

Campus Facilities Planning Board (CFPB)

Summary Points of Meeting

August 5, 2010

Hawai'i Hall 309

2:00 pm – 4:00 pm

Attendees: Eric Crispin, David Hafner, Reed Dasenbrock, Vassilis Syrmos, Clark Llewellyn, Mark Gilbert, and Ann Sakuma

Guests: Cindy Regnier (Lawrence Berkeley National Laboratory) and Gordon Grau (Sea Grant)

Kuykendall Hall Update (Retro-Commissioning Project) – Cindy Regnier

- Commercial Building Partnership Program (Department of Energy)
 - Aims to reduce energy use in the commercial building sector thru high performance design, construction, and operations
 - Provides funding for technical assistance and analysis
 - Opportunity for increased outreach, public relations, etc.
 - Cost tracking performed at each stage of design and at project completion
 - Technical and business case studies provided
 - Provide assistance with a deployment plan for proven ECMs

Program Goals:

- Provide optimal learning environment – improve indoor environmental conditions
 - Strive toward net zero energy building
 - Provide a world-class low energy design
 - Capacity building within student body, faculty, staff, and state
 - Living laboratory
 - Improve connection to the exterior environment (quality of life)
 - Maintainable and functional facility (long-term operation)
- Kuykendall Hall (\$9M project)
 - Built in 1962 as a naturally ventilated building
 - In the 1980s, building was enclosed to block-out exterior noise and air conditioned
 - The bridge way between the buildings remains naturally ventilated
 - Occupants = English, ITS classrooms, OFDAS
 - Users = students, teachers (a lot of classrooms)

Project Goals:

- Key to repairing the building will involve engaging all stakeholders (including faculty and students) and curing long-standing deficiencies
- Establish this as a flagship project of an instructional building to set an example for UH and Hawai'i to move toward longer term energy independence goals and demonstrate innovation in sustainable tropical architecture

- Build capacity among UH students, research staff, and local design community
- To have everyone involved “rethink” how they work and live to achieve dramatic energy efficiency
- Noise (acoustics) is a major challenge of this building and surge space will need to be addressed as work moves forward on the building
- Emergency access and delivery routes/constructions are issues to be addressed in the overall campus plan.
- CBP Pilot Project under LBL is proposed to include:
 - New York Times Building, New York, NY
Advanced low energy shading, lighting and HVAC
 - NASA AMES, Moffet Field, CA
Net zero ‘Sustainability Base’ new building
 - Kuykendall Hall, UH-Mānoa, Honolulu, HI
Retrofit towards net zero, bioclimatic natural ventilation emphasis
- UH Mānoa has a “Fork on the Road” (decision to be made). Alternatives on this project are :
 - A) Maintain the current campus renovation paradigm, modernizing and maintaining the current building systems
 - Modest improvements to energy efficiency and energy savings
 - ***** OR *****
 - B) “Re-think” the building comprehensively to achieve the original design intent emphasizing natural ventilation, using modern analytical tools and techniques, while achieving acceptable indoor environmental conditions for learning
 - Repair the building, engage all stakeholders, cure long-standing deficiencies
 - Achieve dramatic energy efficiency
 - Set an example for UH and Hawaii to move toward longer term energy independence goals and demonstrate innovation in sustainable tropical architecture
 - Build capacity among UH students, research staff, and local design community

Conclusion: Committee agrees to move this project forward with Option B – “Rethink the building comprehensively under the Commercial Building Partnership Program with LBL (Lawrence Berkeley National Laboratory)”

HIMB Coconut Island Power Purchase Agreement (PPA) Update – Eric Crispin

- This project is in the midst of the bidding process.
- Goal is to secure long-term, cost effective, environmentally, socially, and culturally responsible energy source for Coconut Island (HIMB). To make Coconut Island energy, waste, and water neutral and/or independent thru photovoltaic and wind energy.
- Source of Funds: Castle Foundation and Pauly Foundation (?). \$350K private donation made to UH Mānoa to move this project forward.

- Contractor selection targeted for September 10, 2010.
- Estimated notice to proceed targeted for October 18, 2010.
- Next steps for this project include:
 - Obtain recommendation to proceed from CFPB
 - Have the procurement office review the contract award.
 - Facilities Management to assign a facilities program manager for capacity-building and coordination (site access, etc.). Recommend to use this project as a pilot to establish a template for units located outside of the main campus to follow as a reference when in a similar situation.
 - Project start date will be set.
- Will need to complete the re-roofing of HIMB before proceeding with installation of PV.

Conclusion: Committee approves the conceptual plan of the project and agrees to move forward with this project.

General Use Classrooms – Reed Dasenbrock

- Proposal discussed with MET and was received with favor.
- White paper will be addressed at the upcoming Dean’s meeting next week.
- One of the main questions is whether classrooms will be improved if they were released into a pool.
- David and Reed to review plan on upgrading classrooms – refurbishing classrooms and improving the quality of classrooms – using CRDM funds.
- Classroom design standards (preliminary draft) should be taken into consideration when investing in classroom improvements. Use this opportunity to improve the draft by making necessary changes to accommodate current/future needs and requirements.
- Option: Use tuition funds for classroom improvements to improve students’ educational experience.
- Next Steps:
 - Obtain faculty feedback (faculty driven proposals) on types of modernization and improvements needed in the classrooms.

Space Usage Report

- Was circulated to CFPB members.
- Among other things, the Report validates Long Range Development Plan’s calling for more gathering places like the Sustainability Courtyard.

CIP Fiscal Biennium 2011-2013

- UH Mānoa’s official CIP budget request was circulated to CFPB members.