

Semester in Review

Spring 2024



UNIVERSITY OF
GEORGIA



Semester in Review

Spring 2024



UNIVERSITY OF
GEORGIA

Office of Sustainability Internship Program

Jessica Moore



UNIVERSITY OF
GEORGIA
Office of Sustainability

Southeast Student Engagement

Liora McElvaney & Ashleigh Gordon



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Office of Sustainability



Southeastern Student Sustainability Conference



Southeastern Student Sustainability Conference

100+ attendees

1 schools

5



Knowledge



Networking



Navigation









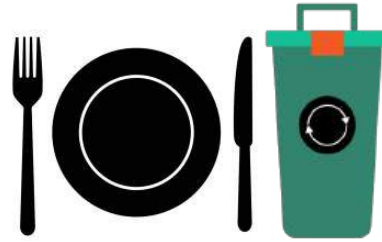




ugarden



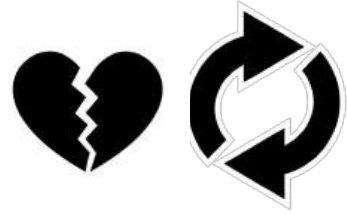
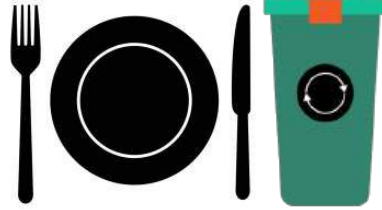
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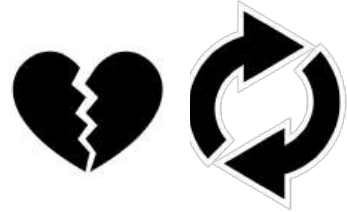
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SOUTHEASTERN STUDENT
SUSTAINABILITY
CONFERENCE



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How Did It Go?



Southeastern Student Sustainability Conference



Keynote Sessions



Tours and Other Events



Breakout Sessions



Meals



Breaks

EASTSIDE
CALI-N-TITOS

MAEPOLE



JITTERY JOE'S

Friday 4/5

Innovation Hub

6:00 pm -
8:00 pm

Welcome Address
Kevin Kirsche
Dinner Provided



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Office of Sustainability
University Housing



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Student Sustainability Conference

Zell B. Miller Learning Center (MLC)

| Saturday 4/6 | Room 207 | Room 250 | Room 267 |
|------------------|--|---|--|
| 9:00 - 10:00 am | Breakfast Provided - Room 171 | | |
| 10:00 - 10:55 am | Nethra Rajendran - Room 171 | | |
| | 5 Minute Break | | |
| 11:00 - 11:30 am | The Impact of the AmeriCorps Community Food Fellows | Free Stores: Selling the Circular Economy | Shell to Shore |
| 11:45 - 1:00 pm | Lunch Provided - Room 248 | | Staff Advisers - Room 250 |
| 1:00 - 2:00 pm | UGArden Tour 12:45-2:00 Meet at Toro Front Lawn | Self Care in Sustainability - Meet at Amphitheater | Tree Planting with Rachel Sexton - Meet at Flag Pole |
| | 15 Minute Break | | |
| 2:15 - 2:45 pm | Competitions and Campaigns in Resident Halls - Expanding Sustainability Initiatives | Sustainable Landscaping on Campus | Connect a CiviBot! Food recovery, farms, and garden cold storage |
| | 15 Minute Break | | |
| 3:00 - 3:30 pm | Outliving Conservancy and Redwax: The Journey of Oglethorpe's Community Garden Program | Earth Day and the power of the student voice | Sustainable Food Systems |
| | 10 Minute Break | | |
| 3:40 - 4:40 pm | Campus Kitchen Food Trailer - Meet at Amphitheater | Campus Tour with Kevin Kirsche - Meet at Flag Pole | Navigating a Career in Sustainability - 248 |
| | 10 Minute Break | | |
| 4:50 - 5:45 pm | Planning Team Panel - Room 248 | | |
| 6:00 pm | Dinner on your own | | |



Student Sustainability Conference

Zell B. Miller Learning Center (MLC)

Sunday 4/7

Room 207

Room 250

Room 267

8:00 - 9:00 am

Turtle Trot (5k) for Birkley Heynen - UGA Chapel

9:30 - 10:30 am

Breakfast Provided - Room 171

15 Minute Break

10:45 - 11:15 am

Policy Analysis for Sustainable
Solutions: Food Waste and
Insecurity in Athens

Fair Fashion Mending
Demonstration

Influence of Emory University's
Sustainable Food Initiatives on
Student Engagement

5 Minute Break

11:20 - 11:30 am

Closing Remarks - Room 171

SWAP
STEEP



Transportation & Parking Services
Auxiliary Services
UNIVERSITY OF GEORGIA

Green
Goes
Green



ugarden



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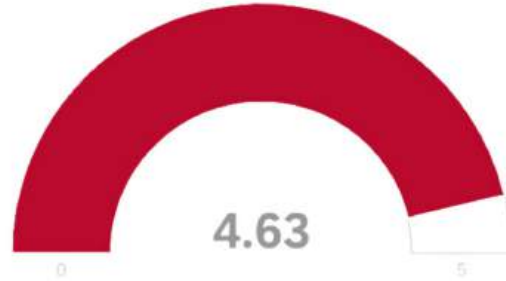
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Feedback from Attendees

