

FY21 – iCAP 2020 Assessments

Energy

- **Objective:** #2.1 By FY24, develop a comprehensive energy planning document that includes a detailed strategy for meeting the FY50 net-zero green-house gas (GHG) emissions goal.
- **Responsible Unit:** [F&S]
- **Team members:** Energy team responsible for recommendation. Funding from University Administration Contracting through F&S.
- **Current status:** Energy007 recommendation is with iWG and transmitted to F&S to be enacted.
- **iCAP Team's assessment of progress:** Energy007 supplanted previous recommendation Energy003.
- **Next steps:** Awaiting University to secure funding (~\$1.5M) and Board of Trustees to approve planning project.



- **Objective:** #2.2 Reduce Energy Use Intensity (EUI) of university facilities from the FY08 baseline by: 45% by FY30, 50% by FY40, and 60% by FY50
- **Responsible Unit:** [F&S]
- **Team members:** Energy Team. F&S.
- **Current status:** Energy team recommends that the Comprehensive Energy Planning Document be used to determine milestones for campus energy reduction.
 - *Energy002 Recommendation for Building Envelope Team has been approved by iWG and has been started at F&S.*
 - *Energy004 Recommendation for Energy Performance Contracting is awaiting approval.*
 - *Energy005 Recommendation for Energy Modeling is approved.*
 - *Energy006 Recommendation for [Integrate iCAP Goals into Research/Learning Labs](#) has been accepted by iWG and transmitted to F&S.*
- **iCAP Team's assessment of progress:** Two of four recommendations that would help meet the EUI target are approved. We are hoping the other two will be approved in FY22.
- **Next steps:** F&S to organize planning committee to execute Energy 006.



- **Objective:** #2.2.1 Improve efficiency of space use by minimizing the square footage per person and updating the Space Policy in the Campus Administrative Manual (CAM) by FY23
- **Responsible Unit:** [Office of the Provost]
- **Team members:** student, Bill Rose
- **Current status:** Objective discussed with F&S, but not acted upon. Compliance with the zero-growth CAM requirement requires enforcement. No enforcement has been in place to date, and Energy Team is not an enforcement body.
 - The objectives appear to request a change in CAM, allowing growth. The Energy Team does not support this change, as it appears to provide back-justification for growth that should not have taken place.
 - *The Energy Team has met with Brian Bundren, Associate Director for Capital Planning to begin discussion of changing the CAM.*
- **iCAP Team's assessment of progress:** Considering buildings in the University District only, square footage increased by 20% between 2008 and 2018. F&S recently published the “University of Illinois Facilities & Services Space Management Plan 2021 – 2030.” The Office of the Provost has published a draft of the “Illinois Space Advisory Committee: Space Management Guidelines.”
- **Next steps:** Energy Team to continue discussions with Office of the Provost to update the CAM.



- **Objective:** #2.2.2 Reduce the total annual energy consumption of each college-level unit by at least 20% from an FY15 baseline by FY35
- **Responsible Unit:**
- **Team members:** Energy Team
- **Current status:** As with Objective #2.2, Energy Team recommends that the Comprehensive Energy Planning Document be used to determine milestones for campus energy use reduction.
- **iCAP Team's assessment of progress:** Office of Provost has published 4th draft of “Integrated and Value-Centered Budgeting - Framework for Budgeting System Reform.” It is expected that by assigning utility costs to campus units occupying space will incentivize them to conserve energy and water and strengthen awareness of utility cost. As part of the IVCB, F&S will maintain a space allocation database, providing customers with a high level of building maintenance and services, and identifying energy saving opportunities. F&S recently published the “University of Illinois Facilities & Services Space Management Plan 2021 – 2030.”
- **Next steps:** Energy Team will monitor progress of meeting energy reduction target through new budgeting mechanism and offer additional recommendations if future energy consumption reductions are not being met. We suggest information materials be developed that advertise the potential savings if energy consumption is reduced.



- **Objective:** #2.3 Use clean energy sources for 15% of total campus energy demand by FY30
- **Responsible Unit:** F&S
- **Team members:** Energy Team
- **Current status:** Not started
- **iCAP Team's assessment of progress:** UIUC Department of Nuclear, Plasma, and Radiological Engineering, in collaboration with Ultra Safe Nuclear Corporation submitted a Letter of Intent to the U.S. Nuclear Regulatory Commission for a license to construct the Next-Generation Micro Modular Reactor (MMR) on the UIUC campus. The MMR Energy System is a zero-carbon power plant, integrating one or several standardized micro reactors with a heat storage unit and a non-nuclear adjacent plant for power conversion and utilization. 10 to 100 MW electrical power and/or process heat. Also, UIUC administration is in negotiations for Solar Farm 3; off campus virtual power purchase agreement for 90,000 MWh/year of electricity from an industrial solar farm.
- **Next steps:** Energy Team will seek additional information about these new initiatives to determine their impacts on meeting the clean energy target.



- **Objective:** #2.3.1 Use at least 140,000 MWh/year of clean power by FY25
- **Responsible Unit:** [F&S]
- **Team members:** Matthew Gold and other Energy Team members
- **Current status:** This objective will be met if Solar Farm 3.0 is approved. The Executive Directors of iSEE and F&S are talking with Chancellor Jones about next steps on this important project.
- As with Objective #2.2, the Energy Team recommends that the Comprehensive Energy Planning Document be used to determine milestones for campus energy use reduction.
 - In FY20, 30,636 MWh of clean power was purchased (3.2% of campus' total energy), according to the iCAP portal and F&S website). The biggest source of clean energy by far was the Wind Power Purchase agreement using 21,720 MWh (70.90% of the clean power usage on campus).
- **iCAP Team's assessment of progress:** We will focus on expanding the usage of other sources of clean energy or add more energy sources on campus.
- **Next steps:** Track progress in implementing Solar Farm 3 and investigate the possible development of additional clean power sources.



- **Objective:** #2.3.2 Use at least 150,000 MMBTU/year of clean thermal energy by FY30
- **Responsible Unit:** [F&S]
- **Team members:** student, Andrew Stumpf
- **Current status:** As with Objective #2.2, Energy Team recommends that the Comprehensive Energy Planning Document be used to determine milestones for campus energy use reduction.
 - On campus, clean thermal energy is produced at the Energy Farm from the Biomass Boiler, and solar thermal energy is used at the Activities and Recreation Center. Various geothermal energy systems are providing thermal energy to buildings that offsets the use from other sources.
- **iCAP Team's assessment of progress:** Find out where campus can purchase renewable natural gas (RNG), aka biogas, to use at Abbott Power Plant. The Energy Team in 2020 wrote a white paper updating the technology and cost of installing an anaerobic digester on the South Farms.
- **Next steps:** Seek information about available RNG sources. The iWG would be interested in seeing a recommendation in support of using RNG, preferably with information about potential sources.



Summary. Top Priorities by end of FY 2022.

- Ensure all submitted recommendations that are transmitted are funded.
- Submit new recommendations. It is too early in the year to speak for the Energy Team. Below are priorities of the Energy Team chairs.
 - Fund efforts in support of the Comprehensive Energy Plan. This may include building an operation dashboard of campus buildings that the Plan authors may draw upon. It would include 1) building characteristics, 2) historical energy use, 3) energy models—energy budget, as constructed and calibrated, 4) blower door results, and 5) notes from occupants.
 - Fund a space use campus watchdog. This group would be responsible for 1) enforcing zero-growth, 2) overseeing unused and poorly used campus space, 3) developing recommendations for reducing ventilation rates in buildings, 4) providing recommendations for conditioning of unused and poorly used space and 5) recommend which spaces to decommission. Intervene in the administrative and approval process
 - Increased compliance with State Building Energy codes.
 - Make sure all the costs for implementing the iCAP are thoroughly understood.
- Consider multiple, smaller projects for SSC funding.
- General comments for the iWG:
 - Because the objective for ensuring compliance of building energy codes in new buildings was moved to Objective 2.2 in the final draft of the 2020 iCAP, it did not fit in the sequential list above, and it is included on the following slide.



