



We support the Sustainable Development Goals



Big Ten and Friends Sustainability Group Updates

Friday, October 21, 2022

1-3pm, EST

Agenda

Welcome: 1:00

Introductions: 1:05-1:15

Announcements: 1:15-1:25

B10&F Email list

B10&F Google shared drive/Members list

School updates: 1:25- 1:55

Purdue-Fort Wayne

Penn State

Iowa

Northern Iowa

Purdue

Affinity Group Updates 2:00 - 2:45

Potential new affinity groups-Data analysis group- Create spreadsheet with school GHG inventories/GHG goals/websites/etc



Announcements

B10&F Email list - B10andFriends@umich.edu

[Google Drive: "BIG10 & Friends Sustainability FY23"](#) < please move relevant files here



A photograph of a taxidermy specimen, a deer head with large, curved antlers, mounted on a wall. The background is a blurred museum or gallery space with wooden paneling and other exhibits.

SUSTAINABILITY AT PFW

Samantha Theisen
PFW Sustainability Coordinator

PURDUE
UNIVERSITY
FORT WAYNE



ERC Mission

To promote the understanding and conservation of the natural resources of the region through **scientific research**, **educational opportunities** and community engagement.

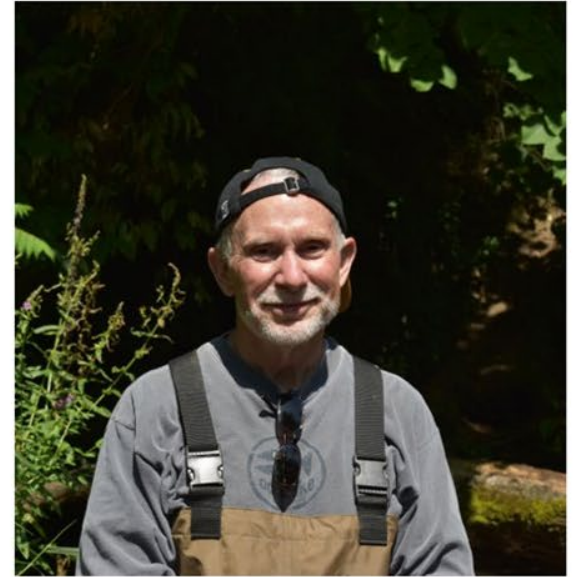
Our Team



Samantha Theisen



Dr. Bruce Kingsbury



Dr. Bob Gillespie



What is the ERC?







MASTER PLAN

- 1 POLLINATOR GARDEN
- 2 SMALL ENTRY POND
- 3 "DRY" CREEK BED
- 4 CISTERN
- 5 OUTDOOR CLASSROOM DECK
- 6 OUTCROPPING STEPS
- 7 STONE PATIO
- 8 SIDEWALK
- 9 LIVING WALL
- 10 COMPOST BIN
- 11 NEW PATH
- 12 COUNCIL RING WITH BENCH
- 13 BENCHES (REFLECTING AREA)
- 14 RAIN GARDEN
- 15 BOAT PIER
- 16 KAYAK LOADING
- 17 RIVERBANK CLEAN UP







EDUCATION AND OUTREACH

ERC Representation

On and off-campus events

- WMRR Curriculum
- PFW Earth Day
- Trillium Fest
- Earth Day Fort Wayne
- Ecofest Fort Wayne
- City Nature Challenge
- Girl Scout STEM events
- Women in the Outdoors
- Urban Turtle Fest
- World Wetlands Day
- Open Streets
- Pedal, Paddle, Play
- Master Gardener Events
- Jr. Master Gardener talks
- World Rivers Day
- ...and more added every day



CAMPUS INITIATIVES

- PFW Urban Garden
- Mastodon Market
- MS4 Stormwater compliance
- Storm sewer infrastructure survey
- Tree Campus Higher Education Certification
- Stream bank stabilization
- Eco-to-go food service option
- Composting food waste at campus dining
- Expanding vegan and vegetarian food options
- Career Closet clothing rental
- LED light fixture upgrades
- Kettle solar panel expansion
- Honey-bee enclosure and Pantry donation
- Expanding environmental student organizations
- Growing DEI office and involvement
- Surplus Store landfill diversion





