



**NC STATE**  
UNIVERSITY

# **ANNUAL SUSTAINABILITY REPORT**

FISCAL YEAR 2017





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NC State's Annual Sustainability Report showcases our university's latest sustainability progress – from research breakthroughs and student success to efficiency improvements and cost savings. Together, we are developing leaders and solutions for challenges impacting our environment, economy and society. I am proud of the progress made by our innovative and collaborative campus community and its Think and Do spirit.



A handwritten signature in black ink that reads "Randy Woodson".

Randy Woodson, NC State Chancellor

## FROM THE NC STATE SUSTAINABILITY COUNCIL

In this 2017 Sustainability Report, you will find the difference one year makes in NC State's goal of becoming a more sustainable university. We are proud of NC State's sustainability progress, which this report highlights through metrics, cost savings, program results and student perspectives. From growth in sustainable infrastructure on campus to new real-world sustainability experiences for students, this year's efforts further integrate sustainability into the university's mission of teaching, research, operations and outreach.

We also look forward to the future. In spring 2017, university leadership endorsed NC State's second Sustainability

Strategic Plan, which will guide campus sustainability efforts through 2022. Already, the campus-wide Sustainability Council is hard at work implementing the new plan's goals, which focus on academics, student leadership, community and culture, communications and campus operations.

The Council's vision is for NC State to develop leaders and innovations that create a more sustainable world. As you will see in this report, that work is well underway. Our university community's Think and Do spirit is turning ideas into action and contributing toward a more sustainable future for our community, state, nation and world.

A handwritten signature in black ink that reads "Stephen Kelley".

**Stephen Kelley**  
Co-Chair, Sustainability Council  
Professor, Department of Forest  
Biomaterials

A handwritten signature in black ink that reads "Doug Morton".

**Doug Morton**  
Interim Co-Chair, Sustainability Council  
Associate Vice Chancellor for Facilities

A handwritten signature in black ink that reads "Tracy Dixon".

**Tracy Dixon**  
Director, University Sustainability Office

# Academics

Integrate sustainability into education, experiences and research.

Students in a fall 2016 graduate psychology course researched and designed a paper towel composting system for Talley Student Union.



## Top 10

ranking in 2017 for the College of Natural Resources among U.S. colleges for studying natural resources and conservation.

## 21,000

data points captured by air quality monitors during each NC State home football game in 2015. University researchers used this data to explore the air impacts of major sporting events.

## 11

academic courses in fiscal year 2017 used the NCSU Libraries' Alt-Textbook Project to transition from using expensive, printed textbooks to free, open source resources.



Through the Business Sustainability Collaborative, 27% of Poole College of Management faculty have integrated sustainability into academic courses.



NC State received a three-year grant from the National Science Foundation to offer the only U.S. soils-related research experience for undergraduates.



Students in an interdisciplinary architecture class led Talley Student Union to pursue a second LEED certification for sustainable operations and maintenance.

14

members of the NC State community participated in a regional workshop about integrating sustainability into curriculum.

70

students developed flood mitigation strategies for eastern N.C. communities during the College of Design's inaugural DesignWeek.

1st

research symposium hosted by NC State's Center for Human Health and the Environment on the toll heavy metals take on human health.





“If I can help save one person dying from a factory fire, that’s a meaningful mission.”

Graduate student Rejaul Hasan is researching how to implement safe, sustainable supply chains in his home country of Bangladesh.

11

students named Global Change Fellows by the Southeast Climate Science Center at NC State.

26

virtual reality field trip videos were created for introductory biology courses to enhance learning while eliminating the need to travel.

1st

place in NCSU Libraries’ sustainability-focused multimedia contest went to student projects about climate change and Africa’s water challenges.

250,000

N.C. residents impacted by the chemical GenX in the Cape Fear River, according to NC State research that uncovered the toxin’s presence in this major source of drinking water.

16

N.C. schools districts will work with the College of Education to redesign principal preparation programs as a way to improve education for children.



Students in an Art + Design Studio course created educational games to teach children about sustainability.

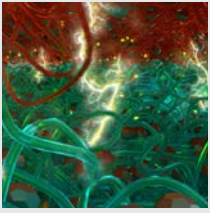


With a solar-powered pump, Biological and Agricultural Engineering students restored wetlands on Harkers Island, N.C.



Horticulture students designed a pollinator garden at the newly-renovated Gregg Museum on campus.

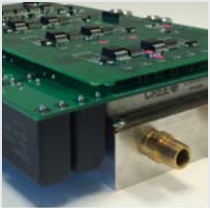
## SUSTAINABILITY-RELATED RESEARCH HIGHLIGHTS



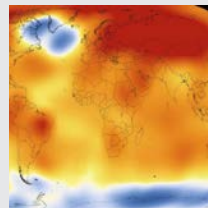
NC State researchers developed a strategy for fabricating more efficient plastic solar cells, as well as how to make a plastic solar cell without the use of environmentally hazardous solvents.



While advanced wood-burning cookstoves can provide benefits to the environment and climate, researchers found these benefits are less than expected due to higher emissions measured in the field compared to lab.



NC State researchers developed an inverter device with greater efficiency in a smaller, lighter package – which should improve the fuel-efficiency and range of hybrid and electric vehicles.