- **Objective:** Oversee compliance with State Energy Code and Facilities Standards (p. 40 in 2020 iCAP)
- **Responsible Unit:** [F&S]
- **Team members:** Energy Team
- **Current status:** Energy Team has received no indication that the requests made to the previous F&S Executive Director for executable energy models to be included in project files will be instituted.
- **iCAP Team's assessment of progress:** Unsure how to perform this oversight function, or which unit should be charged with this duty.
- **Next steps:** Track compliance with State Energy Code and Facilities Standards.



Transportation

Objective: #3.1 Establish written replacement plans for at least 80% of campus fleets by FY24 to improve university-owned vehicle fuel efficiency.

- **Responsible Unit:** [Fleet Managers]
- **Team members** Ria Kontou (Lead), Sarthak Prasad, *iSEE, F&S, Transportation and Automotive Services (TAS)*
- **Current status:** Ria and Sarthak worked with Claire Rathslag in spring and summer 2021 to develop an optimization model to replace campus fleet vehicles. Pete Varney had mentioned that they would be looking in to replacing nearly 15 cars in FY21 with a budget of \$440,000. We looked at different EVs and hybrid vehicle technologies as candidates to replace the existing fossil-fueled vehicles, and analyzed their maintenance and operational cost, gas amount savings, GHG emissions savings. Claire has moved to the Land & Water iCAP Team, so currently this project is on hold.
- **iCAP Team's assessment of progress:**
 - Finalize and formalize the vehicle fleet replacement analysis.
 - Challenges could be: variability of budget for fleet's replacement, cost of vehicles, maintenance of the vehicles, etc.
- **Next steps:**
 - Obtain data from Claire
 - Assign this project to another Transportation iCAP Team student
 - Reach out to Pete regarding their plan to replace vehicles in FY22 and FY23, including budget and number of vehicles
 - Submit a recommendation to F&S TAS with data to support the recommendation



Objective: #3.2 Increase the Pavement Condition Index (PCI) for University-owned roads so the average PCI score is at least 65 by FY25 and at least 70 by FY30.

- **Responsible Unit:** [F&S]
- **Team members:** *Primarily led by TDM (Stacey DeLorenzo (Lead), Sarthak Prasad), with inputs and collaboration with Grounds, Construction Services, Architecture Review Committee (ARC), other F&S Shops*
- **Current status:** *In 2020, the area-weighted PCI of the university-maintained roadways is 65. For FY21 and FY22, the funding for Transportation Asset Management Plan (TAMP) was rescinded, due to covid-19, therefore, there were/are no pavement improvement projects underway or planned for FY21 and FY22.*
- **iCAP Team's assessment of progress:** *An average of \$1.78 M annually for the next five (5) years to achieve a PCI of 70, and we need an average of \$1.5 M annually to maintain the PCI of 65. Due to covid-19 and budget constraints, TAMP funding was pulled for FY21 and FY22. We need to begin work on this objective to reduce the chance of a street failing.*
- **Next steps:** *A recommendation to the iWG to support the TAMP might help. We need to maintain our pavement and make minor repairs regularly, which will prolong its life, otherwise the street might fail which would then require full reconstruction. Full reconstruction of a street will have a very high cost.*



Objective: #3.3 Establish an Electric Vehicle Task Force to identify key goals for supporting the use of electric vehicles on and off campus by FY22.

- **Responsible Unit:** [Parking Services]
- **Team members** *iSEE, F&S Sustainability (Morgan White), F&S TDM, F&S Garage and Carpool (Pete Varney), CEE Transportation (Profs. Yanfeng Ouyang and Ria Kontou), Illinois Center for Transportation and I-ACT, ECE (Prof. Philip Krein)*
- **Current status** Transportation iCAP Team has created a list of potential members for the EV Task Force. Parking had confirmed that they will be interested in starting the EV Task Force in fall 2021. Yanfeng and Ria have agreed to Co-Chair the Task Force. The recommendation has been formulated, Transportation iCAP Team members' comments needed.
- **iCAP Team's assessment of progress:** Transportation iCAP Team has identified the potential members and formulated a recommendation. Need to submit the recommendation soon. We are on track of achieving this objective.
- **Next steps:** Comments from Transportation iCAP Team members on the recommendation. Submit the recommendation with the list of potential Task Force co-chairs and members soon so that iWG can discuss this recommendation at their October 29 meeting.



Objective: #3.4 Reduce driving on campus and report the percentage of staff trips made using single-occupancy vehicles from 60% to 50% by FY25 and 45% by FY30.

- **Responsible Unit:** [F&S]
- **Team members:** *CTAC, Parking, Cities of Champaign and Urbana, MTD, Urban and Regional Planning, Campus Bike Center, Champaign County Bikes*
- **Current status:** *Some plans have been developed and are in the implementation phase (e.g., TDM Plan, Campus Bike Plan, Parking Master Plan); a mode share survey has been developed and distributed; various other efforts are underway; single-occupancy driving mode share was 60% in 2019. iSEE will be performing a mode share study in spring 2022. In FY22, F&S TDM is working on a Walkability Audit of the entire campus to develop a priority list of preservation and improvement of our sidewalk network. This priority list would help develop a Campus Walking Master Plan by FY23.*
- **iCAP Team's assessment of progress:** This objective area has a very large number of activities/sub-objectives; it would be helpful to take stock of and prioritize the activities this semester.
- **Next steps:** *Analyze the current mobility pattern of university students, faculty, and staff. This will be achieved by a large scale Mode Share/Split survey in FY22. Submit recommendations based on the analysis of the mode split and how to promote active modes of transportation on campus.*



Objective: #3.4.1 Develop a Commuter Program (Bus, Bike, and Hike) for faculty and staff. Register 100 people by FY24 and 500 people by FY30.

- **Responsible Unit:** [Parking]
- **Team members:** *Stacey DeLorenzo, Sarthak Prasad, F&S, Parking, IHR, iSEE, MTD, Civil & Environmental Engineers, Urban Planning Professionals, Illini Union.*
- **Current status:** *Commuter Program is a program to incentivize our faculty and staff to use active modes of transportation as their primary mode of travel while on campus. Sarthak has created an outline for the Commuter Program, how to identify the eligibility of users, what incentives we can provide, which departments to collaborate with, and a basic implementation plan. Students will not be eligible to enroll in this program.*
- **iCAP Team's assessment of progress:** The pilot of Commuter Program should begin in FY23. Pilot could include staff from F&S and Parking, which will, hopefully, gauge interest from faculty and staff from other departments. We need to identify a student from the Transportation iCAP Team to help Sarthak, if needed. This is the first of its kind system at the University of Illinois, so there may be some challenges.
- **Next steps:** Identify a student from Transportation iCAP Team to support Sarthak with this project. Assess current infrastructure, historical bus, bike, and pedestrian traffic, identify individual barriers against commuting, and proceed to target elimination of barriers. Assess with a metric of annual staff/faculty/student parking passes purchased or parking meter usage.



Objective: #3.4.2 Continue to implement the 2014 Campus Bike Plan.

