

NC STATE
UNIVERSITY

ANNUAL SUSTAINABILITY REPORT

FISCAL YEAR 2018



This report highlights NC State's sustainability impact from July 1, 2017 through June 30, 2018.

Extraordinary challenges require extraordinary leadership, thought and action. At NC State, we bring together bright minds to solve complex problems impacting the environment, economy and society. These sustainability efforts are creating a more efficient campus, preparing students for real-world challenges and furthering high-impact research. I am proud of our university community and its contributions toward a more sustainable community, state, nation and world.



Dr. Randy Woodson, NC State Chancellor

From the Sustainability Council

Twenty years ago, NC State began laying the foundation for what has become a nationally-recognized campus sustainability program.

The past two decades of progress have featured countless sustainability projects and programs, the creation of the University Sustainability Office in 2008 and the implementation of NC State's first Sustainability Strategic Plan.

Building on that success, the university embarked on its second Sustainability Strategic Plan in July 2017. As you'll see in this 2018 Sustainability Report, implementation of the new plan is well underway.

This report highlights sustainability data, cost savings, program results and student perspectives from the past year. You will find examples of sustainability impact in research, teaching, outreach, campus operations and more.

On behalf of the Sustainability Council, thank you for your interest in NC State's ongoing sustainability progress. Through these sustainability programs, projects and practices, NC State is helping create a world that is more environmentally sound, economically viable and socially just.



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



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



Tracy Dixon
Interim Director
Sustainability Office

ACADEMICS

Goal: Integrate sustainability into education, experiences and research.



DESIGN + BUILD

College of Design students in a Design+Build Studio built a post-harvest storage facility for NC State's Agroecology Education Farm, which grows produce for NC State Dining and serves as the hands-on learning site for the Agroecology and Sustainable Food Systems program in the College of Agriculture and Life Sciences.

NEW GRADUATE CERTIFICATES

The College of Design began offering a graduate certificate in public interest design, which broadens access to sustainable design. The College of Natural Resources started a graduate certificate in military land sustainability.

49

participants learned about integrating sustainability into curriculum at the Trillium Workshop hosted by NC State in May 2018.

AGRICULTURE INNOVATION

As part of a fashion design class, College of Textiles student Ashley Maurice partnered with the College of Agriculture and Life Sciences to develop garments that protect tobacco field workers from environmental hazards.

RESEARCH HIGHLIGHTS

A College of Humanities and Social Sciences researcher and group of NC State staff conducted a student survey to understand the extent of **food and housing insecurity** on campus (see page 12 for survey results).

College of Engineering research found that advanced wood-burning stoves designed for use in the developing world can **reduce air pollution** more than anticipated.

College of Sciences researchers developed a technique to prioritize chemicals for in-depth **toxicity testing**.

The College of Textiles, the College of Natural Resources, and the College of Agriculture and Life Sciences created **insecticide-free clothing** that defends against biting insects without chemicals.

A College of Education researcher uncovered motivations for volunteers who participate in **citizen science** projects.

College of Engineering researchers developed new computer models to improve the ability of food banks to feed as many people as possible, as equitably as possible, while **reducing food waste**.

Researchers found that increased hurricane frequency had lasting negative effects on **estuary ecosystems**.

An NC State economic analysis found that off-road vehicle restrictions at Cape Hatteras National Seashore have **biodiversity and habitat preservation benefits** that significantly outweigh the costs of the policy.

NC State researchers received a grant from the National Institute of Environmental Health Sciences to study **GenX exposure**. The chemical has been found in eastern N.C. drinking water.

Research found that smart solid-state transformers could make a reliable smart grid – allowing the power distribution system to route **renewable energy** from homes and businesses into the power grid.

College of Natural Resources research shows that **water use** is impacted by the shape of municipalities.

Cities can serve as useful proxies to study and predict the effects of **climate change**, according to an NC State research review.



FLOATING ISLANDS

Students Bryan Maxwell and Dani Winter designed, built and installed floating islands in two campus stormwater ponds in 2017. The students monitored water quality with sensors.



SUSTAINABLE SENIOR DESIGN

Several of the two dozen senior design projects in the College of Textiles' Department of Textile Engineering, Chemistry and Science focused on sustainability. Students worked with textile companies to address issues from pollution and waste reduction to sustainable product design.



ENVIRONMENTAL FIRST YEAR PROGRAM

The Environmental First Year (ENVFY) program welcomed its first cohort of 80 students in August 2017. A collaboration between the College of Natural Resources, the College of Sciences and the College of Agriculture and Life Sciences, ENVFY students complete a full first-year curriculum, including an ENV 101 course that allows them to explore different environmental degree programs and career paths.



NEW UNDERGRADUATE DEGREE

In fall 2017, NC State began a new sustainability-related degree program in Agroecology and Sustainable Food Systems.



CONNECTING RESEARCHERS

NC State launched the Energy Collaborative to help the campus community collaborate, develop and share energy research and teaching across campus and beyond.

“These efforts will develop a regional sustainable bioproducts and biofuels industry that will create jobs, allow rural communities to thrive and decrease our dependence on foreign oil.”

Dr. Richard Venditti, who leads a College of Natural Resources and College of Education partnership to prepare students in eastern North Carolina for future careers in the bio-products and bioenergy industries.



