



Rebuild Hawaii

Partnering with Rebuild America

Working together for energy and resource efficiency

Larry Hill Powers Up Rebuild Hawaii Meeting

Larry Hill, Ph.D., captured audience interest at a recent Rebuild Hawaii meeting with his presentation on trends in electric restructuring, sustainability, and the implications for Hawaii. Hill is from Oak Ridge National Laboratory, a DOE Research Laboratory, on assignment here at the East-West Center to work on energy related issues. He is assisting cities and mayors, including Mayor Jeremy Harris, on implementing sustainable energy practices in the Pacific region.

Hill began with a look at the global picture. The advances in information technologies are leading to globalization of the world economy and rapid economic growth. Since electricity is the fuel of choice to run information technologies in the future, demand for it will increase. Policymakers are responding to this by restructuring the electric power industry, and improving energy sustainability.

Restructuring of the electric power industry involves federal and state policy initiatives that will change the organization and regulation of the electric industry to increase efficiency and lower the price of electricity. A major incentive for states to restructure and lower electric rates is to keep manufacturing and commercial operations from moving to another



From left to right: Norris Creveston, Tom Van Liew, and Larry Hill discuss the electric power industry in Hawaii

state. Lower rates also help to attract global firms. Currently twenty-five states in the U.S. have restructured their electric industries. There is a direct correlation between states with a high average price of electricity and restructuring.

Policymakers are not just addressing issues of efficiency in power systems; they are also looking at their sustainability. Hill defines sustainable development as using man-made

capital in a way that does not destroy natural capital. Energy production is a threat to sustainable development. One-third of the greenhouse gas emissions comes from the power sector. As the demand for electricity increases so will greenhouse gases.

Hill reviewed three things that are being done to promote sustainable, clean electricity:

- 1) The adoption of clean electric technologies such as clean coal boilers

continued on page 2

Inside this issue: Larry Hill /1 * Web-Site Update /2 * Implementing Projects /3 * SEI /3

Rebuild Hawaii



State of Hawaii
Department of Business, Economic
Development & Tourism
Energy, Resources, and Technology
Division
P.O. Box 2359
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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

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Development & Tourism
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Or contact: Jennifer Webb at

Leaders In Energy Efficiency

Rebuild Hawaii Consortium

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

Energy Conservation Hawaii
Hawaii Society for Healthcare Engineering
SSFM Engineers International

Rebuild America Business Partner
Academic Capital

Rebuild Hawaii Projects

Rebuild Hawaii currently supports the following projects:

- ◆ Hawaiian Electric Company small commercial business project to determine new market transformation approaches and break down barriers to installation of energy efficiency devices in the small commercial sector
- ◆ Hawaiian Electric Company EnergySmart Schools project to increase awareness of energy efficiency in schools and communities
- ◆ 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

Larry Hill continued...

- 2) Promotion of renewable energy policies including renewable portfolio standards and green pricing
- 3) Energy efficiency programs at national, state, and local levels. Different implementing mechanisms for energy efficiency programs include:
 - ◆ Utility run programs
 - ◆ Publicly run programs
 - ◆ Public-private partnerships
 - ◆ Market transformation programs
 - ◆ Public benefit fund
 - ◆ Energy service companies

Hill noted how utility-run energy efficiency programs are decreasing on the mainland because of restructuring.

Hill continued with what he thinks are the implications from all of this on Hawaii. "From my experience in the industry, drastic restructuring of the Hawaiian electric industry cannot be done effectively," said Hill. Not like the restructuring happening in states on the mainland. However, he does feel Hawaiian Electric Company Inc. (HECO) faces competition on the retail side.

Hill wrote a paper in conjunction with the Department of Business, Economic Development and Tourism (DBEDT) called *Energy Efficiency Policies to Promote Sustainable Economic Growth in Hawaii - Response to Technological Change and Globalization*. This paper looks at broad trends in the world related to restructuring and energy efficiency, particularly on the mainland, in order to investigate similar options for Hawaii.

For more information, contact Larry Hill at (808) 944-7511, or e-mail hilllj@orml.gov.

Hill advocates that the State undertake the following to improve energy efficiency in Hawaii:

- 1) Investigate the cost effectiveness of time varying (by hour,day,season) electric rates
- 2) Investigate the applicability of performance-based ratemaking to Hawaii utilities
- 3) Investigate the potential impact of small-scale electric-generating technologies on Hawaii and its utilities
- 4) Act as a catalyst in developing a "green buildings" initiative
- 5) Promote the adoption of new building technologies
- 6) Expand the scope of the Rebuild Hawaii Consortium to include other than building sectors
- 7) Promote life-cycle costing for state and county government purchasing
- 8) Sponsor a public-awareness campaign on the potential impacts of global warming for Hawaii
- 9) Investigate the harmful effects of imported energy on the Hawaii economy
- 10) Be a catalyst in strengthening Hawaii's energy service industry by creating a mechanism to enhance energy retrofits in state and county government buildings
- 11) Use Hawaii's geographical advantage to develop an Asia-Pacific energy services industry

New Web-Site

Have you checked out the new Rebuild Hawaii web-site?

