



**Rebuild Hawaii State Program
THE GAS COMPANY'S ACTION PLAN**

July 2002

Introduction

Rebuild America is a national program of community partnerships to renovate buildings and improve energy efficiency in buildings. In addition to the cost savings and environmental benefits of energy efficiency, the U.S. Department of Energy's program is also working to stimulate economic growth and create jobs.

The Gas Company (TGC) began as a small company in 1904 and now provides gas service to customers on the islands of Oahu, Kauai, Maui, Hawaii, Molokai, and Lanai. While TGC has recently participated in some cogeneration projects, we also realize that there have been missed opportunities as well as many potential opportunities for utilizing energy efficient gas technologies in Hawaii facilities. We remain committed to providing the community with cost-effective, environmentally friendly energy service and are pleased to be a partner in the Rebuild America program.

The purpose of this action plan is to identify reasons behind customers' lost opportunities in installing energy efficient technologies and how TGC in partnership with Rebuild America can work to minimize the lost opportunities. The action plan is meant to be a flexible, evolving document in order to build on the knowledge to be gained and ever-changing conditions, priorities, and opportunities.

Vision Statement

The Gas Company believes that one of the most important keys to Hawaii's future is the wise use of energy. Whether it is preserving the natural environment, the quality of life or a sustainable economy, the way we produce and use energy plays a major role. TGC will actively seek to have customers install and/or retrofit their facilities with energy-efficient appliances and equipment using SNG, LPG fuel, and/or other gasified fuels that will reduce and control energy costs, maintain/improve the facility's efficiency, and create a safe and healthy environment for the customers and the community.

Partners and Organizations

Organizations involved with the Rebuild Hawaii Consortium program:

The Gas Company The gas utility serving the islands of Oahu, Maui, Hawaii, Kauai and Molokai; also provides non-utility gas service on Oahu, Maui, Hawaii, Kauai, Molokai, and Lanai. TGC presently provides energy efficiency and technical information related to gas appliances/equipment and certain gas technologies.

State of Hawaii The State's Department of Business, Economic Development & Tourism (DBEDT) plans and implements energy efficiency programs through the

	Energy, Resources, and Technology Division. DBEDT has organized and supports the Rebuild Hawaii Consortium by providing professional, financial, and technical assistance to the partnerships.
County of Hawaii	Lead partner in the Rebuild Hawaii Island program to upgrade the efficiency of energy use in buildings and other facilities.
County of Kauai	In partnership with the County of Kauai's Building Division, Solid Waste Division and Water Division; Kauai Lagoons Golf Course, CEATECH (Controlled Environment Aquaculture Technology) shrimp farm, Kauai Electric and Garden Island Resource, Conservation and Development, Inc.
County of Maui	Involved in promoting energy efficiency in buildings and other facilities and efficient use of distributed generation.
US Dept of Energy	Provides technical support and facilitates networking with appropriate government offices, programs and personnel.

Program Goals

1. Provide customers with technical advice and support regarding energy-efficient and environmentally responsible new and emerging gas applications, gas handling technologies, gasification techniques, and alternative gaseous fuels.
2. Educate Hawaii architects; contractors; building/facility managers, engineers, and operators; and energy decision-makers about current and emerging energy-efficient gas applications and equipment.
3. Support local research and development for environmentally responsible alternative gaseous fuels that can support energy-efficient technologies.
4. Discover and secure business partnerships and working agreements to expand TGC's role as a services and energy supplier
5. Discover and secure business partnerships and working agreements to expand TGC's role in supporting the use of energy-efficient gas services and use of gaseous fuel as an environmentally responsible energy source in Hawaii.

Action Plan

TGC will focus on educating its customers on energy efficiency and emerging gas technologies and promote business partnerships that will encourage research and working agreements that support energy efficiency.

- Provide customers with technical advice and support regarding energy-efficient and environmentally responsible new and emerging gas applications, gas handling technologies, gasification techniques, and alternative gaseous fuels.
TGC will have its technical personnel who are responsible for fuel handling, storage, transporting, installing gas facilities, and evaluating new gas technologies, attend related technical conferences and workshops, including the planned energy workshop.

- Educate Hawaii architects; contractors; building/facility managers, engineers, and operators; and energy decision-makers about current and emerging energy-efficient gas applications and equipment.
TGC will plan and conduct energy workshops on current and emerging gas applications and technologies on at least three different islands.
- Support local research and development for environmentally responsible alternative gaseous fuels that can support energy-efficient technologies.
TGC will build a working relationship with University of Hawaii fuels researchers.
 - Send appropriate TGC technical staff to UH, HNEI, RCUH, and other UH-affiliated organizations' energy and fuels workshops and conferences.
 - Add Gregg Matsuo, Kauai Community College instructor for Power, Energy, and Transportation, to TGC's group for the Hawaii Power Park project.
 - Provide support for UH Department of Molecular Biosciences and Bioengineering projects related to gasification.
 - Invite UH researchers to be resource speaker(s) at planned energy workshop.
 - Participate on UH energy committees such as the Sustainable Energy Committee and Energy Policy Forum.
- Discover and secure business partnerships and working agreements to expand TGC's role as a services and energy supplier.
 - Identify areas where a partnership with TGC would be desirable and develop appropriate business and strategic plans to establish the qualities and experience needed from the partner, as well as what TGC can offer.
 - Network at technical energy conferences, including planned energy workshop, to identify potential partners and follow up with contact.
 - Implement energy efficiency pilot projects involving one or more of the emerging gas technologies.
- Discover and secure business partnerships and working agreements to expand TGC's role in supporting the use of energy-efficient gas services and use of gaseous fuel as an environmentally responsible energy source in Hawaii.
 - Conduct planned energy workshops for building industry representatives to review latest gas-efficient appliances/equipment, building requirements, gas fuel specifications, TGC services, etc.
 - Conduct workshops for commercial/industrial building engineers, facility managers, industrial engineers, energy managers, etc. covering emerging gas and gaseous fuel technologies and interim facilities with fuel switching capabilities.

Monitoring, Evaluation, and Reporting

TGC will maintain project files on the gas technology projects that it participates in and monitor energy savings and costs. Contractors will be required to provide square footage and savings reports for review and acceptance. Summaries will be provided to DBEDT and to the Executive Committee of the US Department of Energy.

Promotion and Expansion

Media: TGC will continue providing energy saving suggestions to its customers through its customer service information brochures and mailings and its current advertising. The energy workshops on current and emerging gas applications and technologies will be promoted through local newspapers and mailings to building industry representatives, government agencies, and people previously expressing an interest in energy efficiency.

Educational Workshops: TGC, in conjunction with its partners, will hold an energy workshop concerning emerging gas technologies. Additional workshops are planned for the future to review projects undertaken that have utilized the newer gas technologies and to discuss the status/progress of emerging gas technologies.

Peer Exchange: TGC will participate in regional peer exchange meetings to learn from other organizations and to also share experiences with them. TGC will also attend the annual meeting of Rebuild America to share and learn from other regions.