UHMC AASHE STARS PILOT

Pre-Assessment, Results with Recommendations for Education and Research
Outline

- UHMC Sustainability Overview
- STARS Brief Review
- Pilot Results 2010
  - Education and Research Updates 2013
- UHMC STARS PILOT RESULTS
- Education and Research Details
- Operations, Planning and Administration Recommendations
- Next Steps
UHMC Sustainability Overview

- Curriculum
  - Sustainable Construction Technology AS
  - Sustainable Science Management BAS
  - Sustainable Living Institute of Maui
  - Student Ohana for Sustainability

- Planning and Admin
  - Sustainability Committee

- Operations
  - Energy Savings retrofits by JCI ESCO
  - LEED Gold Certifiable Science Building with renewable energy features
  - PV atop Vocational Technology Building
  - Wind Turbine
  - Culinary
STARS Brief Review

- Voluntary and self reporting. Four major categories with subcategories (see credit checklist)
  - (1) Education and Research (100 pts)
  - (2) Operations (100 pts)
  - (3) Planning, Administration & Engagement (PAE) (100 pts)
  - (4) Innovation (4 pts per project) added to total
STARS
Brief Review

- Submission Deadlines are ONE YEAR from registration
- Tier one: focuses on impact of strategy (1 or more points)
- Tier two: smaller impact but notable (0.25 points)
- Number of points available= 304 pts
- AASHE member :$900 (non-member $1400)
<table>
<thead>
<tr>
<th>Rating Level</th>
<th>Minimum Score Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>STARS Bronze</td>
<td>25</td>
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<tr>
<td>STARS Silver</td>
<td>45</td>
</tr>
<tr>
<td>STARS Gold</td>
<td>65</td>
</tr>
<tr>
<td>STARS Platinum</td>
<td>85</td>
</tr>
<tr>
<td>STARS reporter</td>
<td>Institutions submitting but not to be rated</td>
</tr>
<tr>
<td>Total Available Points</td>
<td>304</td>
</tr>
</tbody>
</table>

Rating valid for 3 years, a school can resubmit once per year.
UHMC Pilot Overview

- Detailed Report of results including data collected and calculations per credit
- Excel spreadsheet of scoring per category with commentary per credit
- Prioritized Recommendations per credit for lower scored areas
- Examples
  - Programs and /or strategies that have obtained recommended credit category
### UHMC Results

<table>
<thead>
<tr>
<th></th>
<th>UHMC Points 2010</th>
<th>UHMC Points 2013</th>
<th>Projected points from plans</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education &amp; Research</td>
<td>23.3</td>
<td>31.8</td>
<td>28.8</td>
</tr>
<tr>
<td>Operations</td>
<td>12.6</td>
<td>?</td>
<td>42.6</td>
</tr>
<tr>
<td>Planning &amp; Administration</td>
<td>35.7</td>
<td>?</td>
<td>35.8</td>
</tr>
<tr>
<td><strong>STARS Points</strong></td>
<td><strong>24</strong></td>
<td><strong>26.7</strong></td>
<td><strong>36</strong></td>
</tr>
</tbody>
</table>

Rating valid for 3 years, 2010 to 2012 shows a growth in Ed. to Bronze level
UHMC Results 2010

- Education and Research: 23.3 pts (33%)
- Operations: 12.59 pts (18%)
- Planning & Administration: 35.7 pts (50%)
Education and Research

Results and Recommendations

Missing Elements and Next Steps
## Results: Education and Research

<table>
<thead>
<tr>
<th>Credit #</th>
<th><strong>Co-Curricular Education</strong></th>
<th>Possible Points</th>
<th>UHMC Actual points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Student Sustainability Educators Program</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>2</td>
<td>Student Sustainability Outreach Campaign</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>3</td>
<td>Sustainability in New Student Orientation</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Sustainability Materials and Publications</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td><strong>Tier 2</strong></td>
<td><strong>Co-Curricular Education</strong></td>
<td><strong>Tier Two Credits</strong></td>
<td><strong>2</strong></td>
</tr>
</tbody>
</table>
Recommendations: Education and Research
Credit 1 (5 points)

- UHMC Student Affairs/Counseling:
  - Begin a Student Sustainability Educators Program (SSEP) and provide a brief description of
    - how student educators are selected
    - the formal training that the student educators receive
    - the staff and/or other financial support the institution provides to the program
Recommendations:
Education and Research
Credit 2 (5 points)

- Sust. Com. or student affairs request students of Go Green club to organize a campus competition and issue awards from their available funding.