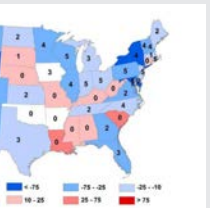
NC State researchers found that teachers' beliefs about climate change influenced students' perceptions.



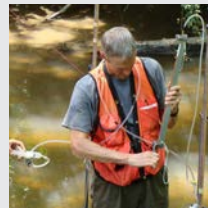
An in-depth study of Chicago neighborhoods in 2011 and 2015 suggests that parks and greenways could play a role in reducing crime, according to NC State research.



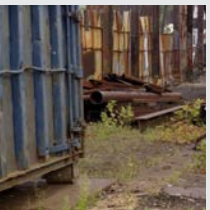
An NC State study found that corporate sustainability reporting often focuses on issues that are unimportant to stakeholders and offers suggestions to improve future reports.



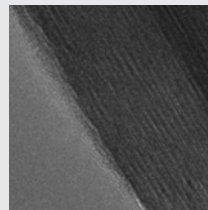
An NC State analysis of U.S. water use over the past 30 years finds most urban areas becoming more water efficient and most rural areas becoming less and less efficient over time.



NC State researchers discovered how to determine the rate at which nitrate pollution makes its way from groundwater into streams, which may help predict long-term pollution in groundwater-fed streams.



Cleaning contaminated sites can benefit the environment, but it can also benefit nearby property values, according to NC State research.



NC State research found that a material which incorporates thin layers of water is able to store and deliver energy, holding promise for future energy-storage technologies.



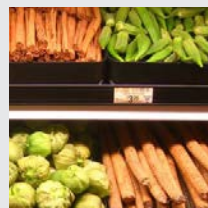
Two NC State studies found value in webcams and photos for planning. Webcams provide data about urban design, and social media photos provide data that can guide land use, conservation and development policy.



Separate NC State studies identified ways to strengthen coastal areas. Both "living shorelines" and marsh grasses were found to benefit coastal wetlands.



NC State researchers found that urban warming slows tree growth and photosynthesis in Raleigh-area willow oak trees.



NC State research found that, while access to healthy foods is a challenge, the biggest variable limiting diet choices in so-called "food deserts" is limited financial resources.

