

**Rebuild Hawaii Consortium**  
**November 8, 2001**  
**Meeting Minutes**

**C.H. Guernsey & Co.**– Scott Bly; **County of Hawaii**– Raymond Carr; **County of Kauai**– Glenn Sato; **Department of Accounting and General Services (DAGS)**—Richard Yasunaga; **Department of Business, Economic Development & Tourism (DBEDT)** – Carolyn Shon, Liz Raman, Dean Masai, Howard Wiig, Andrea Gill; **Earth ReNew, Inc.**-Bob Ahsing, Glen Lindbo; **Eco-Lite and Hawaii Society for Healthcare Engineering (HSHE)**– Tom Brennan; **The Gas Company**- Steve Golden; **GE Lighting**—Glenn Sameshima; **Global Engineering & Construction, LLC.**—Kashmira Reid; **Hawaii State Public Library System (HSPLS)**- Lynn Zane; **Hawaiian Electric Company, Inc. (HECO)** – Norris Creveston, Jim Maskrey, Sam Nichols, Tom Van Liew, Dave Waller; **Hawaiian Electric Light Company, Inc. (HELCO)** -- James Moulds; **Hickam Air Force Base**– Dave Stiner, Joe Ventrice; **Honolulu City Council**—Steve Holmes; **Housing and Community Development Corporation of Hawaii (HCDCH)**- Wayne Nakamura; **Inter-Island Solar Supply**-- Cully Judd; **Lawrence Berkeley National Laboratory**—Mike Simminovitch, Erik Page; **Marine Corps Base Hawaii**—Bill Nutting; **Navy PWC Pearl**—Nate Eisenpress; **P.J. O’Reilly & Associates**—P.J. O’Reilly; **Pearl Harbor Naval Shipyard**—Gary Shimabukuro; **Strategic Energy Innovations**– Jennifer Webb; **U.S. Department of Energy Pacific Liaison**– Eileen Yoshinaka; **U.S. Department of Housing and Urban Development (HUD)**—Lynn Lee; **University of Hawaii Community Colleges**– Maynard Young

**Eileen Yoshinaka** made a special announcement that **Dave Waller**, HECO Energy Services Department, had received the Louis R. Harris, Jr. Award from the Department of Energy’s Federal Energy Management Program. Dave was recognized for his work with the Federal agencies in helping them achieve goals outlined in Executive Order 13123.

Rebuild Hawaii Consortium welcomed a new Business Affiliate **Eco-Lite**.

**Reports from Consortium Members on New Activities**

Steve Holmes reported on **City and County of Honolulu** projects:

- The performance contract for retrofit of City Hall was finalized.
- Retrofits on the City and County of Honolulu’s Traffic Signal System continue. The existing green and red lamps will be replaced with LED modules. The retrofit project will not include yellow LED modules due expense and short on-time they turned out to be not cost effective.
- New City & County traffic signal installations will have red, yellow, and green LED modules.
- Street corners that are getting modified and the signals moved to improve ADA accessibility will receive all three colors of the LED modules. Federal ADA funds are used for the street corner and signal modifications.

Glenn Sato reported on **County of Kauai** projects:

Glenn spoke about a technical assistance program to help the Kauai Lagoons Golf Course with its irrigation system. This assistance is made possible through a Rebuild America grant. Steve Bolles, a Motor Challenge consultant working with County of Kauai's Water Department, will look at their irrigation pumping and motor systems. The golf course is experiencing problems with old equipment and will need to change it out and wanted some expert opinions. The connection with the County is that Kauai Lagoons is the effluent disposal system for the Lihue sewer treatment plant. So it is very important that they stay in operation.

Andrea Gill reported on the **Remote Renewables Project**.

This project is aimed at installing 100 low-cost solar water heaters in homes on the Big Island. A non-profit, Plan To Protect (working with Na Makani Energy Initiative), was subcontracted to implement the project in the North Kohala community. HELCO partnered in this effort by renewing their Residential Conservation Program. Around two-dozen installations went in late last year. The initial focus was in homes in North Kohala but the contractor decided to try a little broader net and expand to the entire island. The contractor is also working closely with HELCO's Solar Retrofit Program and has enjoyed some success piggybacking on that. The contractor instituted some income guidelines to have the people qualify for the Remote Renewables Low Cost Solar Water Heater Program. There have been 20 installations in response to the new effort over the last couple of months. Private sector marketing proved to be a lot more effective in getting into the community than community word of mouth.

