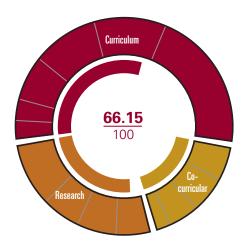
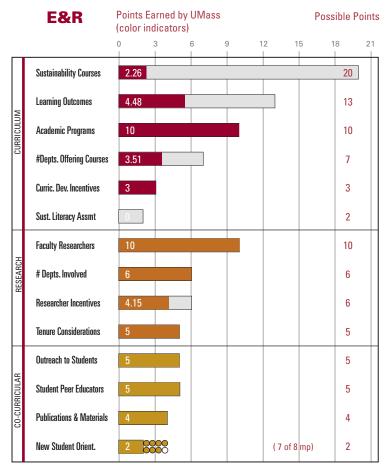
# The AASHE STARS system assesses campus sustainability in three broad and equally weighted areas (100 points per area):

### **Education & Research**

3 CATEGORIES



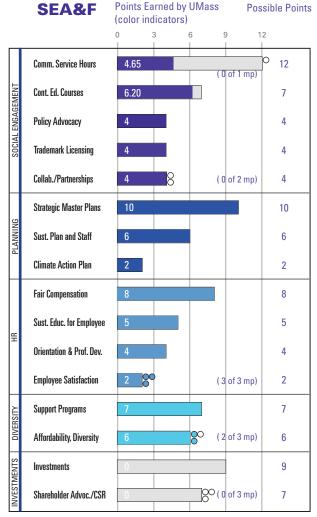




100 Pts. possible

# **Social Engagement, Administration, & Finance**





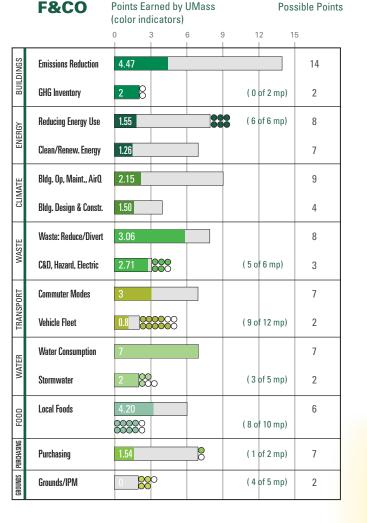


UMass Farned **74.29%** 

# Facilities & Campus Operations

9 CATEGORIES





**F&CO** 15 Indicators 88 (0 – mini pt. = 1/4 of a pt.) + 48 mini points +12

100 Pts. possible

### UMass Earned **47.05%**

Note: UMass earned 45.99 points, but the maximum possible was 97.75 because we were not required to count the IPM points (2) or one additional mini-point (0.25) in the total, 45.99/97.75=47.05%

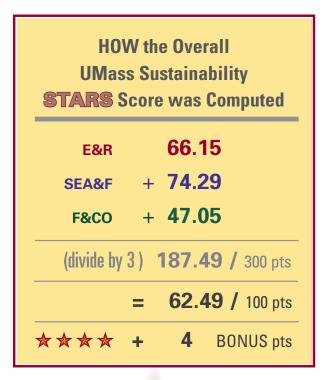
Each of these *three areas* is further **subdivided into major categories** (indicated in the doughnut and bar charts).

Within each of the 17 major categories, the number of points earned is **determined by a set of** weighted indicators (see bar charts).

The scores for each of the **three areas are** averaged.

Finally, up to **4 BONUS points** may be earned for innovative practices and added to the averaged total for a **final STARS SCORE**.





Final STARS Score

66.49

GOLD Rating = 65 to 84.9

100 Pts. possible

### UMassAmherst Sustainability Highlights 2007-2012















#### **ACADEMIC PROGRAMS**

- Growing number of departments now offer courses in sustainability (25 of 60).
- Created three new graduate programs: MS in Sustainability Science (2011); MS in Environmental Conservation with Green Building Concentration (2009), and the forthcoming MS in Design and Historic Conservation (2012).
- Six undergraduate degrees currently include core requirements in sustainability, and we have a forthcoming
  Five College Undergraduate Certificate in Sustainability (Fall 2012).
- Increased opportunities for service learning and civic engagement through an additional General Education credit (2010), a new Civic Engagement track in the Bachelor's Degree with Individual Concentration (BDIC) program (2010), and the new Certificate in Civic Engagement and Service-Learning (2011).
- Fifteen additional undergraduate majors include sustainability coursework as part of their requirements.

#### STUDENT INITIATIVES

- Founded the Eco-Rep Program, a group of students trained in organizing educational activities in the residence halls around reducing personal and campus energy and resource use through sustainable behavior (2009).
- Originated a range of projects through the Sustainability Internship Program, including the campus Bike Share Program, Sustainable Move Out, energy competitions in the residence halls, composting and recycling at sporting events, and programming for Earth Day and Campus Sustainability Week.
- Assembled the Sustainability Steering Committee, populated by the SGA Secretary of Sustainability, senior members of the Sustainability Initiative Intern program, Green Building researchers, UMass Permaculture leadership and the Eco-Rep Program Manager.
- Established a new farmer's market, a collaboration between three student groups: the Student Farming Enterprise, Garden Share, and UMass Permaculture Initiative (2011).

