Watt crystalline photovoltaic modules in series with 3 SMA SunnyBoy SWR 2500U, 2500 Watt DC to AC inverters. In addition, the system has a Sunny Boy Control Plus data acquisition system with a weather station for system performance information. The system operates in parallel to the Connecticut Light & Power utility grid.

The total cost of the installed system was \$68,850, with the Connecticut Clean Energy Fund providing \$30,950. The system was installed by altPOWER, a New York based firm specializing in solar installations. The installation and demonstration of clean, renewable power is important in cleaning our air, and reducing our dependence on fossil fuels, which contribute to global warming.

The City of Stamford has been focusing on energy efficiency throughout City facilities and schools for the past six years. Lighting and HVAC retrofits have saved over 3 million kilowatt hours, and \$350,000 in energy costs annually throughout City buildings. In the public schools, a \$6.1 million performance contract implemented by Noresco, and completed in the Spring of 2004, has significantly improved lighting, heating, air conditioning, and indoor air quality throughout the schools.

This project was made possible with funding from the Connecticut Clean Energy Fund's Photovoltaic Program which supports solar PV installation on commercial, industrial and institutional buildings. By investing in technology, creating supply, and educating consumers to demand clean energy, the Connecticut Clean Energy Fund strengthens Connecticut's economy, protects community health, improves the environment and promotes America's energy independence.