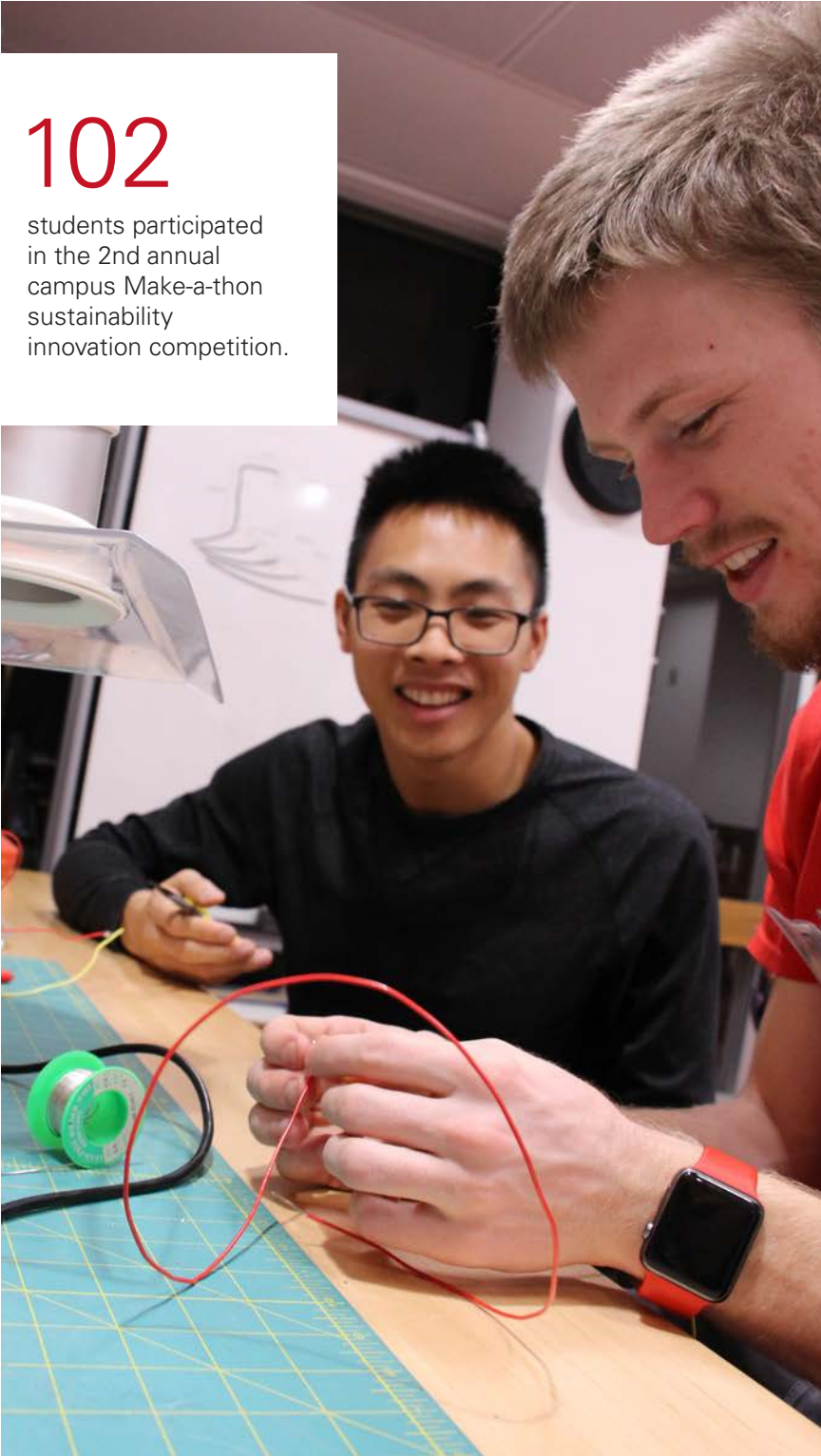


# Student Leadership

Engage students in initiatives that promote leadership and service in sustainability.

## 102

students participated in the 2nd annual campus Make-a-thon sustainability innovation competition.



After learning about the importance of pollinators as a graduate student studying horticulture, Melissa Tinling received a grant from NC State's Sustainability Fund to design and build a Centennial Campus pollinator garden in collaboration with Grounds Services.

Student Mallory Barrett won Best Student Design in the Cradle to Cradle Product Design Challenge for designing a reusable prescription medication bottle.



Student Hanan "Alex" Hsain presented her award-winning sustainable energy research at the 2016 Appalachian Energy Summit. In 2017, she was named a Truman Scholar.





**“Sustainability has transformed me and my future goals. Wherever I end up, I’ll carry sustainability with me.”**

Graduate student Carlo Zanelli, who participated in the NC State Stewards leadership program coordinated by the University Sustainability Office.

With funding from NC State’s Sustainability Fund, students coordinated the installation of a solar-powered charging station at a popular campus bus stop on Dan Allen Drive.



**32,080**

pounds of reusable material and 1,300 pounds of food were donated by students during residence hall move out in May 2017. Donations went to a local nonprofit and the campus Feed The Pack food pantry.

**700**

students at a school in Sierra Leone received clean drinking water access in December 2016 due to the work of NC State’s Engineers Without Borders student chapter.

**10**

students participated in NC State’s second annual tour of environmental justice issues in North Carolina.

**1<sup>st</sup>**

place went to NC State in an energy and water conservation competition versus Clemson University. Residents of the Tri-Towers residence halls most reduced utility use through this competition organized by the NC State Stewards student leaders.





Students participated in sustainability-related service projects as part of the student-led Service Raleigh event.



300

attendees at FoodCon, a November 2016 sustainable food conference at NC State organized by students.

70

students participated in B Corps Clinic helping more than a dozen sustainability-minded local companies pursue B Corp certification.

73

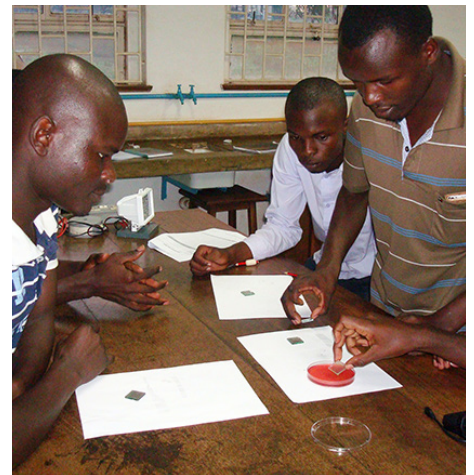
students participated in NC State Alternative Service Break trips that were sustainability-related.



With a grant from NC State's Sustainability Fund, students created a cotton composting program for cotton waste generated at the College of Textiles.



Student-led Food Recovery Network redistributed perishable leftovers from campus dining halls to local nonprofit organizations serving the homeless.



NC State student volunteers with SciBridge sent kits to African students, allowing them to conduct their own sustainable energy research experiments.



# Community and Culture

Accelerate a culture of sustainability, inclusivity and well-being on campus and in the community.

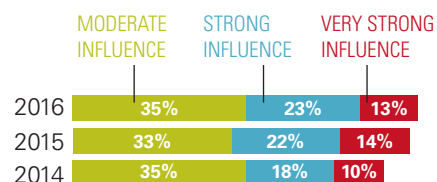


“It wasn’t until I was there face-to-face with the family that I truly understood the degree of our work; we were changing the entire future of a family.”

Elizabeth Wallner, one of 10 NC State students who participated in an Alternative Service Break trip installing solar systems for low-income California families.

## 71 %

of incoming NC State students in 2016 indicated the university’s commitment to the environment and sustainability influenced their decision to attend NC State.



## 145

sustainability-related events on campus during fiscal year 2017.

## 58

campus events were part of NC State’s 2017 Earth Month.

## 46

campus events achieved sustainability certification during fiscal year 2017.

## 31

campus workplaces achieved sustainability certification during fiscal year 2017.





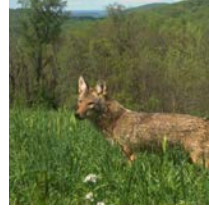
In September 2016, NC State's Institute for Nonprofits added local social entrepreneur Aly Khalifa as the Social Entrepreneur-in-Residence through 2018.