SAMANTHA THEISEN

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PURDUE
UNIVERSITY
FORT WAYNE

Sustainability at Penn State: A brief update

*Lara Fowler, Interim Chief Sustainability Officer & Interim Director of
the Sustainability Institute; Professor of Teaching, Penn State Law*

sustainability.psu.edu

Multiple Transitions

- New Penn State President, Neeli Bendapudi
- Paul Shrivastava on sabbatical, returning to Business School in '23
- Michelle Halsell retired
- Interim CSO, Director
- SI transferred back to the Provost's Office



We Are... Penn State

- 24 Campuses across Penn State
- 1 World Campus
- Nearly 100,000 students
- 700,000 living alumni
- 17,000 full-time faculty and staff (not including health care)



PennState

sustainability
INSTITUTE



Goal: Integrate sustainability (SDGs) into ALL Penn State's pillars



Three brief updates



GREEN LABS
PROGRAM



CARBON EMISSIONS
REDUCTION TASK
FORCE



LOCAL CLIMATE
ACTION PROGRAM



SUSTAINABLE LABS PROJECT

25 LABS TOTAL



College of Engineering

5 Labs, 3 Campuses

**My Green Lab (MGL)
certification +
Sustainable Lab
Ambassadors**

College of Earth &
Mineral Sciences

8 labs

**MGL certification
(summer 2022 start)**

Colleges of Science;
Health & Human
Development, &
Agriculture

12 labs

**MGL certification
(fall 2022 start)**

OVERVIEW OF THE SUSTAINABLE LABS PROJECT



my green lab
certification.

- CENTRAL TO ALL EFFORTS IS THE MY GREEN LAB (MGL) CERTIFICATION PROGRAM
- EXPLORE MICRO-CREDENTIAL POSSIBILITIES
- THE **BIG** PILOT GOALS / QUESTIONS TO BE ANSWERED:
 - IS MGL CERTIFICATION A WORTHWHILE EFFORT FOR PENN STATE OPERATIONS, STUDENT FUTURE CAREER PREPARATION & FACULTY RESEARCH PURSUITS?
 - **DOES THE ADDED PRESENCE OF A SUSTAINABLE LAB AMBASSADOR (SLA) EFFECTIVELY SUPPORT & AUGMENT A LAB'S EFFORTS TO BECOME CERTIFIED?**
 - DOES THE MGL APPROACH NURTURE BEHAVIOR CHANGE?

Carbon Emissions Reduction Task Force...Penn State has reduced its GHG emissions for a long time...



GHG Emissions

Penn State University
(1997 - 2035)

05/06 (Baseline year) total
emissions (MTCO₂e)

639,824

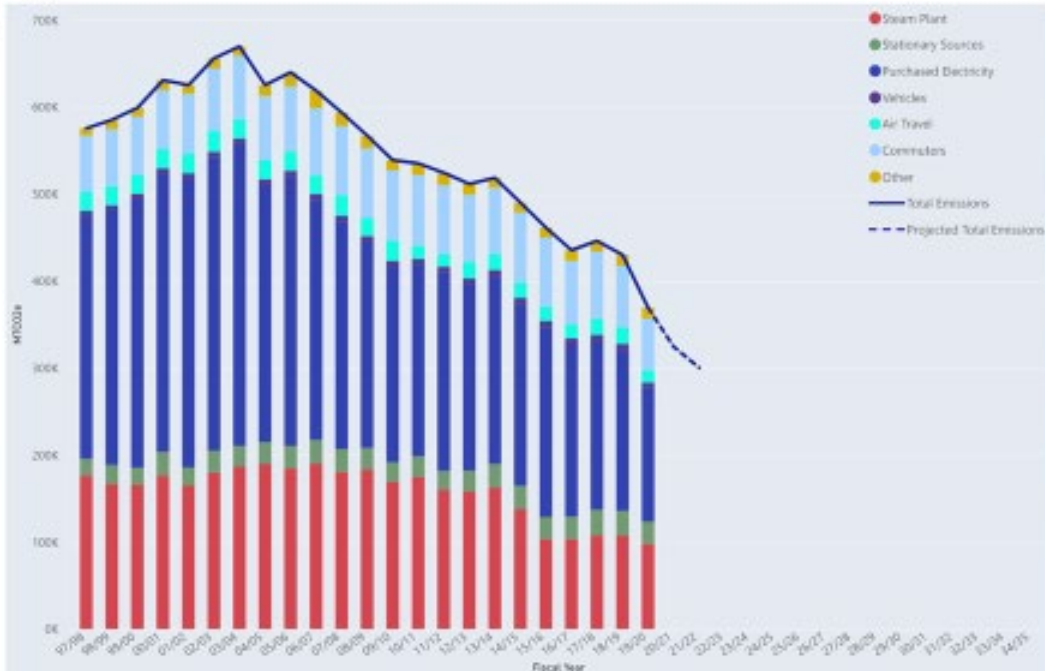
Current total emissions
(MTCO₂e)

