



PACIFIC WIND APARTMENTS

Project Highlights

- **Project Name:** Pacific Wind Communities
- **Project Type:** Residential Solar I Carport System
- **Project Location:** Carlsbad, California, USA
- **Project Size:** 175 kW DC
- **Project Completion Date:** May 2024
- **PV Module Supplier:** Boviet Solar
- **Project Installer:** Cal Solar Inc.
- **Project Owner:** Pacific Wind Apartments

Project Overview

The Pacific Wind Apartments solar project is a 175 kW DC carport solar installation in Carlsbad, California, developed and installed by Cal Solar and powered by Boviet Solar's top-performing PV modules. Fully grid-tied, the system supplies clean, renewable electricity to apartment community operations, reducing reliance on purchased utility power, stabilizing electricity costs, and enhancing property sustainability.

Economically, the system generates ~245,000 kWh annually, offsetting electricity for common-area HVAC, lighting, security systems, and EV charging, while lowering long-term operating expenses and providing inflation-resistant energy pricing. Socially, the carport structure enhances resident amenities by providing shaded parking, supports local clean-energy jobs, and demonstrates leadership in sustainable multifamily housing. Environmentally, the project avoids about 111 metric tons of CO₂ annually, equivalent to removing ~24 cars from the road or planting ~5,000 trees each year, while also saving ~172,000 gallons of water and displacing ~45 short tons of coal.

Economic Benefits

The system produces ~245,000 kWh of clean electricity per year, directly offsetting energy use across HVAC, site lighting, security, and EV charging infrastructure. This reduces the property's operating expenses, improves financial resilience, and protects budgets from rising utility rates. With long product warranties and low O&M needs (periodic inverter checks, carport cleaning, and monitoring), lifecycle costs are predictable and manageable. The system also enhances property value and marketability, appealing to sustainability-minded tenants and investors.

Social Benefits

The Pacific Wind Apartments solar project reflects sustainability leadership in the multifamily housing sector and supports regional clean-energy jobs during design, construction, and service. The carport solar system provides shaded parking, enhancing day-to-day resident experience while linking sustainability to practical amenities. The visible solar infrastructure reinforces the community's identity as a forward-looking, environmentally responsible property and serves as a replicable model for other multifamily apartment complexes across California.

Environmental Benefits (Estimated)

By generating approximately 245,000 kWh annually, the project avoids about 111 metric tons of CO₂ per year, equivalent to removing ~24 gasoline-powered cars from the road or planting ~5,000 trees annually. The system also conserves roughly 172,000 gallons of water typically used in conventional electricity generation and displaces about 45 short tons of coal each year. With zero emissions during operation and on-site generation that reduce transmission losses, the project improves local air quality, lowers the property's environmental footprint, and supports California's renewable energy and climate-action goals.

BOVIET SOLAR

Boviet Solar, an Inox Solar Americas company, is a solar energy technology and manufacturing company focused on delivering high-performance photovoltaic (PV) modules for the U.S. market. Its portfolio includes Gamma Series™ monofacial and Vega Series™ bifacial PV modules, designed for utility-scale, community solar, commercial, and industrial (C&I), and residential applications, with a focus on reliability, efficiency, and long-term performance.

The company operates a state-of-the-art manufacturing facility in Greenville, North Carolina, with approximately 3.0 GW of annual production capacity. This U.S.-based production supports localized supply, efficient logistics, and alignment with project timelines and market requirements.

As part of Inox Solar Americas, Boviet Solar benefits from enhanced financial backing and integration within a broader renewable energy platform under Inox Clean Energy and the INOXGFL Group. This strengthens its ability to support compliant, financeable, and scalable solar projects while maintaining consistent execution and product performance.

Boviet Solar works closely with developers, EPCs, and asset owners to deliver projects on time and support long-term performance. The company remains committed to advancing clean energy by providing dependable solutions that enable customers to build and operate projects with confidence.

To learn more, please visit www.bovietsolar.com, www.inoxclean.com, www.inoxgfl.com