NC State's historic Build-A-Block project with Habitat for Humanity resulted in 11 new homes for families in need of quality, affordable housing.



Cooperative Extension piloted a program teaching elementary school students about integrated pest management (IPM), an approach that minimizes risks to human health, beneficial organisms and the environment.



The Wolfpack Citizen Science Challenge joined researchers and community members in placing camera traps across the natural landscape, recording hundreds of animals on campus and in the Raleigh area.



**“The village has made me what I am today. There is absolutely no doubt about it.”**

Mary Paz Alvarez Valverde, one of more than 250 NC State students who participated in EcoVillage living and learning community since its launch in 2013.

## NC STATE SUSTAINABILITY FUND AWARDS GRANTS

Thirteen sustainability projects will be implemented on campus in fiscal year 2018 thanks to \$179,000 in grants.

- Roof-top garden on Talley Student Union
- Solar-powered athletic scoreboards
- On-campus composting facility
- Composting program in Wolf Village Apartments
- Student development of solar-powered vehicle
- Solitary bee nesting habitats
- Expansion of a student-built aquaponics system
- Research on healthy urban trees
- Make-a-thon, a sustainability innovation competition
- Campus disposal bin for prescription medications
- Two improvement projects at student SOUL Garden
- Educational campaign about food sustainability





What if a program existed to connect under-resourced students with lightly used home furnishings that would otherwise go to local landfills? Then student Taylor Spoon received a grant from NC State's Sustainability Fund to pilot Pack2Pack, which connected students with resources.

## 33

student teams entered the Social Impact category of the Lulu eGames, NC State's entrepreneurship competition. The category winner, Viemetrics, developed a low-cost, portable device to predict asthma attacks.

## 3

N.C. nonprofit organizations received mini-grants from NC State's Center for Human Health and the Environment in fiscal year 2017 to address community environmental issues including air quality and lead.



In fall 2016, Staff Senate and College of Textiles students both held clothing drives that helped low-income families while also reducing clothing waste in landfills.



### SUSTAINABILITY AND THE ARTS

In March 2017, the Nile Project concert, featuring musicians from the Nile region of Africa, launched campus-wide dialogue and programming about social change and sustainability. The concert was one of several Arts NC State events featuring sustainability themes.

### ENGAGING THE COMMUNITY

NC State's McKimmon Center for Extension and Continuing Education offered the following:

- 15 McKimmon Center sustainability-related events or conferences engaging 1,863 participants
- 39 sustainability-related events for members of the Osher Lifelong Learning Institute (ages 55+)
- 15 sustainability-related professional development courses
- 248 additional sustainability-related events engaging 11,500+ people in areas of N.C. beyond Raleigh





# Operations, Planning and Design

Model sustainability through efficient, innovative facilities and operations that educate the campus community and improve the quality of life.



## 95%

of Harrelson Hall's non-hazardous materials and contents were recycled or salvaged during the university's 2016-2017 deconstruction of the building.

## LEADERSHIP IN ENERGY AND ENVIRONMENTAL DESIGN

NC State earned new LEED Silver certifications for Reynolds Coliseum (2017) and Close King Indoor Practice Facility (2016).

The university has 15 LEED-certified buildings totaling more than 1 million square feet.



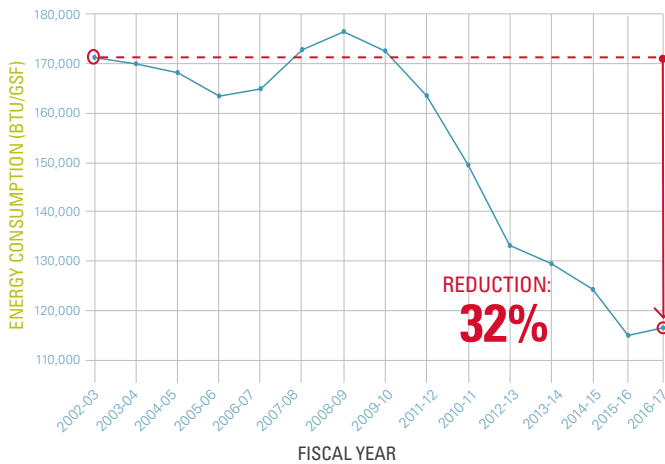
*Reynolds Coliseum*



*Close-King Facility*

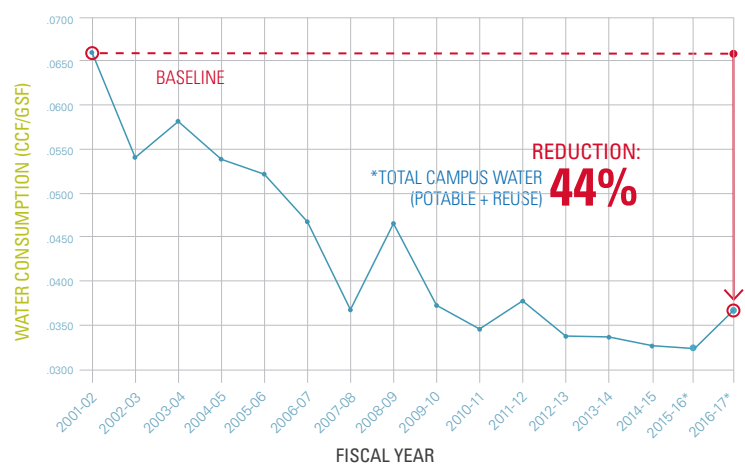


## CAMPUS ENERGY USE PER GROSS SQUARE FOOT



NOTE: The increase in energy use is due to both planned maintenance and unplanned repairs at a campus utility plant, where cogeneration technology was offline for 75 days. Cogeneration is the largest single contributor to the university's energy-saving efforts.