LEED LAB

In a unique architecture course, students helped improve environmental sustainability at a campus facility. Using the Leadership in Energy and Environmental Design (LEED) rating system as a guide for sustainable best practices, 30 students in LEED Lab spent the Fall 2017 semester developing sustainability recommendations for NC State's McKimmon Conference and Training Center.

GLOBAL HEALTH

The College of Veterinary Medicine is developing a formal global health program to address such issues as animal welfare, food security, infectious disease and sustainability. The program includes ongoing research, a certificate in global health and a combined veterinary/public health degree program in partnership with the University of North Carolina at Chapel Hill.



STUDENT LEADERSHIP

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



POWERED BY THE SUN

SolarPack, a group of interdisciplinary NC State students, began creating a solar and battery-powered car. The team hopes to race the car in the fall 2019 World Solar Challenge collegiate race.

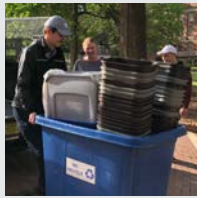
148

students participated in Make-A-Thon, a sustainability innovation competition, on Jan. 26-28, 2018. The winning student team used piezoelectricity to create floors that capture and store energy.

STUDENT HIGHLIGHTS



NC State students Emily Neville and Carly Kvietok reduce textile waste through **Reborn Clothing Co.**, a company they created to transform unworn clothing into new products.



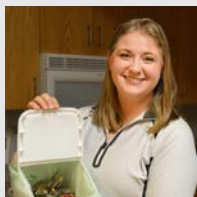
In April 2018 at D.H. Hill Library, student organization **Zero Waste Wolves** mobilized student volunteers to work alongside NC State Waste Reduction and Re-

cycling in removing 337 desktop trash cans and instead creating centralized waste collection areas. These centralized sites integrate recycling, which should reduce landfill waste in the building.



Four College of Engineering students founded **Trashr**, a sensor technology company that optimizes waste collection efforts while also improving sustain-

ability. The idea emerged at the 2016 Make-A-Thon, a campus sustainability innovation competition.



With a grant from the NC State Sustainability Fund, student Kelsey Shevlin launched a **composting program** at Wolf Village Apartments on campus. About 60

apartments used compost jars to divert food waste from landfill.



Students Olivia and Vanessa Merritt conducted a **study on bird collisions** with campus buildings. That study led to an NC State Sustainability Fund grant to pilot

window film that could help birds more safely navigate campus.

SOCIAL INNOVATION

A new program called the Social Innovation Fellows launched with its first cohort of 30 students, who partnered with nonprofits and businesses that aim to solve social challenges related to food and water.



33

student teams entered the Social Impact category of the 2018 Lulu eGames, NC State's entrepreneurship competition.

15

student organizations participated in the first Sustainability Fair, which showcased opportunities to join sustainability-related student organizations.

SERVICE LEARNING

Nearly 90 students in Eco-Village, NC State's sustainability living and learning community, learned about sustainability through service at the campus farm, with football game composting and with invasive species removal on campus.



SPRING BREAK SERVICE

Over spring break, the Diversity and Inclusion adVenture Experience (DIVE) trip took 12 students to Louisiana to learn about environmental justice related to land loss along the Gulf Coast. Another environmental justice-focused trip engaged 10 students in learning and service in eastern North Carolina.

“NC State taking on sustainability as a core issue is a unique and important perspective. It’s a point of pride for our university.”

Lydia Haile, who is one of approximately 30 participants in the NC State Stewards student leadership program coordinated by the University Sustainability Office

BEE HOTELS OPEN FOR BUSINESS

NC State’s three bee hotels provide vital habitat for native bees. Student Jonathan Giacomini and research technician Sara June Giacomini received a grant from NC State’s Sustainability Fund to install a bee hotel at three campus locations: outside Kilgore Hall, in the Court of Carolinas and along the Centennial Campus greenway trail.



GLOBAL IMPACT

NC State’s student chapter of Engineers Without Borders has worked for the past decade to supply clean water to a school in Sierra Leone. In May 2018, five students and an engineering mentor traveled to the school to complete the water system. In 2019, NC State students will complete a final trip for education about maintaining the system for the long term.



B CORP CLINIC

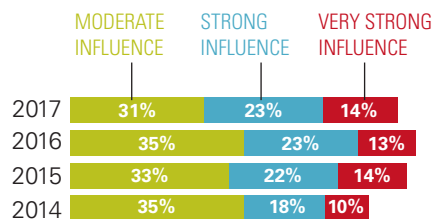
NC State’s B Corp Clinic offers students hands-on consulting experience and the chance to learn about B Corporations, social and environmental impact assessment, and sustainable business. The Clinic has worked with 180+ students on 29 projects and helped companies make progress on more than 1,300 points toward certification, including six companies that have become B Corp Certified.

COMMUNITY AND CULTURE

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

68%

of incoming NC State students in 2017 indicated the university's commitment to the environment and sustainability influenced their decision to attend NC State.



51

campus events achieved sustainability certification during fiscal year 2018.

6

campus workplaces achieved sustainability certification during fiscal year 2018.

4

student organizations achieved sustainability certification during fiscal year 2018, the first year the certification was offered.