- **Responsible Unit:** [F&S]
- **Team members:** *Primarily led by TDM, with inputs and collaboration with Grounds, Construction Services, Architecture Review Committee (ARC), other F&S Shops, Campus Rec (Campus Bike Center), Parking, Public Safety, Space Management.*
- **Current status:** *As of the October 6 2021, nearly 50% of the bicycle pathway network projects have completed. In October 2019, the University achieved Silver-level Bicycle Friendly University status. We can accommodate up to 11,635 bicycles on-campus at more than 520 bike parking areas. This number will be updated once we have analyzed the data collected from Bike Census 2021. Nearly 93% of all university-owned bike parking is now up to Standard. As of July 2020, there is a new national bicycle registration program and, so far, there have been more than 1,000 bike registrations. F&S has updated the 2014 Campus Bike Plan with the remaining objectives and projects, and also published a progress report in FY20 for work done in the last five (5) years.*
- **iCAP Team's assessment of progress:** According to the FY20 update to the 2014 Campus Bike Plan, there are 2 High priority, 6 medium priority, and 11 low priority bike path improvement projects remaining. Apart from these, there are several Campus Bike Plan objectives that we are working towards. Major challenge: Funding constraints.
- **Next steps** (*what should happen to move this forward?*): Continue to implement the Campus Bike Plan.



Objective: #3.4.3 Establish telecommuting policies for the campus by FY24.

- **Responsible Unit:** *[F&S w/ IHR]*
- **Team members:** *iSEE, Chancellor Jones, faculty & students on campus*
- **Current status:** *The Transportation iCAP team has been in communication with Dr. James Gallaher who leads a committee working on developing telecommuting policies for the university. This committee is currently gathering data to develop formal recommendations in the future.*
- **iCAP Team's assessment of progress:** *The COVID-19 pandemic has resulted in the University reckoning with its telecommuting policies very quickly. Illinois Human Resources has published a guide on Remote and Hybrid work which includes guidelines and policies.*
- **Next steps:** *It may be of value for this team to pass a formal recommendation encouraging all colleges and departments to review these new policies and implement them where possible. Once these policies achieve widespread implementation throughout the college, we can consider this objective completed.*



Objective: #3.5 Reduce net air travel emissions from FY14 baseline: 50% by FY24; 100% by FY30.

- **Responsible Unit:** [iSEE]
- **Team members:** *F&S, OBFS, Chancellor, Willard Airport*
- **Current status:** *There is a policy manual (Section 15) for when air travel should be used from the OBFS and limited other policies.*
- **iCAP Team's assessment of progress:** COVID-19 continues to restrict travel and as a result, the campus has pivoted quite successfully to mostly working remotely. As the need to use air travel again approaches, it should be determined if any relevant changes can be suggested to OBFS's travel allowability policy, which currently only assesses the economic need for travel.
- **Next steps:** *Determine how many employees are currently and planning to use air travel for work trips. Assess Section 15 of OBFS Policy to see if environmental considerations can be added to the travel allowability policy.*



Summary

- What are the top priorities? What would you like to see happen by the end of FY21 (June 30, 2021)?
 - Assess the various projects associated with objective #3.4 and develop a prioritization system of completing projects to advance the iCAP objective.
 - Advance the creation of the commuter program listed under objective #3.4.1 and find a transportation team member to assist with program development.
 - Resume progress on objective #3.1 and submit a formal recommendation.
 - Encourage implementation of the newly developed remote and hybrid work policies post COVID.
- General comments for the iWG:
 - The Transportation iCAP team has several ideas that can turn into formal recommendations by the end of FY21 and will work to advance the iCAP objectives that may have been delayed do the the COVID-19 pandemic; Specifically, projects related to reducing travel in single-use vehicles and encouraging active transportation.



Land & Water

- **Objective: 4.2- Implement the Resilient Landscape Strategy recommendations by FY24**
- **Responsible Unit: F&S**
- **Team members** Jamie Ellis, Brent Lewis, grounds
- **Current status:** Team is drafting recommendations for developing the Campus Master Plan and Stormwater Utility Fee
- **Assessment of progress:** Reduced budget and funding concerns during COVID halted progress
- **Next Steps:** Need to develop Campus Landscape Master Plan; Need to identify funding source for stormwater



- **Objective: 4.2.1-** Increase the number of trees on campus by 1500 by FY24 and by 3000 by FY30
- **Responsible Unit:** F&S
- **Team members** Brent Lewis, Grounds
- **Current status:** 16,671 trees according to Tree Inventory as of 10/7/21, a total increase of 179 from reported FY20 data
- **Assessment of progress:** An additional 1,321 trees must be planted by FY24 in order to meet this objective. Planting progress is coming in under target yearly.
- **Next Steps:** The Campus Tree Inventory should be continued. Locations to plant trees, as well as obstacles to planting trees that could explain why figures are coming in under target should be identified.



- **Objective: 4.2.2-** Increase the number of on-the-ground pollinator-friendly landscaping areas on campus by 50% from FY19 baseline by April 2024
- **Responsible Unit:** F&S, CES, NRES, grounds, Bee Campus
- **Team members:** RSOs (Bee Campus-LAS, ect) Jamie Ellis, Arboretum
- **Current status** Some independent pollinator gardens being planted, unsure of larger coordinated effort
- **Assessment of progress:** 30 pollinator-friendly areas reported in FY20, a total increase of 4 from the FY19 baseline. 9 more pollinator-friendly areas must be established to accomplish the objective.
- **Next Steps:** Determine goals and metrics of progress/success; synthesize information about what is being done by different units and RSOs



- **Objective: 4.2.3- Double the number of on-campus green infrastructure installations from 24 to 48 by FY24**
- **Responsible Unit: F&S**
- **Team members** Brent Lewis, Planning and GIS departments
- **Current status** Recommendation to incorporate language into facility standards to emphasize sustainable-design green stormwater infrastructure has been implemented by F&S
- **Assessment of progress:** Landscape Master Plan is simultaneously in progress to include elements of green infrastructure
- **Next Steps:** Update map of known green infrastructure locations by 3/15/22. Stacy Gloss is to attend conference on green infrastructure and erosion control in October 2021 and can present findings to the team.



- **Objective: 4.3- Use cover crops in at least 20% of South Farms acreage by FY24**
- **Responsible Unit: ACES**
- **Team members** Alan Parrish
- **Current status** In December 2020, the SSC approved \$47,472 towards planting cover crops. Animal Sciences and Crop Sciences began planting in late August 2021. Additionally, the South Farms Management Plan has been successfully implemented.
- **Assessment of progress:** The SSC funded project aims to plant 600 acres of seeds over two years. This is a major step towards meeting the objective. An estimate of acreage planted will be available in November.
- **Next Steps:** Use upcoming November report to more accurately assess progress and identify more opportunities for planting.



- **Objective: 4.4- Monitor soil health by collecting soil analyses for all South Farms land parcels by FY24**
- **Responsible Unit: ACES, Crop Sciences**
- **Team members** Alan Parrish
- **Current status** There is not much data populated yet because we need to identify who has collected data in past, what data they have.
- **Assessment of progress:** Coordinating the effort across PI's will improve progress, instead of relying on each PI's independent research.
- **Next Steps:** Identify a funding source to establish baseline data and to support uniform sampling. Encourage past PI's to enter data at some aggregate level that will not interfere with planned publications. Publish graphics and an overall summary of data already in LabCore



Summary

- What are the top priorities? What would you like to see happen by the end of FY22? (June 30, 22)
 - Implementing the Resilient Landscape Strategies is a major priority right now because it has been the majority of the team's discussions in 2021. The team will continue to track and publish metrics, which will guide the team's ongoing priorities. Metrics are lacking for monitoring soil health.

- General comments for the iWG:



Zero Waste

Objective: #5.1 Create sustainable procurement reporting guidelines and increase compliance to 100% of business managers through training and outreach by FY24.