Breakouts



Venue of Conference, Innovation Hub



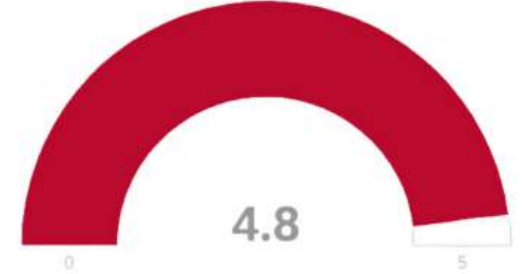
Keynote Speaker, Nethra Rajendran



Food Provided



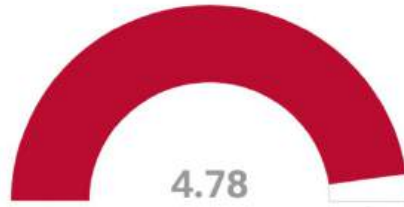
Tours & Activities



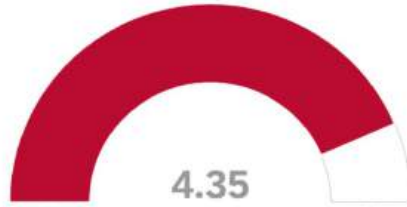
Venue of Conference, Miller Learning Center



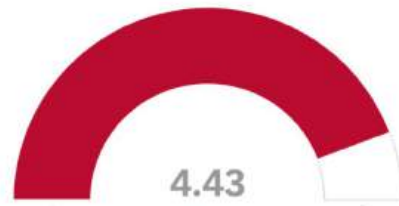
Feedback from Attendees



I was able to gain knowledge through breakout sessions, tours and activities, etc.



I was able to network with other leaders and peers.



I was able to learn how to navigate sustainability initiatives in higher education.



Quotes from Attendees

“It was an outstanding opportunity to meet other sustainability professionals and tour the campus!”

“Wonderful conference and very well put together!”



Future of the Conference



Duke
UNIVERSITY



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Office of Sustainability

Impact On Us



- Office of Sustainability
- Christy Tweedy
- Allyson Reynolds
- Chad DeWitt
- Cooper Furman
- Elizabeth Finley
- Ashleigh Gordon
- Dana Theoc
- Zarina Jones
- University Housing
- Campus Reservations
- The UGarden
- Campus Kitchen
- The Graduate Hotel
- The Swap Shop
- Fair Fashion
- Food Vendors
- Rachel Sexton
- UGA Wellbeing
- Volunteers

Thank you!



Climate Solutions: Electrification

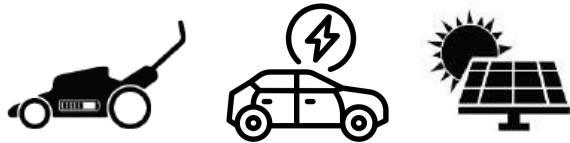
Katie Gilk, Sarah Evans, Margaret Xiao



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Clean Energy and Climate Solutions Program Overview

Vision: UGA aims to be a statewide leader in adopting **cleaner energy technologies** and reduce climate emissions through data-driven decisions.



Key Initiatives:

- Landscape Green Zone
- Fleet Electrification
- Solar Technology

Benefits:

- Reduction in Carbon Emissions
- Campus Health and Well-being
- Training Students for Evolving Job Market



UGA Central Campus Green Zone



Electric since March 2023



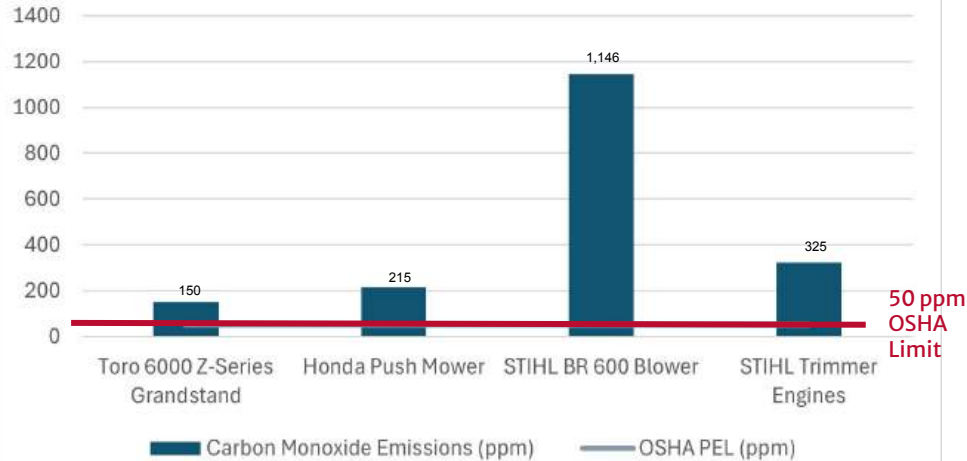
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Noise Reduction