EARTH DAY CLEAN UP

75 volunteers collected 800 pounds of trash and recyclables at Lake Raleigh and the surrounding area during an event hosted by Wellness and Recreation, Centennial Campus, University Sustainability Office, Grounds Services, Waste Reduction and Recycling, and numerous student organizations. Volunteers also started work to create a more sustainable trail system.



SUSTAINABLE SHACK-A-THON

This annual campus fundraiser for Habitat for Humanity added a sustainability award, which was awarded to the College of Natural Resources. Their log cabin entry was repurposed as a tool shed in Schenk Forest after the event.

26,765

pounds of reusable items and non-perishable food was donated by students during residence hall move out in May 2018. Donations went to a local nonprofit and the Feed the Pack campus food pantry.

60

sustainability-related offerings hosted by the Osher Lifelong Learning Institute (OLLI) at NC State. The program provides non-credit courses, study trips and events for adults aged 50+.

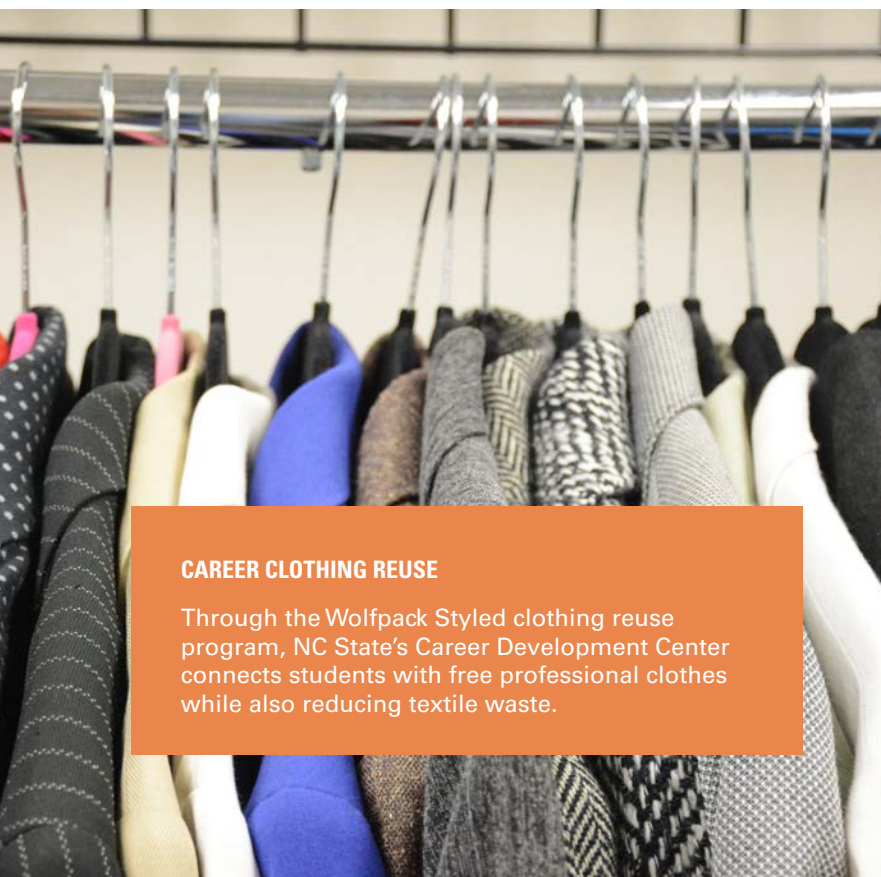
BUILDING RESILIENCE

NC State co-hosted a workshop and engagement effort to build resilience in Princeville, N.C. The historic town, founded by freed African-Americans in the closing days of the Civil War, is low-lying and flooded during Hurricane Matthews in 2016.



FOOD AND HOUSING SECURITY

A group of NC State faculty, staff and community leaders surveyed 7,000 students to assess food and housing insecurity on campus. 14 percent of students reported low or very low food security within the past month, and 9.6 percent of respondents had experienced homelessness within the past year. An initiative called Pack Essentials launched to help support students facing these issues.



CAREER CLOTHING REUSE

Through the Wolfpack Styled clothing reuse program, NC State's Career Development Center connects students with free professional clothes while also reducing textile waste.

HIGHLIGHTS

Delta Gamma Sorority received the **Most Sustainable Chapter** award during the annual NC State Fraternity and Sorority Life Standards of Excellence Awards Ceremony on Oct. 13, 2017.

Student Health Services installed a **medication disposal receptacle** for unused or expired medications. This service prevents medications from impacting the environment due to improper disposal.

The University Sustainability Office hosted **Campus Sustainability Week** in October 2017 featuring events and educational opportunities about sustainability.

NC State hosted two **sustainability-related career fairs**: the Cleantech Connect Career Fair on Jan. 30, 2018, and the STEAM Career Fair on Oct. 18, 2017.



SUSTAINABILITY PARTNERS

A new campus program launched in June to showcase sustainability up close and personal. Through monthly tours or workshops, Sustainability Partners teaches about sustainability while also building community on campus. The program is coordinated by the University Sustainability Office and the NC State Staff Senate Resources and Environment Committee.