### ADMINISTRATION, SOCIAL ENGAGEMENT AND FINANCE

- Sustained commitment to ongoing implementation of sustainability best practices in education, facilities, and campus operations (Chancellor's Environmental Performance Advisory Committee, established 2007).
- Sustainability is embedded in our current campus master planning effort (2010-12)
- Campus recognized as a "Community Engaged University" by the Carnegie Foundation (2009), and featured by USA Today as one of the 20 colleges in the country most committed to community service (2011).
- New investment in staff hires in sustainability in the Physical Plant, Auxiliary Services and University Relations.
- Continued commitment to diversity includes the Chancellor's Diversity Advisory Committee (2010), a campus Diversity Plan (2011), and an information resource, the Diversity Matters Website (2011).

#### CENTRAL HEATING PLANT

- Completed in March 2008 as a \$133 million investment.
- Oil and natural gas co-generation produce both our electricity and steam heat.
- Provides heat and power to 30,000 people and 250 major buildings (16 million watts of electricity).
- Reduced our campus carbon footprint by a further 13% since it went on line; we no longer burn coal, and the
  total cumulative reduction in carbon emissions since 2004 now exceeds 30%.
- One of the most efficient combined heat and power plants in the country today.

#### UMASS DINING

- Purchases 27% of produce from local farmers and 10% of food from New England.
- Committed to increasing local food purchasing by 2% each year.
- First organization in Massachusetts to quality for (0S1) Green Certification program.
- Trayless dining cuts food waste by 35% and reduces cleaning resources.
- Recycles and composts 72% of all Dining Commons waste; total campus recycling rate is 56%.
- Eliminates 600,000 disposable bottles and cans annually by distributing reusable water bottles to students and installing water purifying stations.
- Serves sustainable seafood in accordance with the Seafood WATCH guidelines.

#### **GREEN BUILDING**

- Developed rigorous campus standards for new construction and renovation using U.S. Green Building Council's LEED (Leadership in Energy & Environmental Design) guidelines (2011).
- Completed first three LEED-certifiable buildings.
- Created the Green Building Map, an interactive geographic display of all sustainable projects on campus (2011).
- Launched a new lecture series, "Designing for sustainability in the Built Environment," and regularly invite experts from a wide range of professions to campus.

### PERMACULTURE GARDENS

- $\bullet \ \ \text{One of the first public universities in the nation to invest in creating permaculture gardens}.$
- Students transformed a conventional ¼ acre grass landscape near Franklin Dining Commons into a highly
  productive and low-maintenance garden without using fossil fuels.
- The Franklin Permaculture Garden now has more than 1,000 edible plants, which are used by the Dining Commons to feed students.
- · A second garden is currently under construction near Berkshire Dining Commons.

The entire UMass Amherst STARS report can be found at:

https://stars.aashe.org/institutions/university-of-massachusetts-amherst-ma/report/2011-07-29/

## UMASS AMHERST

## AMHERST BENCHMARKING Our Progress on Sustainability

American University

- Emory University
- University of Colorado Boulder
   University of Denver

Portland State University
Arizona State University

University of California San Diego

#### University of Massachusetts Amherst

University of New Hampshire
University of Northern Iowa
University of South Florida
Calif. State Univ. Monterey Bay
University of Alaska Fairbanks

- Duke University
   New York University
- Oregon State University
- University of Florida
- Tufts University
   Furman University
- Cleveland State University
- Virginia Tech
- Florida Gulf Coast University
- Northern Arizona University
- University of Minnesota, Twin Cities
- University of California, Los Angeles
- Pennsylvania State University
   State University of New York at Oswego
- University of Oregon

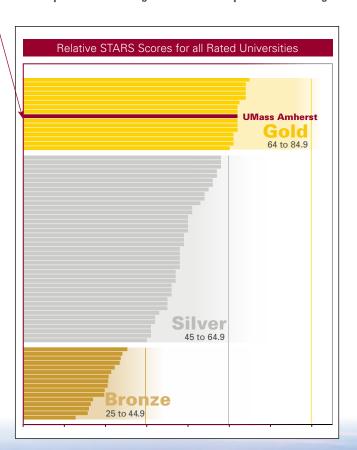
University of Houston

- Yale University
   George Mason University
   St. John's University
   Illinois Institute of Technology
   University of Colorado, Colorado Springs
- Washington University in St. Louis
- University of North Carolina Chapel Hill
  Wake Forest University
  University of Arkansas
   Indiana University Bloomington
- Michigan State University
- University of Texas at Austin
   University of Nevada, Las Vegas
   Florida State University
   University of Louisville
   SUNY Environmental Sci. and Forestry
   Florida Gulf Coast University
   Cleveland State University
   University of Texas at Arlington
   Slippery Rock University

denotes AAU Member Universities

### UMass Amherst is ranked in the top 10 research universities nationwide for its commitment to innovation and leadership

in sustainability. The campus received a gold rating from the Association for the Advancement of Sustainability in Higher Education (AASHE)'s Sustainability Tracking Assessment Rating System (STARS). Only 16 U.S. universities have received this distinction as of January 2012. The STARS rating recognizes the multifaceted accomplishments and initiatives on campus, ranging from curriculum and education to energy use, food services, and campus planning. This executive summary of UMass Amherst's standing using the national standards set by AASHE demonstrates the breadth and scope of UMass strengths and indicates potential areas of growth.



STARS provides a useful framework for evaluating our progress on campus. It is a rigorous and far-ranging assessment of all sustainability-related campus initiatives and incorporates over 50 indicators.