## CAMPUS WATER USE PER GROSS SQUARE FOOT



\*In 2016, NC State began tracking total water use, which includes potable and reuse water. NC State is the City of Raleigh's largest user of reuse water, which reduces cost and susceptibility to drought.

NOTE: This year's water use increase is due to tracking total water use as well as significant thermal system leaks (which have been repaired).



A reclaimed water system installed in February 2017 collects condensate from Cates Utility Plant and reroutes that water for use in the facility's cooling towers, producing \$6,000 in avoided water costs annually.

**\$294,537**

of energy costs avoided during NC State's 2017 Winter Holiday Energy Saving Initiative.

**\$123,364**

of energy costs avoided during NC State's 2016 Summer Classroom Energy Saving Initiative.

## BATTERY-POWERED EQUIPMENT

In 2016, NC State's Grounds Management began using a new line of electric lawn care equipment, which reduces noise and air pollution.



## LAB LIGHTING UPGRADE

LED fixtures and occupancy motion sensors installed in March 2017 in a College of Textiles student lab are expected to save \$4,700 annually in avoided energy costs, providing a return on investment in less than six years.

## STORMWATER

Six new campus stormwater control measures were installed during 2017 fiscal year, adding to the 136 existing campus stormwater controls.





34,440

pounds of paper was shredded and recycled at the annual campus recycling drive in March 2017. Also recycled: 10,590 pounds of electronics, 440 pounds of cardboard and 1,000 pounds of rigid plastic.

26.4%

of NC State Dining's food purchases were from campus, local or regional sources.

3,648

pounds of produce was grown in 2016 on NC State's Agroecology Education Farm for use in campus dining halls.

3.3 MILLION

passenger boardings on the Wolfline campus bus system during fiscal year 2017 – a new all-time high.

13.5%

university greenhouse gas reduction between 2008 and 2013. The next inventory is planned during 2017.

A student-designed aquaponics system grew tomatoes and salad greens in Talley Student Union in fall 2016. The 800-gallon system, which features a tank of up to 15 fish as well as soil-less planting containers, was moved in spring 2017 to the Oval restaurant on Centennial Campus.



10,000

wild bees on campus were rescued in July 2016 and moved to another area of campus, demonstrating NC State's commitment to saving pollinators.

750

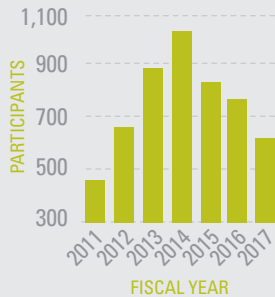
milkweed plants were added in June 2017 to NC State's Lonnie Poole Golf Course to restore monarch butterflies, a pollinator whose population is dwindling.

In April 2017, a new Centennial Campus apiary added 150,000 bees in 7 hives to the campus ecosystem. The bees – managed by alumni-owned Bee Downtown – improve local pollination.



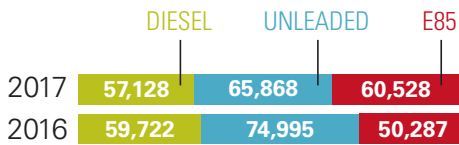


### CAMPUS PARTICIPANTS IN WOLF-TRAILS ALTERNATIVE COMMUTER PROGRAM



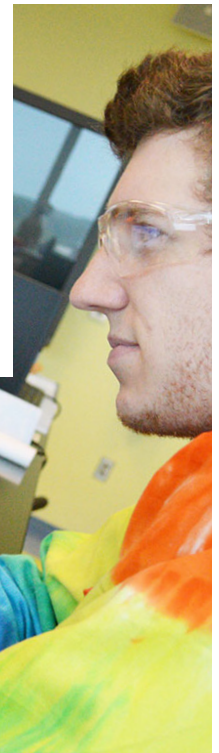
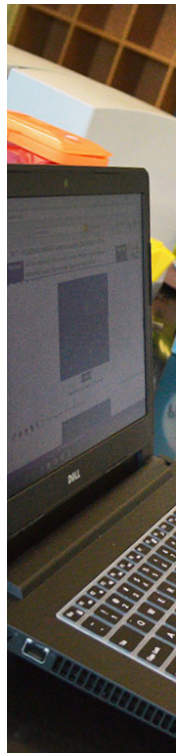
### FUELTYPE USED IN FACILITIES DIVISION\*

\*The Facilities Division, which includes Motor Pool, is one of the university's largest vehicle fleets



# \$30,000

in student textbook purchases were avoided in fall 2016 due to several biotechnology labs switching to electronic notebooks, which also improved the learning experience and saved 63,000 pages of paper.

