UNH & STARS

SUSTAINABILITY TRACKING, ASSESSMENT & RATING SYSTEM

September 2012
ANNOUNCEMENTS

• Change in staff assignments since Brett left

• Introducing Lou Simms

• Name change of office
GOALS & ROLES OF TASK FORCES

• Assessment/stock taking in domain area.
• Provide input into strategic planning based upon inventory assessments conducted by the task forces.
• Provide ongoing recommendations to individuals/groups as necessary, including the UNHSI Collaborative Council, UNH Administration and Cabinet, and the UNH Provost’s Council.
• Build networks across the university in area of their domain. Community and relationship building.
• Generate ideas across the CORE related to their domain. Problem-solving in domain area.
• Internalize sustainability as an identifying aspect of work at the university and demonstrate investment in it.
YOU CAN USE STARS TO....

• Assess UNH performance in issues of biodiversity and ecosystems across CORE

• Guide your planning for the coming year

• View work you and others do – like the Campus Master Plan or managing campus lands – in context of sustainability performance and practices for higher education institutions

• Compare UNH to campuses across the continent

• Utilize UNH’s STARS data for your own projects
BACKGROUND

stars.aashe.org

• Transparent, self-reporting framework for colleges and universities to gauge relative progress toward sustainability

• Facilitates information sharing between institutions, providing common standard of measurement for sustainability performance

• Evaluates triple-bottom line: environmental, social, and economic

• Developed for and by the higher education community

• UNH is a pilot campus, charter participant and technical advisor
CREDITS

• **Education & Research**
  - Co-Curricular Education; Curriculum; Research

• **Operations**
  - Buildings; Climate; Dining; Energy; Grounds; Purchasing; Transportation; Waste; Water

• **Planning, Administration & Engagement**
  - Coordination & Planning; Diversity and Affordability; Human Resources; Investment; Public Engagement
DATA COLLECTION

• Student interns

• Emails, meetings, and calls across campus

• Operations staff records

• Faculty and graduate student online surveys

• Online research
DEPTS INVOLVED

- Advancement
- Athletics
- Campus Planning
- Career Center

- Cooperative Extension
- Dining
- Energy Office

- Institutional Research & Assessment
- IT
- Office of the AVP for Research

- Office of Sponsored Research
- Office of the VP for Finance & Administration

- Center for International Education
- CEPS
- COLA
- Residential Life

- Environmental Health & Safety
- Facilities
- Graduate School

- Office of Community Service & Learning
- Office of the President
- Office of the Provost

- Office of the VP for Student & Academic Affairs
- Transportation Services
- WSBE

- CHHS
- COLSA
- Communications & Marketing

- Hamel Center for Undergraduate Research
- HR
- EOS

- Registrar
- Office of the SVP for Engagement & Academic Outreach

- Purchasing & Contract Services
- Housing

[University of New Hampshire Logo]
<table>
<thead>
<tr>
<th><strong>UNH TIMELINE</strong></th>
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<table>
<thead>
<tr>
<th>STARS</th>
<th>August 2011: GOLD</th>
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<tbody>
<tr>
<td></td>
<td>Winter 2013: STARS 2.0 released</td>
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<tr>
<td></td>
<td>August 2014: Platinum?</td>
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<tr>
<td></td>
<td>Data continually updated</td>
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<table>
<thead>
<tr>
<th>Princeton Review</th>
<th>Every February</th>
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<table>
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<tr>
<th>Sierra Club</th>
<th>Every June</th>
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<table>
<thead>
<tr>
<th>Presidents Climate Commitment</th>
<th>Jan 2013: GHGE inventory</th>
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<tbody>
<tr>
<td></td>
<td>Jan 2014: Progress report on WildCAP</td>
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UNH’S 2011 SCORE

PLATINUM

GOLD

SILVER

BRONZE

REPORTER
# Submission Summary: University of New Hampshire

## Status

<table>
<thead>
<tr>
<th>Status</th>
<th>Provisional Rating</th>
<th>Provisional Score</th>
<th>Submission Deadline</th>
<th>Expert</th>
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<tr>
<td>Pending Submission</td>
<td>Gold</td>
<td>66.42</td>
<td>Aug. 2, 2011</td>
<td></td>
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</tbody>
</table>

### Education & Research

- **27 / 27** Credits Completed
  - Provisional Score: 66.68%

### Operations

- **71 / 71** Credits Completed
  - Provisional Score: 43.76%

### Planning, Administration & Engagement

- **37 / 37** Credits Completed
  - Provisional Score: 76.81%

### Innovation

- **4 / 4** Credits Completed
  - 4.00 Points Claimed
364 participants; about 200 have submitted scores
How UNH Rates:

- BRONZE Ratings: 53 Institutions
- SILVER Ratings: 96 Institutions
- GOLD Ratings: 37 Institutions
- Reporter Status (no scores made public): 14
- PLATINUM Rating: No Institution has yet attained STARS highest rating

<table>
<thead>
<tr>
<th>Category</th>
<th>STARS avg</th>
<th>UNH Score</th>
<th>Max Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Education &amp; Research</td>
<td>51%</td>
<td>68%</td>
<td>100%</td>
</tr>
<tr>
<td>Operations</td>
<td>37%</td>
<td>45%</td>
<td>100%</td>
</tr>
<tr>
<td>Planning, Admin &amp; Engagement</td>
<td>57%</td>
<td>77%</td>
<td>100%</td>
</tr>
</tbody>
</table>
HOW UNH DID

AT GOLD
67.68 PTS

100% 100% 100%
67.68% 45.39% 76.81%

ER OP PAE

UNH Score Max Score

Areas of Strength
★ Involvement of faculty and staff across campus
★ Research and related curricula
★ Operational BP’s in dining, energy mgmt., transportation
★ Outreach & communication
★ Diversity/inclusive excellence
★ Engagement w/policymakers, other campuses

TO PLATINUM:
17.32 MORE PTS

BIG POINT GAPS

- Selling REC’s
- Learning Outcomes
- Focused Courses
- Student Community Service
- Endowment Investments
- Energy/sq ft bldgs
- Water Consumption
- Student Peer-2-Peer
- LEED O&M
OVERALL

- **WEBSITES**: No URL, no points!

- **FORMAL POLICIES & PLANS**: e.g. Clean Fleet, sustainable investment, water, LEED EB O&M equivalency, etc.

- **DATA COLLECTION & SHARING**
  - **EDUC & RESEARCH**: Data scattered. Low faculty response to survey.
  - **P-CARDS**: no tracking on airline miles, EPEAT computers, recycled paper, etc.
# POINT GAPS: ECOSYSTEM

## Education & Research

- Sustainability-Focused/Related Courses: 10.62 of 20.00 possible points
- Sustainability Learning Outcomes: .44 of 10.00

## Operations

- Building Operations and Maintenance: 2.63 of 7.00
- Indoor Air Quality: 0.0 of 2.00
- Integrated Pest Management: 2.00 of 2.00
- Tree Campus USA: 0.0 of .25
- Waste Diversion: 1.09 of 3.00
- Construction and Demolition Waste Diversion: .92 of 1.00
- Waste Reduction: 2.34 of 5.00
- Cleaning Products Purchasing: 1.01 of 2.00
- Office Paper Purchasing: 1.40 of 2.00
- Computer Purchasing: p-card note
- Water Consumption: 0.0 of 7.00

## Planning, Admin, Engagement

- Community Service: 3.29 of 12.00
- Sustainability in Continuing Education: 3.6 of 7.00
# Top Class Ratings

<table>
<thead>
<tr>
<th>UNH</th>
<th>UC-Boulder</th>
<th>Arizona State</th>
<th>Portland State</th>
<th>UMass-Amherst</th>
<th>Middlebury</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TOTAL SCORE:</strong> 67.68</td>
<td><strong>TOTAL SCORE:</strong> 68.77</td>
<td><strong>TOTAL SCORE:</strong> 66.97</td>
<td><strong>TOTAL SCORE:</strong> 68.55</td>
<td><strong>TOTAL SCORE:</strong> 66.49</td>
<td><strong>TOTAL SCORE:</strong> 66.90</td>
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<tr>
<td><strong>ER:</strong> 67.68%</td>
<td><strong>ER:</strong> 66.33%</td>
<td><strong>ER:</strong> 66.31%</td>
<td><strong>ER:</strong> 79.03%</td>
<td><strong>ER:</strong> 66.15%</td>
<td><strong>ER:</strong> 73.10%</td>
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<tr>
<td><strong>OP:</strong> 45.39%</td>
<td><strong>OP:</strong> 48.48%</td>
<td><strong>OP:</strong> 50.32%</td>
<td><strong>OP:</strong> 46.34%</td>
<td><strong>OP:</strong> 47.05%</td>
<td><strong>OP:</strong> 50.23%</td>
</tr>
<tr>
<td><strong>PAE:</strong> 76.81%</td>
<td><strong>PAE:</strong> 85.50%</td>
<td><strong>PAE:</strong> 72.29%</td>
<td><strong>PAE:</strong> 68.28%</td>
<td><strong>PAE:</strong> 74.29%</td>
<td><strong>PAE:</strong> 65.36%</td>
</tr>
<tr>
<td><strong>Innovation:</strong> 4 pts</td>
<td><strong>Innovation:</strong> 2 pts</td>
<td><strong>Innovation:</strong> 4 pts</td>
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</tr>
</tbody>
</table>
• Policies and/or programs in place to reduce emissions from air travel
• Track GHGE from food purchases
• Energy use intensity dropped substantially, from 1.58 therm/sq ft in FY2005-2006 to 1.25 therm/sq ft in FY2009-2010
• LEED New Buildings: 1,135,236 Square Feet GOLD; 268,951 Square Feet SILVER
• Sustainable endowment practices
• Student community service hours
• Sustainability in continuing education
ARIZONA STATE UNIV

