

Rebuild Hawaii

Partnering with Rebuild America



Working together for energy and resource efficiency

Steve Holmes Wins RBA Award

Councilmember and Rebuild Hawaii President Steve Holmes won Rebuild America's *Partnership Leader of the Year* award. He was honored with the award at the 2002 Rebuild America National Forum held in New Orleans. This is the fourth Rebuild America award won by Rebuild partners within the Hawaii consortium.

Steve Holmes was recognized for his efforts to promote growth of the Rebuild program in Hawaii and support partnership members throughout the state. To expand and diversify the Rebuild Hawaii Consortium membership, Steve is working to bring in representatives from the local building industry association, property management companies, hotels, unions, and local businesses. He is developing actions to foster peer exchange opportunities, provide support to Rebuild Hawaii Consortium members' projects, and assist in the development of energy conservation projects in federal, state and city facilities.

Holmes advocates the establishment of "demonstration projects" to highlight the effectiveness of new energy conservation technologies. These projects help to convince decision-makers that new technologies bring many benefits. In a sluggish Hawaii economy, the new job creation aspects of these projects are significant and have a multiplier effect throughout the local economy. When budgets are constrained due to economic slumps, energy financing allows for greater leveraging of resources, and provides stimulation for the local economy. The projects become a tool for job generation and economic development. They also serve to broaden awareness of the importance and efficacy of energy conservation projects.

Here is a quick look at some energy conservation projects and legislation that Steve Holmes has championed during his entire 12-year tenure at the Honolulu City Council.

- ◆ Introduced and got support for the city's adoption of the Building Energy Efficiency Standards in 1994 and shepherd updates to those standards through the Council. This legislation alone will save the state over \$300 million dollars over the next 20 years. This legislation alone will save the state over \$300 million dollars over the next 20 years.
- ◆ Spearheaded the Honolulu Hale energy retrofit program, which is estimated to save \$125,000 annually in energy costs.
- ◆ Lead the city to retrofit its traffic lights to LED lights. This will reduce electrical costs by approximately 74% or about \$398,000 annually.
- ◆ Initiated the Kaneohe District Park Heat Pump Project to replace an aged gas water heater system. The energy savings paid for the retrofit in 3.5 years with utility rebates.
- ◆ Passed legislation establishing an Energy-Star procurement policy for the city, and resolutions for the city's participation in the ICLEI campaign and the EPA's Green Lights Program.

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Rebuild Hawaii Consortium President Steve Holmes (right) accepting the Partnership Leader of the Year award from John Milhone, Director of the Office of Weatherization and Intergovernmental Programs, (left).

Check out the other Rebuild America Energy Champions at www.rebuild.org

President's Corner



*Rebuild Hawaii Consortium
President Steve Holmes*

The results of the September elections are in, and it is clear that the November elections will result in remarkable leadership changes at both the state and county levels. This is an unusual opportunity for members of the Rebuild Hawaii Consortium, in their individual capacities, not only to get the candidates on record regarding energy issues, but also to take the opportunity to educate them on energy use and choices.

When I ask the average person on the street about energy, they often speak of alternative energy development and don't seem to recognize the importance of energy efficiency efforts. The efforts of the consortium are a testament to the fact that energy efficiency retrofits have a substantial role to play in decisions about energy--and often make the most sense, economically.

Dr. Amory Lovins of the Rocky Mountain Institute has coined the expression "negawatts," which is a concept where we recognize energy efficiency as a form of new energy generation, and one which has the lowest cost and the highest environmental benefit. The marketplace needs to recognize and value this "negawatt" concept. We need to make sure city and state legislative efforts and policies for alternative energy development recognize the importance of energy efficiency efforts--retrofitting and efficient equipment for new structures.

Requiring energy efficient equipment in all new structures also has a strong impact on energy use. The Building Energy Efficiency Standards adopted on Oahu are projected to save over \$300 million dollars over 20 years by mandating energy efficient equipment in all new structures. Some of the neighbor islands have also adopted comparable energy codes and will also see significant savings. The savings are not only to the property owner, but also represent avoided new generation costs and related impacts. The success of these efforts is evidenced by Hawaiian Electric's recent announcement that because of lower than expected growth demand, construction of a new power plant on Oahu will be deferred.

