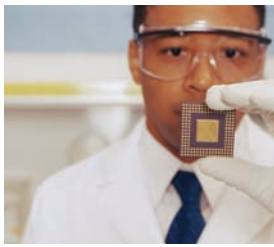


CASE STUDY



Demand Response: High Tech Manufacturing



“They [employees] know that they are doing the right thing for California...It is nice to be able to help and provide some relief when the grid is strained...”

**Facilities Manager
High Tech Manufacturing**



If you are a high-tech, energy-intensive manufacturer, Pacific Gas and Electric has financially rewarding Demand Response programs that can save you money. By shifting energy-intensive activities to off-peak demand periods, some of our customers have saved up to \$26,000 annually. Our Account Services representatives will work with you on a plan of action to reduce operational costs with minimal impact on your business.

It is in everyone's interest to help maintain the integrity of the grid. Demand Response is focused on reducing the risk of service interruptions caused by supply shortage, transmission constraints, or rolling blackouts. By implementing the minimum requirements to reduce energy use, you can not only reap a financial reward, but also get recognition in the community for doing your part.

DEMAND RESPONSE OPPORTUNITIES

It is not uncommon for a high-tech research and development/ manufacturing facility to have 24/7 operations spread over multiple facilities. PG&E worked with one such facility, a 150,000-s.f. campus, which on a typical summer day had energy consumption increase gradually from about 520 kW in the morning to a peak of about 650 kW in the afternoon.

The Challenge

Develop a Demand Response action plan that is specific to their facility and business concerns while working with their low-tech energy management system.

The Solution

By following PG&E's recommendations such as shifting energy-intensive activities to off-peak demand periods and occasionally running generators, this facility saved money and reduced load during peak demand periods. To accomplish this, the Demand Response action plan focused on three areas:

- Lighting: Reduce or turn off all lighting in all areas.
- Cooling: Turn off HVAC equipment during DR events while adjusting other cooling according to needs.
- Non-Essential Equipment: Reduce, turn off, or close all production and equipment whenever possible.

Four years into a Demand Response program, this facility reported tremendous financial savings—\$26,000 annually.

The Facilities Manager concluded, “It is nice to be able to help PG&E and provide some relief when the grid is strained.”

NEXT STEP

Contact your PG&E representative or call our Business Customer Service Center now at **1-800-468-4743**. We will help you determine what Demand Response program is right for you and how it can complement other programs in your Integrated Energy Management portfolio. Earn incentives with PG&E's Technical Audit/Technology Incentive program for the identification and installation of demand response enabling equipment. Complete details on these no-cost programs are available from your PG&E representative and our web site: pge.com/DemandResponse.



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