- **Responsible Unit:** *[Purchasing]*
- **Team members:** *Departments that have high volume of purchasers, as defined by Purchasing, would need to be engaged. This includes individual buyers/purchasers within these departments but also the department leadership. Business Managers Group is another key stakeholder.*
- **Current status:** *An Environmentally Preferable Procurement (EPP) Guide is in development by the Purchasing and Contract Management Office, in consultation with F&S, that will be shared amongst business managers during a future Business Manager Group (BMG) meeting. The goal is to release the guide sometime during CY2022. Once developed, the guide will also be available on our campuses Purchasing and Contract Management Office website. Before the guide is finalized, it will be made available for the ZeroWaste Team's review.*
- **iCAP Team's assessment of progress:** *Main goal moving forward is to increase awareness of the iCAP and green purchasing guidelines to BMG, perhaps through a brief survey to business managers to see how they are advising on sustainability currently.*
- **Next steps:** *Once the EEP guide is complete, request an agenda spot from the BMG Chair to explain the importance of EPP and how we can make better sustainable/green decisions while navigating the procurement process. Propose email notifications for procurement guidelines. Conduct brief survey of business managers.*



Sh1 Slide 3 Complete
Shantanu, 10/6/2020

Objective: #5.2 Reduce the total campus waste going to landfills from 5,049 tons in FY19 to 4,544 tons or less in FY24, which is a decrease of at least 10%.

- **Responsible Unit:** [F&S]
- **Team members:** *Operations that manage large generators of waste entering the landfill stream. DIA, Housing, and Dining.*
- **Current status:** *In FY20, the University sent 4,280 tons to landfill, however this 12% decrease was due to changes in campus operation during the national response to the COVID-19 pandemic. In FY21, 4,250 tons were sent to landfill. This is only a decrease of only 0.7% but online classes likely changed the amount of students on campus.*
- **Starting point:** *F&S has begun identifying individual buildings and operations of high generation to implement waste reduction and pretension strategies.*
- **iCAP Team's assessment of progress** (*here do you suggest we start in order to accomplish this objective by the deadline? Are there potential benchmarks for evaluating our progress? Are there any foreseeable challenges?*): *Due to the lasting effects of the pandemic on data, this metric should be regularly compared to data collected pre and post pandemic. Places or processes of high waste generation should be reviewed by its active members along with Zero Waste Coordinator to target solutions for waste reduction.*
- **Next steps** (*what should happen to move this forward?*): *Waste Sort Study determining effect of Multi-stream indoor bin deployment, specialty recycling programs piloted & expanded including PPE mask & plastic bag recycling, campus engagement concerning zero waste and recycling initiatives.*



Sh2 Slide 4 complete
Shantanu, 10/7/2020

Objective: #5.2.1 Install appropriate waste collection infrastructure throughout the University District, with new indoor bins placed in at least 150 buildings by FY24.

- **Responsible Unit:** [F&S]
- **Team members:** *Housing, DIA, Illini Union*
- **Current status:** *As of FY20, 51 building have new indoor bins. As of FY 21, 132 bins have been deployed.*
- **Starting point:** *F&S is ensuring that all new/remodeled buildings will receive the new indoor bins. F&S is working with other units on campus to compile a list of the total bins required for the stated 150 buildings on campus.*
- **iCAP Team's assessment of progress** (*here do you suggest we start in order to accomplish this objective by the deadline? Are there potential benchmarks for evaluating our progress? Are there any foreseeable challenges?*): Including the installed bin count metric will be useful. Bins are limited but many new buildings take priority, limiting the objective of distributing to as many buildings as possible. Bin deployment is limited by end of FY budget. Building walkthrough assessments will be tedious & require significant time.
- **Next steps** (*what should happen to move this forward?*): *Building assessments could be done to reevaluate buildings that have excess of bins to determine if they could be moved to buildings with none. These building assessments can also be used to determine maximum amount of bins needed for individual buildings. Consider this as an avenue moving forward for ZW Coordinator or NRES 285 course*



Slide 33

Sh3 Slide 5 Complete

Shantanu, 10/7/2020

ST1 Are there even 150 buildings on campus?

Sydney Trimble, 10/6/2021

ST2 Many would not necessarily need them

Sydney Trimble, 10/6/2021

Objective: #5.3 Establish a culture of reuse, with two major campuswide zero-waste events using durable goods and composting in FY22, four in FY23, six in FY24, and eight in FY25.

- **Responsible Unit:** [F&S w/Provost Office]
- **Team members:** SSC & iSEE
- **Current status:** *Responsible units may already have available information and/or guidelines to host such events.*
- **Starting point:** *A group of students or members of zero-waste SWATeam interested in zero-waste events will be assembled to make a list of various events that can be held; identify and finalize the events for FY 22-25; develop a metric from an earlier event or based on the information collected from similar events held elsewhere.*
- **iCAP Team's assessment of progress:** *iSEE is hosting a zero-waste event in Fall 2021 (Campus Sustainability Celebration) and plans to reach out to the Chancellor's office or another campus administrative unit to host a zero-waste event in Spring 2022. In Spring 2022 the zero-waste SWATeam will brainstorm potential zero-waste events for FY 23 to meet our four-event minimum.*
- **Next steps:** *Assemble materials in Fall 2021 to pass off to the Chancellor's office/other unit and designate a meeting in Spring 2022 to brainstorm events for FY 23. [Should we also be auditing events?]*



Slide 34

CB1 Is this correct?

Clara Rae Marie Bosak-Schroeder, 10/4/2021

Objective: #5.3.1 Develop a comprehensive Zero Waste messaging campaign by FY21 and achieve a cumulative total of 10,000 “Use the Bin” pledges by FY24.

- **Responsible Unit:** [F&S]; **Team members:** Housing, DIA, Illini Union
- **Current status:** F&S has developed new signage and outreach material and is in the process of increasing the web presence of the recycling and zero waste program.
 - 1) **Use the Bin Campaign:** As of September 27, 2021 at 2:00 PM CST, there are 394.00 Use the Bin Pledges! This has increased since the 125.00 pledge count on February 9, 2021. This has been achieved through online promotional material on the F&S Instagram page, as well as at in-person tabling events at the Welcome Day Event (August 2021) and soon-to-happen Green Quad Day (October 2021).
 - 2) **Dump and Run:** As anticipated in the FA20 Semesterly Report, the Dump and Run collection in the Spring of 2021 did not happen due to COVID-19 restrictions. As a result, there will be no sale in Fall 2021. A scope change has been submitted to SSC to extend the deadline to use Dump and Run's funding until 2022 for a Spring 2022 Collection and Fall 2022 Sale.
 - 3) **Ethics Training:** (Please confirm this project's change in name if possible) Originally, the #5.3.1 objective included an "Ethics Training" project to aid in the Zero Waste messaging campaign. Since then, the project has been renamed to "Sustainability Best Practices Video". Current progress to date with this video includes a [draft schedule](#), including script creation, filming, editing, and launch of the content at the Campus Sustainability Celebration on October 20, 2021.
 - 4) Additional initiatives include "First-year student engagement" to distribute information about campus recycling during first-semester courses and first-year orientation events to instill zero-waste practices in students' daily lives, as well as "Campus Wide Outreach" to strengthen campus's collective approach to zero waste through collaboration with departmental contacts. To my knowledge, both are currently still in the planning and ideation stages.
- **Starting point:** Promote the improved labeling system to educate the public of the proper items that can be recycled and where they are recycled. The take the pledge campaign will be integrated with all recycling promotion to increase awareness to the program.
- **iCAP Team's assessment of progress:** (1) Continue tracking the Use the Bin campaign metrics through the implementation of milestone goals in pledge counts (ex: Having goals to reach 500.00 pledges by the end of December 2021, [X pledges] by February 2022, etc.); (2) Ideate ways to track human behavioral change in terms of understanding of sustainability (ex: Implement "literary and sustainability tests" to assess the education impact through the launched messaging campaign, or other quantitative metrics)
- **Next steps:** Consistent promotion of the Use the Bin campaign through social media, in-person tabling events, and collaboration with other groups on campus; Continue preparing for the 2022 Dump and Run event; Aid in the planning for "First-year student engagement" and "Campus Wide Outreach" to identify ways to create the most impact on the student-base in terms of Zero Waste Messaging



Objective: #5.4 Promote food scraps reduction on campus through a behavior change campaign, and tracking and recovery of surplus food for donation, with at least five new areas tracking and reporting their food waste by FY22.