13 SUSTAINABILITY FUND GRANTS AWARDED

These sustainability projects will be implemented on campus in fiscal year 2019 thanks to \$120,824 in grants:

- Design assessment for a solar-powered heating system at Bragaw Residence Hall
- Window film designed to reduce bird collisions at Student Health Center
- Water bottle refilling stations at College of Textiles
- Expansion of Food Recovery Network, a student organization that recovers leftover food from campus dining locations and distributes to local nonprofits
- Shower timers in Bragaw Residence Hall
- Trails and signs at Lake Raleigh
- Energy and Justice Service Trip
- Restoration of the longleaf pine woodland on NC State's Lake Wheeler Road Biological Field Lab
- Two sustainability-related concerts by NC State and Raleigh Civic Chamber Orchestra
- Interactive class assignment about urban trees

269

sustainability-related events on campus during fiscal year 2018.

42

campus events were part of NC State's Earth Month in April 2018.

3

N.C. nonprofit organizations received mini-grants from NC State's Center for Human Health and the Environment in fiscal year 2018 to address community environmental issues including indoor mold, algal blooms and safe drinking water.

OPERATIONS, PLANNING AND DESIGN

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



GROUNDS GOES GREEN

NC State Grounds Services, which maintains the campus grounds, began piloting a sustainability program at the Gregg Museum of Art and Design. Instead of gas-powered equipment, they use battery-powered equipment. Instead of synthetic fertilizers, they opt for compost. Instead of chemical weed control, they choose natural alternatives like horticultural vinegar.

ENERGY-SAVING HIGHLIGHTS

Environmental Health and Safety generates energy savings through its ongoing **lab safety inspections**. Identification of over-ventilated fume hoods generates about \$50,000 in energy savings annually.



On 211 historic windows of the **1911 Building**, Energy Management applied a ceramic window film to cut in half the amount of solar heat gain.



In May 2018, **Price Music Center** became the first campus building completely outfitted with energy-efficient LEDs. With occupancy sensors installed, the lights are expected to use less than one-third of the lighting energy as before.



Over winter break, campus buildings avoided more than \$200,000 in energy costs through the **Holiday Energy Saving Initiative**.



In November 2017, University Recreation installed two solar scoreboards at **Method Road Field Complex**, where club and intramural sports teams play.



GREGG MUSEUM EARNS LEED GOLD RATING

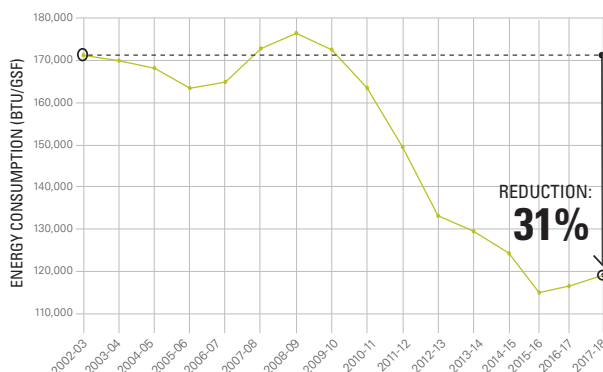
The new gallery wing of NC State's Gregg Museum of Art & Design earned Leadership in Energy and Environmental Design (LEED) certification at the Gold level. NC State has more than 1 million square feet of LEED certified building space.



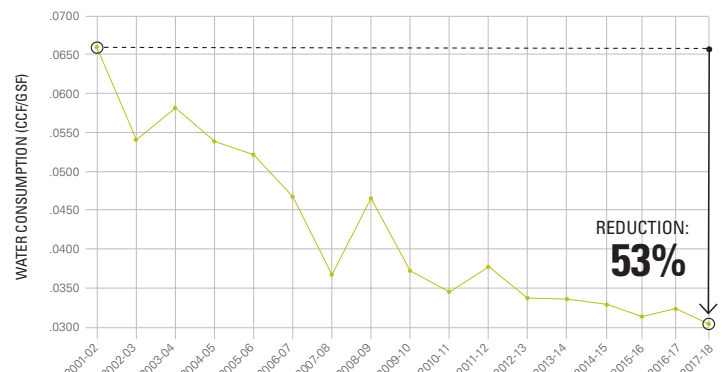
BRICKYARD STORMWATER IMPROVEMENTS

The Facilities Division constructed five sustainable landscape improvements that will reduce flooding on and around the university's Brickyard. A combination of rain gardens, permeable pavers and other green infrastructure reduces stress on decades-old stormwater infrastructure, preventing runoff from reaching nearby buildings.

CAMPUS ENERGY USE PER GROSS SQUARE FOOT



CAMPUS POTABLE WATER USE PER GROSS SQUARE FOOT



TALLEY ROOFTOP GARDEN

Talley Student Union hosts a rooftop garden growing food for people and pollinators. Horticultural Science students created the plant design, which they installed in October 2017. In April 2018, the second phase of plants were installed and students began collecting data, such as what type of pollinators are visiting the garden and how individual plant species are managing rooftop conditions. Herbs and other edible plants grown are used by NC State Dining chefs.