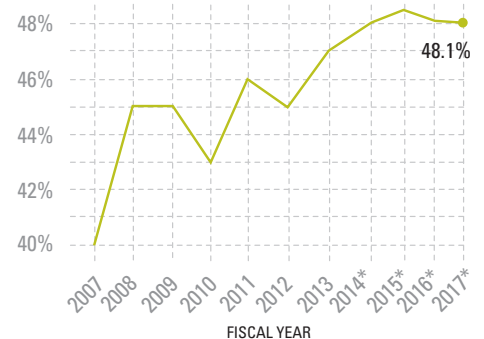


NC State Athletics and the Waste Reduction and Recycling Office expanded composting throughout Carter-Finley Stadium for the 2016 home football season, resulting in 8,920 pounds of compostable material diverted from landfills. Additionally, recyclables topped 63,280 pounds.



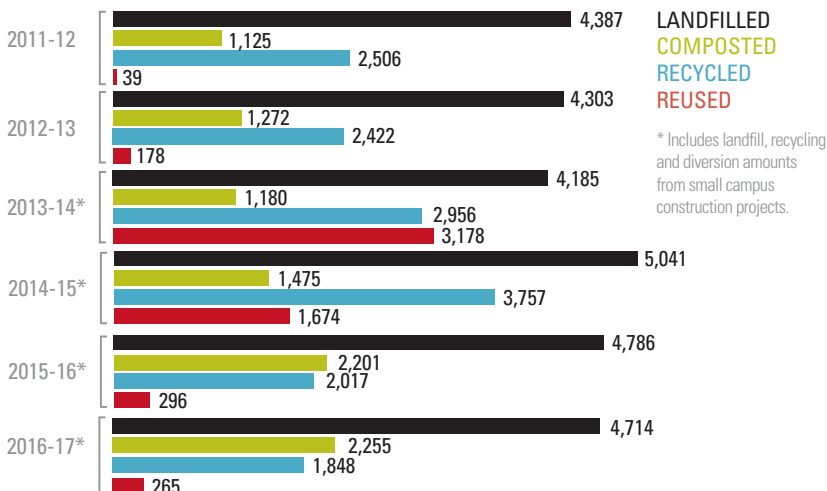
New Zero Waste Workplaces add composting stations, replace deskside trash cans with mini waste bins and add additional self-service recycling and landfill sorting stations throughout three buildings participating in the pilot program.

### PERCENTAGE OF CAMPUS WASTE DIVERTED FROM LANDFILL

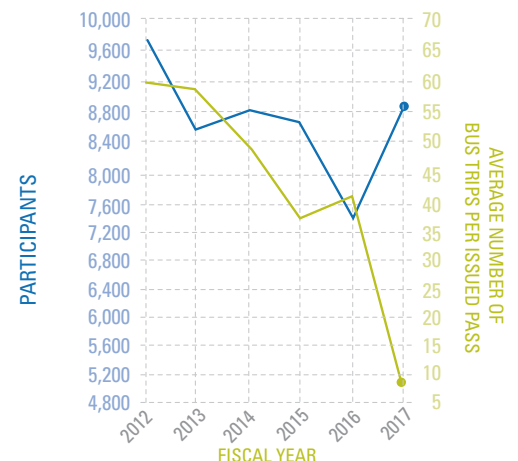


\*Indicates recycling/diversion rates from small construction projects were tracked and reported.

### TONS OF CAMPUS MATERIAL RECYCLED, COMPOSTED, REUSED, LANDFILLED



### STUDENTS, FACULTY AND STAFF USING GOPASS REGIONAL TRANSIT CARDS



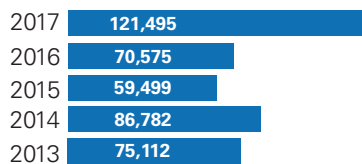
NOTE: Data reflects a shift toward fewer GoPass users who use the pass with greater regularity than previous years.



# Communications

Propel awareness and sustainability at and beyond NC State.

## PAGEVIEWS ON SUSTAINABILITY.NCSU.EDU



7,799

followers on NC State's sustainability social media accounts.

1,067

incoming students in 2016 requested information about campus sustainability.

124

sustainability-related articles on Newswire, NC State's internal news sharing website.

4,965

subscribers to NC State Sustainability weekly e-newsletter.

# Honors and Awards

Campus, local and national sustainability-related recognition

NC State earned **Bicycle-Friendly University (Silver Level)** designation

Greatist.com named NC State **one of the 26 Healthiest Colleges** in the United States

**NC State Green Brick Awards** to Shannon O'Shea (student), Derek Liles (staff), Larry Nielson (faculty), Food Recovery Network (organization) and Zero Waste Workplace (project)

**Sir Walter Raleigh Award** for Talley Student Union, in part for its sustainability features

**Sir Walter Raleigh Award** for College of Design's upgrades to a childcare center playground, incorporating design focused on reducing obesity

**City of Raleigh Environmental Awards** for NC State's Zero Waste Workplace and NC State Extension Professor Emeritus Jean Spooner

**Third place in Invest for Impact Case Competition** for NC State's Jenkins MBA student team

**Gold Rating** for NC State undergraduate and graduate student chapters of sustainability club Net Impact

**Campus L.E.A.D. Awards** for NC State Stewards sustainability leaders and sustainability-related Food Recovery Network

**Second Place in National Association of College Auxiliary Services' student essay contest** for NC State Stewards and their essay about campus waste reduction

