

CWRU Sustainability Team

Part of the Division of Campus Planning & Facilities Services <u>sustainability@case.edu</u> & <u>energymanager@case.edu</u>

SUSTAINABILITY IS A TEAM SPORT



- Stephanie Corbett Director of Energy & Sustainability & the University Farm <u>ssc72@case.edu</u>
- Erika Weliczko Energy Manager <u>emw3@case.edu</u>
- Just hired a Sustainability Manager starting early April, replacing Erin Kollar's position, has been vacant since June
- Student Sustainability Ambassadors
- Summer SURES Research Interns

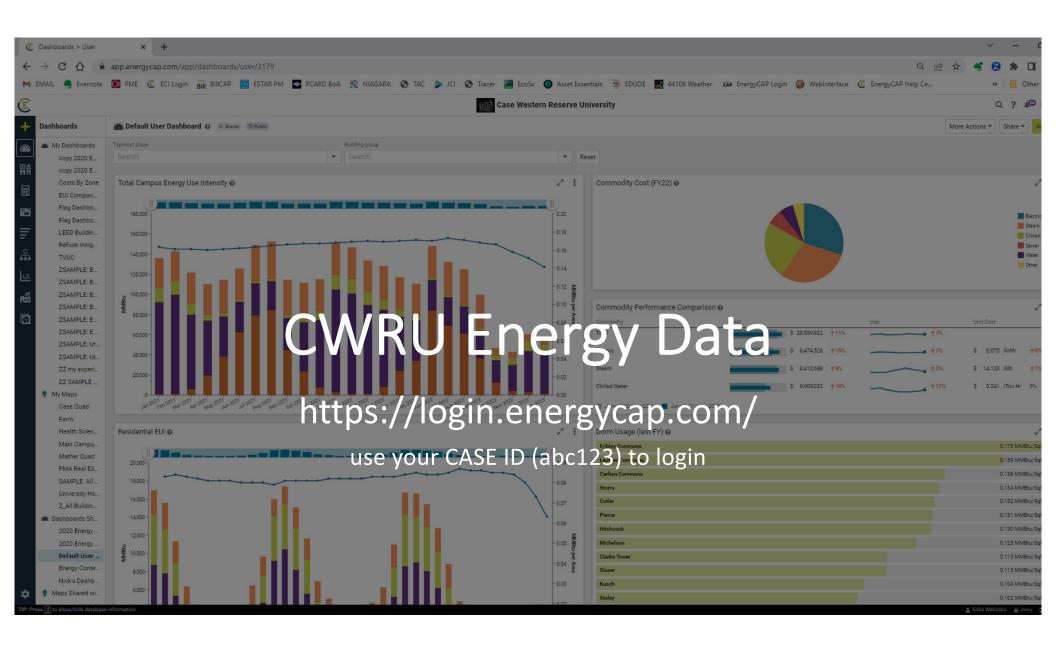
What the Office of Energy & Sustainability Works On

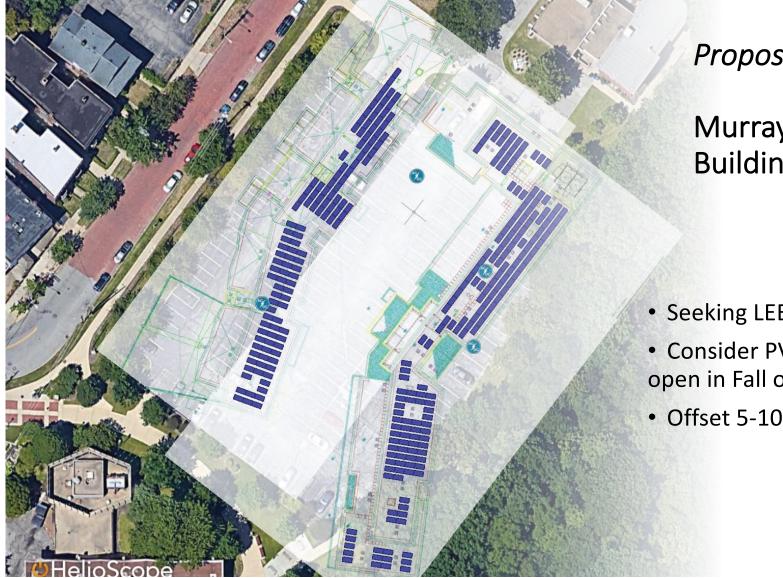
- Climate Neutrality Action Plan Management
- Energy, GHG & Sustainability Data Collection and Reporting
- Energy Efficiency Projects and Campus Energy Metering
- Advise and do education on:
 - Recycling, Waste and Compost
 - Sustainable Transportation
 - Green Buildings and Grounds
- Campus Engagement in Energy & Sustainability
 - Sustainability House residential program (sunsetting at the end of this year)
 - Student Sustainability Ambassador internship program
 - Green Bag Lunch Series coming back soon
 - Committees we host: Bike committee Climate Action Plan Committee Tree & Bee Committee

