



Energy Management for Your Business



PG&E's Energy Solutions for Wineries

Energy is a key resource for wineries. Smart energy management can be a powerful tool in addressing sustainability efforts and rising energy costs. This fact sheet will provide you with an overview of Pacific Gas and Electric Company's (PG&E) services to improve your winery's energy management.



In 2012, PG&E paid California wineries more than \$4.3 million in energy-efficiency incentives.

The success of your operations depends on reliable energy and managing costs. Our team of energy specialists is available to assist you in taking advantage of PG&E's energy-efficiency and money-saving services. PG&E can help you realize a quicker return on your investments, increase the capacity of your existing systems and improve the reliability of California's electrical grid.

Energy Management Services for Wineries

Service	Description	Result
Rate Plan	Agricultural rates change, so have a rate analysis done annually	Can reduce your energy bill
New Construction	Speak to PG&E early in the design phase. Our Savings By Design program provides incentives and will help make your new building more energy efficient	Increases operational efficiency and reduces energy costs
Retrofits	Earn incentives for replacing equipment and systems to achieve greater energy efficiency	Reduces energy costs
Retrocommissioning	Tune up your existing equipment to optimize efficiencies	Maximizes existing infrastructure
Demand Response	Implement a plan to reduce electric load on the hottest days of the year	Reduces peak energy costs
Zero Percent Financing	Receive zero-interest loans for energy-efficient retrofit projects, which are repaid through your monthly PG&E bills	Provides financing for energy-efficiency projects
Solar and Other Self-generation	Earn rebates for the installation of solar, wind, fuel cell and other generation systems	Reduces energy costs and carbon footprint
Education and Training	Attend free PG&E classes. New classes are added every year.	Provides the latest technology and training

Energy Solutions for Wineries

PG&E provides generous rebates for equipment upgrades, and there are many rebates available for business customers. Listed below are some of the most popular technologies available for wineries that can save money and energy. Your PG&E account representative or authorized PG&E partner can help you choose the best solutions for your business.

Energy-efficiency Rebates and Incentives

Solution	Benefit
Variable Frequency Drives (VFDs)	VFDs can reduce energy use by matching the flow of pump to load requirements. If programmed correctly, these motors can also help reduce mechanical maintenance costs by ramping up slowly to meet system demand.
Premium-efficiency Motors (PEMs)	Qualified premium-efficiency motors offer significant energy savings as well as lower vibration and increased reliability, especially in equipment with long operating hours.
Refrigeration—Floating Head Pressure Control	Efficient design strategies include parallel systems, oversized condensers, high-efficiency compressors, VFDs and floating head pressure control. Many refrigeration systems operate with unnecessarily high head pressure. Lowering your system's minimum condenser head pressure can result in significant energy savings.
LED High/Low Bay Fixtures and Retrofit Kits	Replacing your aging linear fluorescent lighting with new LED high or low bay fixtures can greatly reduce your energy usage. LEDs are more efficient and create less heat than other light sources, making them a good overall choice.
Insulation	Optimum levels of insulation for indoor and especially outdoor tanks can help reduce heat gain and cooling loads. All bare pipes should be checked to see if they need insulation.

Authorized Partners

Partner	Description
Resource Solutions Group	This organization will identify opportunities to reduce operating costs and manage energy use more effectively. They can also help with qualifying and securing project rebates, evaluating contractors' bids and providing skilled project direction and oversight.
VaCom Technologies	This company improves energy-efficiency performance of your existing refrigeration system through detailed analysis, retrofit and control strategies.
BASE Energy, Inc.	The Wastewater Energy Program (WEP) helps agriculture and food facilities implement energy efficiency and water conservation projects to achieve wastewater treatment energy savings.

Wine Facts

One cluster is typically made up of 75 grapes.

A cluster yields about one glass of wine.

Four clusters of grapes generally yield one bottle of wine.

Most vines produce 40 clusters each.

Your Next Steps with PG&E

For more information on how PG&E can help your business manage energy consumption and reduce costs, contact your PG&E account representative, call the PG&E Agricultural Customer Service Center at 1-877-311-FARM (3276) or visit www.pge.com/wineries.