



COPPER RIDGE ELEMENTARY SCHOOL

Project Highlights

- **Project Name:** Copper Ridge Elementary School Solar (Vail School District)
- **Project Type:** K-12 Education Solar | Carport Solar
- **Project Location:** Vail, Arizona, USA
- **Project Size:** 140 kW DC
- **Project Completion Date:** June 2023
- **PV Module Supplier:** Boviet Solar
- **Project Installer:** Solon Corp.
- **Project Owner:** Vail School District

Vail School District

The Vail School District, located near Tucson, Arizona, is nationally recognized for its innovation, academic excellence, and dedication to sustainability. The district has actively integrated renewable energy into its operations to reduce energy costs, lower emissions, and create meaningful learning opportunities for students. The Copper Ridge Elementary School Solar Project continues this leadership, supporting the district's long-term goal of achieving energy independence through clean, cost-effective solar power.

Project Overview

The Copper Ridge Elementary School Solar Project is a 140 kW DC carport solar system developed and installed by Solon Corp. and powered by Boviet Solar's top-performing PV modules. The grid-tied installation provides reliable, clean electricity directly to the school, supplying a significant portion of its annual energy demand while offering shaded parking for staff and visitors.

The system generates approximately 225 MWh (225,000 kWh) of renewable electricity annually, offsetting a large share of the school's power consumption. Economically, it reduces operating expenses and stabilizes future energy costs. Socially, it enhances sustainability education and community engagement. Environmentally, it prevents roughly 90 metric tons of CO₂ emissions per year, equivalent to planting 4,100 trees, saving 30,000 gallons of water, or eliminating 95 short tons of coal annually.

Economic Benefits

Producing about 225 MWh of renewable energy each year, the system reduces the school's utility costs and shields the district from future energy-price volatility. The carport structure also provides functional benefits, offering shaded, weather-protected parking areas that improve the school's infrastructure. The project supported local construction and electrical jobs during its implementation, contributing to Arizona's clean-energy workforce and economy.

Social Benefits

The Copper Ridge Elementary School Solar Project embodies the district's commitment to sustainability, education, and community leadership. The installation serves as a hands-on learning tool for students, helping them understand the science and benefits of renewable energy. It also demonstrates environmental responsibility to parents, faculty, and local residents, fostering community pride in the district's proactive approach to sustainability and energy efficiency.

Environmental Benefits (Estimated)

By producing approximately 225 MWh of renewable electricity annually, the system avoids around 90 metric tons of CO₂ emissions each year, equivalent to planting 4,100 trees, saving 30,000 gallons of water, or displacing 95 short tons of coal. Over its 25-year operational lifespan, the project will prevent more than 2,200 metric tons of CO₂ emissions, improving local air quality and supporting Arizona's clean-energy and climate 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