



Industrial Recommissioning Program

Administered by Nexant

Energy loss from operational deficiencies such as steam leaks, damaged insulation, or inefficient boilers can represent 5 percent to 15 percent of an industrial facility's total energy consumption. Pacific Gas and Electric Company (PG&E) has contracted with Nexant, Inc., a third party energy efficiency specialist, to implement the Industrial Recommissioning Program (IRCx). This program can help you lower your energy usage by identifying and correcting deficiencies and optimizing the energy efficiency of existing equipment or systems. Increasing energy efficiency also benefits the environment by conserving our natural resources and reducing air emissions. Unlike retrofit projects, recommissioning measures do not require capital investment; they can be implemented at low cost or at no cost other than labor.

Eligibility Requirements

Most industrial customers of PG&E can participate in the IRCx Program. Some examples are:

- Agricultural chemicals
- Apparel manufacturing
- Biotech
- Chemical manufacturing
- Clay products
- Computer, electronic, and communications equipment manufacturing
- Fabricated metal
- Food Processing
- Footwear manufacturing
- Foundries
- Furniture
- Gas manufacturing
- Glass products
- High Tech, including data centers
- Leather manufacturing
- Machinery manufacturing
- Metals manufacturing
- Mineral products
- Paint, coating, and adhesives
- Plastics and rubber products
- Printing
- Pulp and paper
- Soap and cleaning compounds
- Textile related manufacturing
- Transportation equipment manufacturing
- Wood products



Support from inception to inspection

The IRCx program provides the following services:

1. Free energy audit—an IRCx engineer assesses the performance of major energy-using systems, identifies performance deficiencies, and determines which recommissioning projects would be cost-effective.
2. Technical assistance in quantifying potential savings and developing an IRCx plan—the program staff completes a more detailed audit to quantify potential energy and cost savings and works with you to develop an IRCx plan.
3. Project management—IRCx engineers provide oversight of all recommissioning projects, including coordinating with outside experts, vendors, and contractors.
4. Incentive applications, measurement, and verification—program engineers perform inspections and facilitate the incentive process with PG&E.
5. Facilitation of CMMS implementation or selection of a preventive maintenance contractor—to ensure post-installation support, the IRCx Project Implementation Agreement either includes documentation that the customer has trained personnel and equipment to review the operation of the system and make any necessary repairs for persistence of savings or a third party preventive maintenance contract, typically lasting three years, or an off-the-shelf Computerized Maintenance Management System (CMMS) and a trained staff person. Nexant provides technical assistance for either solution.
6. Training—IRCx engineers can educate and train your staff on continuous improvement techniques for sustaining energy efficiency measures and the related operating cost reductions.

Energy efficiency measures covered

The IRCx Program covers only recommissioning projects. If Nexant identifies opportunities for retrofit, demand response, or self-generation measures during an initial audit, you will be referred to other incentive programs for assistance.

Common industrial recommissioning measures include:

- Compressed air system optimization.
- Boiler efficiency improvements.
- Optimum start/stop.
- Economizer optimization.
- Duct static pressure reset.
- Temperature resets for supply air, chilled water, hot water and condenser water.
- Flow and temperature setback.

Financial incentives may cover up to 50 percent of recommissioning costs. Incentives are paid at the following rates:

- Electric process-related measures—\$0.06 to \$0.12 per kWh saved.
- Gas process-related measures—\$0.50 to \$1.25 per therm saved.
- Demand reduction measures—\$75 to \$150 per verified peak kW saved.



Next Steps

To learn more, confirm your eligibility, or apply, please visit industrialrcx.com or contact the IRCx Program Manager, **Amandeep Singh**, at 1-415-369-1133 or asingh@nexant.com. Contact the **PG&E Business Customer Service Center** at 1-800-468-4743 or visit pge.com about other PG&E energy efficiency programs.