Educating both candidates and voters on these energy issues is key. Our energy future is, in many ways, in their hands.

New Round of Energy Smart Schools on Oahu & Hawaii



*Guest speaker Steve Lockett,
HECO, explains to Energy
Smart School students how
this demonstration hydrogen
fuel cell works.*

Hawaiian Electric Company's Energy Smart Schools program is underway for the 2002 to 2003 school year. The program is working with 60 ninth graders from McKinley and Radford High Schools. Students are participating in project based learning activities that teach them about energy, energy efficiency, business and marketing. They have started to learn how power plants generate and distribute electricity; and how motors and generators work. Further into the program they will receive training on how to conduct lighting audits on their schools and small businesses in the community. Using information the students compile from their audits students will make recommendations to the schools and business on how they can save money through lighting retrofits. This is the second time the program is being implemented on Oahu and it builds upon the successful pilot program.

On the Big Island the County of Hawaii is partnering with West Hawaii Explorations Academy (WHEA) to start an Energy Smart Schools program. The Academy is located at the Natural Energy Laboratory of Hawaii, (NELHA), which presents students with many exciting opportunities to learn about renewable energy. Training students to be energy auditors is an important component of the program. They will focus on energy used by various water-pump systems that sustain the extensive aquaculture projects that the Academy has already developed. NELHA plans to build a distributed generation testing facility that will be LEEDS certified and the WHEA classrooms will be relocated close to that new building. Students will take this opportunity to get involved in the design of their future campus. They will plan on making design recommendations for building new classrooms that are energy and resource efficient. WHEA is the process of developing a curriculum to begin this fall.

Cont...RBA Award for Holmes

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Currently, through his efforts, the City and County of Honolulu is forging ahead on several fronts to increase energy efficiency. For the fiscal year 2003, the Council budgeted a \$500,000 fuel differential so that the city can purchase bio-diesel for use in our entire diesel fleet (excluding buses). He also proposed that the city reduce the county fuel tax on bio-diesel from 16.5¢ to 8.25¢ to promote this locally-produced alternative fuel. The city is also pursuing a biogas utilization project at the Kailua Wastewater Treatment Plant, which will drastically reduce and/or eliminate \$1 million dollars of annual energy costs at the plant. The engineering report shows a 34% return on investment.

Hana Hou Steve!

CHP Workshops for Neighbor Islands



Register today for the Combined Heat and Power Workshops scheduled for early December.

If you want to learn more about Combined Heat and Power then get ready-- CHP workshops are scheduled for early December on the Neighbor Islands. The workshops are jointly sponsored by the respective counties, The Gas Company, DBEDT, Rebuild America and the Rebuild Hawaii Consortium. There will be a registration fee.

Big Island: "Combined Heat and Power - The Big Island's Emerging Energy Efficiency Resource"

Tuesday, December 3, 2002 from 9AM to 4PM

Orchid at Mauna Lani

Contact Ray Carr 808.961.8497 or Charlie Senning 808-594-5517

Kauai: "Combined Heat and Power: Kauai's Untapped Energy Efficiency Resource"

Wednesday, December 4, 2002 from 9AM to 3:30PM

Radisson Kauai Beach Resort

Contact Glenn Sato 808-241-6393 or Charlie Senning 808-594-5517

Maui: "Combined Heat and Power: Maui's Untapped Energy Efficiency Resource"

Friday, December 6, 2002 from 9AM to 3PM

Grand Wailea

Contact Kal Kobayashi (808) 270-7832 or Charlie Senning 808-594-5517

Upcoming Meetings and Events

2002 Efficient Electro Technology Exposition & Conference

October 23 & 24, 2002

Sheraton Waikiki

For more information contact

Ms. Sam Nichols at snichols@hei.com

or phone 808-543-4753.

Tour de Trash

November 13, 2002

9:15 AM to 5:00 PM

Aloha Tower Marketplace

For more information or to register

online visit www.opala.org

or phone 808-692-5410

Brownfields 2002

November 13-15, 2002

Charlotte, North Carolina

For more information visit

www.brownfields2002.org

or contact the Charlotte Housing

Bureau at 704-331-2741.