- **Responsible Unit:** [F&S]
- **Team members:** *Housing Dining Services, Illini Union and various food establishments on campus.*
- **Current status:** *Dining Services tracks food waste through the use of LeanPath 360 in each dining unit and LeanPath Spark at the Ikenberry Dining main door, which displays real-time, post-consumer food waste information. Dining Services regularly makes food donations to local agencies and pantries.*
- **Starting point:** *Determine a centralized means of collecting food waste and donation information for campus. Potentially develop a web portal to connect food pantries with campus entities to facilitate donations.*
- **iCAP Team's assessment of progress:** *Lean Path in each hall to record food waste. Grind to Energy installed at ISR, IKE and FAR. Enviropure at LAR and PAR – to change over to G2E. ISR metrics – slurry was used to generate 8546 kWh of additional electrical power. The remainder of the slurry after extracting the energy yielded 2.7 tons of fertilizer Co2 reduction – by diverting your waste from landfills, you reduced carbon emissions by 32tCO2e.*
- **Food Donations to community from Dining Halls and Housing Food Stores. University Housing Food Initiative.**
- **Next steps :** *LAR and PAR switch to G2E. Create portal to track food donations.*



Slide 36

MO [2]1 I hope Im doing this right :) We can review Wednesday.
Michael Joseph Olinger, 10/5/2021

Objective: #5.5 Develop a detailed comprehensive plan including implementation and operational costs/benefits to sustainably dispose of all food scraps and other organics by FY24, and fully implement the plan by FY33.

- **Responsible Unit:** [F&S]
- **Team members:** *University Housing, Private Certified Housing, all campus entities who operate food services, academic units depending upon the direction taken.*
- **Current status:** *Currently, Housing Dining services is in the process of moving from aerobic digestion to anerobic digestion systems in conjunction with the Urbana- Champaign Sanitary District. This change allows for energy and fertilizer to be recovered from the food waste.*
- **Starting point:** *Update the 2014 feasibility study on anerobic digestion and conduct a second study on large scale composting.*
- **iCAP Team's assessment of progress:** **Switched from enviropure to G2E. Current locations: IKE, ISR and FAR.**
- **Next steps :** *LAR and PAR switch from Enviropure to G2E*



Mike

Objective: #5.6 Increase the use of local food to 35% by FY30.

- **Responsible Unit:** [Housing]
- **Team members:** *Purchasing, University Housing Dining Services*
- **Current status:** *Compliance 30 ILCS 595/ Local Foods, Farms and Jobs Act. Vendor has committed to local sourcing of 20%, within 100 miles of Urbana-Champaign for fy 2020. Currently 25% of product purchased from Illinois vendors within 100 miles.*
- **Starting point:** *Create relationships with suppliers and organizations that are committed to the objectives.*
- **iCAP Team's assessment of progress :** **Prime Vendor, Gordon Food Service "local"** *as a product in which the manufacturer is in Illinois and/or a product in which the primary ingredient is grown locally in Illinois.*
- *95% of all produce grown at the [Sustainable Student Farm](#) is used by Dining Services.*
- *[FSHN Pilot Processing Plant](#) has provided over 2,000 gallons of tomato sauce to the dining halls, made with tomatoes grown at the Sustainable Student Farm.*
- *[Rice grown in southern Illinois](#) is served in all dining halls.*
- *Each year, 600,000 gallons of raw milk produced at the University is processed by [Prairie Farms](#) and used by Dining Services.*
- *90% of all bread served in the dining halls is baked within the state of Illinois.*
- *Partnership with Central Illinois Produce in Urbana, IL to utilize Hydroponic Produce from the Freight Farm.*
- **Next steps:** *TBD*



Mike and Sarah

Objective: #5.6.1 Implement Food Literacy Project by FY24 by tracking carbon, nitrogen, and water footprints for food items in campus dining halls.

- **Responsible Unit:** [Housing]
- **Team members** *Collaboration from housing, iSEE, and 2-3 students potentially from Global Sustainability Scholars class to aid in the calculations.*
- **Current status** *Collected information of possible CO2 footprint food calculators.*
 - <https://www.vegansociety.com/take-action/campaigns/plate-planet/carbon-calculator>
 - <https://ourworldindata.org/food-choice-vs-eating-local>
 - <https://www.greeneatz.com/foods-carbon-footprint.html>
 - <https://science.sciencemag.org/content/360/6392/987>
- **Starting point** *Determine methodology and find the students to participate.*
- **iCAP Team's assessment of progress:** *Start calculating the footprints of Dining menu items using the calculators linked above and determine an effective way to display data with the food. Determining exact footprints of foods with lots of ingredients could be difficult, so maybe display respective footprints as either low, medium, or high to make displaying data easier. Could also include more detailed information on a QR code.*
- **Next steps:** *Pilot program with a small group of students and collect data to determine if consumption of high-footprint foods decreases. Use signs from students in Global Sustainability Scholars class to give students more information while waiting in line. If successful, expand to a dining hall and add information to app. If it is not successful, try to improve data display and possibly provide more educational resources. Could also work with Engagement and Education teams.*



Slide 39

MO [2]2 requesting help with this objective.

Michael Joseph Olinger, 10/5/2021

Objective: #5.7 Establish a green cleaning program that meets LEED v.4 requirements by FY24.

- **Responsible Unit:** [F&S]
- **Team members:** *All units on campus that manage individual Building Services Staff, Illini Union, DIA, Housing.*
- **Current status:** *Several buildings on campus has been transitioning to cleaning processes that meet LEED v4 requirements.*
- **Starting point:** *All new cleaning products and equipment to be purchased will meet the LEED v4 requirements, while process changes are incorporated and training components are evaluated in the coming year.*
- **iCAP Team's assessment of progress:** *Many new buildings on campus (CIF, Sibel, Sidney Lu etc) are already following & transitioning to Green cleaning to meet LEED certification. Modeling after their procedures will be idealistic but accommodation and consideration for the various uses and limitations of other campus buildings will likely have to be made in the short-term.*
- **Next steps:** *Restrictions & requirements to meet certification will need to be intimately reviewed so that training, products & procedures will align with Green Cleaning standards. BSW training will need to be adjusted accordingly and Procurement will have to be brought in to find appropriate product/equipment replacements. Green Cleaning application to other campus buildings should be modeled after the newer buildings on campus and considerations should be made with the respective building supervisors inputs.*



Syd Trimble/ Avery
Maloto/ Aaron Finder

Slide 40

Sh5

Slide Complete.
Shantanu, 10/8/2020

Summary

- What are the top priorities? What would you like to see happen by the end of FY21 (June 30, 2021)?
 - Hire a Zero Waste Coordinator
 - Recommendation to Chancellor's Office to host Zero Waste event
 - Reducing bottled water usage—informational campaign
 - Waste categorization of litter in Boneyard Creek/Green Street—who/what are the biggest polluters?
 - Waste auditing of campus events (tailgating/football games, Quad Day, Spring Jam, graduation)
 - Group of iCAP Team members can ideate events to meet objective 5.3
 - Clean Plate program—team discussion on this
 - Creating clearer metrics to assess green cleaning program
 - Assess number of bins/building or conduct building assessments
 - Create portal to track food wastage
- General comments for the iWG: *No Comment.*



Education

- **Objective: 6.1- Broaden the availability of sustainability education across the entire curriculum, beginning with first-year student orientation and continuing through commencement with at least one of four proposed methods implemented by FY24**
- **Responsible Unit: iSEE**
- **Team members** : ISG's subcommittee on sustainability
- **Current status** : Supporting students' pursuit of getting a general education requirement instituted. Meetings with college deans and the generation of a report that identifies existing University-wide capacity for sustainability education (and lessons learned from other institutions)
- **Assessment of progress:** Proposals of this scale are difficult to pass. The ISG is taking the right steps to strengthen the proposal and give it the best chance of being passed. The team must also continue to work on the other three proposed methods to accomplish this objective.
- **Next steps:** Follow up with Jessica Nicholson about meetings with deans. Check-in with Matt Rodriguez about report's progress. The report will also help identify areas of campus that are lacking in sustainability education.



