

Civic Case Study



Project Profile

This 11.5 kW solar electric system was installed by **SolarCraft** at the newly constructed Fire Station No. 2 in Windsor, California, as part of the sustainable building strategy for the new facility.

The solar electric system consists of fifty SunPower HE (high efficiency) 230 watt solar panels that power the fire house with renewable, clean energy. The solar energy system is roof mounted on the Station's 1,160 square foot carport structure and is expected to generate 17,331 kilowatt hours annually.

The solar energy system was a key element of the Station's acquiring a LEED certification. The new facility will help Windsor achieve its goal of reducing its carbon footprint.

The system will enable the Station to generate enough clean electricity each day to power six average homes. It will spare the air nearly ten tons of harmful greenhouse gases annually. Over the next 30 years, the air pollution prevented will be equivalent to eliminating 700,000 miles of driving. The system will pay for itself in approximately 6 years.



Specifications	
System Size	11.5 kW DC 10.2 kW AC
Location	Windsor, CA
Solar Panel	(50) SunPower 230 W
Inverter	(1) SunPower 5000m (1) SunPower 7000m
Estimated Annual kWh	17,331
Cumulative Cash Positive	5-6 Years

Customer Profile

The new LEED certified Windsor Fire Station will give Windsor a fully-staffed, 24-hour station on each side of the Highway 101 freeway. The \$7 million station across from Windsor High School and next to the town's public works offices is described by Town Manager Matt Mullan as the "greenest building in Windsor". The new building employs solar electricity, recycled water, recycled materials and has a significant amount of natural light.

About SolarCraft

SolarCraft is one of the most experienced solar energy contractors in California. For more than 26 years this certified Green Business has been providing Solar Thermal and Solar Electric services including consulting, design, installation, monitoring and maintenance. **SolarCraft** is a full-service solar contractor, employing licensed and certified solar installers who are experts in their field. Since 1984 **SolarCraft** has installed more than 4,500 solar energy systems in California with over 1.3 million square feet of solar collector surface area, saving customers more than \$7 million annually and preventing production of more than 28,000 tons of greenhouse gases every year.