Steve Golden reported on **The Gas Company** projects:

The Gas Company is planning to hold neighbor island conferences on distributed generation in either the spring or summer of 2002. This will provide educational outreach to outer island professionals who may not have a chance to come to Honolulu to attend conferences. They will coordinate with the County representatives to work on bringing in distributed generation experts from the mainland to speak at the conference.

Sam Nichols reported on, **Hawaiian Electric Company** projects:

Finalizing a scope of services for the next phase of Energy Smart Schools. The project will work with two high schools and will start Fall 2002. If anyone is interested in giving a talk on energy saving measures or related careers to the students contact Sam at [snichols@hei.com](mailto:snichols@hei.com) or call 543-4753.

Wayne Nakamura reported on **Housing and Community Development Corporation of Hawaii** projects:

Wayne reported that all of their new housing projects will install solar hot water heating.

Lynn Zane reported on **Hawaii State Public Library System** projects:

- Working on an RFP
- DAGS is taking care of the rules, regulations and legalities
- Will work with the Consortium to fine tune the scope and technical portion

- Will use DBEDT's consultant to help with scope review, proposal review, and negotiations with ESCO.

Eileen Yoshinaka reported on **U.S. DOE** activities:

- The Rebuild America National Forum will be held July 2002 in New Orleans. If your partnership is interested in going contact Elizabeth Raman at [eraman@dbedt.hawaii.gov](mailto:eraman@dbedt.hawaii.gov) or call 587-3806.
- If you want to apply for grants under the State Energy Program Special Projects there will be funding again in 2002. Partnerships with project ideas have to be submitted through the State so get them to Elizabeth Raman soon. Hawaii partnerships have received funding every year the State has applied.
- Check out page 7 of the September-October 2001 issue of Rebuild America Partner Update--it features an article on Rebuild Hawaii Consortium President Steve Holmes.

Dave Stiner reported on **Hickam Air Force Base** projects:

- Currently working on an Energy Saving Performance Contract (ESPC) project. This is the second project they are doing with Honeywell. They are on phase II of Task Order 2 which is the investment grade audit and looking at accomplishing some conservation initiatives with 109 military family housing units and 32 Industrial units. Conservation initiatives they are looking at include solar water heating, solar attic fans, radiant barriers, and efficient lighting.
- Installed 10 PV lights along pathway outside of the Onizuka housing.

Scott Bly, C.H. Guernsey & Co., reported on **Army** projects:

- The Army is installing a small CHP plant at Fort Shafter through an ESPC contract with Hess Microgen. The project will include water heating, absorption chilling and power generation fueled by SNG. This is the first project using the ESPC contract that was awarded in 1999.

Bill Nutting reported on **Marine Corps Base Hawaii** projects:

- Family housing reconstruction program going on, and from now on they will install solar panels on roofs. Starting with 184 units (solar panels) on a family housing project currently under construction. A total of 1500 additional family housing units will be replaced over the next 8 years. Included are 237 family housing units currently in design that include solar panels. All remaining reconstruction is expected to include solar panels for domestic hot water.
- Their next barracks project will include waste heat recovery. Desuperheaters will recover waste heat from chillers as the primary source of domestic hot water and air-source heat pumps will provide back-up.
- Retrofitted waste heat recovery is already being used to provide 90% of the domestic hot water needs in existing barracks. Successful waste heat recovery retrofits include water-source heat pumps and desuperheaters.

Gary Shimabukuro reported on **Pearl Harbor Naval Shipyard** projects:  
In partnership with HECO doing a chill plant project and changing out lights. The project is 75% complete. They will have more on this project's status in February 2002.

Ray Carr reported on **County of Hawaii** projects:

- The traffic light division continues to install green and amber LED modules. Many of the signals have battery backup so if the electricity goes out they can be maintained.
- Steve Bolles has finished a study for all the districts in the Department of Water. He did identify potential for very large savings through a variety of possible energy conservation measures. For an estimated investment of around \$ 15 million in energy retrofits probably would save \$ 1-2 million per year.

