January 24, 2006

Honorable Senator Clayton Hee
Honorable Representative Tommy Waters
Hawaii State Capitol
415 South Beretania Street
Honolulu, Hawaii 96813

Dear Senator Hee and Representative Waters:

This letter is pursuant to your request for information regarding Maui Community College (MCC) alternate energy projects. Thank you for your interest in a critical component of what MCC believes must be integral to its energy and educational future. Also included is a proposal to address MCC Education Center needs on Lanai, Molokai, and on Maui in Hana, Kihei and West Maui.

MCC's highest priority is the electricity shortfall. Amongst the seven Community Colleges, MCC has endured the largest shortfall due to unfunded operating costs associated with new facilities along with Maui Electric Company's rate adjustments due to fuel costs. In an effort to address the utilities shortfall, the college has been in pursuit of two alternate energy projects.

1. Wind Turbine - the college has been in negotiation with a private entity, Hawaii Pacific Wind and attempting to construct a prototype windmill on the MauiCC campus at no cost to the UH and serve as a demonstration site. The venture would also expand our curricula in wind technology as part of MauiCC's Sustainable Arts Program. We began negotiations in 2004, but have stalled due to Hawaii Pacific Wind's falling short of the total financial support needed. Hawaii Pacific Wind has since restructured their organization and renewed their interest and commitment to complete this project and therefore the college is cautiously optimistic. Since this project involves partnering with a for-profit organization, the college is not seeking State funds.

2. Photovoltaic Car Port – the college has been in discussion with PowerLight. PowerLight is a national designer, manufacturer and installer of grid connected solar electric systems (photovoltaics). The college is interested in construction of a large scale carport to cover the MCC rear parking lot. This lot has 768 stalls and is MCC's largest parking area. Our preliminary costs estimates as follows:

<table>
<thead>
<tr>
<th>Description</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Design costs (15%)</td>
<td>$1,500,000</td>
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<tr>
<td>Construction and Installation</td>
<td>$10,000,000</td>
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<tr>
<td>TOTAL (estimate)</td>
<td>$11,500,000</td>
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</table>

PowerLight representatives estimate the unit would generate approximately 1,650,000 kwh/year. MCC’s total annual consumption is close to 6,000,000 kwh/year, therefore this translates into approximately 25 to 30% of the total MCC electricity requirement. Currently, MCC’s recent Maui Electric Co. billings reflect a charge of 26 cents per kwh. At this rate,
the college would save approximately $430,000 a year. If we assume no further increase in
electric rates, then this is about a 27 year payback. If we assume 5 to 7 percent annual rate
increase, then the payback varies between 16 and 18 year payback. Since FY 2001 to
present, the actual annual rate increases has exceeded 8 percent, but a portion is attributed
to higher peak demand charges. In addition, PowerLight representatives state that the
system involves no moving parts, therefore the maintenance is minimal.

3. Outreach - Your interest in supporting MCC's outreach education programs and services is
additionally deeply appreciated. Beginning with Senator Hee's concern for Polycomm
access from Hana, MCC requests consideration of the other related needs in West Maui,
Kihei, and on Molokai and Lanai as well. Requests for 5.50 Education Specialists will permit
more equal access among remote island and isolated communities. The combination of
existing distance education technologies and staff support would maximize access in terms
of hours of operation as Center hours begin at 8am in the morning and end at 9pm at night.
To support a modest number of face to face county- and state-wide administrative and
professional development meetings, travel funds are also requested. MCC will additionally
examine other options for culinary space in Hana. (See Attachment 2 for detailed costs.)
We are requesting $216,282 for outreach activities.

4. Operations and Maintenance - Maui Community College submitted a request for 4.0 FTE
positions, additional security, janitorial supplies and electricity to support the college's new
facilities. The request totaled $323,802. Windward CC and Kauai CC also submitted new
facilities requests in the 2002 session. At the end of the session, Windward CC and Kauai
CC received full funding for their new facilities requests. Without explanation, Maui CC
received 50% funding. In addition, there was a budget reduction (-102,940), which further
exacerbated the college's financial condition. I am attaching (Attachment 3) a copy of the
FY 2003 budget request and a spreadsheet, which details the Community Colleges PCR
requests during the different stages, BOR Budget, Executive Budget, House Budget, Senate
Budget and finally Conference Budget. In addition, at the beginning of FY 2004, the college
completed the Culinary Building – Pa‘ina, of which we have not received maintenance and
custodial support as well.

Sincerely,

Clyde M. Sakamoto
Chancellor

Attachments: Solar Carport System
Outreach Proposal
FY 2003 Budget Request, CC PCR Requests
Ideal for parking lots or open areas adjacent to facilities, PowerLight's solar electric carport systems generate onsite electric power, reduce energy costs and provide premium shaded parking and protection from the weather. The solar carport system features a complete covered parking structure with integrated solar modules to generate maximum electric power. PowerLight's shaded solar system is a fully engineered, carport compliant system.

Features

Monitoring Technology
PowerLight's solar electric carport maximizes the sun’s available energy and generates electricity from an unused asset—the parking lot. To ensure maximum performance, PowerLight tracks the solar electric carport system with sophisticated monitoring and control technologies.