- Has a student-run enterprise, such as a cafe, through which students gain sustainable business skills
- Did a student sustainability literacy assessment in spring 2011
- Every department conducts sustainability research
- More sq feet of new LEED buildings
- Formal indoor air quality policy with audits and monitoring
- Higher GHGE reduction (we sell REC’s)
- Reusable to-go containers in dining halls
- Buy more Green Seal or EcoLogo cleaning products
- More clean vehicles as % of campus fleet; more employees commute outside of single driver vehicles
- Recycling per capita rate higher
- Slightly less water consumption per capita
• Goal for zero solid waste is 2015
• Special recycling programs for electronics, batteries, CD's, sneakers, cell phones, toner cartridges.
• Donating old mattresses to Arizona Correctional Industries.
• Paint reclamation and diversion.
• ASU Mail Services has partnered with Ecological Mail Coalition to help reduce each department’s junk mail, including catalogs, magazines, and other advertising mail for employees who are no longer in a department.
• Student sustainability educators program
• Sustainability learning outcome for ALL students
• More sustainability focused courses
• More depts have sustainability courses
• 51 out of 55 vehicles in campus fleet alternative. UNH: 79 out of 328
• Employee commute: only 25% drive alone, 44% take transit. UNH: 88% drive alone, 3% take transit.
• Higher GHGE reduction (we sell REC’s)
• 35% of dining hall food $ on local, socially responsible (fair wages, coop, etc.), USDA Certified Organic, Marine Stewardship Council Blue Ecolabel, Food Alliance, or Fair Trade; UNH = 22%
• Building energy consumption down
• Water consumption down almost 17M gallons since 2005. UNH’s went **UP 23M gallons**. How? Reclaimed water treatment plant takes the final treated wastewater from the City of Amherst's wastewater treatment plant, treats the water for use in the boilers, then feeds process water to the UMass steam plant. This alternative to using potable town water has resulted in big savings.
MIDDLEBURY

- Student sustainability educators program
- More sustainability focused and related courses
- More depts have sustainability courses
- Higher GHGE reduction (we sell REC’s)
- More clean vehicles as % of campus fleet
- More students and employees commute outside single-driver vehicles. 74% of employees drive alone; 13% walk, bike or use non-motorized transportation. (UNH = 4%)
- Formal telecommuting and condensed work week policies
- Water consumption down slightly more than 22M gallons since 2005. UNH’s went UP 23M gallons
• Installation of tanks that can gather and hold up to 10,000 gallons of storm, cistern and reclaimed water.

• Duke also distributed 10,000 free low-flow showerheads to faculty, staff and off-campus students.

• Installed thousands of low-flow aerators, flush valves, shower heads, front load washing machines, etc.

• Installed hand sanitizers in residential hall bathrooms, kitchens, laundry room and common areas.

• Performed a water audit on campus buildings.

• Installed drought-tolerant landscaping.

• Installed cisterns to collect water for watering of Williams Field.

• Supplied the University and Medical Center staff, employees and students with 10,000 free low flow shower heads for their homes.

• Signs at decision-making points like faucets, showers, water fountains and toilets.

• Several of the monthly Green Devil Challenges have focused on water.

University of New Hampshire
## 2014 GOALS

### Education & Research
- Sustainability dual major
- Sustainability focused and related courses
- Sustainability learning outcomes
- Sustainability research

### Operations
- **BUILDINGS**: LEED Existing Buildings (O&M), LEED New Buildings (only James)
- **ENERGY**: Selling REC’s off EcoLine; lowering energy consumption/gsf compared to FY2005 baseline
- **CLIMATE**: Air travel formal policy, Scope 3 GHGE in inventory
- **GROUNDS**: Tree Campus USA
- **WATER**: Lower water consumption/capita compared to 2005
- **WASTE**: Up recycling/composting, up waste min/diversion
- **PURCHASING**: Tracking P-Card purchases: air travel, EPEAT, recycled paper
- **DINING**: Local food purchasing at 22% (max points at 50%)
- **TRANSPORTATION**: Campus fleet; employee commute modal split; condensed work week and telecommuting policy

### Planning, Administration & Engagement
- Sustainability strategic planning document and impacts report
- Endowment: negative screening of endowment investment pool within the last three years; positive sustainability investments; committee/ etc.
- Sustainability in Continuing Education (courses, certificates, etc.)
- Student Community Service: #’s and hours