WASTE REDUCTION HIGHLIGHTS

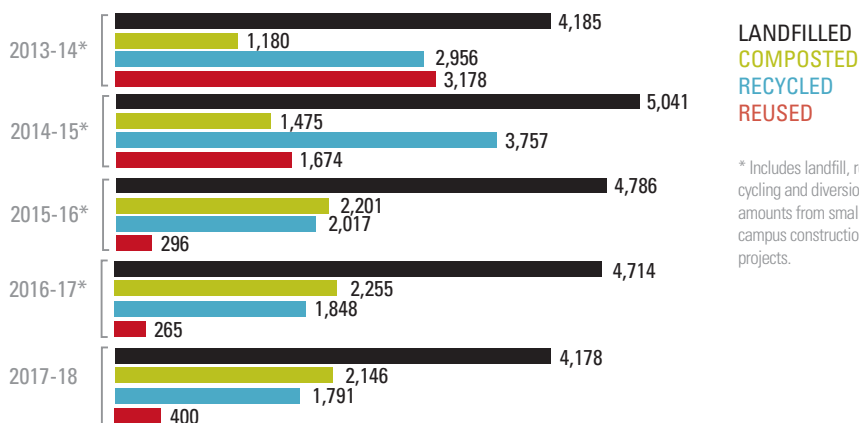
In partnership with campus units, the Office of Information Technology **reduced paper use** by implementing online processes in areas such as employee leave and timekeeping, financial aid, donor reports, lab agreements and in-house purchase requests.

Beginning Spring 2019, all multiple-choice **exams** through DELTA Testing Services will be completed online instead of on paper.

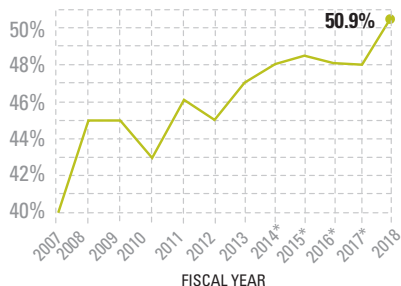
Zero Waste Workplace expanded to JC Raulston Arboretum and Witherspoon Student Center. Recycling/landfill bins were optimized to maximize waste diversion in Murphy Football Center, Weisiger-Brown Athletic Facility, Reynolds Coliseum, Case Academic Center and Lonnie Poole Golf Course Clubhouse.

520 participants recycled 50,941 pounds of material during NC State's Annual **Recycling and Shredding Drive**.

TONS OF CAMPUS MATERIAL RECYCLED, COMPOSTED, REUSED, LANDFILLED



PERCENT OF CAMPUS WASTE DIVERTED FROM LANDFILL



COMPOSTABLE CUP



NC State Dining transitioned its restaurants at Talley Student Union and On the Oval to use compostable cups, straws and lids, which reduce waste sent to landfill.



BAT HABITAT

A colony of bats that needed to be relocated from a campus parking deck three years ago has been given a new home thanks to collaborative efforts of faculty and staff. Two bat boxes were installed on campus in February 2018.



ZERO WASTE WOLFPACK

A 42 percent diversion rate was achieved for the home football season thanks to the Zero Waste Wolfpack waste reduction program inside Carter-Finley Stadium. 72,913 pounds were recycled or composted.

ALTERNATIVE COMMUTE

During fiscal year 2018, 858 members of the campus community participated in the Wolftrails Alternative Commuter Incentive Program. Additionally, 4,344 GoPasses were distributed for travel on the regional bus system.

WOLFTRAILS PARTICIPANTS

2014	1,024
2015	835
2016	732
2017	667
2018	858

FUEL TYPE USED IN FACILITIES DIVISION*

*The Facilities Division, which includes Motor Pool, is one of NC State's largest vehicle fleets

	DIESEL	UNLEADED	E85
2018	54,007	64,159	55,678
2017	57,128	65,868	60,528
2016	59,722	74,995	50,287

GREENHOUSE GAS INVENTORY

NC State's total emissions during fiscal year 2017: 319,451 MTCDE. This is the new campus baseline.

SCOPE 1: 33%

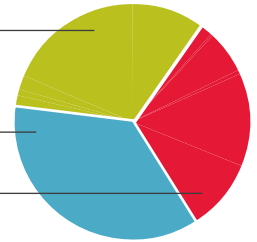
Fuel, animals, fertilizers and refrigerants

SCOPE 2: 36%

Purchased electricity

SCOPE 3: 31%

Travel and waste



3,506,210

passenger boardings on the Wolfline campus bus system during fiscal year 2018

2014	2,917,360
2015	3,149,045
2016	3,220,569
2017	3,327,585
2018	3,506,210

WOLFLINE ANNUAL BOARDINGS

22.5%

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

2014	27%
2015	27%
2016	27%
2017	26.4%
2018	22.5%

PERCENTAGE OF LOCAL FOOD PURCHASES



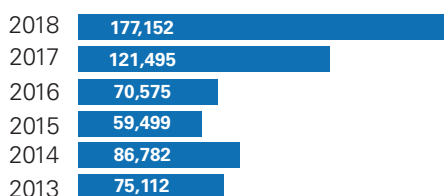
CAMPUS BIKESHARE

LimeBike deployed the first campus-wide bikeshare system in August 2017. The 300-bike pilot program grew in January 2018 to add another 200 bikes. During the 2018 fiscal year 21,521 users took 84,307 trips covering 45,343 miles.

COMMUNICATIONS

Goal: Propel awareness and sustainability at NC State and beyond.