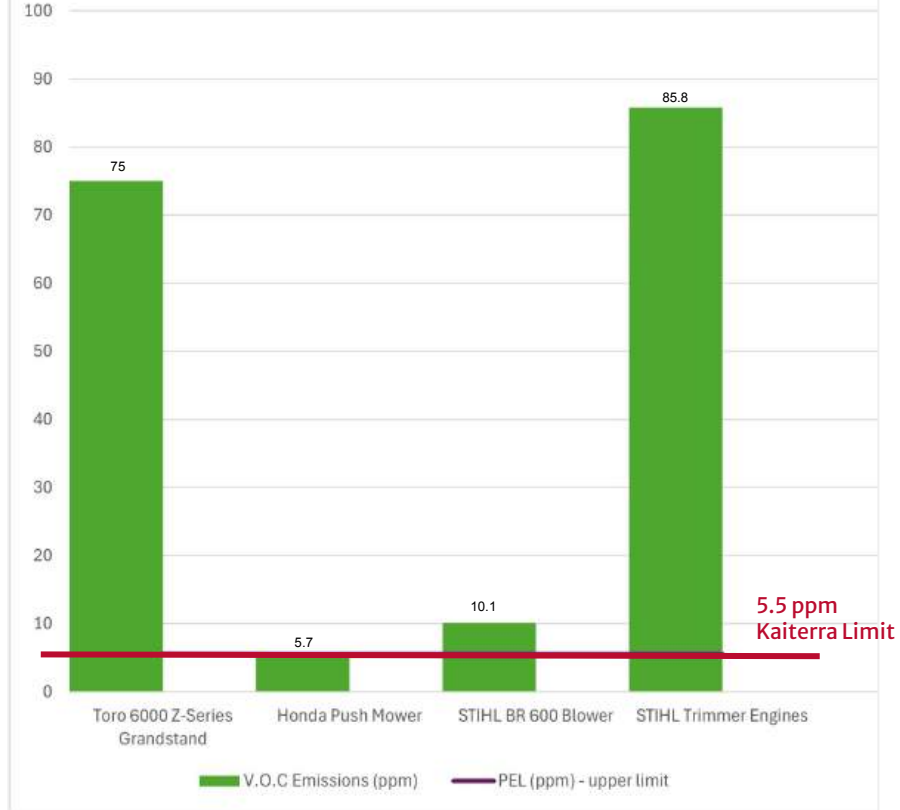
Improved Air Quality

Carbon Monoxide Emissions



PEL - Permissible Exposure Limit

V.O.C Emissions



PEL - Permissible Exposure Limit



Maintenance Savings

\$2,535

saved this year

Fuel Savings

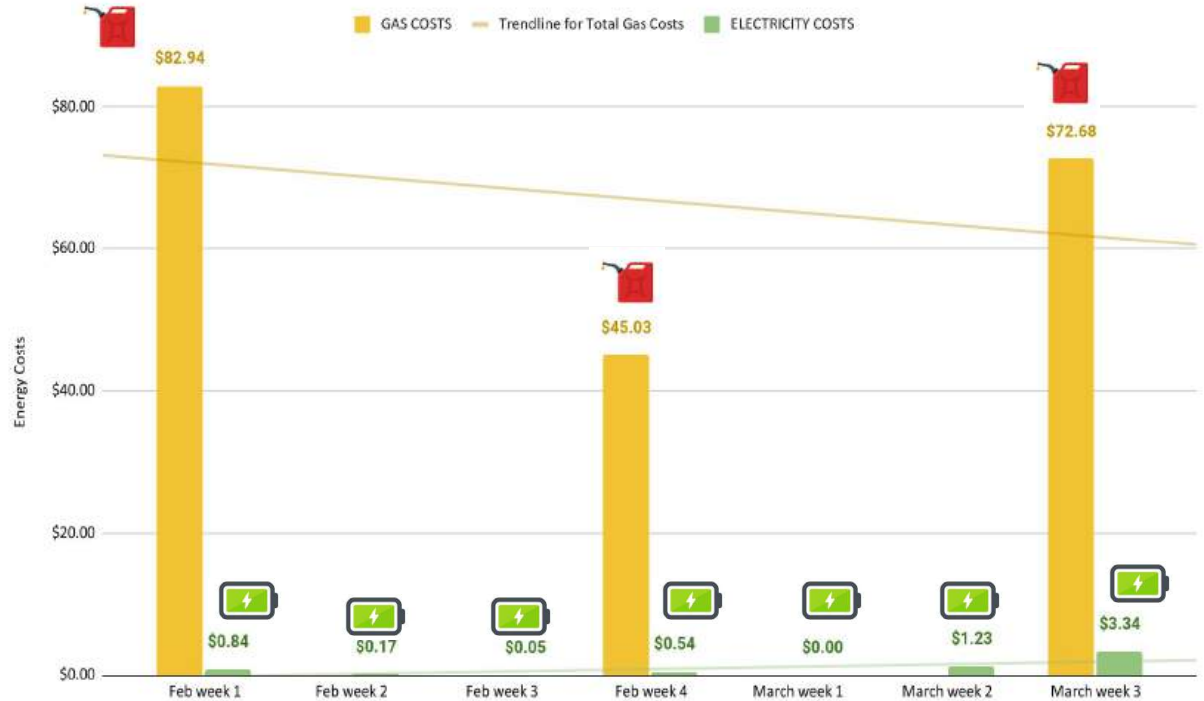
Gas costs in 7 weeks = **\$200.64**

Electricity costs in 7 weeks = **\$6.16**



32x cheaper

Gas vs Electricity Costs (Mowers and Handhelds) - Feb and March 2024



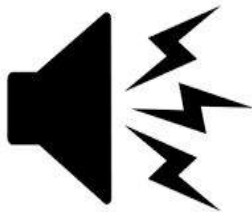
Adding Grandstand and Electric Light Truck Costs



Benefits Also Apply to Electric Vehicles

Noise and Exhaust

Safe for prolonged exposure



Maintenance

\$2,535 saved this year



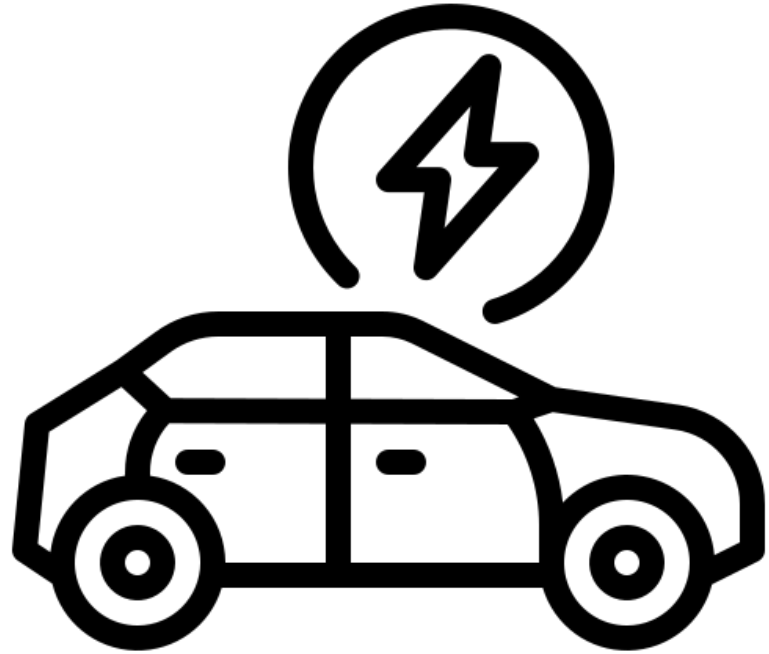
Fuel Savings

Electricity is cheaper than gas



E-Mobility

Refers to the usage of **electric vehicles** and its related **technologies** and **infrastructure** as a mode of transportation



