



## PACIFIC WIND APARTMENTS

### Project Highlights

- **Project Name:** Pacific Wind Communities
- **Project Type:** Residential Solar | Carport System
- **Project Location:** Carlsbad, California, USA
- **Project Size:** 175 kW DC
- **Project Completion Date:** May 2024
- **PV Module Supplier:** Bovie 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 Technology Co., Ltd. is a leading solar technology company founded in 2013 in Vietnam, specializing in the manufacturing of high-performance monocrystalline PV cells and premium Gamma Series™ monofacial and Vega Series™ bifacial PV modules. Our top-performing modules are engineered for a wide range of applications, including residential, commercial, industrial, community, and utility-scale solar projects.

Boviet Solar combines business acumen, financial strength, technological expertise, and manufacturing excellence to deliver reliable, high-efficiency solar solutions to industry clients worldwide. The company is deeply committed to sustainability, supply chain traceability, and compliance with international trade standards, while fostering long-term, trust-based partnerships across the global energy sector. Boviet Solar has earned industry-wide recognition for quality and reliability. The company has maintained a Tier 1 PV Module Manufacturer ranking by Bloomberg New Energy Finance (BNEF) since 2017, has been recognized as one of the Top 10 Most Bankable Global PV Module Manufacturers by Wood Mackenzie, and is ranked among the Top 10 Most Financially Reliable PV Module Manufacturers by Sinovoltaics. Boviet Solar's modules have also been consistently rated as Top Performers in Kiwa PVEL's PV Module Reliability Scorecard since 2019.

Headquartered in Vietnam, Boviet Solar operates manufacturing facilities in both Vietnam and the United States, with an annual production capacity of 3.0 GW for PV cells and modules. The company also maintains regional operations in the United States, Germany, and other key international markets. To learn more, visit [www.bovietsolar.com](http://www.bovietsolar.com).