



Industrial Refrigeration Performance Plus (IRPP) Program Administered by VaCom Technologies



Improving Efficiency Systems Provides Savings

Pacific Gas and Electric Company (PG&E) has contracted with VaCom Technologies, a third party energy-efficiency implementation specialist, to implement the Industrial Refrigeration Performance Plus (IRPP) Program. The program targets PG&E customers with industrial refrigeration systems as a large portion of their electric load. The program was designed to address the energy-efficiency needs of these facilities, including complex built-up mechanical systems, which are often expanded and modified over time. These modifications may be inefficient which can be caused by over-sizing and lack of controls meant to optimize operation at part-load and non-peak conditions. Under the program, existing facilities are retrofitted, emphasizing refrigeration system improvements as well as addressing lighting, envelope, pumping, air handling and related process equipment.

By participating in IRPP, electric customers throughout the PG&E service territory can benefit from significant savings on their monthly energy bills. Increasing energy efficiency also benefits the environment by conserving our natural resources and reducing air emissions.

Eligibility Requirements

Those customers with industrial refrigeration systems as a large part of their electric load may be eligible. They include refrigerated warehouses, food processors, and related cooling operations that operate year-round or seasonally. Processing, storage and distribution operations, are eligible for this program.

Energy-Efficiency Measures Covered

A comprehensive study is completed to identify energy-efficiency options which may include:

- Programmable Logic Control Systems.
- Variable Speed Systems.
- Compressor Plant Upgrades.
- High Efficiency Condensers.
- Lighting Upgrades.
- Heat Recovery.
- Air/Hydraulic Efficiency Upgrades.
- Envelope and Door Improvements.
- Heat Exchanger Optimization.





Turnkey Project Management

VaCom Technologies provides full turnkey project coordination and will manage your project from start to finish. The process is as follows:

1. VaCom Technologies performs a free, comprehensive study to develop a retrofit proposal that documents the energy-efficiency measure options and provides energy and cost savings estimates.
2. Customer-selected measures are installed, verified and monitored for two years.
3. Web-based training and performance monitoring is provided for continuous measurement of system capacity and efficiency, and to foster long-term energy savings.
4. IRPP incentives (e.g., \$0.15/kWh for refrigeration measures, \$100/kW, \$1.00/Therm) are paid upon completion of installation and verification of savings, up to 50 percent of the project cost.
5. Bonus incentive (\$0.015/kWh) is paid after two years if efficiency levels are maintained.

Next Steps

You may contact Mike Micak or Doug Scott at VaCom at [909-392-6704](tel:909-392-6704) or visit their Web site at www.vacomtech.com for details. Contact the PG&E **Business Customer Service Center** at [1-800-468-4743](tel:1-800-468-4743) or visit www.pge.com to learn about other PG&E energy-efficiency programs.