- Sustainability Committee can organize a competition and issue awards to individual or student group from funds

- Ideas: participate in Recycle Mania

- BRAINSTORM types of competitions

- Must have measured values of performance before the campaign, must engage the student body
<table>
<thead>
<tr>
<th>Credit #</th>
<th>Curriculum</th>
<th>Possible Points</th>
<th>UHMC 2010</th>
<th>UHMC 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Sustainability Course Identification</td>
<td>3</td>
<td>0</td>
<td>0</td>
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<tr>
<td>6</td>
<td>Sustainability-Focused Courses</td>
<td>10</td>
<td>0.15</td>
<td>1.5</td>
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<tr>
<td>7</td>
<td>Sustainability-Related Courses</td>
<td>10</td>
<td>1.6</td>
<td>2</td>
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<tr>
<td>8</td>
<td>Sustainability Courses by Department*</td>
<td>7</td>
<td>3.9</td>
<td>3.9</td>
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<tr>
<td>9</td>
<td>Sustainability Learning Outcomes*</td>
<td>10</td>
<td>0</td>
<td>0</td>
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<tr>
<td>10</td>
<td>Undergraduate Program in Sustainability*</td>
<td>4</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>11</td>
<td>Graduate Program in Sustainability*</td>
<td>4</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>12</td>
<td>Sustainability Immersive Experience*</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>Sustainability Literacy Assessment</td>
<td>2</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>
Recommendations: Education and Research Curriculum

- Credit 5: Sustainability Committee develop definition of sustainability distinguishing between sustainability focused courses and sustainability related courses and make the course inventory available online (3 points)

- Credit 9: Document upcoming student graduations (10 points)
  - Institutions earn the maximum of 10 points available for this credit when all students graduate from programs that have adopted at least one sustainability learning outcome. Incremental points are available based on the percentage of students who graduate from such programs

- Credit 11: Graduate Program (4 points)

- Credit 13: Survey of students during orientation (2 points)
  - Must include a baseline evaluation of students and then a follow up
  - Make a sustainability course required by all students
## Results: Education and Research

<table>
<thead>
<tr>
<th>Credit #</th>
<th>Research</th>
<th>Possible Points</th>
<th>UHMC 2010</th>
<th>UHMC 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Sustainability Research Identification*</td>
<td>3</td>
<td>0</td>
<td>0</td>
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<tr>
<td>16</td>
<td>Faculty Involved in Sustainability Research*</td>
<td>10</td>
<td>0.4</td>
<td>1.18</td>
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<tr>
<td>17</td>
<td>Departments Involved in Sustainability Research*</td>
<td>6</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Sustainability Research Incentives*</td>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>19</td>
<td>Interdisciplinary Research in Tenure and Promotion*</td>
<td>2</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>
Recommendations: Education and Research
Credit 15 (3 points)

- Credit 15: Define sustainability research, post inventory online
  - Distributed a survey to all faculty members to self-identify as being engaged in sustainability research using the sustainability definition developed by the committee. OR
  - The chairperson of each department to identify sustainability research activities within his or her department.

- Faculty research incentives

- Student research projects that are affiliated with faculty research through the above program, have research count as credit, aim for publications
Recommendations: Education and Research
Credit 19 (2 points)

- Acknowledge interdisciplinary, trans-disciplinary, and multi-disciplinary research during faculty promotion and tenure decisions.
  - Giving interdisciplinary research equal weight as research from a single academic discipline provides an important foundation that allows faculty to pursue sustainability related research.
Operations, Planning and Admin Recommendations

Missing Elements and Next Steps
Top Recommendations Operations

- Recommendations made for 15 of 30 credit categories

- **Credit 5**: GHG emissions Reductions
  - Inventory projects proposed by JCI *(14 points)*

- **Credit 8**: Clean and Renewable Energy *(7 points)*
  - official data base of the energy generated and saved by current PV and wind installations on campus. This data acquisition should continue with the plans for JCI projects. This can be combined with the ONR project for data acquisition and display.
Top Recommendations
Planning and Administration

- Recommendations made for 14 of 25 credit categories

- Credit 18: Positive Sustainability Investments (9 points)
  - Invest in any of the following:
    - Sustainable industries, such as renewable energy or sustainable forestry; Businesses selected for exemplary sustainability performances; Sustainability investment funds, such as a renewable energy investment fund

- Credit 11: Sustainable Compensation (8 points)
  - Conduct a basic needs assessment

- Credit 3: Master Plan (4 points)
  - Develop a campus master plan, which details the sustainability measures that will be taken to buildings and operations with projected timelines.
Next Steps

- Re-visit Prioritized list of recommendations
  - Incorporate into sustainability committee
- Plan for accomplishing recommendations
- Begin STARS reporting process
  - Institutions have one year from the date they register for STARS to submit for a rating.
  - Rating good for 3 years
Next Steps

- Each submittal for a STARS rating must be accompanied by a letter from the institution’s president or chancellor
  - affirms the accuracy of the institution’s STARS submission
  - serves as an introduction or cover letter