PAGEVIEWS ON SUSTAINABILITY.NCSU.EDU



8,652

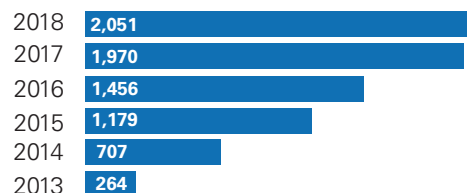
followers on NC State's sustainability social media accounts. This is an increase of nearly 10 percent over last fiscal year.

1,111

incoming students in fiscal year 2018 requested information about campus sustainability



AVERAGE WEEKLY READERS OF NC STATE'S SUSTAINABILITY E-NEWSLETTER



AWARDS

For the seventh consecutive year, NC State was named a **Green College** by The Princeton Review.

NC State has a **Gold Rating** from the Sustainability Tracking, Assessment & Rating System™ of the Association for the Advancement of Sustainability in Higher Education.

The **Zero Waste Wolfpack** program earned a City of Raleigh Environmental Award and a Carolina Recycling Association Annual Award.

During the 2017 **Appalachian Energy Summit**, NC State received a \$5,000 summit grant for LEED Lab, a College of Design academic course. In the summit's student poster competition, NC State student Ashfanoor Kabir won the grand prize in the Ph.D. category and NC State's Sushant Shetgeri won the grand prize in the graduate project category.

NC State Green Brick Awards to Mary Paz Alvarez Valverde (student), Reggie Howell (staff), Ryan Emanuel (faculty), Engineering Without Borders (organization) and Food and Housing Security Initiative (project).

Sean Fokes won an NC State Award of Excellence for boosting energy efficiency in residence halls.

The Ecological Society of America honored NC State forestry assistant professor **Zakiya Holmes Leggett** for her efforts to mentor and recruit students from diverse ethnic backgrounds into the field of ecology.

SUSTAINABILITY-RELATED CAMPUS EVENTS DURING FISCAL YEAR 2017-2018:

2017

July 13- "From the Ashes" Advance Film Screening
 July 24 - Beer-Reviewed Science: What's Up With My Water?
 Aug 19 - Volunteer Day at Agroecology Education Farm, Packapalooza
 Aug 23 - Back to the Market
 Aug 24 - Social Innovation Fellows Launch, Social Justice Student Cohort
 Aug 26 - Pollinator Habitat Workshop and Celebration
 Aug 29 - Toxicology Seminar Series - Air Pollution Exposure
 Aug 30 - Wellness Wednesdays
 Aug 31 - Geospatial Forum, Pedal Power Cycling Class
 Sept 2 - Volunteer Day at Agroecology Education Farm
 Sept 6 - Wellness Wednesdays
 Sept 7 - Applied Ecology Seminar: Dr. Emily Bernhardt
 Sept 8 - Alternative Fuel Vehicle Demo, B Corp Clinic Kickoff
 Sept 9 - Alternative Fuel Vehicle Tailgate
 Sept 10 - SOUL Garden Workday
 Sept 11 - Ecological Challenges, Geospatial Forum
 Sept 12 - Advancing Your Green Career Panel Discussion
 Sept 13 - Wellness Wednesdays, Climate Change Intersectionality Talk
 Sept 15 - CenREP Colloquium, SOUL Garden Tour
 Sept 16 - Volunteer Day at Agroecology Education Farm, SOUL Garden: Harvest Honey with Bee Downtown
 Sept 19 - CHHE and Toxicology Program Seminar
 Sept 20 - Wellness Wednesdays
 Sept 22 - Global People's Summit, Landscape Architecture Lecture
 Sept 23 - Falls Lake Paddleboarding
 Sept 25 - Careers in Sustainability Workshop, Beer-Reviewed Science
 Sept 26 - The Untold Stories of GMO Pioneers
 Sept 27 - Wellness Wednesdays, Meet Jarami Bond
 Sept 28 - Triangle Global Health 2017 Annual Conference, Geospatial Forum

Sept 29 - Project WILD
 Sept 30 - Falls Lake Mountains-to-Sea Trail Service Day, Hiking and Camping at Morrow Mountain
 Oct 2 - Sustaining Forest Productivity
 Oct 4 - Defeating Invasive Species, Wellness Wednesdays
 Oct 5 - Fall Break Backpacking to Big South Fork
 Oct 7 - Agroecology On Farm Dinner
 Oct 8 - Women's Volleyball Sustainability Night
 Oct 9 - Group Bike Ride on NC State's Greenways, Environmental First Year Program Poster Session
 Oct 10 - Plant Sale
 Oct 11 - Sustainable Fleet Technology Conference, Lunch and Learn: Green Cleaning, Lunch and Learn with Gretchen Digby, Environmental First Year Program Poster Session
 Oct 12 - Barkalow Lecture, Sustainability Fair
 Oct 13 - Energy Efficiency Forum, Critical Making Workshop, Lecture on Cultural Sustainability, Men's Soccer Sustainability Night
 Oct 14 - Mountain Biking at Crabtree Lake
 Oct 15 - Climbing at Manchester Bridge
 Oct 16 - Seminar: Madhu Katti, Leadership in Public Science
 Oct 17 - CHHE and Toxicology Program Seminar
 Oct 18 - STEAM Career Expo, Electric Vehicle Show, Soil Science Seminar, Landscape Health & Global Food Security
 Oct 19 - Seminar: Dr. Metthhika Viithanage
 Oct 20 - CenREP Colloquium
 Oct 21 - Hike and Cave at Worley's Cave, Volunteer Day at Agroecology Education Farm
 Oct 23 - Evaluating tropical forest conservation strategies, Beer-Reviewed Science
 Oct 25 - Is ecotourism an effective conservation tool?, Libraries Lunch

