



California Energy Commission
2009 Integrated Energy Policy Report Staff Workshop
August 11, 2009 9:00 am – 5:00 pm Hearing Room A
Energy Partnership Program

The California Energy Commission's Energy Partnership Program helps cities, counties, special districts, public or non-profit colleges, hospitals, and public care facilities to save energy costs and encourages the most efficient use of energy in their facilities. Efficiency upgrades reduce annual maintenance costs, increase cost savings, conserve resources and reduces green house gas emissions.

Eligibility

Cities, counties, special districts, public or non-profit hospitals, public or non-profit public care facilities, and public or non-profit colleges/universities are eligible for assistance.

Participation Costs

For many facilities there may be no cost. The cost primarily depends on the facility size, type and scope of the project. The Energy Commission contracts with experienced engineering and architectural consultants who provide the technical assistance services (up to \$20,000 of our consultant's costs).

Financing

If financing is needed to implement the projects recommended by the energy audit (or from an independent analysis), a low interest loan from the Energy Commission is available. For more information, go to www.energy.ca.gov/efficiency/financing/.

Application Due

The Energy Partnership Program is a continuously open program with no filing date. However, funding is limited and applications are accepted on a first-come, first-served basis.

Existing Facilities

The Energy Partnership Program targets energy efficiency improvements of existing facilities and identifies energy-related projects that should be implemented immediately as part of a comprehensive energy program. The program can also identify state loans and other financing mechanisms to get the projects installed. For existing facilities, the Energy Partnership Program can:

- Conduct energy audits and feasibility studies
- Review existing proposals and designs
- Develop equipment performance specifications
- Review equipment bid specifications
- Assist with contractor selection
- Assist with commissioning

New Construction

Facilities built with energy efficient designs cost less to operate, resulting in continuous savings from the first day of operation. It is possible to reduce energy consumption significantly below the state's minimum building efficiency standard (Title 24), particularly if the Energy Partnership Program is involved early in the design phase. For new construction projects, the Energy Partnership Program can:

- Provide design consultation
- Identify cost-effective energy-saving measures
- Compare different technologies
- Assist with commissioning
- Provide equipment specification consultation
- Develop computer simulation models of your planned project
- Help select experienced professionals with energy efficiency expertise
- Review schematics and construction plans

Case Study

The City of Redlands Municipal Utility Department installed a 970 kW cogeneration system using landfill gas that was previously flared. The electricity and waste heat from cogeneration is used at the adjacent wastewater treatment plant. Recently the city upgraded the plant to tertiary wastewater treatment so that it can supply recycled water to customers and meet all discharge requirements of the Regional Water Quality Control Board. The cogeneration system will offset the increased energy used for tertiary treatment.

- **Demand Savings:** 900 kW
- **Annual Energy Savings:** 6,804,000 kWh (900x350x24x0.9 capacity factor)
- **Annual Energy Cost Savings:** \$748,440
- **Total Project Cost:** \$1,742,500
- **Energy Commission Loan:** \$1,500,000
- **Southern California Edison Rebate:** \$242,500
- **Internal Rate of Return:** 21%
- **Simple Payback:** 2.3 years (loan amt)

For additional information, visit <http://www.energy.ca.gov/efficiency/partnership/index.html> or contact Amir Ehyai at the California Energy Commission
Phone: 916-654-4550 E-mail: pubprog@energy.state.ca.us