iCAP WORKING GROUP & SWATeam KICKOFF

Dr. Ximing Cai, Morgan White, and Meredith Moore INSTITUTE FOR SUSTAINABILITY, ENERGY, AND ENVIRONMENT







Welcome!

- Introductory Remarks from iSEE
- Overview of iCAP Procedures
- Introductions
- FY19 SWATeam recommendations
- 2015 iCAP status update
- 2020 iCAP drafting plan
- SWATeam representatives
- Reception



Introductory Remarks

Institute for Sustainability, Energy, and Environment



ACTIONABLE RESEARCH



CAMPUS SUSTAINABILITY



EDUCATION & OUTREACH

Overview of iCAP Procedures

Dr. Ximing Cai
Institute for Sustainability,
Energy, and Environment



Climate Leadership Commitments

Signed by University of Illinois at Urbana-Champaign



The Climate Commitment

Integrates a goal of carbon neutrality with climate resilience and provides a systems approach to mitigating and adapting to a changing climate. Designed to blend these two critical components of climate leadership.

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The Carbon Commitment

Focused on reducing the emissions of harmful greenhouse gases to zero and mitigating campuses' contribution to climate change.

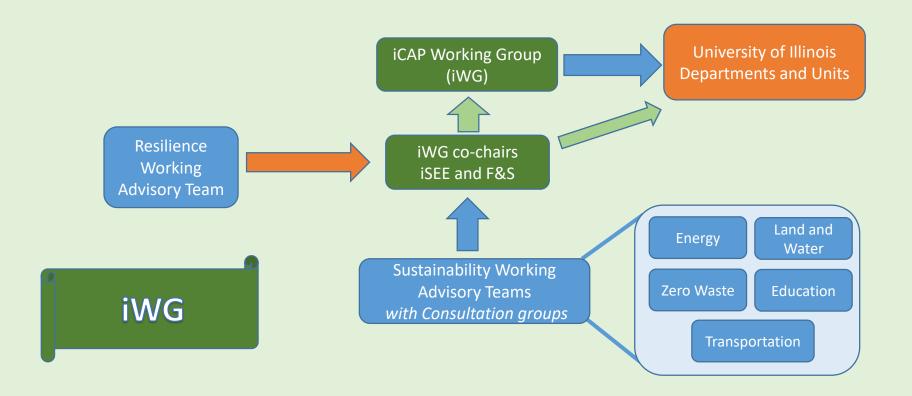


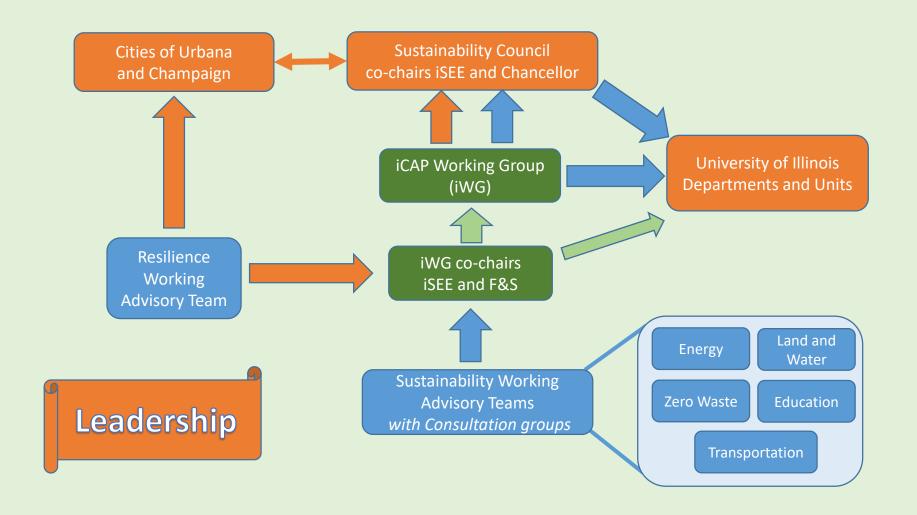
The Resilience Commitment

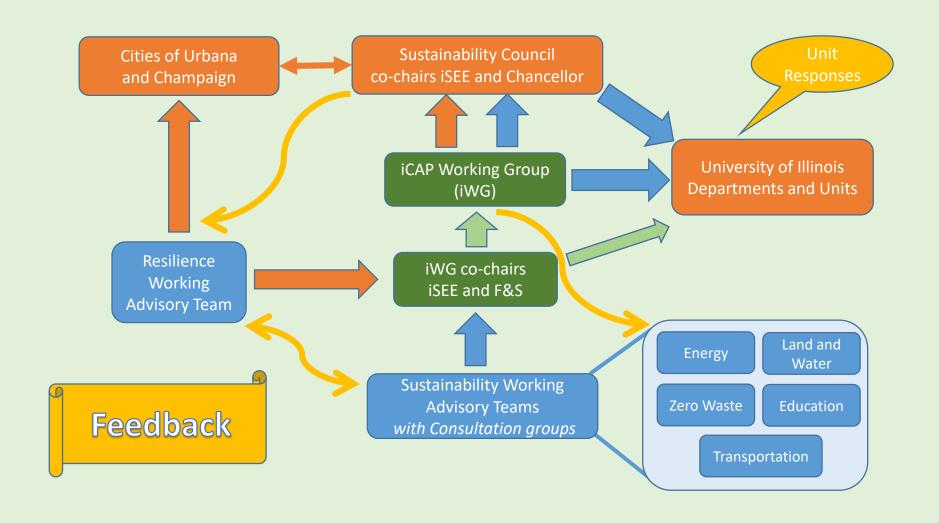
Focused on climate adaptation-specific goals, as well as building community capacity to deal with a constantly changing climate and resulting extremes.

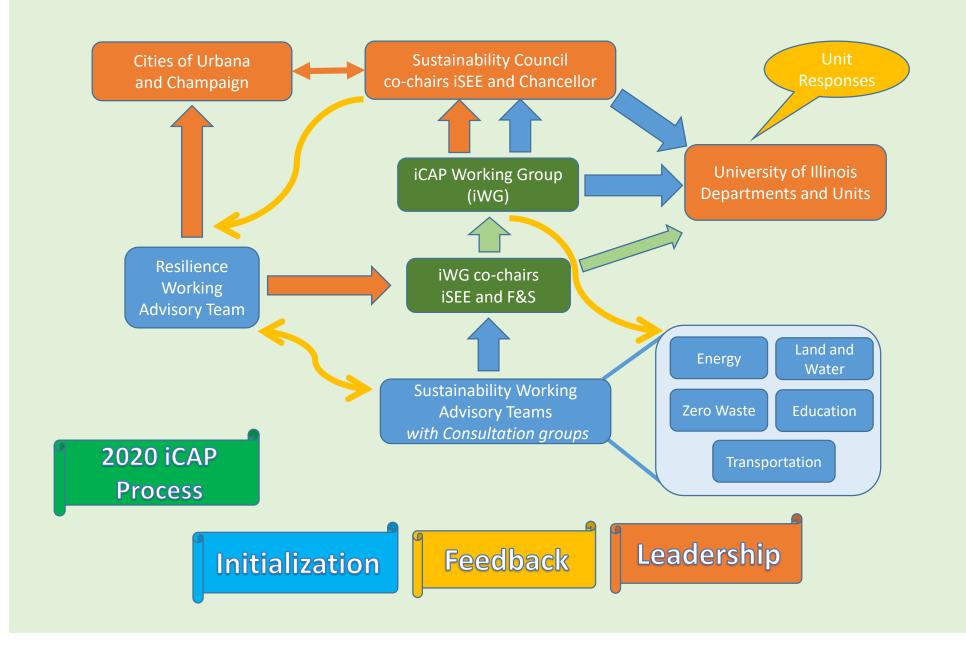
- Sustainability Working Advisory Teams include students, faculty, and staff to represent an intersection of the campus sustainability community.
- The new Resilience SWATeam has several local community leaders included, and reports up to both the cities and the university.