- **Objective: 6.2- Establish a comprehensive on-line repository for courses and academic programs with sustainability content**
- **Responsible Unit: iSEE**
- **Team members** Eric Green - Academic Instructor/Advisor for iSEE
- **Current status** A spreadsheet is hosted on the iSEE website that designates all courses related to the following topics: resilience, green, water, land, energy, solar, wind, geothermal, nature, pollution, waste, transportation, “sustain-”, and “environ-”
- **Assessment of progress:** Complete, ongoing
- **Next Steps:** Eric Green will continue to update the spreadsheet every semester when the course catalog is released



- **Objective: 6.3- Launch an undergraduate Environmental Leadership Program that includes two week-long residential intensives, pre-professional workshops, visiting speakers, and field trips to Springfield and Washington, DC**
- **Responsible Unit: iSEE**
- **Team members** : Luis Rodriguez, Eric Green, Paul Gharzouzi
- **Current status:** Program development (including invitations to professional speakers) is underway and registration for a spring event will be on October 5. Coordination of visits with local and state legislators is underway for March 14-18
- **Assessment of progress:** The program is continuously growing. It is not fully fledged yet as it does not include the trips to Washington, DC. However, there are plans to incorporate that for the Spring 2023 version of the program.
- **Next Steps:** The success of the Spring 2022 version of the program will be assessed.



- **Objective: 6.4-** Develop a sustainability internship program through partnering with businesses, nonprofits, local government, and cultural institutions in Central Illinois. The total number of internships awarded will be reported each year.
- **Responsible Unit:** iSEE
- **Team members:** Eric Green, Carissa Mysliwec
- **Current status:** Carissa investigated other institutions' programs to understand typical processes that were used. She also began investigating local opportunities. She presented her findings to the team and sent all relevant information to Eric Green.
- **Assessment of progress:** There is currently no one person specifically responsible for this within their role. Identifying a person or creating a role to manage the program on an on-going basis would improve progress.
- **Next Steps:** Team needs to identify what internships and organizations we should try to develop a relationship with.



- **Objective: 6.5- Partner with the Career Center and potentially other career offices in FY22 to help students explore and discover career opportunities that are connected to professional interests and goals related to sustainability. Incorporate a sustainability component at a minimum of two events beginning FY22.**
- **Responsible Unit: Career Center and iSEE**
- **Team members :** Eric Green, Paul Gharzouzi
- **Current status:** iSEE held a Green Career Fair as part of the Environmental Leadership Program in SP 21. The Career Center did some professional development consultation prior to the fair. 10 companies interviewed with students. A sustainable careers panel was held as part of a more general career fair.
- **Assessment of progress:** This objective is on track for completion given that one event has taken place as of Spring 2021. The team could possibly collaborate with Engineering Career Services to host a second event in Spring 2022.
- **Next Steps:** Team needs to identify the criteria used for qualifying positions or companies to constitute a green career fair. The Career Center should be engaged on how to get a wider audience in terms of students and companies.



- **Objective: 6.6- Offer a new graduate certificate in sustainability by FY24**
- **Responsible Unit: iSEE**
- **Team members:** Graduate college
- **Current status** No progress has been made on this objective
- **Assessment of progress:** The process to propose a certificate has just been established by the graduate college, which takes about nine months to complete. Therefore, a proposal must be created during FY23 at the latest in order to accomplish this objective on time.
- **Next Steps:** Investigate other institutions programs and identify internal certificates. Begin process to have certificate transcriptable. Identify a unit that would like to develop the certificate. Identify 400 and 500 level courses that would be included in the certificate proposal.



Summary

- What are the top priorities? What would you like to see happen by the end of FY21 (June 30, 2021)?
 - Continue to work with Career Center in the development of Green Career Fair. Help support student efforts for the establishment of a sustainability general education requirement. Begin developing Graduate-level certificate. Continue progress on all four of the methods to accomplish objective 6.1, in addition to the sustainability general education requirement proposal.
- General comments for the iWG:
 - The team would like some guidance or support on objective 6.6 because we are essentially starting from scratch.



Engagement

- **Objective:** 7.1 Enhance the overall culture of sustainability on campus, and increase the number of certifications issued through the Certified Greener Campus Program by 20% each year from FY20 to FY24.
- **Responsible Unit:** [iSEE] iSEE Certified Greener Campus Team
- **Team members:** SEE/iSEE intern, F&S (to answer building-related questions/infrastructure), College buildings including: ACES, NRES, FAA, LAS. Public Affairs, Past CGOP certificate holders.
- **Current status:**
 - Certified Green Office Program (GCOP) and Chapter Program is launched, need to expand to labs, RSOs (post-Covid), events, communication/messaging/outreach through iSEE newsletter and sustainability ethics training.
 - 3 certified green offices from September-December 2020; 7 certified green chapters; 28 certified green events
- **iCAP Team's assessment of progress:**
 - Expand options for Green RSOs, Green Greek Chapters, and Green Labs.
 - Increase awareness through branded videos, digital signage, and other marketing materials.
 - Simplify renewal process for offices to recertify annually or increase efforts to move from bronze, silver, and gold. Reach out to units from the past to encourage recertification and ask them to challenge/nominate another department to certify as a (CGOP)
- **Next steps:**
 - Disseminate monthly progress reports emphasizing strategies implemented through the CGOP and linking these efforts to the iCAP objectives. Differentiate between different certifications on metrics portal between chapters, RSO's, events, offices, and labs.
 - Contact Public Affairs to create branded videos, digital signage, and other marketing materials.
 - Contact past CGOP to share recertification process and instructions for challenging/nominating a new office to join. Possibly create a form letter for certified teams to use to encourage another office to join.
 - Create portals on website with instructions for Green RSO's and Green labs to certify.



Colleen Kling and Kathy
Adams

- **Objective:** 7.2 The Illini Union and Illini Union Board commit to 80% of their events qualifying as sustainable by FY24.
- **Responsible Unit:** [Illini Union] - See attachment of tiered initiatives
- **Team members:** IU Board/IU Board Program Council/IU Board VP of Policy/SPOC, iSEE, Dept. Of Recreation, Sport, Tourism
- **Current status:** David Guth initiated conversation with IU Board and Meredith Moore regarding next steps to modify the current ISEE Sustainable Event database so that IU Board Executives and advisors can self-certify. These modifications to the front end of the database are expected to complete by the end of FY22. The IU Board Program Council will incorporate ISEE's sustainability metrics into the existing event planning procedure by the end of FY22, and the VP of Finance was assigned oversight of post event assessment of Sustainability metrics at the start of their term (May 2021 -). The FY21 assessment was completed on 5/7/21 by the IU Board President and VP of Finance, supported by an IU Board Program Advisor. In FY21, IU Board events yielded 83.5% success rate in meeting 5 or more ISEE criteria for Sustainable events (76 out of 91 total events).
- **Assessment of progress:** IU Board and Illini Union Green Team will evaluate opportunities to incrementally improve the number and quality of Sustainable events within the Illini Union, as the FY24 goal has eclipsed three years ahead of schedule.
- **Next steps:** Complete all database mods in FY22; retroactively assess all FY20 event data for Illini Union, document all progress as with FY21, and plan for large Sustainability events in Spring 2022 (Illini Union Waste Diversion analysis and Earth Week 2022 partnership with SSC).