You should. The new site contains a lot more information on current activities in Rebuild Hawaii. There are new individual project pages and a resources page listing helpful links to informative sites. New links will be added to the resources page regularly. The member's page now contains links to each member's web-site. This gives site visitors a chance to learn more about the Rebuild Hawaii members.

Another change is in the site's appearance. A new colorful and dynamic look replaces the old one. The web-site will be a constantly developing medium to highlight and provide information on Rebuild Hawaii activities. So be sure to visit <http://www.hawaii.gov/dbedt/ert/rebuild/index.htm>.

Suggestions are welcome, send those and any information you would like to share to Jennifer Webb at rebuildhawaii@hotmail.com.

Looking for support on a project?

The Rebuild Hawaii Consortium may be able to assist you.

Do you have a project concept that will help bring energy and resource efficiency opportunities to Hawaii but need additional assistance to implement it? Then present it to the Rebuild Hawaii Consortium during one of the quarterly meetings. If the Consortium agrees the project furthers Rebuild Hawaii's mission, then members will assist you in finding ways to implement it.

Consortium members will help you brainstorm to develop project concepts and direction. Members from many professional and technical backgrounds can be a valuable resource for your project. They can help you locate funding and technical assistance. Some members may even volunteer services or in-kind to assist with the project.

One example of Rebuild Hawaii Consortium members working together is the EnergySmart Schools project to increase awareness of energy efficiency in schools and communities. This project involves consortium members from Hawaiian Electric Company, Department of Education, U.S. Department of Energy, and Department of Business, Economic Development and Tourism, and Waianae and Kalaheo High Schools. The success of projects like this starts with an idea then the cooperative effort by Rebuild Hawaii Consortium members to develop and implement them. Take a look at other projects currently supported by the consortium on page 4.

Maybe you have a project you would like to present at the next Rebuild Hawaii meeting in September.

SEI Helping Rebuild Hawaii

Since Rebuild Hawaii's inception in 1998, Strategic Energy Innovations (SEI) has assisted it in developing its identity and direction, under contract with State. SEI is a non-profit corporation based in San Francisco. Cyane Dandridge, Executive Director of SEI, was asked by Maurice Kaya to come to Hawaii and facilitate several consortium meetings and to share experiences from other community partnerships on the mainland. By leading two visioning meetings, SEI helped the consortium define and develop Rebuild Hawaii's mission and objectives. SEI opened a local office in 1999, and hired Jennifer Webb to run the office. With Jennifer, SEI continues to assist Rebuild Hawaii, through developing newsletters, mailing lists, meeting minutes, and a web-site. This maintains momentum in the growing consortium and provides marketing assistance for members.

SEI also provides project assistance to Green Schools and a variety of other initiatives. This year SEI is working with Hawaiian Electric Company on the very successful EnergySmart Schools project (for more details, see earlier newsletter articles).

"The work the Consortium is doing is very exciting," says Dandridge. "I often use Rebuild Hawaii as a model for what can be achieved with community partnerships." She hopes SEI can continue to help link businesses and resources to Rebuild Hawaii making it a stronger and more successful consortium.

Meetings

Next Meeting

September 15, 2000

8:30-noon
Room 5-208
Federal Building

June 2000

Larry Hill, Ph.D., presented policies and recommendations for promoting energy efficiency in Hawaii. Steve Meder proposed two projects, Green Offices and Green Hotels. Cyane Dandridge reported on a recent Rebuild America Business Partners Forum. Ray Carr, Glenn Sato, and Cyane Dandridge led a session on Rebuild Hawaii business affiliates.

March 2000

Doug Hinrichs from D&R International presented a comprehensive marketing plan for the Consortium. Neal Wu spoke about the Hope VI Mayor Wright Project. Michael Flores reported on the Partnership for Advancing Technologies in Housing (PATH).

For a copy of minutes from previous meetings:

Telephone: (808) 587-3806
Facsimile: (808) 587-3820

Funding Opportunities

The Seattle Regional Office of the U.S. Department of Energy has compiled a newsletter on energy and environmental grant opportunities from the Federal Government and other sources. To receive a copy of this newsletter by e-mail, contact Laurie Brown at LAURIE.BROWN@hq.doe.gov.