2002 AIA/CSI Building Trade Expo

November 20, 2002

Hawaii Convention Center

For more information contact

Barbie Rosario at bkcorp@gte.net

or phone 808-845-4994

Life-Cycle Costing Workshops

February 4 & 5, 2003

February 6 & 7, 2003

Honolulu, Hawaii

For more information contact

Eileen Yoshinaka at

eileen.yoshinaka@ee.doe.gov

or phone 808-541-2564

Rebuild Hawaii

Rebuild Hawaii is a statewide consortium dedicated to promoting efficient energy and resource utilization.

Rebuild Hawaii is working with Rebuild America, a U.S. Department of Energy program, to help community partnerships make profitable investments in existing buildings through energy-efficient technologies.

The partnering of public and private business interests enables Rebuild Hawaii to employ innovative solutions to promote economic growth, lower energy costs, create jobs, and protect the environment.

There is opportunity for anyone to join Rebuild Hawaii. It is a voluntary program with no membership fee.

For more information contact:

Rebuild Hawaii
c/o Department of Business,
Economic Development &
Tourism
Energy, Resources, and
Technology Division
State Office Tower
235 South Beretania Street,
Room 506

Mailing Address:

P.O. Box 2359
Honolulu, Hawaii 96804-2359
Telephone: 808-587-3806
Facsimile: 808-587-3820

Or contact:

Jennifer Webb at
jenwebb@hawaii.rr.com

Visit our web site at:

www.hawaii.gov/dbedt/ert/rebuild/index.htm

Rebuild Hawaii Projects

Rebuild Hawaii currently supports the following projects:

- ◆ University of Hawaii School of Architecture Portable Classroom Cooling Design Guidelines
- ◆ Hawaiian Electric Company Energy Smart Schools project to increase awareness of energy efficiency in schools and communities on the islands of Oahu and Maui
- ◆ Hawaii County Energy Smart Schools project
- ◆ Kauai Lagoons Golf Course Energy Audit
- ◆ Na Makani Energy initiative, a community-sponsored rural project in North Kohala, Hawaii, that is planning for a "soft energy path" in the 21st century based on energy conservation and renewable resources
- ◆ Greening The Campuses, a project to implement resource efficiency at the community colleges
- ◆ Green Office exhibit and awareness program
- ◆ Workshops and technical seminars
- ◆ Multi-disciplinary programs to teach energy and resource management skills at universities and schools

Consortium Members

City & County of Honolulu
County of Hawaii
County of Kauai
County of Maui
Department of Business, Economic
Development and Tourism
Department of Education
The Gas Company/Citizens
Energy Service
Hawaii Army National Guard
Hawaiian Electric Company, Inc.;
Hawaii Electric Light Co., Inc.;
Maui Electric Company, Inc.
Housing and Community Development
Corporation of Hawaii
Judiciary
Kauai Electric/Citizens Energy Services
Hawaii Public Library System
University of Hawaii Community Colleges
University of Hawaii at Hilo
University of Hawaii at Manoa,
School of Architecture
U.S. Department of Energy, Pacific Liaison
U.S. Department of Housing and
Urban Development

Affiliates

Eco-Lite
Energy Conservation Hawaii
Hawaii Society for Healthcare Engineering
SSFM Engineers International

Rebuild America Business Partner
Academic Capital

Meetings

Next Meeting

November 14, 2002
7:30-12:00
HEI Training Room #2
8th Floor Pacific Tower

Previous Meetings

June 2002
Bill Mixon, Rebuild Program
Manager, and Ron Shelton,
Technical Assistance Coordinator,
spoke about products and services
available through Rebuild America.
David Menicucci and Bill Black,
Sandia National Laboratories,
presented Federal Energy
Management Program (FEMP)
products and services related to
security and distributed energy
resources. Jim Maskrey, HECO,
spoke about HECO's PowerTrax.
Steven Golden and Keith Yoshida,
GASCO and Tim Blume, Kauai
Electric overviewed products and
services offered by GASCO/Kauai
Electric.

For a copy of minutes
Telephone: (808) 587-3806
Facsimile: (808) 587-3820
Email: eraman@dbedt.hawaii.gov