and Learn: Let's Talk Trash
 Oct 26 - NC State's 18th Annual Vermiculture Conference, Applied Ecology Seminar
 Oct 30 - Biogeochemical consequences of hydroclimatic change in tropical streams and temperate coastal wetlands
 Nov 1 - Movie Screening: The Clean Bin Project
 Nov 2 - Eco-Driving Lunch & Learn
 Nov 2 - Geospatial Forum: Dr. Bethany Cutts
 Nov 3 - Backpacking at Croatan National Forest, Pumpkin Composting
 Nov 4 - Volunteer Day at NC State's Agroecology Education Farm
 Nov 8 - Making Space: Annelie Koller, Sustainability Hacks Workshop
 Nov 13 - Lunch and Learn: Megan Anderson, Adventures in Statistical Ecology, Speed Networking for Social Entrepreneurs
 Nov 14 - Toxicology Program Seminar Series
 Nov 15 - Sustainability Fund Showcase
 Nov 16 - World Philosophy Day Lecture: Loving Nature, Seminar: Snapshots of a Changing Climate, Dinners With Purpose
 Nov 17 - Coffee and Viz: A Tour of the Solar System
 Nov 18 - Volunteer Day at NC State's Agroecology Education Farm
 Nov 21 - Toxicology Program Seminar Series
 Nov 27 - Understanding the impacts of organic matter removal on soils and forest productivity in an intensively managed pine plantation, Beer-Reviewed Science
 Nov 28 - Toxicology Program Seminar Series
 Nov 30 - Applied Ecology Seminar: Dr. Jenni Geib
 Dec 2 - Volunteer Day at NC State's Agroecology Education Farm
 Dec 7 - Catalyzing Climate Solutions in a Time of Public Gridlock

2018

Jan 4 - Ski and Snowboard to Snowshoe Mountain
 Jan 9 - DesignWeek: Lecture + Panel Discussion
 Jan 10 - Bioinformatics Seminar Series
 Jan 15 - Day of Service
 Jan 16 - Martin Luther King Jr. Commemoration Speaker, CHHE/Toxicology Seminar
 Jan 17 - Nissan LEAF Event, Darius Simpson Workshop
 Jan 19 - Coffee & Viz: Tropical Forest Conservation, Equitable & Sustainable Tourism Seminar
 Jan 20 - Wildlife Rehabilitators of NC Symposium
 Jan 22 - Sustainable Tourism Day
 Jan 24 - Sustainability Fund Proposal Help Session
 Jan 25 - Climate Justice
 Jan 26-28 - Make-A-Thon
 Jan 29 - Seminar - Algal Blooms in U.S. Lakes
 Jan 30 - Cleantech Career Fair, CHHE/Toxicology Seminar, America's First Forest
 Jan 31 - Shut Out Human Trafficking
 Feb 1 - Impacts on biodiversity and ecosystem services, Shut Out Human Trafficking, Sustainability Night at Women's Basketball Game
 Feb 2 - NC State B Corp Clinic Kickoff, College of Natural Resources Graduate Research Symposium
 Feb 3 - Coffee Bag Tote Workshop
 Feb 5 - The Sustainability of Local Food Systems
 Feb 6 - Sustainability Fund Proposal Help Session
 Feb 7 - OLLI Event: Volcanoes and Their Impact on Human History, OLLI Event: The Energy of Life
 Feb 8 - CHHE 2nd Annual Symposium: Epigenetics, Environment, and Human Health
 Feb 8 - OLLI Event: Future Crises of Climate Change
 Feb 12 - The Future of Forest Health, OLLI Event: The Science of Nutrition
 Feb 14 - Let's Talk Trash, OLLI Event: Volcanoes and Their Impact on Human History
 Feb 14-15 - OLLI Event: Future Crises of Climate Change
 Feb 15 - Assessing the Conservation Value of Evolutionary History
 Feb 16 - OLLI Event: Saving North Carolina's Natural Heritage, Bite-sized Research Series: Hydrologic Impacts of Reduced Alfalfa Cropping in California's Central Valley, Equitable & Sustainable Tourism Seminar
 Feb 19 - Forest Products Sector Impacts of Projected Increase in Global Plantation Area, OLLI Event: The Milky Way: Our Home Galaxy, COMx: Innovations in the Global Challenge of Food + Water Security
 Feb 21 - OLLI Event: The Colorful World of Dyeing, OLLI Event: Splendid Giants: Evolution of Dinosaurian Ornaments, OLLI Event: Volcanoes and Their Impact on Human History, OLLI Event: The Energy of Life
 Feb 22 - Sonoco Recycling Tour, OLLI Event: The Future North Carolina Economy, OLLI Event: Future Crises of Climate Change, The Economics of Climate Change: Costs and Benefits, Crossroads Series: Michael Specter
 Feb 24 - Lake Raleigh Cleanup

