

A LEADER IN SUSTAINABILITY

UMass Amherst has installed over 15,000 photovoltaic panels across campus, providing 5.5 megawatts (DC) of clean electrical power for the campus.

THE UNIVERSITY OF MASSACHUSETTS AMHERST IS AN INNOVATOR THAT INSTITUTIONS AND COMMUNITIES TURN TO FOR SOLUTIONS TO THE MOST PRESSING ENVIRONMENTAL, ECONOMIC, AND SOCIAL ISSUES OF OUR TIME.

Our campus is a **collaborative environment** where students, faculty, and staff embrace sustainable living. Where we innovate solutions to **climate change, green energy, food systems, and resource management**. Where our facilities serve as models for building, working, and living efficiently.

Our hands-on education is preparing today's students to lead the Green Workforce, a commitment to real-world learning that dates back to our founding as Massachusetts Agricultural College in 1863. We are leading **research into sustainable development**, and we remain as committed as ever to sharing our knowledge with communities to foster a more sustainable future.

University of
Massachusetts
Amherst BE REVOLUTIONARY™

MAJOR MILESTONES: DEMONSTRATING WHAT IS POSSIBLE

DIVESTMENT
FIRST MAJOR
PUBLIC
UNIVERSITY
TO DIVEST ITS
ENDOWMENT
FROM DIRECT
HOLDINGS IN
FOSSIL FUELS



**EXCELLENCE IN
SUSTAINABLE
AGRICULTURE**
Best for Agricultural Science, 2020
stockbridge.cns.umass.edu

GREENING THE WORKFORCE

Each year, UMass Clean Energy Corps trains and mobilizes 15 students and two interns to help **communities meet their clean-energy goals**. This real-world, hands-on work has helped 40 Massachusetts communities achieve 50% or greater energy savings in various buildings and develop comprehensive municipal energy savings plans.



Undergraduates measure temperature, salinity, and turbidity in the water column 80 meters deep at Kronebreen glacier in Svalbard, Norway.



COMMITMENT TO CLIMATE
Over \$175 million in climate change research grants awarded to over 100 faculty members since 2012

SEEKING ALTERNATIVE SOURCES



National
Science
Foundation

\$3.2 MILLION

NATIONAL SCIENCE FOUNDATION GRANT

Awarded in 2011 to UMass Amherst Wind Energy Center for the training of 30 doctoral students in interdisciplinary research on wind energy technology, environmental implications, and socioeconomic challenges of offshore wind farms
umass.edu/windenergy

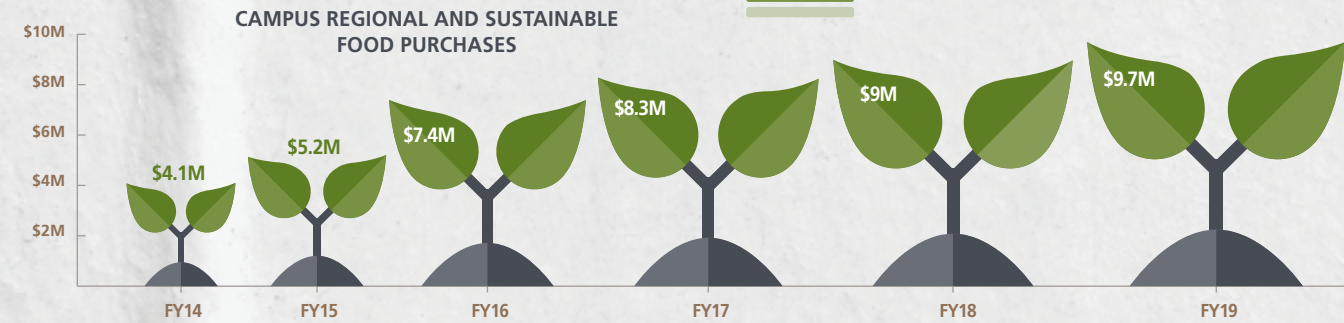
**PIONEERING
WIND ENERGY
RESEARCH**
SINCE EARLY 1970S



SUSTAINABILITY IN PRACTICE

KEEP IT LOCAL

137% increase in campus regional and sustainable food purchases from FY2014 to FY2019



45 tons of produce grown at UMass Amherst's student farm were distributed through farm shares, used by campus Dining Services, and sold to local stores in FY2018.

