

**Rebuild Hawaii Consortium
August 9, 2001
Meeting Minutes**

City & County of Honolulu Department of Design and Construction- Allyn Lee; **County of Hawaii-** Raymond Carr; **County of Kauai-** Glenn Sato; **Department of Accounting and General Services**—Richard Yasunaga; **Department of Business, Economic Development & Tourism (DBEDT)** – Maurice Kaya, Liz Raman, Dean Masai, Howard Wiig; **Department of Health**—Marlyn Aguilar; **Earth ReNew, Inc.-** Bob Ahsing; **Eco-Lite and Hawaii Society for Healthcare Engineering (HSHE)**– Tom Brennan; **Energy Smart Pools-** Douglas Hardy; **The Gas Company-**Charlie Senning, Steve Golden; **Global Engineering & Construction, LLC.**—Kashmira Reid; **Hawaii State Public Library System (HSPLS)-** Keith Fujio, Lynn Zane; **Hawaiian Electric Company, Inc. (HECO)** – Norris Creveston, Sam Nichols, Tom Van Liew, Jim Maskrey, Dave Waller; **Hawaiian Electric Light Company, Inc. (HELCO)-** David Kurohara; **HIARNG-**Peter Ludlum, Jennifer VandeBrake; **Hickam Air Force Base-** John Camara, Dave Stiner; **Honolulu City Council**—Steve Holmes; **Housing and Community Development Corporation of Hawaii (HCDCH)-** Wayne Nakamura; **Housing and Urban Development (HUD)**—Lynn Lee; **Inter-Island Solar Supply-** John Ogrodny, Walton Young; **Johnson Controls, Inc.-** Gordon Bu, Michael Chang; **Navy PWC Pearl**—Nate Eisenpress; **Navy Region Hawaii-** Kevin Saito; **PACDIV**—Eric Kawamoto; **Pearl Harbor Naval Shipyard**—Gary Shimabukuro; **Strategic Energy Innovations**– Jennifer Webb; **U.S. Department of Energy Pacific Liaison**– Eileen Yoshinaka; **University of Hawaii Community Colleges**– Dien Truong; **University of Hawaii School of Architecture**– Steve Meder.

Eileen Yoshinaka, U.S. Department of Energy Pacific Liaison, reported on the Distributed Generation Workshop held during July 24-25, 2001. Around 190 people attended. Eric Kawamoto said the workshop broaden his perspective of what distributed generation is. Glenn Sato said he liked the case studies presented, and Charlie Senning said the workshop provided guidance on how to get started.

Tom Van Liew, HECO, reported on the ASHRAE Building Commissioning Workshop held during June 14-15, 2001. The workshop had 57 participants and provided technical information.

Reports from Consortium members on new activities

Steve Holmes, Honolulu City Council, reported the Mayor’s office held a signing ceremony for Bills 53 and 54 on August 8, 2001. Holmes thanks those Consortium members who were involved and helped to build momentum to get the bills through. The LED traffic signal lamps are being put in. These lamps will provide up to 90% energy savings and around \$400,000 a year cost savings. Johnson Controls, Inc. received the go ahead on the City Hall retrofit project.

Ray Carr reported on County of Hawaii's performance contract with Honeywell, Inc. for the retrofit of two police stations. The project will be finished this month; the cost was 1.4 million and will result in a \$140,000 a year savings on energy costs.

Liz Raman, DBEDT, reported the *Case In Point* handouts are now available. These handouts are part of the Rebuild Hawaii Consortium Marketing Plan and provide a thorough look at projects. Case In Points include:

- Maili II: Emphasizing The Public In Housing;
- Hawaii Has Discovered Energy Solutions For Small Business;
- 20 Take-Home Lessons From Performance Contracting;
- High Performance Contracting: Hawaii County Building Retrofit; and
- HECO Connects With The Community.

For copies, contact Liz Raman at 587-3806.

Liz also reported on the University of Hawaii at Hilo project. This is a performance contract project between the State of Hawaii and Johnson Controls, Inc. In the project's third year of operation it is exceeding the savings guarantee by \$46,000. Since they started the project they have seen a savings of up to \$ 2 million. The total project investment was \$ 2.9 million.

Charlie Senning, The Gas Company, reported on a new Gateway Project to study hydrogen development, production, storage and use as fuel.

Hawaii Army National Guard

They have started an aggressive approach to energy conservation in the development of their buildings. This will help them to comply with the Greening of the Army.

Sam Nichols, HECO, reported the Energy Smart Schools and Maui Schools final reports are finished. The reports were submitted to Department of Education. The next step is to work with the DOE to find ways to implement lighting retrofits. HECO's Energy Solutions for Small Business Program is still moving along.

Wayne Nakamura reported on HCDCH projects. HCDCH is working with DBEDT's Energy, Resources and Technology Division on the Kalihi Valley Homes Project.

