

Solano County, California



SOLAR SPECIALISTS

“Identifying the right renewable energy technology to meet a customer’s unique requirements, and doing it in a fiscally responsible way, is our goal in helping customers go green. Solano County will benefit for years to come from the financial and environmental benefits this project will deliver.”

Paul Orzeske
President
Honeywell Building Solutions

The Challenge

Solano County, California wanted to further their sustainable efforts with renewable energy. The County contracted with Honeywell, a global energy services leader, to develop a solar photovoltaic (PV) project that would supply power to the Claybank Adult Detention Facility in Fairfield, California.



The innovative solar PV system at Solano County incorporates a ground-mounted solar array and dual-purpose solar bus-ports that shade the County’s school buses while generating powerful clean energy.

Our Solution

Honeywell Building Solutions partnered with SPG Solar, Inc. for the solar project. Working closely with Honeywell, Solano County, and Pacific Gas & Electric (PG&E), SPG Solar designed a comprehensive solar PV system comprised of solar bus-ports and a ground-mounted array located on a parking lot near the Claybank facility. The custom bus-ports have a dual purpose, providing shade for the County’s Fairfield-Suisun School District buses and vehicles while producing clean, renewable energy for the detention facility. The bus-ports were specifically designed to meet the safety clearances required for the District’s school buses.

The systems total 746 kilowatts AC, using 2,792 SCHOTT 310 watt solar modules and 3 Xantrex 250 kW inverters.

Honeywell developed the project under a power purchase agreement (PPA) with Solano County. Under the agreement, Honeywell will operate and maintain the panels, and sell the electricity they produce to the County for the next 20 years.

Honeywell



The solar bus-ports are custom designed to meet safety clearance requirements for the County's school buses.

The Benefits

- The systems are expected to supply 60% of the electricity for the detention facility and save the County more than \$1 million in energy costs
- Solano County receives clean renewable power at fixed rates for the next 20 years
- Insulates the County from energy price hikes over the life of the system
- Solano County benefits by not having an upfront capital outlay for the project

The Green Line

The solar energy generated at Solano County will prevent over 2 million pounds of carbon dioxide (CO₂) from being released into the atmosphere each year by fossil-fueled power plants. According to the U.S. Department of Energy, it takes 210 acres of trees one year to absorb 2 million pounds of CO₂.



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Solano County benefits from reduced carbon dioxide emissions and fixed electricity rates for years to come.

SPG Solar Overview

SPG Solar, Inc. is the industry's most experienced developer, designer, and installer of solar photovoltaic (PV) systems for homes, businesses, and large-scale commercial and government facilities. SPG Solar is committed to building the highest-performing systems with the greatest return on investment. The result is clean, reliable electricity that significantly reduces or eliminates customers' electric utility costs.

Our Turnkey Services

- Feasibility Studies and Needs Analysis
- System Design and Engineering
- Permitting
- Construction Management and Installation
- System Performance Monitoring
- Customer Service and System Warranty

SPG Solar, Inc. is a licensed and bonded General B, Electrical C-10, Solar C-46 Contractor, CA Lic. 759086. SPG Solar Oregon, LLC is a licensed and bonded General Contractor, CCB#169000. SPG Solar's designers are certified by the North American Board of Certified Energy Practitioners (NABCEP).