Sustainability Council, April 2024

Madhu Khanna Alvin H. Baum Family Fund Chair & Director



iSEE

Institute for Sustainability, Energy, and Environment



sustainability.lllinois.edu





Agenda for Today

- Updates
 - Green Research Program
 - Solar Farm 3
 - Plastic Waste Reduction in Housing
 and Athletics
 - Student Group Activities
- Illinois Climate Action Plan (iCAP)
 - Progress & Challenges



sustainability.lllinois.edu



Green Research Program

Green Research Committee



Identify the best approach to green research that does not compromise safety.

- Committee charged by leadership in OVCRI, F&S, and ISEE.
- 5-year pilot partnership between DRS and F&S to be staffed by a Green Research Coordinator (GRC) and student workers reporting to F&S Associate Director for Sustainability. (F&S will request new FTE with FY25 hiring request)
- Propose a safe and practical green research program that:
 - is applicable to all research environments.
 - contributes to iCAP goals and commitment to sustainability.
 - establishes a process for "Green" status.
- Primary duties of GRC will include:
 - liaison with stakeholders.
 - develop and deliver training and educational information.
 - track and communicate progress.
- Funding to support the staff & program is being pursued via SSC and the Provost's Office
 - SSC Funding will be determined in late May; Letter will be sent from iSEE/VCRI/F&S to Provost office





Solar Farm 3.0

Goals and Current Status



- **UIUC Goals:** UIUC's Illinois Climate Action Plan (iCAP 2020) Objective #2.3.1 is to use 140,000 megawatt-hours per year (MWh/yr) of clean power by FY25.
 - There are existing clean energy contracts and installations for 50,000 MWh/year, so UIUC is seeking 90,000 MWh/year.
 - The 25,000 MWh/year wind agreement expires in October 2026.
- **UIC Goals:** UIC's Climate Action Implementation Plan (CAIP) Procure renewable energy equal to 15% of purchased electricity by 2021; increasing 5%/year through 2028; increasing 2.5%/year from 2029-2050. In 2028 this equates to 75,000 MWh. UIC is seeking 80,000 MWh/year.
- ACES Dean is supportive of making land available for Solar Farm 3. Exact terms will be discussed further; we are also looking at land located anywhere with competitive wholesale market off campus but within Illinois, preferably on university property.
- A task force of university decision makers is being formed to discuss options, finances and any related risk assessment.



Single-Use Plastic Reduction Efforts

Plastic Waste Reduction: Progress in University Housing

- Collaboration on a SSC proposal to increase the number of enhanced hydration stations in residence halls
- Water quality testing in progress to assess lead levels and determine best practices
- Education campaign and re-survey of preferences and concerns planned for Fall 2024
- Collaboration with advertising/CS class to create promotional materials



Enhanced



Basic



Opportunities in Catering

Campus Sustainability

- Mobile water solutions for large events could provide alternative to single-use plastic bottles
- Can be cost-effective through reduction of single-use bottle purchases and potentially renting out equipment
 - E.g., Convocation lunch for 8,000 new students: \$11,000 for bottled water vs. \$55,000 for mobile water cart
- Potential partnership among Student Affairs, Dining & Catering, Provost, Athletics
- Complements policy change allowing reusable bottles



Quench buggy



Water monster



Event Recap: Zero Waste Basketball Games

- November 14, 2022 (vs. Monmouth preseason)
 - 280 lbs. recycled
- March 2, 2023 (vs. Michigan)
 - 1,280 lbs. recycled
 - Diversion rate: 28%
- March 3, 2024 (vs. Nebraska)
 - 460 lbs. recycled
- March 5, 2024 (vs. Purdue)
 - 1,040 lbs. recycled
 - Diversion rate: 10%



Outreach & Education: Bin Guarding



Sorting & Diverting: Clean Up **iSEE**

, Opportunities in Athletics

One-off volunteer events help raise awareness but permanent changes needed for lasting impact:

- DIA agreed to update infographics and increase announcements at events to strengthen messaging
- Request more recycling infrastructure at State Farm Center. Recommend consistently & brightly wrapped bins to differentiate recycling vs. landfill
 - Estimate: \$5100-\$6020

Campus Sustainability

- Explore potential for coverage through Coke contract
- Request contracted waste staff sort & bag recyclables after games





Memorial Stadium











Student Group Updates

Student Sustainability Committee

The Student Sustainability Committee (SSC) is a student-led organization charged with the distribution of two student fees – the Sustainable Campus Environment Fee (\$15) and the Cleaner Energy Technologies Fee (\$3). With the ultimate goal of making the University of Illinois at Urbana-Champaign a leader in campus sustainability, the SSC reviews, recommends, and funds projects that increase environmental stewardship, inspire change, and impact students.



Claire Keating, Chair

SUSTAINAE















Faculty-Led & Energy Projects make up most of our budget.