UGA as a E-Mobility Leader



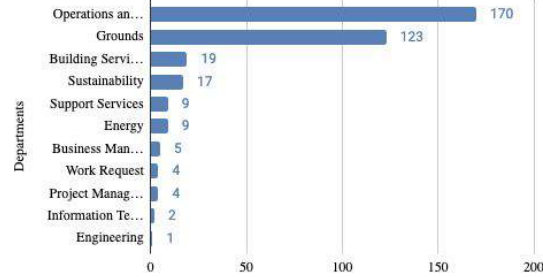
UGA has the **largest electric bus fleet** among higher institutions in the nation with **33 buses** (and 8 more on the way)!



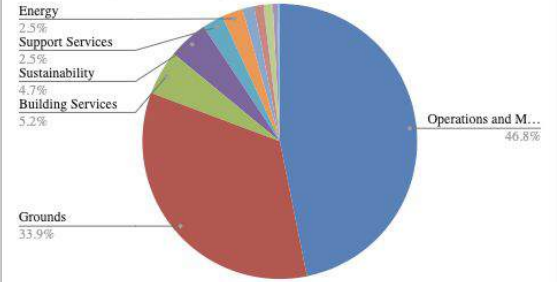
Facilities Management Division — Full Fleet Inventory Update

| Vehicles by Shop | | |
|----------------------------|------------|----------------|
| Departments | # Vehicles | % Vehicles |
| Operations and Maintenance | 170 | 46.83% |
| Grounds | 123 | 33.88% |
| Building Services | 19 | 5.23% |
| Sustainability | 17 | 4.68% |
| Support Services | 9 | 2.48% |
| Energy | 9 | 2.48% |
| Business Management | 5 | 1.38% |
| Work Request | 4 | 1.10% |
| Project Management | 4 | 1.10% |
| Information Technology | 2 | 0.55% |
| Engineering | 1 | 0.28% |
| Grand Total | 363 | 100.00% |