The University Farm Has 3 Broad Strategic Focus Areas









Proposed: Solar PV

Murray and Hill Buildings

- Seeking LEED Gold certification
- Consider PV for new dorms to open in Fall of 2024
- Offset 5-10% of electricity usage

Adelbert Hall

Peter B. Lewis





Adelbert Hall = 233 kbtu/SF

Peter B. Lewis = 203 kbtu/SF





Wyant Athletic and Wellness Center

Nord Hall





Wyant Athletic and Wellness Center

= 160 kbtu/SF



Nord Hall = 120 kbtu/SF



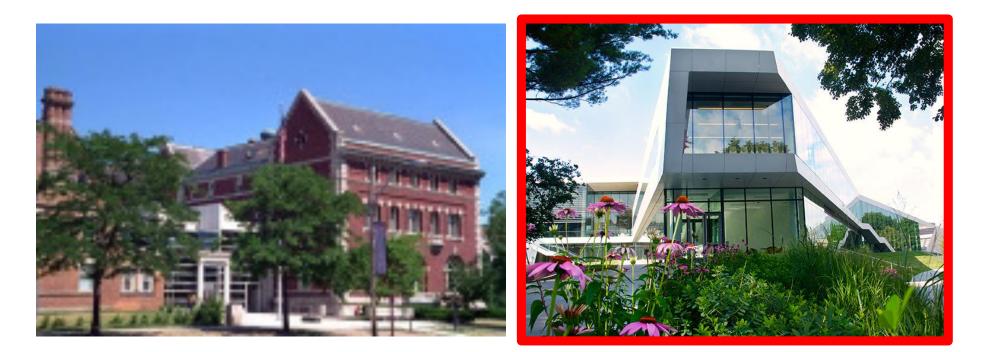
Thwing

TVUC



Thwing = 233 kbtu/SF

TVUC = 268 kbtu/SF





What is the Freezer Challenge?

The International Institute for Sustainable Laboratories (I2SL) and My Green Lab partner to encourage laboratories across the world to **achieve greater energy efficiency and cold storage practices** with the annual Freezer Challenge! The competition runs from **January 1st to July 1st**.

How do you participate?

- All laboratories with Ultra Low Temp should register at: <u>www.freezerchallenge.org</u>
- Points are awarded for actions that improve lab cold storage practices. Track your points using the Freezer Challenge scoresheets.

Why participate?

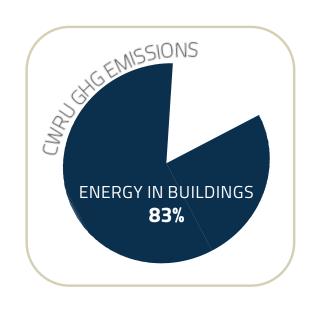
- <u>Proper disposal</u> of unneeded, unwanted, or non-viable samples from refrigeration units. (case.edu/ehs/waste-disposal)
- Improved researcher access to laboratory samples and reagents.
- Prolonged lifespan of freezers via preventative maintenance.
- · Lower energy bills!

