PG&E’s Energy Management Solutions for

WINERIES AND VINEYARDS

Pacific Gas and Electric Company offers wineries and vineyards design assistance and financial incentives up to $350,000 per project to support energy efficient, high performance facilities. Whether you are building a new winery, retrofitting old inefficient equipment, or implementing demand response capabilities, PG&E’s energy management solutions can be customized to meet the unique needs of your project.

DESIGN ASSISTANCE, REBATES AND INCENTIVES ARE AVAILABLE FOR THE FOLLOWING MEASURES:

LIGHTING AND CONTROLS – Specifying high-efficiency fixtures and lighting controls, and taking advantage of natural daylighting, can substantially minimize energy use while enhancing the functionality of interior space.

REFRIGERATION – Efficiency measures include parallel systems, oversized condensers, efficient compressors, close approach heat exchangers, head pressure control, groundwater cooling, evaporative condensers or cooling towers, insulation, and variable frequency drives (VFDs).

TANK INSULATION – Insulating wine tanks, especially exposed outdoor tanks, can save considerable cooling costs.

PROCESS LOADS – Premium efficiency motors (PEM) and high efficiency pumping, compressed air systems, ventilation fans, and other process loads make sense for many winery applications.

WASTEWATER TREATMENT PROCESSES – Efficiency measures include fine bubble aeration, dissolved oxygen sensors, VFDs, PEMs, and efficient pumping.

EFFICIENT IRRIGATION – Repairing and replacing inefficient pumps, especially those with high hours of operation, saves energy and can earn you cash incentives.

DEMAND RESPONSE TECHNOLOGIES – Technologies that allow wineries to shed load and participate in PG&E’s Demand Response programs are also eligible for incentives under the Customized Energy Efficiency/Demand Response Incentive application.

In September of 2003, Canandaigua Wine Company US broke ground on a 12 million-dollar expansion project at their Turner Road Vintners plant in Lodi.

“To help with this expansion I contacted PG&E’s energy management programs. Their engineers made recommendations to improve the efficiency of the winery’s new compressed air, wastewater treatment and refrigeration systems. The improvements are projected to have an annual energy savings of 1,179,650 kWh and an annual utility cost savings of $153,355. We also received $75,000 in incentives from PG&E.

PG&E’s staff has been very helpful and has provided not only savings, rebates and experience, but education for the facility to enable us to utilize all energy better.”

Chuck Bramell,
Maintenance Manager
Canandaigua Wine Company US
Turner Road Vintners

For more information on PG&E’s ENERGY MANAGEMENT SOLUTIONS, call the Business Customer Service Center (800) 468-4743 or visit www.pge.com/business

PG&E’S ENERGY MANAGEMENT SOLUTIONS can help you control your operating expenses through building energy efficiency and demand response capabilities into your new and existing facilities, and your long-range planning. Services include energy analyses of existing facilities, design assistance for planned projects, equipment rebates, project incentives, and education and training.
PG&E’S Energy Management Solutions

Energy Analyses
An energy analysis - also referred to as an “energy audit” - is the first step towards a comprehensive energy management plan and can help you identify a no cost, low cost and investment grade action plan. In addition to on-site, phone-based, or on-line audits, wineries may also get support in benchmarking their energy and water use against a “best practice” winery using Lawrence Berkeley National Lab’s BEST Winery tool. For larger wineries, PG&E offers the on-site Integrated Energy Audit which identifies opportunities in demand response and self-generation as well as energy efficiency.

Energy Efficiency Rebates for Your Business
Rebates are the quickest and simplest way for you to get cash back for your eligible energy efficient purchases. PG&E offers rebates for hundreds of energy-efficient technologies in multiple categories: Agricultural Products, Appliances and General Improvements, Boilers and Water Heating, Food Service, Heating Ventilation and Air Conditioning (HVAC), Lighting, and Refrigeration. To find out if a product qualifies under the rebate program, go to http://www.pge.com/biz/rebates/rebates_assistance/index.html or contact the Business Customer Service Center at (800) 468-4743 to request an application and one or more technology catalogs.

Customized Energy Efficiency/Demand Response Incentive Application
For more customized energy efficiency projects or projects with a demand response component, PG&E offers design assistance, calculation support and standardized incentive rates through Customized Energy Efficiency/Demand Response Incentives.

- Lighting .................................. .05 per kWh saved
- Process ................................... .08 per kWh saved
- HVAC and Refrigeration* .......... .14 per kWh saved
- Natural Gas .............................. .80 per therm saved

*Please note that some refrigeration-related equipment is considered Process.

Total incentive payments are based on actual reductions in energy usage. Customers and/or their consultants may sponsor projects under this approach. Be sure to contact PG&E early in the design process, before you start your project, so that you can schedule optional technical support and the required pre-inspection of your existing equipment.

New Construction Design Assistance and Cash Incentives
PG&E’s new construction program – also referred to as Savings By Design – provides owner and design team cash incentives, technical design assistance, and education to support the design and construction of energy efficient new facilities and process systems. Incentives are based on exceeding Title 24 requirements by at least 10% for standard building systems, and on exceeding industry standard practice baselines for process systems. Through both the simple Systems Approach and the more integrated Whole Building Approach, customers can now receive up to $150,000 in cash incentives per project.

Energy Management Education and Training
You can learn about the latest and best energy-efficiency practices, technologies, tools and more through the hundreds of free classes offered by PG&E every year. To search by market sector, technology, class location (including Web-based classes) or target audience, use the Pacific Energy Center’s class search tool at http://www.pge.com/education_training/classes/energy_efficiency/index.jsp

Additional Resources on Energy Efficiency for Wineries
- PG&E’s Self Generation Incentive Program - www.pge.com/suppliers_purchasing/new_generator/incentive
- California Sustainable Winegrowers Alliance - www.sustainablewinegrowing.org
- Flex Your Power Agriculture Resources - www.fypower.org/agri/index.html