Feb 26 - Growing Wood for Bioenergy, SIF Skill Lab: Marketing for Social Change, NC Water Resources
 Feb 28 - SIF Skill Lab: Supply Chain
 Mar 1 - Habitat Fragmentation in the Southeastern U.S.
 Mar 2 - OLLI Event: Study Trip to National Institute of Environmental Health Sciences, Graduate Research Symposium: Environmental, Water Resources and Coastal Engineering
 Mar 5 - Partnering with Beaver, Nature's Ecosystem Engineers
 Mar 7 - Shredding/Recycling Drive
 Mar 12 - A Tale of Two Waterbodies, Benefit Corporations as a Force for Good in the World, Supply Chain Club: Water For Good
 Mar 13 - OLLI Event: Human Well-Being Workshop
 Mar 14-15 - 20th WRRRI Annual Conference
 Mar 14 - OLLI Event: Citizen Science: Democratizing Discovery, Annual Women in Landscape Architecture Lecture
 Mar 15 - 15th Annual Urban Design Conference, OLLI Event: Ponds or Rivers, ETHEL with Robert Mirabal
 Mar 16 - Growing IN Place Symposium 2018, OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr., OLLI Event: Looking for Fossils
 Mar 19 - Long-term Effects of Restoration Burning
 Mar 20 - OLLI Event: Human Well-Being Workshop, NC State Stewards Info Session, Documentary Screening: The Last Crop
 Mar 21 - OLLI Event: Citizen Science: Democratizing Discovery, Social Greenway Bike Ride, Chasing Coral Film Screening and Discussion
 Mar 22 - OLLI Event: Ponds or Rivers, Chasing Coral, A Swedish Conservation Success, Shore Stories
 Mar 23 - OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr.
 Mar 24 - Environmental Career Day
 Mar 27 - OLLI Event: Human Well-Being Workshop
 Mar 28 - OLLI Event: Citizen Science: Democratizing Discovery
 Mar 29 - OLLI Event: Ponds or Rivers, Global Change Seminar Series: Ecosystem Services
 Mar 30 - OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr.
 Apr 2 - Architecture Lecture, Clean the World: Worldwide Water
 Apr 3 - OLLI Event: Human Well-Being Workshop, Dinners With Purpose + Pursuit of Social Impact
 Apr 4 - OLLI Event: Citizen Science: Democratizing Discovery, OLLI Event: So Many Things We Do Not Know, Living at the Intersection of Climate Change Science
 Apr 5 - OLLI Event: Ponds or Rivers, Mimicry and monogamy in Peruvian poison frogs, Lulu eGames LIVE!, Sustainable Business Forum, Faith and the Environment
 Apr 6 - OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr.
 Apr 7 - Raulston Blooms!, Compost and Recycle Volunteers at Kay Yow

Spring Game
 Apr 9 - Candid Critters and Wildlife Conservation
 Apr 10 - OLLI Event: Human Well-Being Workshop, Symposium to Unite the Faculties in Environmental Science and Ecology
 Apr 11 - OLLI Event: Citizen Science: Democratizing Discovery, OLLI Event: Citizen Science: Democratizing Discovery, Earth Fair
 Apr 12 - Seminar: Novozymes, OLLI Event: Ponds or Rivers, Global Change Seminar: The Risks and Rewards of Science Advocacy, Farm Feast
 Apr 13 - OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr.
 Apr 14 - Great STATE Clean Up, Service Raleigh, Waste Audit, DIY Event with Reborn Clothing Co., Catching A Buzz
 Apr 17 - 18 - State Energy Conference
 Apr 17 - OLLI Event: Human Well-Being Workshop, Save Your Green by Going Green, Student Roundtable with Ron Jarvis (Vice President of Sustainability for Home Depot)
 Apr 17 - Reducing Raleigh's Waste
 Apr 18 - OLLI Event: Citizen Science, Social Greenway Bike Ride, Sprouting Connections
 Apr 19 - OLLI Event: Ponds or Rivers, Student Food and Housing Security Visioning Session, OLLI Event: Biotechnology and Your Health, Embracing Historical Contingency in Ecological Community Assembly, Society of Asian Scientists and Engineers Movie Night, Sustainable Development Panel Discussion
 Apr 20 - OLLI Event: The Relevant and Healing Message of Dr. Martin Luther King Jr., OLLI Event: Art of the Hand: Why Craft Matters, Equitable & Sustainable Tourism Seminar, Film Screening and Seafood Tasting: "Ugly & Wild"
 Apr 22 - Lake Raleigh Earth Day Cleanup and Service Day
 Apr 23 - Community Gardens: Why They Are Valuable to Our Communities
 Apr 24 - Earth Day Every Day: Make An Impact, Film Screening: The True Cost
 Apr 25 - Recharge the Pack, Roots and Shoots' End-of-Year Succulent Sale, Student Presentations: Sustainable Development Goals
 Apr 26 - Celebration of NC State Sustainability
 Apr 27 - NC State B Corp Clinic Lunch & Final Presentations
 May 3 - Women In Green Panel at NC State
 May 16 - Social Greenway Bike Ride
 May 19 - Agroecology Farm Volunteer Day
 Jun 20 - Social Greenway Bike Ride
 Jun 22 - Talley Rooftop Garden Tour

View the Annual Sustainability Report online
go.ncsu.edu/SustainabilityReport



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