Total Funds Allocated in 2023: \$1,377,073.73



Looking forward: prioritizing direct student impact

Each semester, \$18 is given to the University from each student, and our committee is charged with stewarding these funds.

The value of their sustainability experience on campus should exceed the value of our fee.









Student Sustainability Leadership Council

Co-Presidents: Danika Ford, Whitney Fowler, and Claire Sullivan



Sustainability Concerns from Students

- Fossil fuel divestment
 - iCAP Objective 9.1: Divest from fossil fuels by 2025
- Increasing trees & green space on campus
 - iCAP Objective 4.2.1: Increase Number of Trees
- Increasing native plants on campus
 - iCAP Objective 4.2.2: Increase Pollinator Friendly Areas
- Reducing plastic consumption on campus (e.g., plastic soda/water bottles in vending machines, plastic bags at Illini Union Bookstore).
 - iCAP Objective 5.2: Reduce Landfilled Waste
- Reducing litter on campus, especially after big events such as Quad Day
 - iCAP Objective 5.2: Install appropriate waste collection infrastructure



Student Asks for Administration

- Monthly updates with what iSEE is doing to fulfill the iCAP objectives listed on the previous slide
- Find more ways to collect & implement student input
 - Host monthly "office hours" to talk with students & hear their concerns
 - Open up meetings such as Sustainability Council to more students (i.e. public comment opportunity)
 - Host semesterly or bi-semesterly luncheons with student leaders
 - Highly advertise public comments/student input opportunities
- Take student input seriously
 - Students don't feel heard



iCAP Progress and Challenges



Illinois Climate Action Plan Progress Report





Greenhouse Gas Emissions

 Emissions have decreased by more than 40% since 2008.





iSE

- Energy conservation programs and policies have contributed to 35% reduction, but Energy Use Intensity has plateaued over past 3 years
- Currently at 12% renewable power use - Solar Farm 3 would allow us to meet this target
- Net Zero Space Growth Policy is in place, but variances are approved regularly – no significant progress in limiting growth



Resilience

- Urban Biodiversity Master Plan completed - catalogues assets S S and vulnerabilities, with Ð recommendations to \mathbb{O} strengthen biodiversity in Ō campus \bigcap
 - Champaign, Urbana, Savoy, and Vision Zero traffic redesign
 - strategy adopted by Regional Planning Commission in 2022
 - Will continue to collaborate on local sustainability issues through a climate resilience task force including local stakeholders





Education |

- Development of a sustainability General Education Requirement is under way
- Sustainability Course Repository allows students to search for sustainability courses
- Environmental Leadership Program (ELP) now in third year
- Sustainability training videos provide informal education





Land & Water

- Water use declined by 41% from 2008-2023; usage ticked up in the past two years
- Campus Landscape Plan was completed in 2022; Rainwater Management Plan in progress
- Campus is planting 300 trees/year, has 45 pollinator plantings, and will reach goal of 49 green infrastructure projects this year
 - Limited funding to implement Campus Landscape Master Plan





Transportation 6

- F&S introduced EVs & hybrids into carpool and has sustainable fleet plan, but no policy exists for other units
- Campus has established telecommuting policies
- Campus continues to implement Campus Bike Plan to improve safety and mobility for cyclists – updated Campus Bike Plan 2024 underway





Zero Waste

- Volunteers recycled more than 4,060 pounds of bottles and cans at 6 zero-waste sporting events from 2022 to 2024
- Be Orange, Go Green campaign increases awareness of ~700 water bottle filling stations
- Sustainable Student Farm sends majority of its produce to campus dining halls
- Grind2Energy system converts food scraps into fertilizer and energy – but only for dining halls, and creates cost burden





Engagement | 🖖

- Number of green-certified events/chapters/offices grew from 7 in 2020 to 57 in 2023
- The Division of Intercollegiate Athletics is now part of the Green Sports Alliance
- The iCAP portal is regularly updated to report progress

*ENGAG	EMENT	icap update
Objective 7.1 Increase the number of Green Campus Program Certifications by 20% every year from 2020-24	Objective 7.4 Use GivePulse tracking system to increase local sustainability collaborations	On Hold
Objective 7.2 80% of Illini Union Events qualifying as sustainable by 2024 Complete	Objective 7.5 Hold an annual Youth Sustainability Summit	On Hold
Objective 7.3 DIA joining the Green Sports Alliance by 2021	Objective 7.6 Use the iCAP Portal regularly to report progress	Completed



AASHE STARS – Working Toward Platinum



- Current score = 72
- Score needed to reach platinum = 85

Opportunities to improve our score

- Increase # of sustainability courses
- Peer-to-peer engagement
- Decrease overall GHG emissions
- LEED for Operations & Maintenance
- Improve building energy efficiency and % energy consumption from clean sources
- Sustainable procurement policies
- Decrease landfill waste %, increase recycling %
- Increase % of sustainability investments

THANK YOU!



sustainability.lllinois.edu