Vehicles by FMD Shop

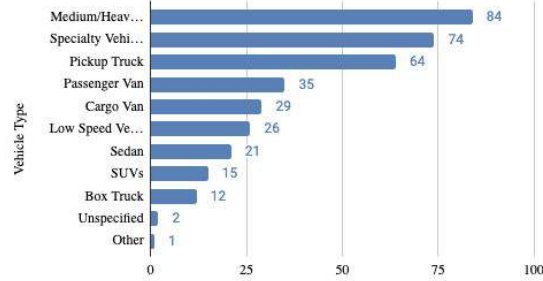


Vehicles by FMD Shop

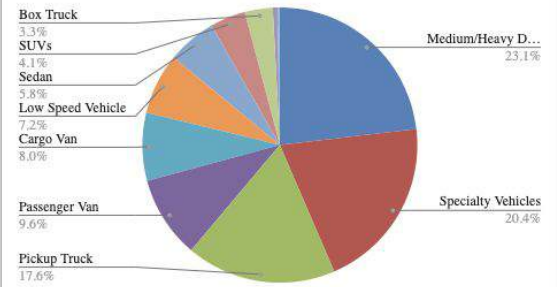


| FMD Vehicle Distribution | | |
|--------------------------------|------------|----------------|
| Vehicle Type | # Vehicles | % Vehicles |
| Medium/Heavy Duty Pickup Truck | 84 | 23.14% |
| Specialty Vehicles | 74 | 20.39% |
| Pickup Truck | 64 | 17.63% |
| Passenger Van | 35 | 9.64% |
| Cargo Van | 29 | 7.99% |
| Low Speed Vehicle | 26 | 7.16% |
| Sedan | 21 | 5.79% |
| SUVs | 15 | 4.13% |
| Box Truck | 12 | 3.31% |
| Unspecified | 2 | 0.55% |
| Other | 1 | 0.28% |
| Grand Total | 363 | 100.00% |

FMD Vehicle Distribution



FMD Vehicle Distribution



UGA Vehicle Types and Electric Alternatives



Low Speed Vehicles
12 Club Car Urbans



Sedans
2 Kia Niros



Cargo Vans
Coming Soon!



What It Means to 100% Electrify...

Energy Production

Energy Distribution

Infrastructure and Policy



Presidential Interdisciplinary Grant Recipients



EV Working Group

- Office of Sustainability
- Terry College of Business
- College of Engineering
- Carl Vinson Institute of Government
- Transportation and Parking Services

Goal

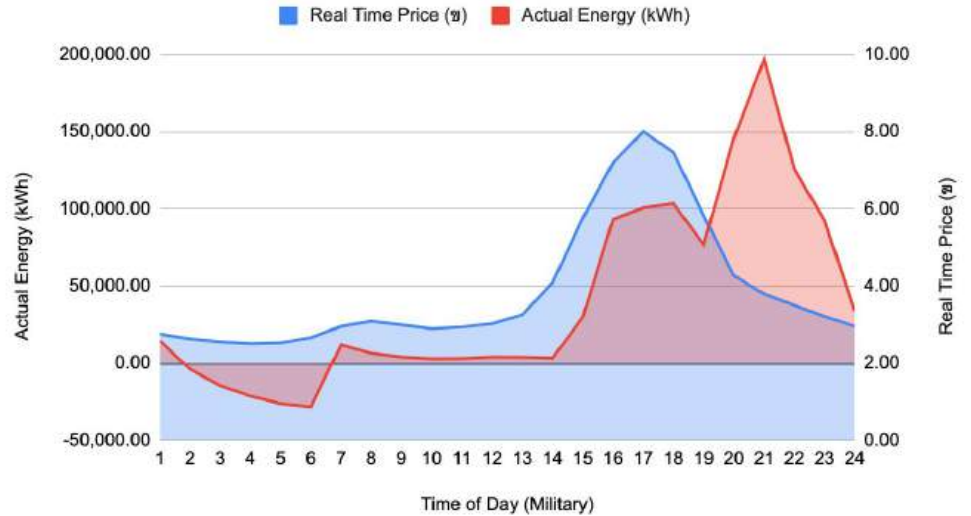
- Promote E-mobility & identify research needs
 - Charging demand
 - Charging supply



EV Buses — Smart Charging



Average Energy Usage and Price per kWh, by Time of Day (2023)