Expectations

For faculty members

- For one faculty member, serving as chair to the team and preside over the meetings
- Guiding the discussions during meetings
- Delegating follow-up steps as needed
- Connecting campus efforts to the larger global knowledge base
- Ensuring faculty leadership in support of campus sustainability goals



Expectations

For staff members

- Providing your experience and knowledge of campus procedures and infrastructure
- Providing the team with an understanding of the processes and policies that could impact implementation of recommendations
- Sharing personal knowledge and experience as a professional in relevant fields



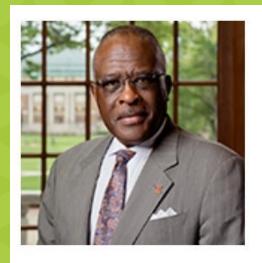
Expectations

For student members

- Speaking on behalf of the student population as a whole
- Sharing personal excitement and innovative solutions
- Breaking down the walls of tradition to help create meaningful and transformative changes
- Sharing iCAP information with student peers, friends, classmates, and instructors



Introductions



Chancellor Robert Jones

Photo by L. Brian Stauffer

"When the University of Illinois at Urbana-Champaign signed the American College and University Presidents Carbon Commitment in 2008, we began an intentional journey to make our campus one of the most sustainable in America," Chancellor Robert J. Jones said. "The Climate Leadership Award from Second Nature is welcome recognition of the progress we've made in the last decade. On behalf of all the students, faculty members, staff and

administrators who have helped make this possible, we're honored to accept this award and we are excited to continue to move toward our sustainability goals."



Review of Progress

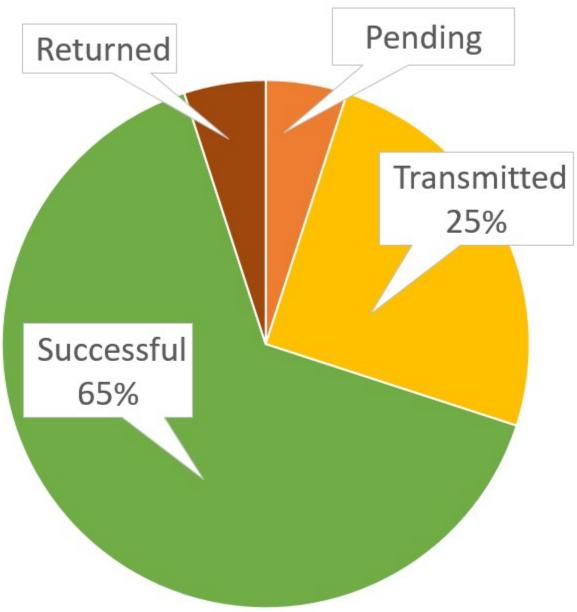
FY19 SWATeam recommendations 2015 iCAP status update

Ms. Morgan White Facilities & Services



FY19 Recommendations Status





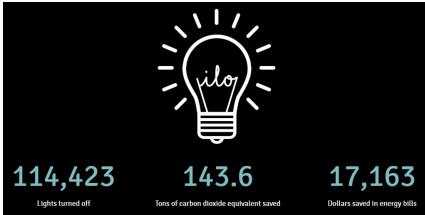
SUSTAINABILITY.ILLINO

- 1. <u>EGen010 Geothermal Feasibility Study</u> Transmitted to SWATeam
- 2. <u>EGen009 Campus Geothermal Policy</u> Successful, F&S will proceed
- 3. Trans011 Carbon Credit Fund Returned
- 4. Trans010 Mode Share Survey Transmitted to iSEE
- 5. Trans009 Parking Advisory Committee Successful, Parking has implemented
- 6. Trans008 Mode Share Survey Successful, iSEE has implemented
- 7. Water007 SeeClickFix Successful, F&S will proceed
- 8. Water006 Lot F23 Monitoring Transmitted to Parking
- 9. Water005 Rainworks Design Lot F4 Successful, Parking will proceed
- 10. Water004 GSI Standards Parking Lots Successful, F&S has implemented
- 11. PWR020 F&S Waste Report Endorsement Successful, iSEE will proceed
- 12. PWR019 Sustainable Procurement Transmitted to Purchasing
- 13. PWR018 iBUY Modification Pending
- 14. PWR017 Housing Representative Successful, Housing has approved
- 15. PWR016 Motion Sensor Lighting Successful, F&S will proceed
- 16. PWR015 Lightbulb Replacement Successful, F&S will proceed
- 17. PWR014 Sustainability Ethics Training Successful, iSEE will proceed
- 18. PWR013 Zero Waste Coordinator Successful, F&S has initiated the search
- 19. ALUFS006 Increased Agroforestry Successful, ACES will proceed
- 20. ALUFS005 VetMed Parking Transmitted to Parking



