



MARANA OPERATION CENTER

Project Highlights

- **Project Name:** Marana Operation Center /City of Marana
- **Project Type:** Municipal solar | Carport System
- **Project Location:** Marana, Arizona, USA
- **Project Size:** 255 kW DC
- **Project Completion Date:** June 2023
- **PV Module Supplier:** Bovie Solar
- **Project Installer/Developer:** Solon Corp.
- **Project Owner:** City of Marana

City of Marana

The City of Marana, located northwest of Tucson, Arizona, is one of the fastest-growing municipalities in the state. The City is committed to sustainable growth, efficient public operations, and environmental stewardship. Through its renewable-energy initiatives, Marana is working to reduce municipal carbon emissions, control operational costs, and promote climate resilience for its residents. The Marana Operation Center Solar Project reflects the City's leadership in integrating clean energy into critical infrastructure and public facilities.

Project Overview

The Marana Operation Center Solar Project is a 255 kW DC carport-style solar installation developed and constructed by Solon Corporation and powered by Boviet Solar's top-performing PV modules. Located at the City's main operations facility, the system provides on-site renewable electricity that powers administrative offices, fleet operations, and maintenance activities. The solar carport also offers shaded parking for employees and visitors, enhancing functionality and comfort at the site.

The system generates approximately 385 MWh (385,000 kWh) of renewable electricity per year, directly offsetting utility consumption and reducing energy costs for municipal operations. Economically, the project stabilizes the City's long-term energy budget and supports local job creation. Socially, it demonstrates the City of Marana's proactive sustainability leadership. Environmentally, it avoids about 145 metric tons of CO₂ emissions annually, equivalent to planting 6,700 trees, saving 50,000 gallons of water, or eliminating 155 short tons of coal each year.

Economic Benefits

Producing roughly 385 MWh of renewable electricity annually, the Marana Operation Center Solar Project offsets a large portion of the facility's power needs, resulting in immediate and long-term utility savings. The project enhances operational resilience by protecting municipal budgets from energy-price volatility. Designed and implemented by Solon Corporation, the project created local construction and electrical jobs during installation and continues to support clean-energy employment through ongoing maintenance and monitoring.

Social Benefits

The project reflects the City of Marana's dedication to sustainable public operations and community progress. By partnering with Solon Corporation, the City advanced its renewable-energy goals while strengthening the regional clean-energy workforce. The visible solar carport installation enhances civic pride, provides a shaded amenity for staff and visitors, and serves as an educational example of responsible municipal energy innovation.

Environmental Benefits (Estimated)

By generating approximately 385 MWh of clean electricity annually, the system avoids around 145 metric tons of CO₂ emissions per year, equivalent to planting 6,700 trees, saving 50,000 gallons of water, or displacing 155 short tons of coal. Over its 25-year operational lifespan, the system will prevent more than

3,600 metric tons of CO₂ emissions, contributing to Arizona's renewable-energy and air-quality improvement 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.