GRANITE ROCK QUARRY

Project Highlights

- Project Name: Granite Rock Quarry
- Project Type: Industrial Solar (Quarry) I Ground Mount System
- Project Location: Aromas, San Benito County, California, USA
- Project Size: 5.66 MW DC
- Project Commissioning Date: June 2022
- PV Module Supplier: Boviet Solar
- Project Developer/Installer: CalCom Energy
- Project Owner: Granite Rock Quarry

Granite Rock Quarry

Granite Rock Quarry, located in Aromas, San Benito County, California, is a flagship site of Granite rock, one of California's most established construction materials and contracting companies. Founded in 1900, Granite Rock has supplied the state with high-quality crushed rock, sand, gravel, asphalt, concrete, and building materials for more than a century, supporting critical infrastructure, commercial, and residential projects across the region. The Aromas Quarry is the company's largest operational site and a key supplier of aggregate products for California's construction industry. Equipped with modern processing facilities, heavy equipment, and logistics infrastructure, the quarry plays a vital role in meeting the region's demand for durable and sustainable building materials.

Project Overview

The Granite Rock Quarry solar system is a 5.66 MW DC ground-mounted installation located in Aromas, San Benito County, California. Developed and installed by CalCom Energy, powered by Boviet Solar's high-performance PV modules, and owned by Granite Rock Quarry, the fully grid-tied system supplies clean renewable electricity to power quarry operations including crushing, processing, material handling, and heavy equipment.

By generating approximately 8.7 GWh of clean electricity annually, the system offsets a substantial portion of the quarry's electricity demand, lowering operating expenses, providing protection against utility rate volatility, and strengthening long-term financial resiliency. Socially, it demonstrates Granite Rock Quarry's leadership in sustainable industrial operations, supports regional clean-energy employment, and serves as a replicable model for large-scale energy users. Environmentally, the system avoids about 7,100 metric tons of CO_2 emissions per year, equivalent to planting over 118,000 trees, saving roughly 310 million gallons of water, or eliminating about 7,600 short tons of coal. Over its 25+ year lifespan, the project will prevent more than 177,500 metric tons of CO_2 emissions, significantly reducing the quarry's carbon footprint and supporting California's renewable energy and climate goals.

Economic Benefits

The Granite Rock Quarry solar system produces approximately 8.4 GWh annually, offsetting a significant share of the facility's energy use. This lowers electricity expenses, shields the operation from rising utility rates, and provides predictable long-term savings. Over its operational lifetime, the project improves financial stability and frees up resources that can be reinvested into quarry operations, workforce development, and innovation.

Social Benefits

The project highlights Granite Rock Quarry's leadership in sustainable industrial practices. Developed by CalCom Energy, the system supported regional clean-energy jobs during construction and contributed to California's renewable energy sector. As a large-scale example of solar integration in quarrying and mining, it provides a replicable model for other energy-intensive industries to follow, inspiring broader adoption of clean energy across industrial operations.

Environmental Benefits (Estimated)

By generating approximately 8.4 GWh of clean electricity annually, the Granite Rock Quarry solar system avoids about 7,200 metric tons of CO_2 emissions each year. This reduction is equivalent to planting more than 120,000 trees annually, saving 315 million gallons of water, or preventing the burning of nearly 7,700 short tons of coal. Over a 25+ year lifespan, the project will prevent more than 180,000 metric tons of CO_2 emissions, equivalent to permanently removing over 38,000 gasoline-powered cars from the road. The system reduces the quarry's environmental footprint, improves local air quality, and contributes to California's renewable energy and climate change mitigation 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.