SWATeam Successes

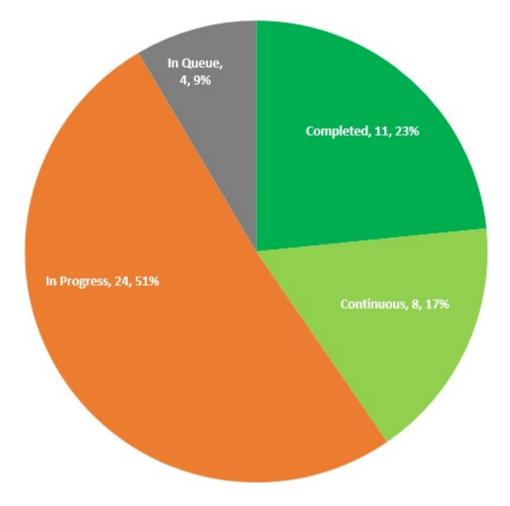






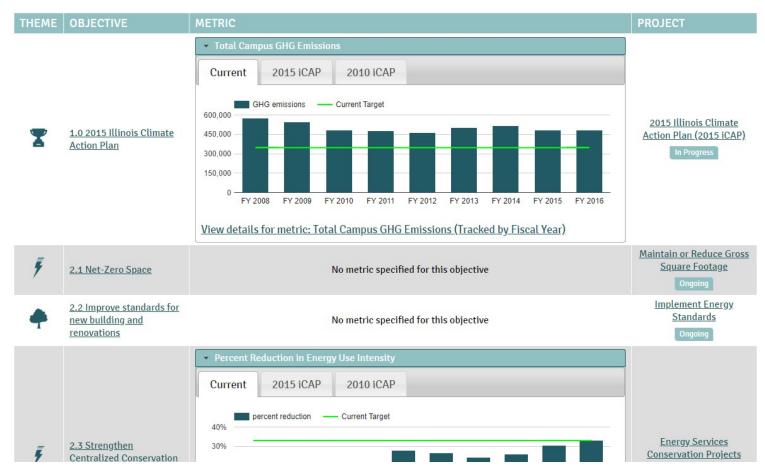


iCAP Project Updates





iCAP Project Updates



https://icap.sustainability.illinois.edu





2020 iCAP Drafting Plan

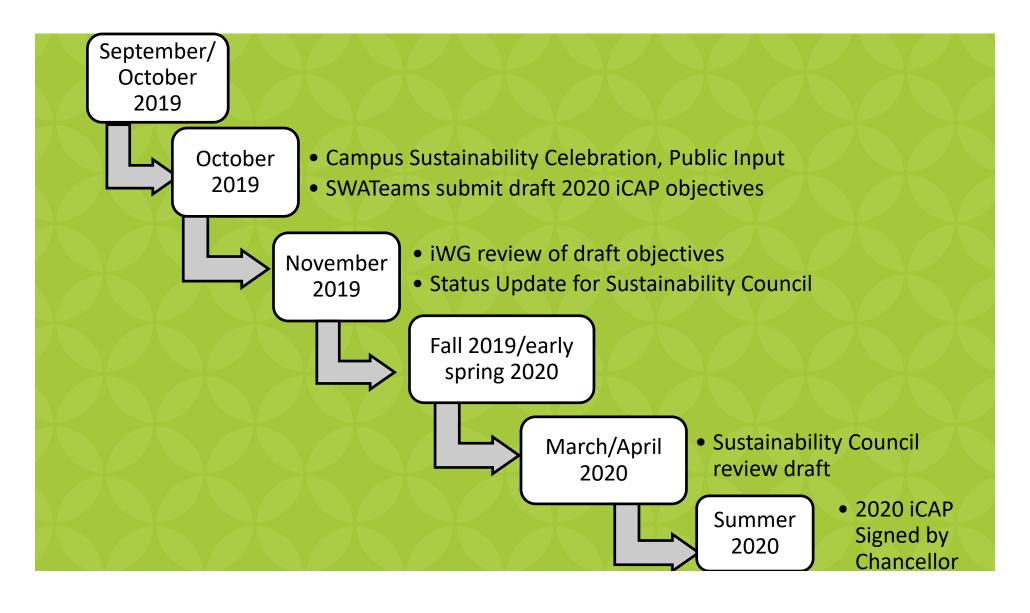
Ms. Meredith Moore
Institute for Sustainability,
Energy, and Environment



2020 iCAP Timeline



2020 iCAP Timeline



SWATeam Feedback

Energy
Land and Water
Transportation
Zero Waste
Education
Resilience



Thank you for your contribution to campus sustainability!