369,292

Percent Change

-42%

[Click here to see
Campus-level
emissions data](#)



* Other includes Waste, Animal Management, Land Management, & Synthetic Chemicals

<https://sustainability.psu.edu/campus-efforts/by-the-numbers/view-our-progress/greenhouse-gas-emissions-inventory/>



PennState

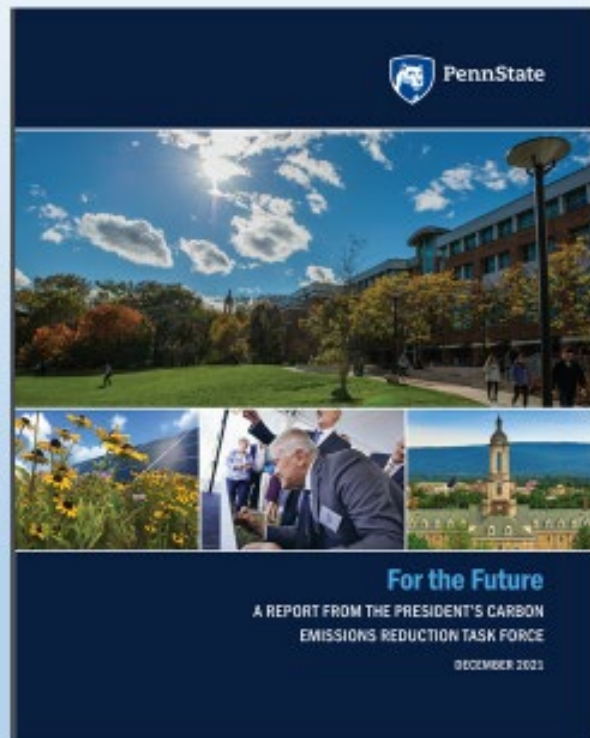
sustainability
INSTITUTE



Carbon Emissions Reduction Task Force Suggestions



- We can get to 100% reductions of GHG by 2035 through a mix of actions
- Potential Actions (examples):
 - Shift from steam to hot water
 - Invest in geothermal, micronuclear, other
 - Electrify fleet
 - Another large renewable PPA
 - Continue energy efficiency projects
 - Address space utilization
- Challenge: \$~750 million price tag





Local Climate Action Program

Having state and local governments lead by example on climate action is a key component of mitigating climate change in Pennsylvania and one of the strategies recommended in the [Pennsylvania Climate Action Plan](#).

The DEP Local Climate Action Program provides free technical and personnel assistance to local governments that want to reduce greenhouse gas emissions and address climate change. In its first three years, LCAP has trained 53 cities, townships, boroughs, counties, and regional organizations, representing approximately 380 municipalities across the commonwealth.

The program is run by the DEP Energy Programs Office and funded by the State Energy Program of the U.S. Department of Energy.

If you'd like to participate in LCAP or learn more about the program, please contact Chris Nafe at chnafe@pa.gov or 717.783.9722.





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Questions



Stratis Giannakouros



Beth MacKenzie



Brinda Shetty

IOWA

Office of Sustainability and the Environment

By The Numbers

- Total Enrollment: 31,317
 - 21,973 Undergraduate
 - 6,156 Graduate
 - 1,886 Preprofessional (Doctorate)
 - 1,302 Post-Graduate Training
- 75,849 Iowa City Population
- 1,400 Acres of Land
- 2,500 Faculty
- 8,500 Professional and Scientific Staff
- 4,800 Merit Staff
- 16,500 Hospitals & Clinics Employees

2022-2027 University of Iowa Strategic Plan

Transformative Societal Impact

Further integrate sustainability into the university's teaching, research, and public engagement missions as well as its operations.