WHAT: Get points for:

- Clear boxes
- Scrape ice
- Consolidate samples

freezerchallenge@case.edu

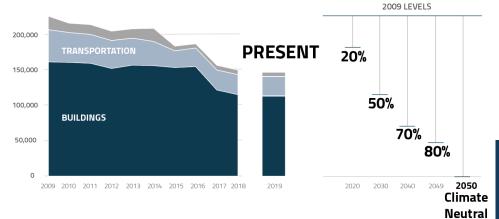




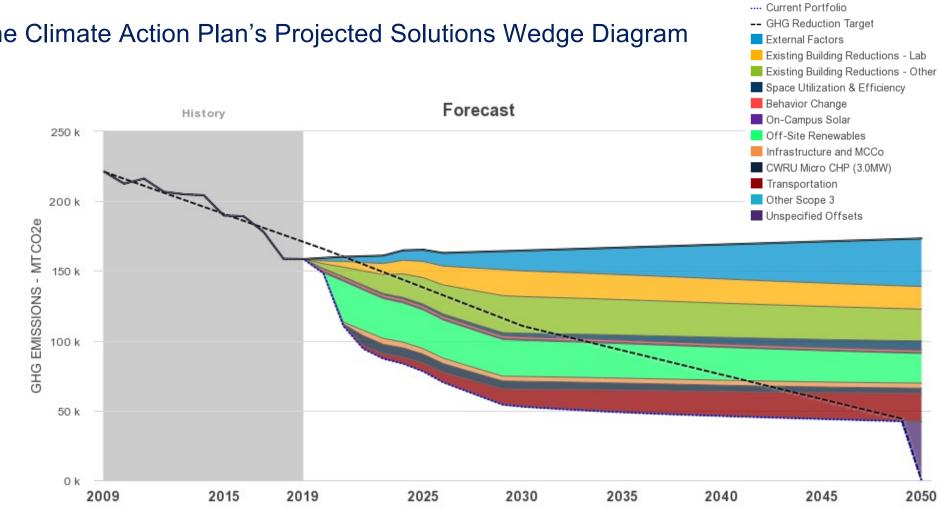


GREENHOUSE GAS EMISSIONS [MTons CO2e]



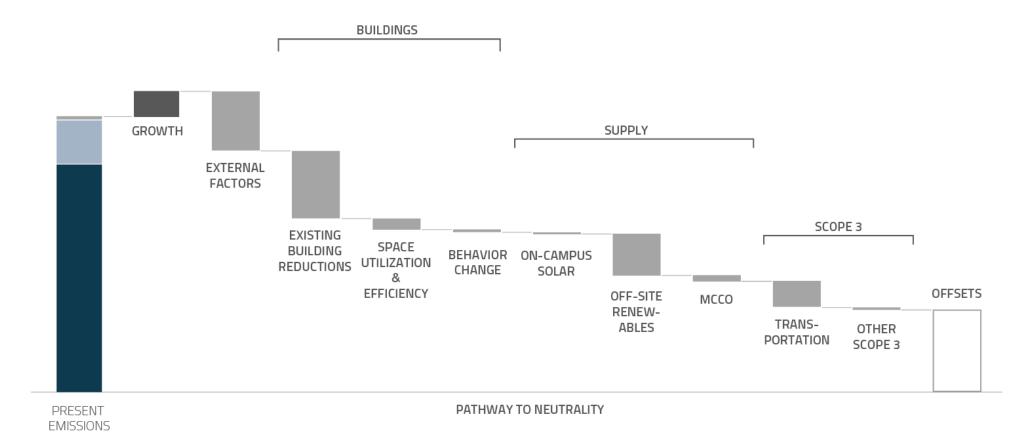


Items too small to see name: Direct Transportation **CWRU** Greenhouse Gas Inventory – Carbon Accounting Fertilizer & Animals Refrigerants & Chemicals Other Directly Financed Travel Solid Waste The major sources of emissions are depicted in the tree map below, 158, 519 MTCO₂e. Wastewater Air Travel, 19,944 Commuting, 13,981 Electricity T&D Losses, 3,484 On-Campus Sol. Dir Purchased Chilled Water, Stationary, Purchased Steam, 37,196 Purchased Electricity, 66,623 10,304 4,863 C 30% 60% 70% 80% 90% 0% 10% 20% 40% 50% 100%



The Climate Action Plan's Projected Solutions Wedge Diagram

CWRU Pathway to Neutrality - Our 2020 Modeled Solutions / Opportunities





Leadership in Energy and **Environmental** Design

A leading-edge system for certifying the greenest performing buildings in the world



ts

University Certified Green Buildings

- 1. North Residential Village Silver (Houses 1-4,6,7)
- North Residential Village Gold (House 5 only) 2.
- **Tomlinson Hall Silver** 3.