**Mike Siminovitch, Lawrence Berkeley National Laboratory, presented the Berkeley Lamp.** This lamp is a high performance table lamp system designed for computer and office work environments.

The lamp features:

- Low glare
- Dimmable (a range of 10-100%)
- Unique control features (allows the consumer to control light distribution)
- Energy-efficient (reduces need for overhead lighting in offices, offering a energy savings of 30-40%)

Provides three unique light distribution choices:

- Task & Ambient (a top and bottom light projection that provides 6400 lumens)
- Ambient (a indirect top light mode that provides 300-3000 lumens)
- Task (a bottom light mode that provides 400-3400 lumens)



*This picture of the lamp (without its shade) shows the reflective "septum" designed to maintain flux in light.*

Berkeley Lab is working with the Sacramento Municipal Utility District (SMUD), Southern California Edison (SCE), and Pacific Gas and Electric (PG&E), to acquire and field-test the lamps.

They originally started this application for hotels. The Doubletree-Hilton in Sacramento installed the Berkley Lamps and noticed a reduction in calls from guests for lamp support. The lamps work well in leased business space. Tenants may not be able or willing to retrofit the lighting in space they lease but rather buy the lamps.

To find more information on the Berkeley Lamp visit  
<http://lighting.lbl.gov/projects/table/table.html>

**Dean Masai presented on the Residential Energy Efficiency Field Guide for Energy, Performance, Comfort, and Value in Hawaii Homes.**

This Field Guide provides detailed illustrations and other information that show how to design and build an energy-efficient, comfortable, and economical home in Hawaii.

Development of the guide was part of the Residential Energy Efficient Building Guidelines Project. It was developed for home design and building professionals, and related professionals. A consumer version of the guide will be developed for the general public, lenders, realtors, and others in the local building industry.

The Field Guide includes sections on:

- Introduction on building for energy performance, comfort, and value in Hawaii (climate and comfort)
- Design for comfort and value (controlling heat gain and air flow)
- Reduce Energy Bills (solar water heating, water-conserving fixtures and appliances, high-efficiency equipment, efficient operation and maintenance)
- The Big Picture: How you build your home matters (cost of energy, energy-efficiency pays off in savings and comfort, incentive programs and other resources)

For more information on the Field Guide contact Dean Masai at [dmasai@dbedt.hawaii.gov](mailto:dmasai@dbedt.hawaii.gov) or call 587-3804.

P.J. O'Reilley, P.J. O'Reilley & Associates, presented an outline for a **Video on Rebuild Hawaii**. The purpose of the video is to inform viewers about Rebuild Hawaii, encourage greater participation in the program, a call to action. It is envisioned as a direct appeal to business owners and CEOs to save money by saving energy. The video will be aired on Olelo and possibly commercially broadcast. Additionally it could be played at trade shows, individual presentations and on web sites. Video content will include a brief description of Rebuild Hawaii, demonstration projects, description of how these initiatives can save companies money.

Jim Maskrey presented the new **Rebuild America web site**. Visit the site at <http://www.rebuild.org/index.html>. Jennifer Webb presented the new **Rebuild Hawaii web site**. Visit the site at <http://www.state.hi.us/dbedt/ert/rebuild/>.

Robert Ahsing and Glen Lindbo from Earth Renew presented a product called **Energy Guard**.

**Upcoming Events**

- Energy 2002“Hot Challenges—Cool Solutions” an energy efficiency workshop and exposition to be held in Palm Springs, CA June 2-5, 2002. Register online at [www.energy2002.ee.doe.gov](http://www.energy2002.ee.doe.gov) or call 800-395-8574.
- Workshop on Interconnecting Distributed Energy December 12-13, 2001 at the Sheraton Waikiki Hotel. Go online to get a copy of the event flyer at [www.hawaii.gov/dbedt/ert/wksp-icw.html](http://www.hawaii.gov/dbedt/ert/wksp-icw.html) or contact Eileen Yoshinaka at 541-2564 or Maria Tome at 587-3809.