Managed Charging

\$20,400
of potential annual savings



Future E-Mobility Work



Data Analysis and Visualization Goals

Turning Numbers into a Story

Communicating
climate
information



Encouraging
change through
visualizations



Making Data Accessible

Teaching others
how to interpret
information



Electric Vehicle Replacement Schedule

Scenario 1

Entire Fleet
electric by
2070

8 Electric Vehicles
Added per year

Scenario 2

Entire Fleet
electric by
2047

15 Electric Vehicles
Added per year

Scenario 3

Entire Fleet
electric by
2038

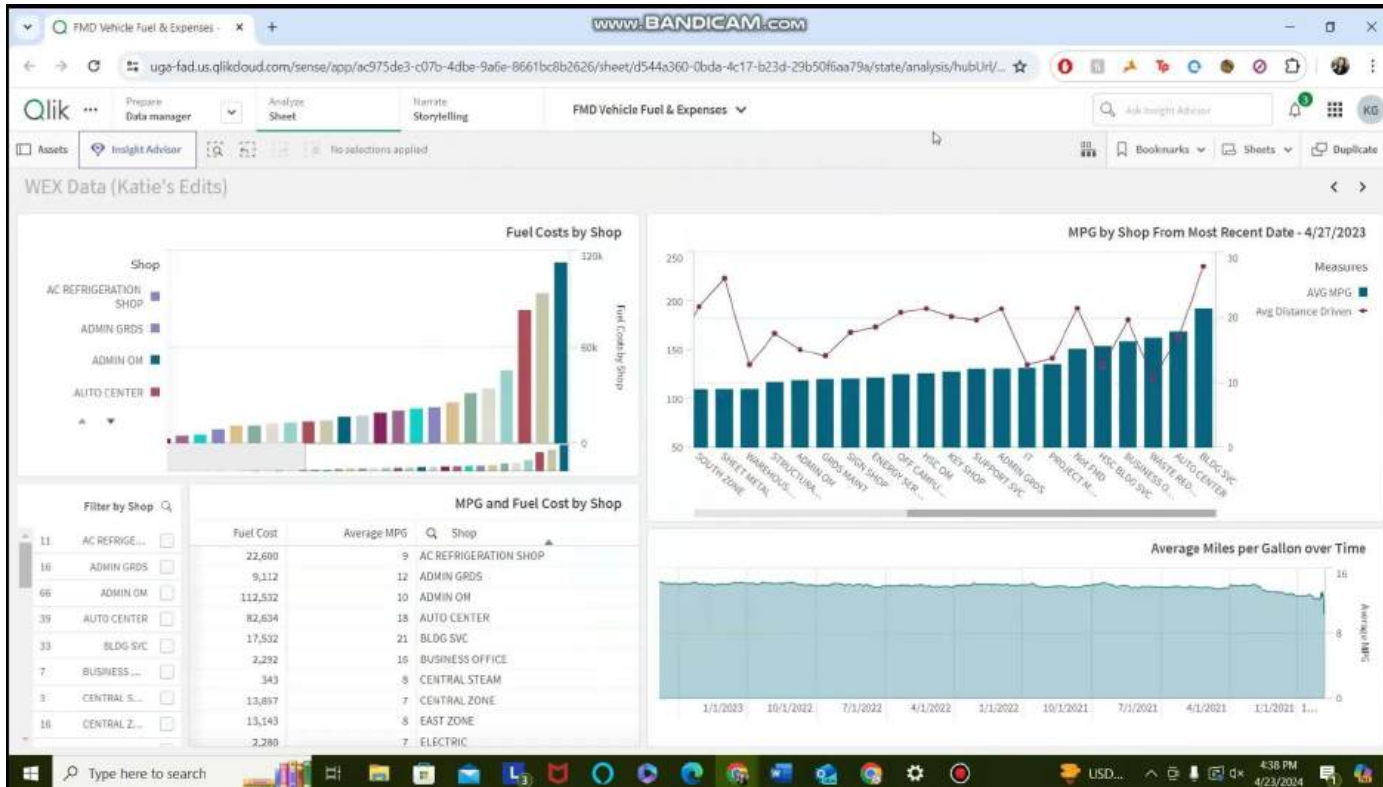
20% Increase in
Electric Vehicles
each year



Qlik Dashboards in Practice

Fuel Costs Dashboard





Why is our Work Important?

- 1** Raise awareness for...
- 2** Provide evidence of...
- 3** Encourage action to reduce...