LEED' Facts

LEED' Facts

LEED[®] Facts

Platinum

ng size 12,500 square

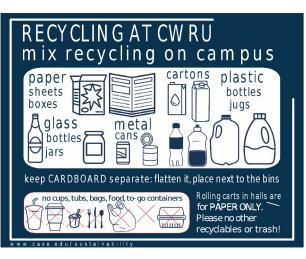
LEED' Facts

Water Eft Energy & Materials Indoor E Quality Innovatio

- **Tinkham Veale University Center Gold** 4.
- Wyant Athletics and Wellness Center Silver 5.
- New STJ Residence Hall Gold 6.
- 7. Linsalata Alumni Center Gold
- **MSASS-LEED Interior Silver** 8.
- 9. Samson Pavilion Health Education Campus -Gold
- 10. Dental Clinic Silver
- 11. Fribley Silver v. 4
 - 12. Maltz Performing Arts Center, phase 2 - Gold v. 4

Recycling Best Practices @ CWRU

- Consistent bin type across campus
- Consistent signage and language across campus
- Simple signage that is consistent with state and national best practices
- Signage/images always with the bin attached w/ frame or sticker
 - Signs/stickers that can easily be updated
- Ideally invest in connected infrastructure













clean paper, cartons metal glass bottles cans and jars only plastic bottles and jugs only

To recycle cardboard: flatten and place between bins.

To recrete www.recycle acress america.org • The binocities bits for recycling bits are conjugit and todemark protected by recycle Acoust America's o Statistics non-part accessing of easier to proceed to secure activity. All easis reserved

www.case.edu/sustainability

2022-2023 Sustainability Ambassadors

Working on:

- Res Hall Energy Contest/CWRU Unplugged
- Tree Campus Requirements
- Rescycle: Race to Zero Waste
- Fix it Events
- Earth Day Alumni Event
- Farm Engagement Events
- Freezer Challenge for Ultracold Freezers
- 2030 District Data
- Geolocating Bike Fix Its & Bike Racks
- Water Bottle Filling Station Updates

Sofie Iwamasa Gillian Williams Sara Olmsted Michaela Galarza Liz De Vaux Kathy Du Cecile Laundre Hernandez

- Several additional student hires just interviewed





What is **REScycle**?

- CWRU's end-of-the-year move-out donation program.
- REScycle allows undergrads to donate items that they no longer need or want while keeping good, usable items out of the landfill.

Where to donate?

Students living in on-campus housing will find a large box in a common area in their Residence Hall.

There will also be a small box to collect unused and unopened personal care items and food.

Where should be donated?

- Items in good condition such as:
 - Clothes



- Shoes
- Sports equipment
- Small appliances
- Unopened personal care products
- Larger items such as furniture (request on myhousing for pick-up)



Next Workshops:

- Saturday, March 11th at the Solid Waste District
- Monday, March 27th at think[box]

How can you help?

- Attend a workshop!
- Spread the word on Facebook, Twitter, etc.
- Become a coach, sign up online



Things You Should Know About

- Transportation happenings
 - CWRU Transportation Safety Taskforce,
 - University Circle Sustainable Transportation Committee
 - Campus Bike Committee
 - Bike Sharing draft options
 - NOACA Regional Climate Action Plan Taskforce
- Sustainability Office is working on this year:
 - Sustainability Plan
 - Climate Action Plan Online Scorecard
 - Energy Conservation Plan
 - Working on validating and funding requests for the 10 CAP solutions
 - Working to implement 3 additional President Kaler sustainability/climate related Commitments:
 - Electrify the fleet, bring back pedal bike share, further fund energy efficiency in existing building
- New SAC Sustainability rep. Carlier Myers





University Farm Programs

- 1. For credit class site, mostly Biology
- 2. Biology Field Station & other research
- 3. Continuing Education
- 4. Athletics/Cross Country
- 5. Farm Food Program (including the compost operation)
 - 1. Volunteer/service opportunities
- 6. Special Events including internal and external space rentals, picnics & school-based program use
- 7. 2-3 Residential units rented at market rate
- 8. Grounds & Maintenance operations
- 9. General community recreation use