- **Objective:** 7.3 Increase visibility of campus sustainability efforts by joining the Green Sports Alliance through the Division of Intercollegiate Athletics (DIA) by summer 2021.
- **Responsible Unit:** DIA
- **Team members:** F&S; iSEE; Champaign County Stormwater Partnership (CSP), SSLC
- **Current status:** DIA has not yet committed to membership in GSA, but F&S has established an early relationship with the Green Sports Alliance through a GSA Summit inquiry, which led to GSA scheduling an appearance at a CSP conference in October 2021. F&S is now a GSA member and can leverage that relationship to engage DIA directly.
- **iCAP Team's assessment of progress:** This task has not been accomplished, and deadline should be moved to summer 2022. The sole benchmark for progress is DIA membership in GSA, and ongoing challenge has been to demonstrate value of membership to DIA.
- **Next steps:** F&S should continue to engage with GSA and seek opportunities during Q1-2 2022 to invite DIA into discussions regarding membership impact. Additional DIA encouragement through community organizations (CSP) and student environmental leadership (SSLC) will also build momentum for DIA to seek membership. By Q2, GSA partners should launch public campaign to demonstrate benefits of membership through social media, news releases, and GSA-oriented activities, inviting DIA participation. Focused meetings between DIA, F&S, and iSEE should be scheduled through Sp22 to provide testimonials for demonstrated value of membership. Explore joint benefit between F&S and DIA?



Ann Witmer and Sonali
Kumar

- **Objective:** 7.4 Incorporate sustainability-related problem solving in the GivePulse system for public engagement, and track local collaborations for sustainable solutions. Increase local collaborations by 10% per year from FY22 to FY24.
- **Responsible Unit:** iSEE
- **Team members:** Lots of potential collaborators to choose from, including Vice Chancellor of Student Affairs, Academic Programs and Education, iSEE, local CU public schools, Extension, and more!
- **Current status:** iSEE GivePulse channel has been created, but no events have been posted through this channel. Discussions last year revolved around volunteering at the Red Oak Rain Garden, but the team was not prepared to post these opportunities.
- **iCAP Team's assessment of progress:** The Give Pulse channel provides publicly-available metrics of "impacts," "hours," and "people" which will be useful to assess our progress moving forward. It seems that our main challenge moving forward is to conglomerate sustainability volunteering opportunities through this pathway. Incorporating iSEE-sponsored events on this channel and promoting the channel through iSEE newsletters could be an effective path moving forward.
- **Next steps:** Recommend that volunteering events on the iSEE calendar be posted to the GivePulse channel (communicate with Tony Manusco). Once a couple of events have been posted, release a notification through the iSEE newsletter/iNews to encourage more people to contribute to this platform. Also could send out an email to Green Quad Day participants!



Keilin Jahnke and Kavya

Mult

- **Objective:** 7.5 Support programs to develop love of nature and sustainability among children, with an annual Youth Sustainability Summit led by local teenagers with guidance and mentoring from campus and community sustainability leaders.
- **Responsible Unit:** [Extension]
- **Team members:** The Independent Media Center, the Urbana Parks District, and the WFRU were working with them to develop the [2020 Youth Sustainability Summit](#). In past events, iSEE, Students for Environmental Concerns, iMatter, and the City of Urbana were all sponsors, and could be beneficial to the event again.
- **Current status:** There was a Summit in 2018, and another one planned for 2020 which was unfortunately rescheduled due to COVID-19. The students in charge of the Summit meet virtually every Wednesday from 4-5pm, and are currently working with WFRU on a podcast highlighting local youth sustainability leaders while they wait to reschedule their event.
- **iCAP Team's assessment of progress:**
 - Visit local schools to present on sustainability topics. We want to provide opportunities for Illinois students to serve as peer educators in the community.
 - Booker T Washington STEM Academy – Jamie Roundtree
 - Educational opportunities outside the classroom are the third key component to achieving this objective. More so than simply providing local youth with information, we will offer rich and interactive educational experiences: for example, a “Composting 101” event, or an interactive workshop on reusing glass bottles as planters. We will support these programs by crafting marketing campaigns, incentivizing participation, and gathering information to measure success and identify areas for improvement.
- **Next steps** (*what should happen to move this forward?*):
 - 9/29/2021 - Morgan White connected me with Stacy Gloss (Manager for Special Research Projects and Programs @ Grainger College of Engineering Indoor Climate Research and Training) and Chelsea Prah (Environmental Education Coordinator @ Urbana Park District).
 - 9/30/2021 - I followed up with Stacy and Chelsea to schedule a meeting. I am currently waiting for a reply.
 - 10/4/2021 - I emailed cu.youth.sustainability@gmail.com to see if I could meet with a team member.
 - Could rope in Barbara Hug (Professor, STEM Curriculum and Instruction @ College of Education).
 - Direct SSC initiative?
 - SSC Funded Project via College of Education?

- **Objective:** 7.6 Update the iCAP Portal on a monthly basis to report progress toward iCAP objectives.
- **Responsible Unit:** iSEE
- **Team members:** Meredith Moore (iCAP coordinator), Tony Mancuso (website manager), F&S (Morgan White), SWATeam Clerks
- **Current status:** Conducted a kickoff meeting with iCAP Team Clerks and program/website staff to establish protocol for submitting and publishing updates. ICAP Portal users has increased to 16,759 users from 2,512 in FY 2013.
- **iCAP Team's assessment of progress:** Needs more clarification on who is delegated the responsibility of updating the iCAP portal. Can evaluate progress by keeping track of the number of users, as well as the number of websites that the portal is embedded in. Need to figure out what audience(s) is visiting the portal, and what constitutes a "user". Regularly scheduled updates on iCAP progress (possibly through newsletter) – originally mentioned on iCAP portal - Who is delegated this responsibility?
- **Next steps:** Reaching out to more campus websites about embedding the iCAP portal in their website. Making sure that we specify where the website should be embedded so it is easily accessible/viewable. Providing a platform for researchers to post updates on their research and published papers. Update links to Student Groups – most don't exist anymore or haven't been updated in a while. There are also more applicable groups that aren't listed. Giving them a platform to share updates on the portal by allowing each of them to have their own page. Create a combined schedule of all sustainability related events/RSO meetings that can easily be added to students' Google or Outlook Calendars. ICAP Portal How-To Video. Set a goal for a date for when iCAP Progress regularly scheduled newsletter/updates will begin.



Summary

- What are the top priorities? What would you like to see happen by the end of FY21 (June 30, 2021)?
 - Broadly speaking, we seek to promote and publicize iCAP, iSEE, and student sustainability to the campus community through a variety of platforms and outlets, including social media, news reports, and word of mouth to generate at least one widely distributed sustainability event or activity per month. Additionally, we hope to connect the individual efforts toward sustainability on campus and promote broad overview of those efforts and initiatives through consistent communication on the university's home webpage. Lastly, we would like to foster connections between university students and local K-12 students. Some of our specific priorities include:
 - Increasing visibility of iCAP and sustainability programming on campus
 - Getting iCAP Portal linked on Illinois Homepage
 - Encouraging Gies and Grainger Colleges to create sustainability sections of their websites with links to iCAP Portal
 - Focusing on technology to inform our engagement efforts
 - Increasing our efforts to engage diverse groups of individuals, both on and off campus
 - Create a CGOP Challenge Program
 - Contacting Public Affairs regarding marketing materials for CGOP
 - ICAP Portal enhanced analytic tracking
 - GSA Recommendation to DIA (by end of AY)
- General comments for the iWG:
 - If we could send out an email to Green Quad Day organizations regarding the GivePulse channel, which we are hoping to increase usage of, that would be great! Not sure if this should be a formal recommendation but thought we would propose the idea!