2030 Sustainability Goals

Climate Goal

Reduce greenhouse gas emissions by 50 percent

Education Goal

One hundred percent of undergraduate students will complete a sustainability-focused course before graduating

Waste Goal

Become a Zero Waste campus by achieving PLAN Atlas Bronze Zero Waste certification*

Water Goal

Improve water quality in the Iowa River by creating best practices for stormwater management and water conservation

Campus Goal

Embed sustainability into every college and auxiliary unit's strategic plan and report on progress annually



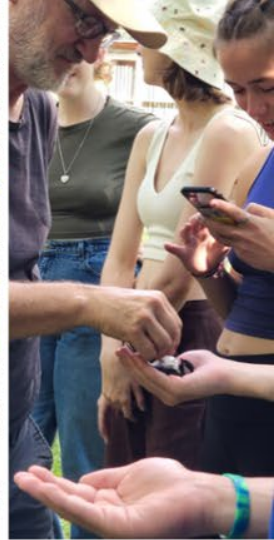
*Healthcare facilities will not be included in the zero-waste goal, but will meet or exceed top performing healthcare facility diversion rates of at least 40%

IOWA

Office of Sustainability
and the Environment

Other Recent Initiatives

- College of Liberal Arts and Sciences Sustainability Course Requirement
- Wellness
 - Built and Natural Environment Subcommittee
- Ashton Prairie Living Laboratory
- Facilities Management
 - #2 EPA Green Power List
- University of Iowa Hospitals & Clinics
 - Practice Greenhealth
- Tippie College of Business
 - PRiME Signatory
- College of Law
 - Hubbell Environmental Law Initiative
- Bee Campus USA
- Campus Arboretum
 - Tree Tours
 - Anne Frank Tree
- Student Garden Expansion
- Dining
 - Real Food Calculator



IOWA

Office of Sustainability
and the Environment



University of
Northern Iowa



Sustainability Office

- Dual report - F&O/AA
- Oversee operational items
- Student efforts
- Support to academics

Provost's Sustainability Fellow

- Direct report to Provost
- Direct faculty board

- Facilities

- Stormwater management
- Green cleaning
- Going electric

- Student Engagement

- Elimination of plastic bags
- Group collaboration
- FM partnerships

- Curriculum

- Academic positioning
- Proposed co-major



Purdue University

An aerial photograph of the Purdue University campus. The central focus is a large, circular quad with a prominent monument in the center. The monument consists of two tall, white, curved pillars flanking a central base. The quad is surrounded by green lawns and numerous trees, many of which are in full bloom with pink and yellow flowers. In the background, several large, multi-story brick buildings with red roofs are visible, along with a tall clock tower on the left side. The sky is overcast with light clouds.

- ~50,000 students, ~16,800 staff
- Sustainability within Physical Facilities (vacant positions)
- Tuition frozen for 11 years
- Incoming President
- Heavy engineering & research

