



DR DAIRY

Project Highlights

- **Project Name:** DR Dairy
- **Project Type:** Agricultural Solar I Gound Mount
- **Project Location:** Chowchilla, California, USA
- **Project Size:** 548 kW DC
- **Project Commissioning Date:** April 2019
- **PV Module Supplier:** Boviet Solar
- **Project Developer/Installer:** CalCom Energy
- **Project Owner:** DR Dairy

DR Dairy

DR Dairy is a family-run dairy operation located in California's Central Valley, producing milk and related dairy products while managing the intensive energy demands of modern livestock farming. Daily operations require substantial power for milking systems, refrigeration and cooling, and water pumping. To strengthen operational efficiency and sustainability, the farm has integrated renewable energy solutions such as solar, reducing electricity costs, improving resilience against utility rate increases, and demonstrating leadership in sustainable agriculture.

Project Overview

The DR Dairy solar system is a 548 kW DC ground-mounted solar energy array located in Chowchilla, California. Developed and installed by CalCom Energy, owned by DR Dairy, and powered by Boviet Solar's top-performing PV modules, the system is fully grid-tied and supplies renewable electricity directly to farm operations.

Generating approximately 0.9 GWh of clean electricity annually, the installation delivers broad benefits. Economically, it reduces operating expenses, provides stable long-term energy costs, and hedges against utility-rate volatility across energy-intensive operations such as milking, refrigeration, and water pumping. Socially, the project demonstrates leadership in sustainable agriculture, supports local clean-energy jobs, and serves as a replicable model for other dairy and agricultural operations. Environmentally, the system avoids approximately 360 metric tons of CO₂ annually, equivalent to removing ~78 cars from the road, planting ~6,000 trees, saving ~0.45 million gallons of water, and eliminating ~367 short tons of coal. By producing zero emissions during operation, the system reduces the farm's carbon footprint, improves local air quality, and contributes to California's clean-energy goals.

Economic Benefits

By generating its own solar power, DR Dairy significantly reduces its electricity expenses, producing ~0.9 GWh annually to meet the high demands of dairy operations. The project lowers utility expenses, shields operations from rising energy costs, and delivers predictable long-term savings. Over its lifetime, the system strengthens fiscal resilience, freeing up resources for agricultural innovation and business growth. In addition, the project supported regional economic development through CalCom Energy's contribution to local clean energy job creation.

Social Benefits

The DR Dairy solar system underscores DR Dairy's commitment to sustainable agricultural practices, serving as a visible, replicable model for other dairies and multi-meter agribusinesses in California's Central Valley. Partnering with CalCom Energy supported local clean-energy jobs and technical expertise, while the installation itself raises awareness within the agricultural sector of how renewable energy can enhance operational efficiency and sustainability.

Environmental Benefits -Estimated

The DR Dairy solar system produces approximately 0.9 GWh of clean power annually, avoiding around 360 metric tons of CO₂ emissions each year. This impact is equivalent to removing ~78 cars from the road, planting ~6,000 trees, saving ~0.45 million gallons of water, and eliminating ~367 short tons of coal.

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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.