**Silver Stewardship Development Award** for Talley Student Union at the annual Greater Triangle Stewardship Development Awards



# SUSTAINABILITY-RELATED CAMPUS EVENTS DURING FISCAL YEAR 2016-2017:

The list includes sustainability events and events that achieved recognition through Wolfpack Certified Sustainable, a self-reporting tool to raise awareness of sustainability in event planning. Level of certification is indicated by color: **Contributor**, **Steward** and **Champion**



## 2016

**Cover Crop Conference**, July 17-19  
**Return to Raleigh Picnic**, July 23  
**WISE EcoVillage Welcome Lunch**, August 11  
**RecFest**, August 14  
**Midnight Howl and Run**, August 15  
**Chillin' and Grillin'**, August 16  
**Silent Disco**, August 19  
**Packapalooza**, August 20  
 CHHE and Toxicology Sponsored Seminar, August 23  
 Eastern Coyotes, August 30  
**Farmscale Vermicomposting Workshop**, August 31  
 Unpack your Lunch with Sustainability, Sept. 6  
 Fall 2016 Volunteer/Career Fair, Sept. 7  
 New Directions in Global Health in the Era of Sustainable Development Goals, Sept. 8  
 Lecture: Sergio Palleron, Sept. 12  
 CHHE and Toxicology Seminar, Sept. 13  
**Sustainable Transportation Showcase**, Sept. 14  
**Drive Electric Week Celebration**, Sept. 16  
 Agroecology Education Farm Open House, Sept. 17  
**SailPack Women's Regatta**, Sept. 17-18

NC State B Corp Clinic, Sept. 19  
 Toxicology Fall Seminar Series, Sept. 20  
 Design Institute: Naturalized spaces for all children, Sept. 22  
 Trail Service Day, Sept. 24  
 Pathways Visitation Day, Sept. 24  
 Geospatial Forum, Sept. 29  
 A Bird's Eye View of Nature in the City, Sept. 29  
 Career Pathways in Toxicology/Environmental Health, Sept. 30  
 The Art and Science of Pollinator Gardens, Oct. 3  
 Toxicology Fall Seminar Series, Oct. 4  
 Lecture: Tom Barrie, Oct. 7  
 Conservation You Can Taste, Oct. 14  
 Lecture: Eike Roswag-Klinge, Oct. 17  
 Century of Parks Speaker Series, Oct. 17  
**STEAM Career Expo**, Oct. 18  
 Valuing Nature: Sustainable Policy Design, Oct. 18  
 CHHE and Toxicology Seminar, Oct. 18  
 Biking in the Triangle, Oct. 18  
 The Sixth Mass Extinction is Here, Oct. 19  
 Semper Fi: Always Faithful, Oct. 19  
 Conversation on Population, Oct. 19

Microbiome: Opportunities for Agriculture and Health, Oct. 20  
**Red and White Week**, Oct. 23-29  
 ALS Epidemiology in Large Populations, Oct. 25  
 Scientist's Thoughts on The End of Plenty, Oct. 27  
**Tough Howler**, Oct. 27  
 Toxicology Fall Seminar Series, Nov. 1  
**FoodCon2016**, Nov. 11  
 Coffee & Viz - Exploring the Solar System, Nov. 11  
**Pig N Pie**, Nov. 12  
 Speed Networking for Social Entrepreneurs, Nov. 14  
 An Evening with John Muir, Nov. 15  
 Dinners With Purpose, Nov. 15  
 Film Screening: Hometown Habitat, Nov. 16  
 Geospatial Forum, Nov. 17  
 B Corp 101, Nov. 18  
 What Did We Find Living on Our Campus?, Nov. 30  
 B Corp Clinic Final Presentations, Dec. 9  
**CEFS Meeting**, Dec. 9  
**COM 466 Big Food Night**, Dec. 15

## 2017

**NC State Stewards Retreat**, Jan. 8  
 Sustainability Fund Showcase, Jan. 11  
 Toxicology Seminar Series, Jan. 17  
 Ecology & Evolution Seminar Series, Jan. 19  
 Eastern Coyotes, Jan. 20  
 DesignWeek: Final Presentations, Jan. 20  
 Martin Luther King, Jr. Campus Commemoration, Jan. 23  
 Burroughs Welcome Lecture, Jan. 24  
**Sustainability Strategic Plan Kickoff**, Jan. 27  
 A 4D Future, Jan. 30  
 Framing of Climate Change in School Science, Feb. 1  
**Make-a-thon**, Feb. 2-5  
 Ecology & Evolution Seminar Series, Feb. 2  
 B Corp Clinic Launch, Feb. 3  
**Krispy Kreme Challenge**, Feb. 4  
**Visions for Sports Sustainability/Wellness**, Feb. 7  
 Toxicology Seminar Series, Feb. 7  
 Wolfpack Women's Basketball Sustainability Night, Feb. 12  
 From Mountain Lions to Weddell Seals, Feb. 15  
 Executive Speaker Series - John Repogle, Feb. 15  
 CHHE Science Symposium, Feb. 16  
 Climate Change - Engineering Grand Challenge, Feb. 16  
 Ecology & Evolution Seminar Series, Feb. 16  
**Wolfpack Way of Life: Wellness Fair**, Feb. 23  
 Climate change and plant-pollinator interactions, Feb. 23  
**Sisterhood Dinner**, Feb. 27  
 Toxicology Seminar Series, Feb. 28  
 Ecology & Evolution Seminar Series, March 2  
**Facilities Division Recognition Lunch**, March 6  
 Recycling Drive, March 8  
**WRRI Conference**, March 16-17  
**All CEFS Meeting**, March 17  
 Nile Project Student Leadership Summit, March 18  
 Short Talks about a BIG issue, March 18  
 Film Screening: The Eritrean Exodus, March 19  
 Home Energy Efficiency Lunch and Learn, March 20  
 Musical Collaboration & Water Cooperation, March 20  
 Uganda Night: Music & Cultural Sustainability, March 20  
 CHHE and Toxicology Seminar, March 21  
 Exposing the Flint Water Disaster, March 21  
**NileFEST**, March 21