Purdue University

ENERGY



E-1 Cut Carbon Emissions in Half



E-2 No Net Gain



E-3 Pursue 500kW Renewable Energy

WATER



W-1 Reduce Water by 30%



W-2 Strategy to Eliminate the CSO

MATERIALS



M-1 Recycle Half our Waste



M-2 Recycle 75% + Construction Waste



M-3 Recycle All Institutional e-Waste

BUILDINGS



B-1 LEED Silver for New Buildings > \$10M



B-2 High Performance Requirements for Building Renovations < \$10M

GROUNDS



G-1 Plant One Tree per Day



G-2 Sustainable Landscapes for Purdue

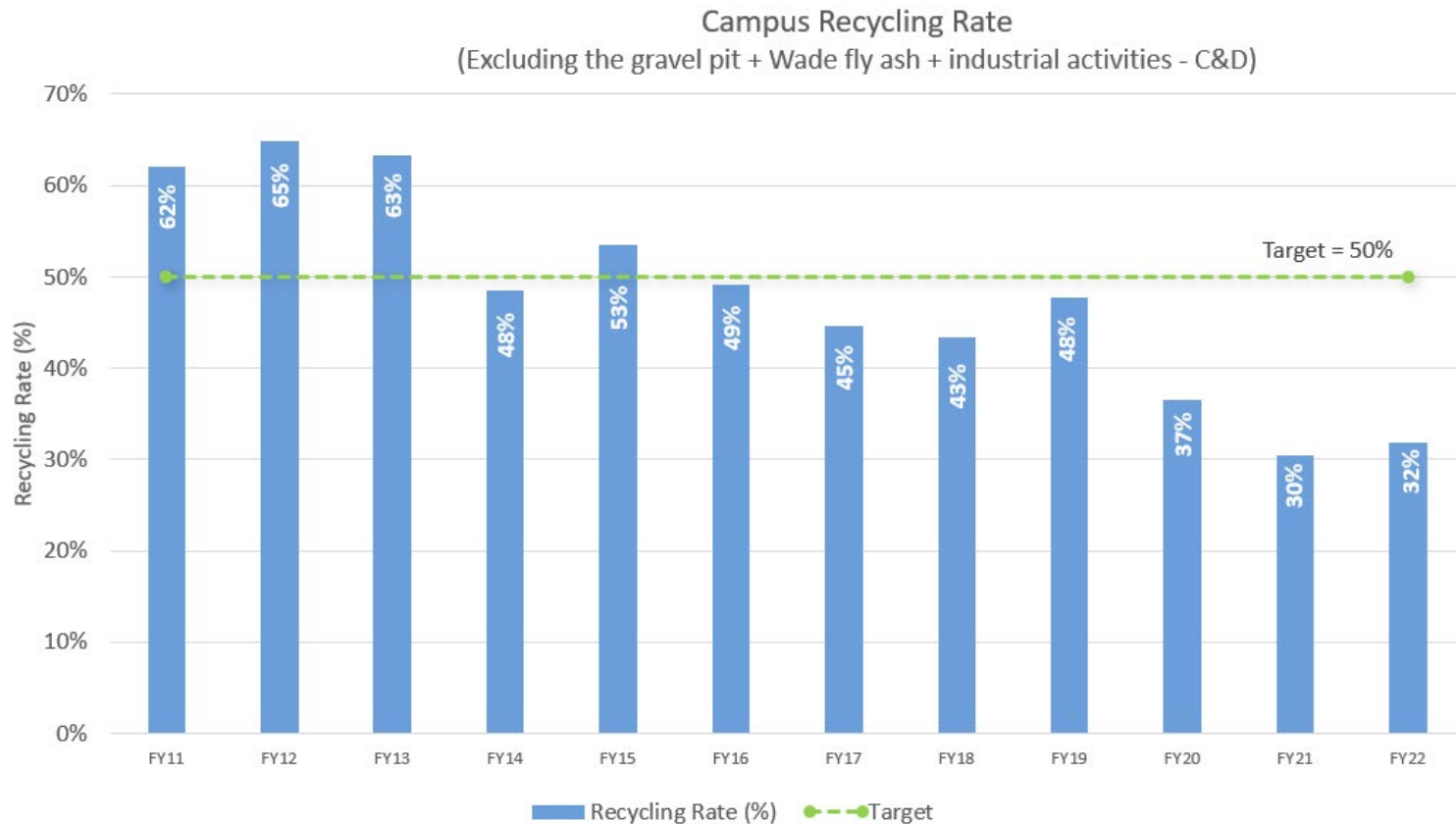


G-3 Double Bike Infrastructure

On campus renewables



Diversion Rate



Bicycle Infrastructure



Affinity Groups (& leads)



- Green Labs (Carley Rice & Lydia Vandenberg)
- Agriculture/Land Based Sequestration Strategies (Sally DeLeon & Mike Shelton)
- Staff Engagement (Laura Young)
- Engaging Facilities (Michael Kornitas)
- Waste Reduction (Mary Leciejewski & Tony Gilund)
- Data Analysis (Ken Keeler)

If you or a colleague would like to be part of an affinity group, please place an “x” in the column next your name here:

<https://docs.google.com/spreadsheets/d/1GvfTSazTu1XPV2IsEyPNTvalxVz0NIIx/edit#gid=1494049854>