Climate Issues



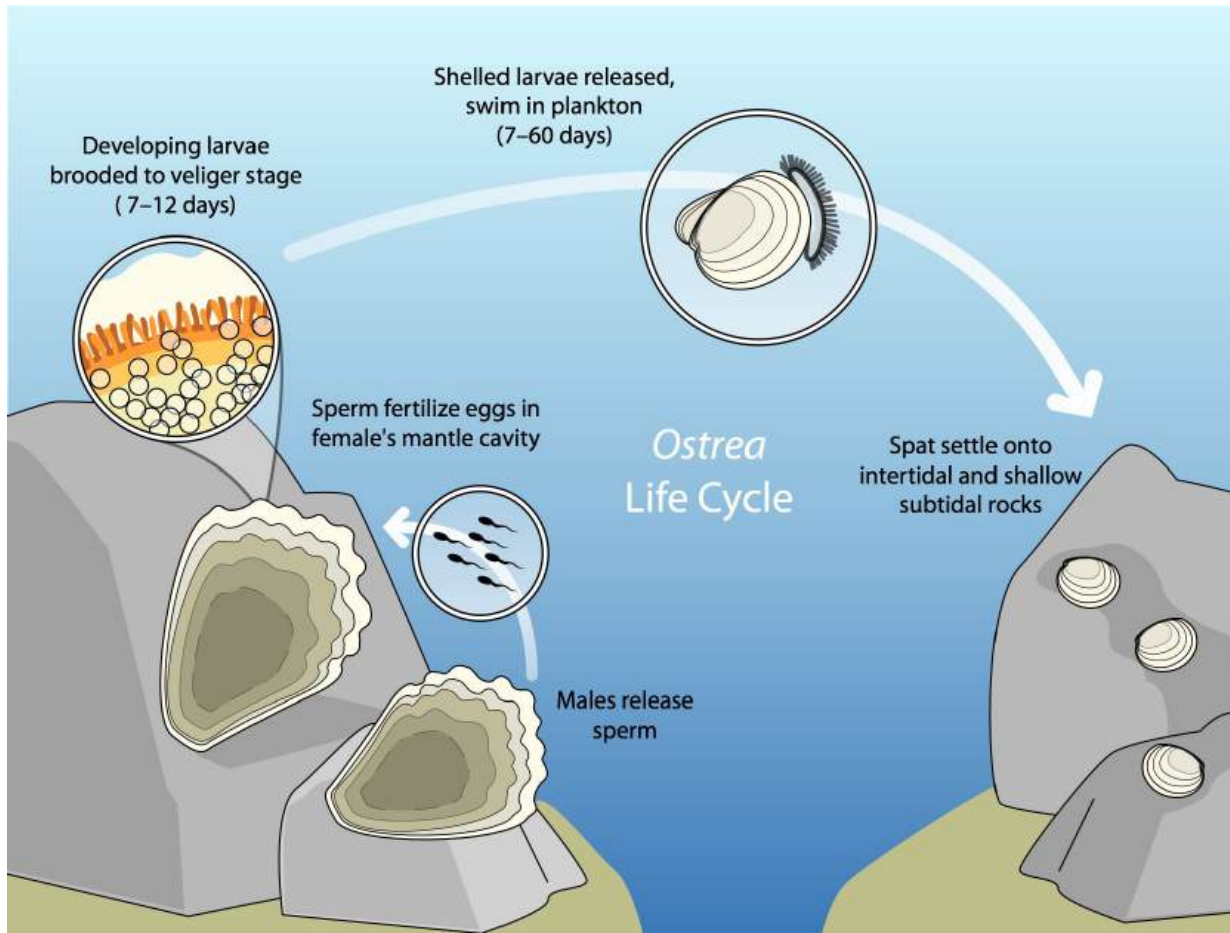
Reduce Waste, Grow Community

Jessica Burgess & Jordan Cutts



Reduce Waste!







1 Shell to Shore establishes oyster shell recycling programs with restaurant partners across the state.

2 A crew of UGA interns and volunteers collect the shells from our 12 restaurant partners and oyster events.

3 The oyster shells cure for 6 months.

4 Your support will keep our fleet of interns and trucks on the road.

5 Shell to Shore hauls the shells to the sites of coastal restoration projects.

6 We've collected 100,000 pounds of shell to date. That's the weight of two male humpback whales!

7 Did you know? An adult oyster can filter 50 gallons of water a day.



Give Now!



Our Partners



linktr.ee/ShelltoShore

Reduce Waste!



THE
CAMPUS KITCHENSM
at the UNIVERSITY
of GEORGIA



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Office of Sustainability

Reduce Waste!

1 Recovery

UGarden
Concrete Jungle
Local grocery stores
Restaurant partnerships

2 Processing

Meal planning
Food processing
Grocery bag packing
Cooking
Compost

3 Distribution

Client deliveries
Agency deliveries
Food trailer events



Our Impact

Shell to Shore recycled

72,653 lbs of shells in 2023!

Campus Kitchen has diverted over

500,000 lbs of food waste since 2012!



Grow Community!

- Supports Georgia restaurants
- Share importance of conservation
- Host Shellfest to celebrate oyster farmers
- Work with Sapelo community



Grow Community!

- Supports vulnerable populations
- Students + local residents
- Builds relationships
- Partnerships, collaboration
- Grows understanding of food injustice
- Collaborative solutions



Reducing Food Waste Grows Sustainable Communities



Jordan Cutts
Shell to Shore intern



Shell to Shore website



Jessica Burgess
Campus Kitchen intern



Campus Kitchen website



Interdisciplinary Certificate in Sustainability

Tyra Byers



UNIVERSITY OF
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Office of Sustainability

Sustainability Certificate Staff



Tyra Byers
Program Director



Talley Vodicka
Program Coordinator



Colin Peterson
Graduate Assistant



Logan Hall
Undergraduate Intern



Sustainability Certificate Ambassadors



Ashleigh Gordon

Environmental Economics
and Management



Madison Caren

Ecology (BS) and
Environmental Resource
Science



Matthew Davidorf

Environmental Engineering



Jasmine Patel

Environmental
Economics and
Management



Sarah Adams

Landscape Architecture



Liora McElvaney

Environmental Health
Sciences



Logan Hall

A.B. Ecology and A.B.
International Affairs



Nicole Cortes

International Affairs



Sustainability Certificate Faculty Advisory Board

Jesse Abrams, Warnell School of Forestry and Natural Resources

Jim Berry, Terry College of Business

Laura German, Center for Integrative Conservation Research

Gary Hawkins, College of Agriculture and Natural Resources

Andi Kavoori, Grady College of Journalism and Mass Communications

Elizabeth King, Odum School of Ecology

Kevin Kirsche, Office of Sustainability

William Kisaalita, College of Engineering

Erin Lipp, College of Public Health

Jane McPherson, School of Social Work

Katalin Medvedev, College of Family and Consumer Science

Greg Thaler, School of Policy and International Affairs

Alfie Vick, College of Environment and Design

Tish Yager, Franklin College of Arts and Sciences

Meredith Welch-Devine, The Graduate school



Georgia Climate Project

Sophie Ralph & Sanaejah Reid



Our Team



Sophie Ralph
Journalism



Sanaejah Reid
Biological Science



Dr. Patricia Yager
*Director of the Georgia Climate Project
and Professor of Marine Science at the
University of Georgia*