Any questions?



2019-2020 SWATeam Changes

2018-2019 Process

2019-2020 NEW Process

- The SWATeam chairs set the agendas and the iWG co-chairs only occasionally attended meetings.
- The teams were able to work on anything they wanted for their topics.
- There were six members on each SWATeam, made up of faculty, staff, and students.
- Some team members helped write sections of the 2015 iCAP chapters.
- Teams were asked to meet about twice a month.
- The SWATeams were Energy
 Conservation and Building Standards
 (ECBS), Energy Generation, Purchasing and Distribution (eGen), Water and Stormwater, Transportation,
 Agriculture, Land Use, Food, and Sequestration (ALUFS), Purchasing, Waste, and Recycling (PWR)

- iWG representatives (Ximing Cai, Morgan White, and Meredith Moore) will guide the fall agendas and keep the meetings on schedule for the 2020 iCAP timeline. They will also attend each monthly meeting.
- Efforts need to be focused on developing the 2020 iCAP objectives.
- There are now 9-12 members on each SWATeam, made up of faculty, staff, and students.
- The iWG will be tasked with writing the 2020 iCAP. A 2020 iCAP drafting team will write the chapters.
- We are asking for at least one full SWATeam meeting each month, and they can hold separate additional meetings with people who are available in the other weeks, if desired.
- The 6 new SWATeams correspond to chapters in the 2020 iCAP: Energy, Land & Water, Transportation, Zero Waste, Education, and Resilience