Keith Fujio reported on Hawaii Public Libraries projects. They turned in a draft procurement proposal to DAGS. Lighting retrofits—replaced over half the systems over the last couple of years

Dien Truong reported on The Energy Services for Kauai Community College project. The project has a savings guarantee of \$39,112. The actual savings for April 2000 to March 2001 was \$90,967. One of the reasons the savings exceeded the guarantee was because of an increase in electricity rates.

Steve Meder reported on University of Hawaii School of Architecture projects. The Green Office Display will be at the October AIA Western Regional Conference. SOA built four full-scale testing modules to measure heat gain through rooftops. They will test the portable units in Waianae—then write guidelines on how to make these units more comfortable.

Richard Yasunaga reported on Department of Accounting and General Services. They are in the process of conducting lighting retrofits on various buildings.

Maurice Kaya—Rebuild Hawaii Consortium—First Four Years

Maurice highlighted Rebuild Hawaii Consortium accomplishments over the past four years. See Maurice’s attached PowerPoint presentation. One of his slides really stood out—a bulleted list of estimated benefits from State and County Rebuild America projects.

- Energy Savings 73.4 GWh
- Annual Savings \$9.6 million
- Jobs Created 744
- Income to Economy \$28 million
- CO2 Reduction 68,035 tons

Maurice emphasized the importance for partnerships to continue doing great projects. The more great projects there are the easier it is to say to DOE or Congress that they need to continue to provide assistance to partnerships to keep those projects going. He also pointed out that there is increased recognition on the value of a strong statewide network. Maurice says he will continue to work closely with Department of Energy management and regional offices and The National Association of State Energy Officials.

Eileen Yoshinaka encourages Consortium members to “bend Maurice’s ear” on energy related issues. Maurice is Chair of the State Energy Advisory Board. The board helps States to work together with the Department of Energy to better conduct energy efficient and renewable energy programs. US Congress established this board when they enacted the Energy Policy Act in 1992.

Certificate presented to Maurice Kaya

Steve Holmes presented Maurice with a certificate on behalf of the City and County of Honolulu to thank Maurice for all his hard work and leadership on energy issues.

Results of Nominating Committee and Election of Officers

The new Rebuild Hawaii Consortium Officers

President: **Steve Holmes** Vice President: **Jim Maskrey**

Remarks of Incoming President Steve Holmes

Holmes looks forward to working with the Consortium and will be calling members to get ideas on ways to empower the group. He wants to bring in more resource people and find out what kinds of speakers will be of benefit to the Consortium. Holmes also wants to bring in more members from trade industry groups.

Marlyn Aguilar presented on *Disposal of Light Bulbs and Ballasts*.

See attached handout. Hazardous lamps include, fluorescent, high-intensity discharge, mercury vapor, high-pressure sodium, metal halide, and neon. The Department of Health gives generators two options with handling spent lamps. The lamps can be handled either as hazardous waste or as universal waste. The new Universal Waste Rule is a streamline requirement under the hazardous waste rule. Rules for how a generator handles storage and disposal of lamps will depend on the size of the generator. The Department of Health is encouraging businesses to practice pollution prevention by purchasing lamps that contain reduced levels of mercury and/or recycling lamps.

Howard Wiig presented on *Model Energy Code*.

HiLites software helps you comply with the lighting portion of the Model Energy Code. Plug in numbers and adjust wattages in design areas until you get a “pass”. You can print it out and attach to your designs when you take it down to the permitting department. The program can be adapted to include FEMP standards ASHRAE 90.1-1993.

The residential requirement for R-19 in roofs will help eliminate the need for air-conditioning in new residences. This bill is unique in the United States and allows four paths to achieve R-19 or equivalent.

- Cellulose or fiberglass
- Foam board
- Radiant barrier + good ventilation
- Cool roof

Most energy codes today are based on a Mid America climate and have emphasis on keeping heat in buildings. What type of energy code is ideal for Hawaii’s climate? Are there new technologies to put into the State’s code?

- High performance windows
- Heat pipes
- UV lamps
- Roof color
- Day-lighting
- Controls

Allyn Lee, City & County of Honolulu, and **Michael Chang**, Johnson Controls, Inc, demonstrated the latest generation of LED traffic signal to the Consortium. The signals will save taxpayers \$315,000.

Upcoming Events and Activities

- 2001 Pacific Coast Electrical Association (PCEA)-Hawaii Conference & Expo during September 20-22, 2001 at Outrigger Waikoloa Beach Hotel on the Big Island. Contact Destination Hawaii at 538-6200.
- The next Rebuild America Seattle Regional Peer Exchange Meeting has been scheduled for the week of November 25, 2001; place not yet determined in the Northwest. Details including an agenda should be available around mid-late September.
- The next Rebuild Hawaii Consortium Meeting will be held either at the end of October or the beginning of November.

Prepared by Jennifer Webb