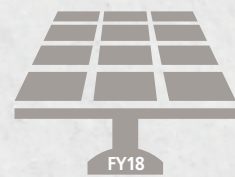


TAKING ROOT CAMPUS-WIDE

Our educational mission extends beyond the School of Earth and Sustainability. Today, 77% of UMass Amherst academic departments offer courses in sustainability.

BIG GENERATOR
UMass Amherst generates over 6,000,000 kWh of solar energy annually—enough to power 782 homes in Massachusetts for a year.

6,189,867 KWH



WASTE NOT
1,617 tons of food waste and biodegradable packaging composted in 2018, among the highest volume for U.S. higher-education institutions



INTELLIGENT ENERGY

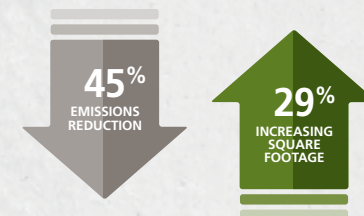
Our computer science and electrical and computer engineering researchers are working with Holyoke Gas & Electric Co. to develop smart-energy services that will help the city of Holyoke

- improve grid efficiency
- develop rooftop solar and other local renewable-energy sources
- reduce energy expenditure

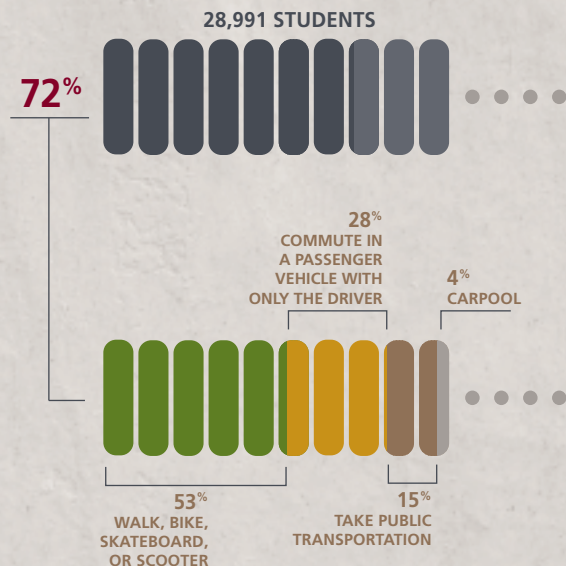
BY THE FOOT



1,397,376 square feet of LEED space added 2012-18, certified by U.S. Green Building Council's Leadership in Energy and Environmental Design Program



45% emissions reduction per square foot in our buildings while increasing square footage by 29% from FY2005 to FY2017



LOW-IMPACT TRANSPORTATION
72% of students used sustainable commuting options as a primary means of transportation in FY2017.



EMPOWERING THE NEXT GENERATION OF ECOLOGICAL LEADERS

The UMass Amherst School of Earth and Sustainability, the first specialized sustainability school on the East Coast, is confronting the global challenges of sustainability through education and research, then bringing what we learn into our communities. In just three years, the school has grown to include:

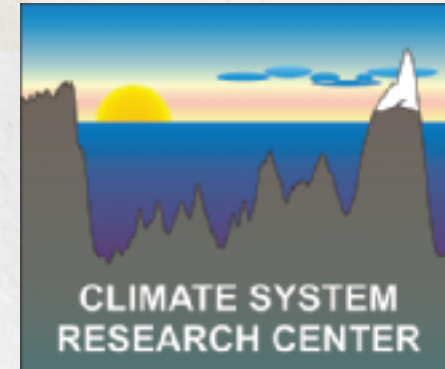
- 100+ world-class faculty members
- 1,300 undergraduate students
- 320 graduate students
- 27 undergraduate majors
- 14 graduate programs

TEACHING EXCELLENCE

Our greatest investment in a sustainable future is the one we make in our students. Since 2013, more than 70 faculty members from 31 departments have participated in our year-long Sustainability Curriculum Fellowship, enhancing the university's teaching excellence in sustainability and adding or improving 100+ courses.

DEEP RESEARCH, SUSTAINABLE SOLUTIONS

UMass Amherst is home to two leading climate research centers, the Climate System Research Center and the Northeast Climate Adaptation Science Center (NE CASC). The NE CASC, funded by the U.S. Department of the Interior, works with natural and cultural resource managers to build the tools needed to help fish, wildlife, and ecosystems adapt to the impacts of climate change.



From climate change to green building, agriculture to alternative energy, UMass Amherst continues to seek and find innovative, sustainable solutions to some of modern society's most urgent needs.

Find out more about the Revolution in Sustainability at umass.edu/sustainability.



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