



# Energy Management for Your Business



## PG&E’s Energy Solutions for Minerals and Chemicals Facilities

### Industry Facts

Energy management experts from Pacific Gas and Electric Company (PG&E) are ready to help your facility meet today’s energy challenges. California’s minerals and chemicals facilities consume large amounts of energy in order to manufacture products that are ultimately used by every section of the economy. Production inefficiencies are often related to operating and maintenance practices and can be decreased through smart energy management and optimization of your systems.

A significant portion of your facilities’ financial success depends on reducing your controllable costs. PG&E’s energy specialists can help you use energy more efficiently, maximize the return on your investments, improve net operating income, increase building and facility asset value and balance out your carbon footprint.

“Vulcan Materials Company has seen significant cost savings from the energy-efficiency incentives provided by our participation in PG&E’s energy management programs.”

Frank Parra, District Operations Manager, Vulcan Materials

### Energy Management Services for Minerals and Chemicals Facilities

Service	Description	Result
<b>Pricing Plans</b>	Analysis of your industrial facilities’ energy usage patterns to determine your most beneficial pricing plan	Can reduce your energy bills
<b>Customized Retrofit Incentives</b>	Incentives for replacing equipment and systems to achieve greater energy efficiency	Reduces energy costs, lowers GHG emissions and increases operational efficiency
<b>Energy-efficiency Rebates</b>	Rebates paid for installing qualifying energy-efficient equipment	Improves return on investment for most common measures
<b>Energy Audits</b>	Assessment of your site to identify the best opportunities for improved energy efficiency and potential savings	Analyzes current energy usage and identifies savings opportunities
<b>New Construction</b>	Resources and incentives for energy-efficient design and construction	Increases operational efficiency and reduces energy costs
<b>Demand Response</b>	Incentives for voluntary temporary load reduction during peak demand periods	Reduces peak energy costs and ensures the reliability of California’s electrical grid
<b>Solar and Self-generation</b>	Rebates for the installation of photovoltaic, wind, fuel cell and other generation systems	Reduces energy costs and carbon footprint
<b>On-bill Financing (OBF)</b>	No interest loans available to eligible customers for energy-efficient retrofit projects, to be repaid through monthly PG&E bills	Provides financing for energy-efficiency projects

## Energy-efficiency Solutions and New Technologies

Here are some of the most popular measures and technologies that minerals and chemicals facilities can use to save money and energy. PG&E account representatives, program partners and affiliates can help you choose the projects that make the most sense for your organization.

### Energy-efficiency Measures

Measure	Investment	Typical Payback
Steam Traps	Low Cost	1 year
Lighting Improvements	Low Cost	1–2 years
Motor System Opportunities	Low Cost	1–2 years
Tank and Pipe Insulations	Low Cost	1–2 years
Air Compressor Systems	Smart Investment	1–2 years
Boiler Upgrade or Replacement	Smart Investment	1–5 years
Steam or Water Process Boiler	Smart Investment	1–5 years
Cooling Tower with VSD	Smart Investment	2–3 years
Chiller Upgrade or Replacement	Smart Investment	2–10 years

### New Technologies

Measure	Description
Fork Lift Battery Charger	New, high-frequency battery chargers.
LED Lighting	LEDs are more energy efficient than incandescent lamps and can reduce the amount of energy your facility uses.

## New Regulatory Requirements

PG&E's energy management services can also help your organization meet the following energy-focused standards for California minerals and chemicals facilities.

### California Energy Standards

Name	Description
California Title 24	Specifies minimum building energy performance
California AB 1103	Mandates benchmarking of commercial buildings being sold, leased or refinanced
California AB 32 (Global Warming Solutions Act)	Requires businesses to reduce greenhouse gas emissions
Nitrogen Oxide (NOx) Boiler Standards (San Francisco Bay Area and San Joaquin Valley)	Specifies lower levels of allowable NOx emissions associated with boiler systems
Green Building Initiative State of California Executive Order S-20-04	Requires improved energy efficiency and reduced water consumption to balance out the carbon footprint of all new buildings in California

## Your Next Steps with PG&E

For more information on how PG&E can help your minerals and chemicals facility manage energy consumption and reduce costs, visit [www.pge.com/industrial](http://www.pge.com/industrial).

You can also contact your PG&E account representative or call our Business Customer Service Center at 1-800-468-4743.