iCAP Objectives Handout



Completed



Actively In Process



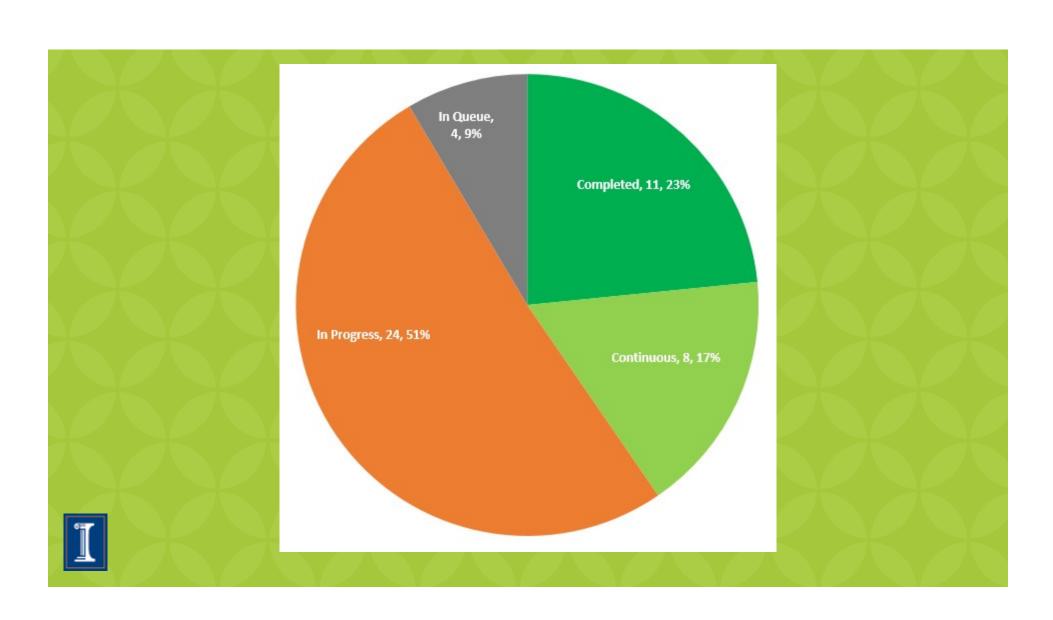
Needs Continuous Effort



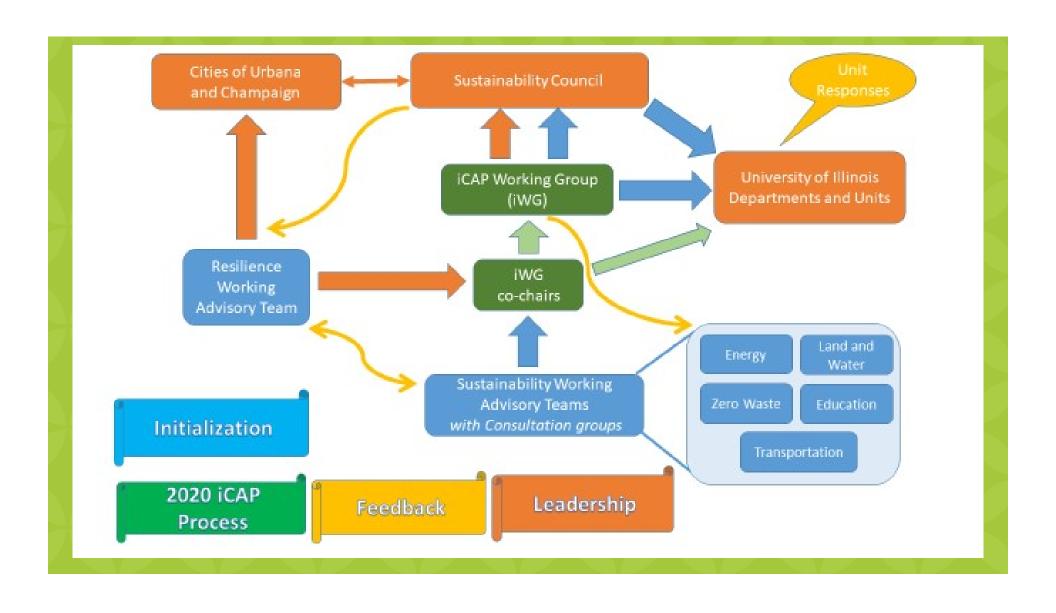
Pending



iCAP Progress, Sep. 5, 2019



Campus Sustainability Procedures



Energy Conservation and Building Standards (ECBS) objectives:



1. No New Space



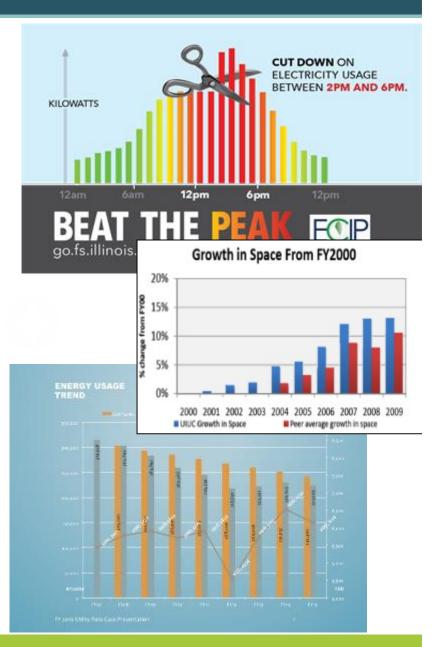
2. Highest achievable energy standards



3. Strengthen centralized conservation



4. Incentivize behavior change













Energy Generation, Purchasing, and Distribution (eGen) objectives:



1. Explore options for 100% clean energy



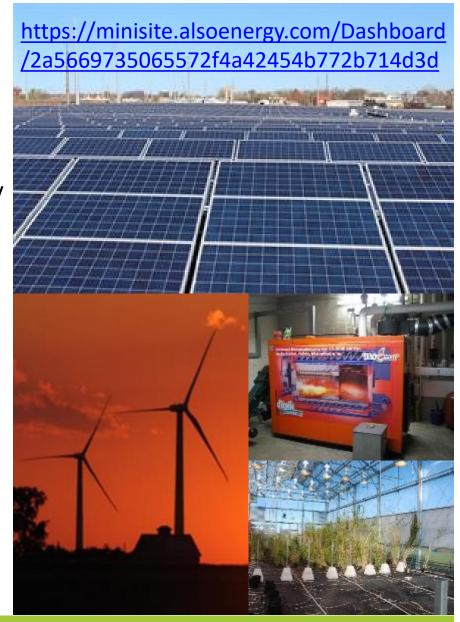
2. 12,500 MWh/yr campus solar by FY20



3. 120,000 MWh/yr from low-carbon energy by FY20



4. Offset all emissions from Petascale













Transportation objectives:



1. Reduce air travel emissions 25%



2. Reduce fleet emissions 20% by FY20



Develop scenarios for converting the campus fleet to renewable fuels



4. Reduce % of staff driving-alone from65% to 55% by FY20



5. Implement the Campus Bike Plan



6. Hire Active Transportation Coord.













Water and Stormwater objectives:



1. Publicize water use data



2. Improve cooling tower efficiency



3. Perform a water audit to establish water conservation targets



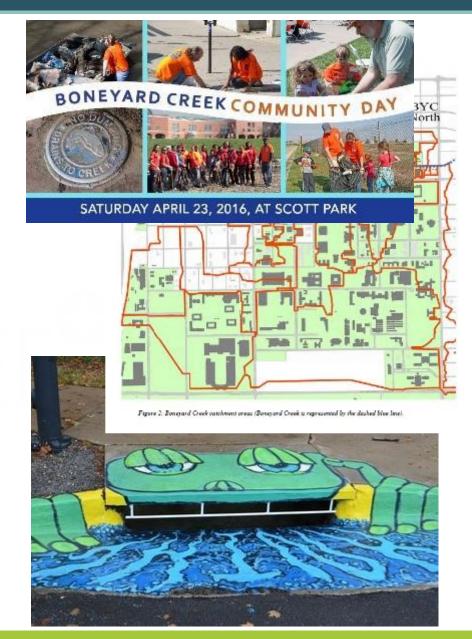
4. Benchmark landscape performance



5. Implement 4 water re-use projects



Investigate and reduce stormwater pollution













Purchasing, Waste, and Recycling (PWR) objectives:



 By FY17, apply environmental standards for purchasing of office paper, cleaning products, computers, other electronics, and freight/package delivery services



2. Reduce waste going to landfills, and increase the diversion rate to 45%



3. Utilize landfills with methane capture



4. Hire a Zero Waste Coordinator



ACCEPTABLE

Office Paper: All Types

Newspaper

Magazines

Journals

Envelopes: All Types

Junk Mail

Ream Wrappers

Books

Phone Books

Manila and File Folders including:

- All Colors
- Staples
- Paper Clips
- Rubber Bands















Agriculture, Land Use, Food, and Sequestration (ALUFS) objectives:



Assess and reduce emissions from agricultural operations



 Sustainable landscape planning with a tree care plan and an integrated pest management program by FY17



3. Integrate iCAP in Campus Master Plan



Increase local food procurement in
 Dining Halls from 28% to 40% by FY25



5. Convert 50 acres to agroforestry



6. Reduce nitrates in agricultural runoff and subsurface drainage by 50%















Carbon Offset objectives:



RFP for purchasing verified carbon offsets



 By the end of FY17, enable campus units to voluntarily purchase carbon offsets



 By the end of FY18, develop a program of local or regional mission-linked verified offsets



4. In FY20, utilize carbon offsets to meet all unmet iCAP emission targets

Funding objectives:



Develop criteria for allocating funds



Increase the Revolving LoanFund to level with peers



 Identify funds available for non-payback projects and options to increase that amount annually



4. Evaluate the feasibility of internally putting a price on carbon emissions











Education objectives:



1. Undergraduate Minor



 Offer opportunities for undergraduate students to obtain research and practical experience by participating in independent study projects on topics in sustainability.



Add at least five new sustainability-focused courses by FY20.

Outreach objectives:



 Support student sustainability programs



Strengthen and communicate
 about sustainability outreach
 programs. By FY20, 50% of
 units participating in the
 Certified Green Office Program



 Annually host three major sustainability events: Earth Week, Campus Sustainability Week, and the iSEE Congress











Research objectives:



Create a hub for the sustainability community: to develop a
comprehensive online gateway for faculty, staff, students, potential
donors, and all interested parties to find information about sustainability
research, education, outreach, initiatives, and operations.



2. Build connections: to bring together scholars from across campus to encourage collaboration, and to enhance research endeavors.



3. Foster "actionable" research: to encourage and support research that provides real-world solutions to society's grand challenges in sustainability.



















