UHH Energy Savings and Sustainability Committee

Meeting Notes April 8, 2009

Time 12:30pm – 2:30pm

Place: Kilauea Financial Plaza UHH Conference Room

<table>
<thead>
<tr>
<th>Attendees</th>
<th>Department/ Organization</th>
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<tbody>
<tr>
<td>1. Justin Avery</td>
<td>Student Representative</td>
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<td>2. Debra Fitzsimons</td>
<td>VC Administrative Affairs</td>
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<td>3. Lo-Li Chih</td>
<td>Facilities Planning</td>
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<td>4. Kolin Kettleson</td>
<td>Aux Services</td>
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<td>5. Gail Makuakane- Lundin</td>
<td>Student Affairs</td>
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<td>6. James Cromwell</td>
<td>Student Affairs</td>
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<td>7. Chelsae Yadao</td>
<td>VC Admin Affairs Student Worker</td>
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I. Introduction of Energy Management Audit – Lo-Li Chih
   a. UHH has received the draft of the audit
   b. An internal review is needed to proceed any further
   c. Within the audit a number of items have been identified to be considered for improvements
   d. The audit included the energy profile for the University Classroom Building and the Campus Center on UHH campus

II. Energy Audit – Consultant
   a. Keithly Barber Associates
      i. Representative – Pete Keithly
         1. Researched some programs at other colleges that UHH could also look into to see if UHH could integrate some of these methods on campus.
            a. Texas A&M
               i. Started in 1991
               ii. Has physical plant services
               iii. Energy savings and sustainability is widely integrated across campus
               iv. Has a constant savings of 30%
               v. Examples of integrated systems
1. lighting retrofits – day lighting control
2. building controls
3. 257 auxiliary meters connected
4. Energy analysis
5. Energy awareness across campus – festivals and days dedicated towards this

b. Washington State University
   i. Has an energy extension service that incorporates the outside community.

ii. Their business entails:
   1. Building projects – Overseeing the process from the beginning to the end.
   2. Review specifics of submittals made by the contractors
   3. Test scripts
   4. Work with Air Conditioning
   5. Work with control systems
   6. Has a large roofing business
   7. Improve the quality of the process of building and the process of building improvements
   8. Develop commissioning and retro-com guides
   9. They have worked with DEBEDT
      a. Project was done at the University of Hawaii at Manoa with their energy management duties.
   10. Have technical and energy management programs

iii. Suggestions from KBA
   1. Research other college programs and integrate into UHH campus
   2. Look into hiring a person for resource conservation management
   3. To make this process easier UHH needs a lot more participation across campus – teachers, students, clubs, etc.
   4. UHH needs to understand the utility programs and performance contracts
   5. When 10% of savings in overall electrical bill is possible, take that amount and put it into a program
      a. UHH has shown interest in creating a program on energy management and sustainability
      b. Energy Conservation Management would be a good program for UHH

III. Follow up items from last meeting: 

   Will be addressed at next meeting

   a. Student activities
   b. Communications and marketing
   c. Internship opportunity for student to be sustainability coordinator

IV. Update
a. Recycling and Refuse – Kolin Kettleson
   i. There will be a rebidding opening on April 20, 2009 for refuse and recycling pick up.
   ii. The reward if UHH wins the bids will be shown at the end of the fiscal year on June 30

b. Sustainability Grants – Gail Makuakane-Lundin
   i. Looking for grants for sustainability activities and solar panels
   ii. Wants to use Kipuka as a renovation project
       1. Wants to renovate and retrofit to become “The Kipuka Center for Sustainability”
       2. Be model for the rest of the university