In Collaboration With:

The Georgia Climate Project is building a network of experts across the state to advance four strategic priorities:



Science

Solutions

Stronger Network

Stronger
Conversations



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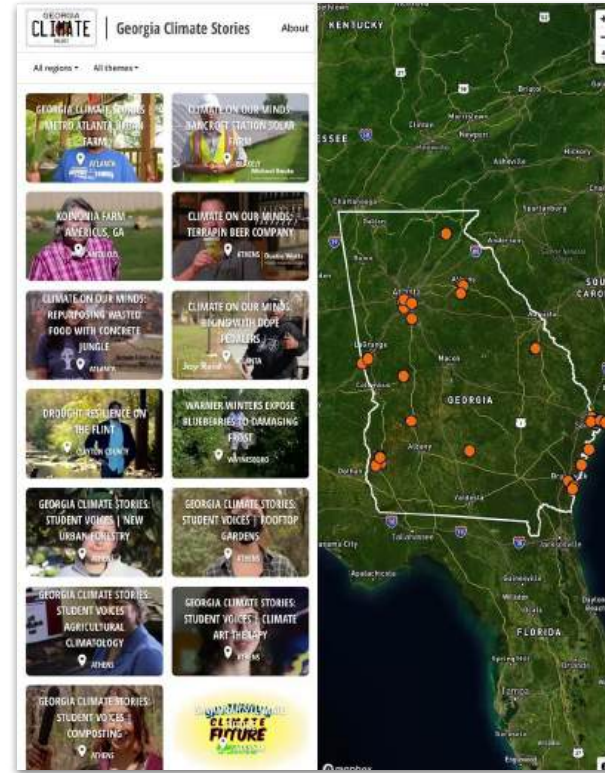
Stronger
Conversations



Georgia Climate Stories

The Georgia Climate Project features Georgia Climate Stories on its website to showcase **meaningful stories** of people and businesses within Georgia.

These stories help to improve the understanding of **climate impacts and solutions in Georgia** and ways for the state and its residents to take effective, **science-based climate action**.

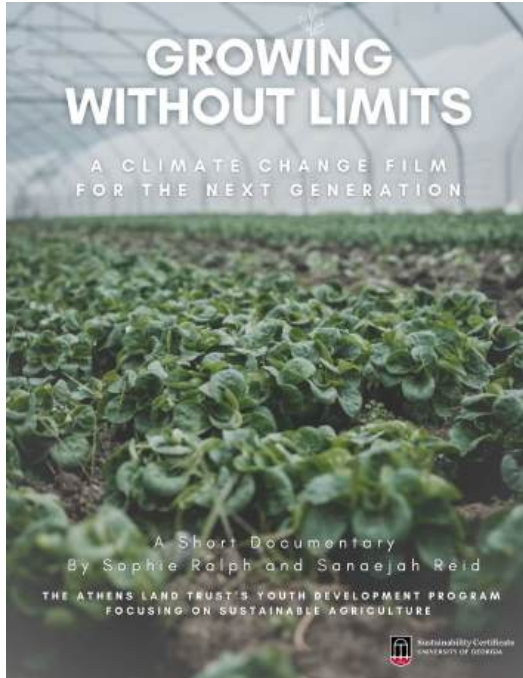


Our Story

The Young Urban Farmers: An Athens Land Trust Youth Development Program



The Impact



Reached Out to

Local high school and middle school teachers, and UGA professors

Surveys

Measure the impact of the film

Beyond the Timeline

Film will be accessible on the Georgia Climate Project Website



Personal Impacts



Thank you to our Partners, Film Subjects, & Collaborators!



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Office of Sustainability

Trailer!





Upcoming!

The documentary film will be featured at the Sustainability Showcase on May 4th at 1:00 PM in the Special Collections Libraries.

RSVP on the event page
<https://sustainability.uga.edu/certificate/students/events/>



Sustainable UGA Awards



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Office of Sustainability



**Madison
Caren**

**Outstanding
Undergraduate Student**



**UNIVERSITY OF
GEORGIA**
Office of Sustainability



**Madison
Caren**

**Outstanding
Undergraduate Student**



**Samantha
Richey**

**Outstanding
Graduate Student**





**Madison
Caren**

**Outstanding
Undergraduate Student**



**Samantha
Richey**

**Outstanding
Graduate Student**



**Kim
Eberhart**

Outstanding Staff





**Madison
Caren**

**Outstanding
Undergraduate Student**



**Samantha
Richey**

**Outstanding
Graduate Student**



**Kim
Eberhart**

Outstanding Staff



**Dr. Amanda
Rugenski**

Outstanding Faculty



Birkley Heynen Whale Fall Award



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Office of Sustainability



Elizabeth Finley



Liora McElvaney

2024 Birkley Heynen Whale Fall Award





Thank you!



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