Aesthetically Pleasing
PowerLight's solar carport system uses high-efficiency photovoltaic modules to generate the maximum power output per square foot. The carport features a standard parking lot or parking structure design, and integrates into the surrounding landscape and architecture.

Structural Integrity
PowerLight's solar carport system features structural beams and a continuous roof that is virtually indestructible. In addition, a fully engineered mechanical mounting system securely fastens the solar electric panels, providing strength as well as complete shading for the covered area.

Modular Design
Powerlight offers different system sizes to optimize the performance of the solar installation. Whether the system design accommodates continuous or single level parking areas, the application can be scaled from a small parking lot to a large carport structure, for optimal spatial utilization.
Benefits

Energy Cost Savings
PowerLight's onsite solar generation system reduces the total electricity drawn from the utility grid, particularly the more expensive summer electricity and daily peak power. Because the carport system produces the most power during the daylight hours, it reduces the amount of expensive peak electricity purchased from the grid, thereby lowering operating costs.

High Energy Output
To maximize energy generation, the solar electric carport can be built using PowerLight's patented PowerTracker™ technology. The PowerTracker system maximizes the sun's available energy by capturing as much as 35% more sunlight than fixed solar electric systems as the tracker follows the sun from early morning to late afternoon.

About PowerLight

PowerLight Corporation is the nation's leading designer, manufacturer and installer of grid-connected solar electric systems. Founded in 1991, PowerLight's distributed generation products produce reliable, affordable clean power for business and government agencies worldwide. Inc. Magazine has ranked PowerLight Corporation among the top 500 fastest growing privately held companies for the past four consecutive years. Today, PowerLight has worldwide offices and a full line of commercial solar electric products.

PowerLight's Mission
PowerLight is committed to making clean power a mainstream and affordable source of the world's energy supply. Our solar products enable companies to reduce operating costs by transforming clean, abundant solar energy into electricity.
<table>
<thead>
<tr>
<th>Campus: Maui CC</th>
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<tr>
<td><strong>FY 2005 Electricity Allocation</strong></td>
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<table>
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<tr>
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- **Per Maui Electric**, there are no rate increases planned. A 5% FY 2004 significant increase due to the addition of the Culinary Facility. FY 2002 significant increase due to the addition of the Telecom Facility.

- **Excel Data and Revised Projections**
- **FY 2005 Electricity Allocation**
- **FY 2006 Electricity Allocation**
- **FY 2007 Electricity Allocation**

**Notes:**
- **Includes Temporary Allocation**
Outreach Proposal:

Maui Community College's home campus is located at Kahului, Maui. The College also maintains outreach sites at Hana, Kihei and Lahaina on Maui, on Molokai and on Lanai. These sites serve as receive sites for distance classes and also host live classes each semester. The Molokai, Hana, and Lanai sites have been in operation for many years but the Kihei site is newly developed and the Lahaina site is scheduled to open this spring.

In order to adequately serve our students at these sites we have determined we need the following resources:

1. Molokai – currently we have a full-time coordinator in a faculty position. We also have one additional faculty in science, one account clerk III, one APT technical support, and one O&M position. We are requesting a 1.0 faculty position to serve as a counselor.

2. Lanai – currently we have a full-time coordinator in a faculty position. We are requesting a .5 APT, Broadband A, position to help operate the center.

3. Hana – currently we have a full-time coordinator in a faculty position. We are requesting a .5 APT, Broadband A, position to help operate the center.

4. Kihei – currently we have no positions at the Kihei facility. We are requesting a .5 APT, Broadband B, position to coordinate the facility, and a .5 APT, Broadband A, position to help with operations.

5. West Maui – currently we have no position at the West Maui facility. We are requesting a 1.0 APT, Broadband B, position to coordinate the facility, and a .5 APT, Broadband A, position to help with operations.

6. We are requesting a 1.0 APT, Broadband A, Technical Support person to service all the centers.

This is a total request for 5.5 positions. We also are requesting travel funds and supplies for academic year 2006-07 to cover the sites.

Faculty/Counselor (1.0) $44,760.00
APT Level B (1.5) $59,850.00
APT Level A (3.0) $98,172.00
Polycom System $ 8,000.00
Travel $ 5,000.00
Rent for additional space in Hana $ 500.00

We are requesting a total of $216,282.00. Mahalo for your consideration of this request.
**BUDGET ADJUSTMENT DETAILS**

Program ID/Org. Code: UOH 800/DD  
Date: 9/12/2001  
Title (ID/Org.): Maui Community College, Institutional Support, UOH 505/HF  
Department Contact: David S. Tamanaha  
Phone: 984-3253  
Department Approval:  
Sequence No. of ___  

I. Title of Request: New Facility Support  
Description: Positions and funds to operate and maintain new facilities.

II. Operating Cost Summary  
Costs by Cost Element and Means of Financing  
FY 2003

A. Personal Services (include position counts of permanent positions only)
   - Janitor II, BC02  
     - 3.00  
     - 66,780 A  
   - Building Maintenance Worker, BC09  
     - 1.00  
     - 29,736 A  