The Ethiopian Grand Renaissance Dam & the Road to Cooperation on the Nile River, March 21  
 Ingredients: Movie and Discussion, March 22  
 Helicopter View of Global Food Security, March 23  
 Panoramic Dance Project Concert, March 23  
 Food Solutions Challenge, March 24  
**Run. Dance. Glow.**, March 25  
**Oak City Revolution**, March 25  
 Utilizing Climate Information, March 26  
 NC State Transportation Master Plan Public Input Forum, March 27-28  
 Presentation: Susan Inglis, Sustainable Furnishings Council, March 28  
 Seminar: Harmful Algal Blooms & Climate Change, March 30  
**Mason Pharr Seminar**, March 30  
**International Festival**, March 31  
 Service Raleigh, April 1  
**SailPack Regatta**, April 1-2  
 Great State Clean Up, April 1  
 Pollinator Habitat Rebuilding, April 1  
 Raulston Blooms, April 1  
 Tomato Growing 101, April 1  
 Zero Waste At The Kay Yow Spring Game, April 1  
 Kayaking on Jordan Lake, April 2  
 JC Raulston Arboretum Guided Tour, April 2  
 Presentation: Photographer Todd Pusser, April 3  
 New Student Discussions: Food and Justice for All, April 3  
**North Carolina's Coastal Conference**, April 4  
 Wild Pollinator Safari, April 4  
**Earth Fair**, April 5  
 Textile Sustainability Forum, April 5  
 Department of Landscape Architecture Lecture, April 5  
**Delta Gamma Spring Tailgate**, April 5  
 Bee Downtown Benefit, April 6  
 Coffee & Viz: Use of Immersive Virtual Environments, April 7  
 The Last Time We Were Green, April 7  
 Dance Company Concert, April 8  
 Find Yourself, Outside: Hiking at Raven Rock, April 8  
 Live and Local: Spring Fest, April 8  
 N.C. Environmental Justice Symposium, April 8  
 Wild Edibles Hike with Piedmont Picnic Project, April 9

Poverty, Inc. Screening, April 10  
 NC State Energy Conference, April 11-12  
 Gregg Museum Trip to Bayer Bee Center, April 11  
 Toxicology Seminar Series, April 11  
 Benefit Corporations as a Force for Good in the World, April 11  
 Cleantech Connect Career Fair, April 12  
 City Nature Challenge Campus Walk, April 13  
 Lunch & Learn with Strata Solar, April 13  
 Building the Global Change Community Seminar, April 13  
 Spring Holiday Backpacking to Linville Gorge, April 14-17  
 Design an Herb Garden at SOUL Garden, April 15  
**Earth Day Free Expression Tunnel Painting**, April 17  
 Global Engagement Exposition, April 18  
 Toxicology Seminar Series, April 18  
 Women in Science Speaker Series: Toddi Steelman, April 19  
**Celebration of NC State Sustainability**, April 20  
 Seminar: Food and Water: The Inseparables, April 20  
 Farm Feast, April 20  
**Pastured Pork and Poultry Walk**, April 20  
 Changing the World One Carpet Tile At A Time, April 20  
 Lulu eGames LIVE, April 20  
**Lunch with CREE's Elizabeth Tutino**, April 21  
 Sustainability in Research Seminar: Richard Newell, April 21  
 State of the Sciences: Live at the Library, April 21  
 ETHEL's Documerica, April 22  
 Intermediate Mountain Biking at Kerr Scott Trails, April 22  
 Bike Ride to the Farmer's Market, April 23  
 Raleigh Civic Symphony: A River Runs Through It, April 23  
 CHHE and Toxicology Co-sponsored Seminar, April 25  
**How to be a Sustainable Conscious Consumer**, April 27  
 Denying Denialism: Climate Change Denial, April 28  
 Rock Climbing at Pilot Mountain, April 29  
**CEFS Board Retreat**, May 10-11  
 Bike Safety Lunch and Learn, May 16  
 Rain Garden Workshop, May 20  
**CEFS Apprenticeship Orientation**, May 26  
**Farm to Fork Picnic**, June 2-4  
 Gardening Lunch and Learn, June 14  
**CEFS State Food Policy Council**, June 26



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