A.1. Other Personal Services  
Specify  
Subtotal: 4.00  
96,516

B. Other Current Expenses
   - 2900 Contract security (50hrs x $11.84)  
     - 30,784 A  
   - 3005 Janitorial Supplies  
     - 10,470 A  
   - 5000 Electricity  
     - 186,032 A  

Subtotal: 227,286

C. Equipment  
Specify  
Subtotal: -

M. Motor Vehicles  
Specify  
Subtotal: -

L. Financing Agreements  
Subtotal: -

Total Costs  
(4.00)  
323,802

By Means of Financing  
(4.00)  
323,802 A
III. Justification of Request

Identify the Problem and Discuss How This Request Will Resolve the Problem. Explain Why this Request is Critical and Must be Implemented Immediately.

The new facilities support request was minimally funded on a temporary, non-recurring basis for FY 2002. This request is to provide new facilities support on a permanent basis. This request addresses a utility shortfall and provides for a minimum level of custodial, building maintenance, and security support services to accommodate facilities maintenance workload increases due to the construction of several new buildings at Maui CC. This request additionally assures that minimal health and safety standards are met.

Over the span of eight (8) years from FY 1995 to FY 2002, the College will have added and/or renovated seven (7) new buildings with a total of approximately 193,000 square feet on its main campus. The Ka Lama (Business Education) and Kupaa (Math/Science) buildings were built during FY 1995 and FY 1996. During FY 1999, the Lauilima building (Community Services) and the renovated Ho'okipa building (Student/Business Services) were added. Building "N" (Telecommunications) has been completed and is in use in FY 2002. Construction of Building "P" (Culinary Arts) is progressing and we expect it to be on line during FY 2002 as well.

The average building square footage assigned to each janitor at Maui CC during FY 1998 was approximately 32,000. With the additional buildings the assigned square footage per janitor will increase to over 40,000 sq ft by FY 2002. The custodial staff cannot increase their already full workloads by an additional 26% without a serious impact on the level of janitorial services provided, therefore we are requesting funding and position counts for 3.00 FTE Janitor II – BC02.

Maui CC maintains a building inventory of about 40 buildings, most of which were built in the 1940’s and the 1970’s. Since the campus sits adjacent to Kahului Harbor, our facilities are exposed to constant sea breezes, and as a result are maintenance intensive. Thus, the current workload for building maintenance workers is 20 buildings per FTE. The requested Building Maintenance Worker I will address the existing and projected increases in workload.

Security has become a major concern at Maui CC. The college currently has a single security officer to provide surveillance over 78 acres. As the campus has expanded through new campus development, the number of buildings, offices and classrooms that need security and surveillance has grown. In addition, the new facilities have impacted the “line of sight” or the ability to monitor large areas at once. This single Security Officer also must respond to emergencies at the college’s dormitory complex where we are experiencing higher rates of weekend problems. In addition, growth around the campus has also occurred with the development of the Maui Arts and Cultural Center and the Keopuolani Central Park. Part of regular programming for the Cultural Center is to hold large concerts for which the college assists with overflow parking. The existing
campus neighbors includes the large Kaahumanu Shopping Center Complex and Harbor Lights, low income condominium housing.

Without adequate manpower, security, supplies, and electricity funding in support of new facilities, the health and safety of students, faculty, and staff and investments in existing and new facilities would be compromised.

IV. Relationship of the Request to State Plan or Functional Plan (as applicable).

This request relates directly to the following strategic goal reflected in the University's and Community Colleges' Strategic Plans:

E. Acquiring and Managing Resources with Accountability and Responsiveness

V. Impact of Request on the Program's Measurers of Effectiveness.

This request will ensure that there is adequate support to operate and maintain the new facilities, thereby, providing maximum use of the facilities to the community.

VI. Compliance with Electronic Data Processing/Department DIPIRM Plan. (Note date of Currently Approved DIPIRM Plan.

Not applicable

VII. Impact of this Request to the Budgets of Other Agencies.

None

VIII. Impact of this Request on Facility Requirements (R&M, CIP).

These positions will be assigned to the new buildings. No specific space (room) is required.

IX. External Conformance Requirements (Legislative Proposals, Federal Mandates, OSHA Regulations, Etc.) (as applicable).

None
<table>
<thead>
<tr>
<th>FY 2003 Community College Request</th>
<th>DOR Budget</th>
<th>Executive Budget</th>
<th>House Budget</th>
<th>Senate Budget</th>
<th>Conference Budget</th>
<th>ETC/ACOG Reconcil.</th>
<th>FY 2003 Total</th>
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* 773,022 New Facilities Support
* 1,000,000 Assigned Time - CB
* 273,022 New Facilities Support
* 1,000,000 Assigned Time - CB
* 773,022 New Facilities Support
* 1,000,000 Assigned Time - CB
* 773,022 New Facilities Support
* 1,000,000 Assigned Time - CB

Note: Campus distributions of budget reductions are preliminary estimates

*Senate Budget reduction = $403,003
Note: Campus distributions of budget reductions are preliminary estimates

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Note: Final campus distributions of budget reductions are preliminary estimates

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