Resilience

- **Objective:** #8.1 Urban Biodiversity Master Plan: Develop a coordinated urban biodiversity master plan by FY24 to make the Champaign, Urbana, Savoy, and campus metro area a model for biodiversity.
- **Responsible Unit:** [Extension with F&S support]
- **Team members:** Lisa Merrifield, Erin Harper, Gabriel Harper-Hagen, and Ryan Pankau, University of Illinois Extension
- **Current status:** Background information (a review of comprehensive plans and communities websites and other reports) has been collected and plans for key informant interviews have been finalized. Stakeholders include people at cities, developers, business owners, master gardeners/master naturalists, campus contacts – faculty, facilities, and student groups. The project is using a snowball sampling approach to discover other stakeholders to speak to.
- **iCAP Team's assessment of progress:** funded & on-track, has administrative and staff support. Be cautious that this isn't a typical plan, but is interactive with students and faculty.
- **Next steps:** In the process of hiring a student hourly. Will begin conducting key informant interviews and surveys around January. 2022



- **Objective:** #8.2 Coordinated Rainwater Management: Coordinate rainwater management plans for entire urbanized areas campus, Urbana, Champaign, & Savoy. In FY 21 begin sharing total number of green infrastructure locations on iCAP Portal annually.
- **Responsible Unit:** [F&S and U of I Extension]
- **Team members:** Landscape Architect Brent Lewis, Safety & Compliance Coordinator Betsy Liggett, Lisa Merrifield Extension, Frank Colacicco (F&S stormwater infrastructure), Eliana Brown at Extension
- **Current status:** Stacy met with Brent and Betsy in September 2021. Discussions are in initial phases; coordinated rainwater management plans do not yet exist
- **iCAP Team's assessment of progress:** This objective is in initiation stage, identifying partners who will participate in coordinated rainwater management plans for campus and identify who will lead the coordination. We need to talk with Champaign County Stormwater Partnership representatives for Champaign, Urbana, and Savoy. Include faculty and students, educate students on planning and actions. To lead by example, campus needs a rainwater master plan as a benchmark for surrounding Urban areas.
- **Next steps:** 1) Identify a team to work with Brent Lewis on how to best represent green infrastructure locations (via map, lists, or other means) on the iCAP portal. 2) Review existing Rainwater Management Plans 3) Resilience team to recommend campus to initiate an engineered rainwater master plan.



- **Objective:** #8.3 Environmental Justice Plan: Develop a collaborative plan for environmental justice that will assess metro area resilience and actively address related issues. The plan will be written and publicized by FY24
- **Responsible Unit:** [iSEE]
- **Team members:** iSEE, Meredith Moore, Stacy Gloss, Kaamilyah Abdullah-Span (Office of Diversity, Equity & Access), and associated team members
- **Current status:** In Summer 2021 Kimmy Chuang summarized her work on Environmental Justice Planning. The EJ Plan Summer 2021 Summary and related reports are on the iCAP portal. This project is in an information gathering & planning phase
- **iCAP Team's assessment of progress:** This project needs a lot of careful thought and consideration before launch. Participation and partnership from cities, private sector organizations & community organizations is key. Expectations of outcomes need to be clear from the beginning.
- **Next steps:** 1. Identify University of Illinois resources, potential funding & any limitations and known barriers/boundaries. 2. Develop a plan proposal including budgetary considerations for community engagement and participation in focus groups, individual interviews, surveys, participatory workshops to inform EJ Plan, and writing the plan itself.



- **Objective:** #8.4 Local Sustainability Issues – take leadership in addressing the most pressing sustainability challenges in our local communities through collaboration with local governments and related community groups.
- **Responsible Unit:** [iSEE]
- **Team members:** Ximing Cai, Scott Tess, Lacey Rains Lowe, Nichole Millage, Dennis Donaldson
- **Current status:** early phases
- **iCAP Team's assessment of progress:** Identify cross-team activities related to working together with other icap teams. Make sure that voices are heard from community groups as well, community groups must be part of the table when identifying sustainability topics to work on in addition to city leadership.
- **Next steps:** Resilience team to review and prioritize sustainability issues that campus can take action on and identify leadership.



- **Objective:** #8.5 Inventory Green Jobs: By FY23, collaborate with colleges and community groups to inventory existing certification opportunities for green jobs and identify gaps.
- **Responsible Unit:** [iSEE]
- **Team members:** iSEE, Eric Green, UIUC Career Center, Stacy Gloss
- **Current status:** beginning
- **iCAP Team's assessment of progress:**
- **Next steps:** Review of student research on green job opportunities; provide inventory content to iSEE communications team by 1/31/22; update iCAP portal inventory page with link to iSEE page by 3/15/22. Identify 5 certification programs and 5 resources (e.g. talk to career center, AASHE newsletter, talk to library about magazines in your field)



- **Objective:** #8.6 Support Vision Zero.
- **Responsible Unit:** [F&S]
- **Team members:** F&S Transportation Demand Management office Stacey DeLorenzo & Sarthak Prasad, Campus Transportation Advisory Committee (CTAC), Dr. Rahim Benekoha, partners with Urbana BPAC, CUUATS
- **Current status:** A Vision Zero study and report was provided by Dr. Rahim Benekoha and Ph.D. Candidate Jacob Mathew in Fall 2020. Urbana passed a Vision Zero resolution in 2020 as recommended by Bicycle and Pedestrian Advisory Commission. Transportation Demand Management office staff participate on BPAC and CUUATS and CTAC.
- **iCAP Team's assessment of progress:** On track. Campus should adopt a Vision Zero strategy. There appears to be some confusion around whether or not campus can formally adopt Vision Zero.
- **Next steps:** Set up a meeting with Vision Zero to explore a sole campus designation or Metropolitan Planning Organization MPO for the County designation through CUUATS (if this hasn't been done already). Stacy Gloss & Sarthak Prasad to facilitate a white paper on key steps needed by 11/15/21.



- **Objective:** #8.7 Develop Local Carbon Offsets Program by FY24.
- **Responsible Unit:** [iSEE]
- **Team members:** iSEE, Meredith Moore, Eric Green's students in sustainability minor
- **Current status:** Research on carbon offsets and local offsets is in progress.
- **iCAP Team's assessment of progress:** Early phase development. We said we would do this 10 years ago, but haven't figure out how. Stop kicking this down the road.
- **Next steps:** Identify which administrative unit / leadership unit on campus has to be involved (provosts office/chancellors office?). A literature review of local offset programs would provide needed background information on developing a white paper proposing initial steps for initiating this program by 1/31/22.



Summary

- **What are the top priorities? What would you like to see happen by the end of FY22 (June 30, 2022)?**
 - Meredith Moore recommends prioritizing the EJ plan and local carbon offsets program.
 - Scott Tess and Lacey Rains vote to make progress on the biodiversity plan and the EJ plan.
 - Constance votes for Biodiversity Plan, start carving out a focus for the Environmental Justice Plan and complete mapping of Green Infrastructure as it's straightforward.
 - Anne Tong votes for biodiversity plan and rainwater management
- **General comments or questions on iCAP:**
 - It's time to figure out how to invest in our local sustainability initiatives!
 - Constance said, "I think the Green Building Map is straightforward and if we collaborate with the other themes to give the Greeness a designation, such as Rainwater, Building Material, water, energy.....etc. I think this can have high utility for many purposes."
 - As of 10/5 the resilience committee is exploring a language change from Stormwater Management / Green Infrastructure to Sustainable Urban Drainage Systems which would remove confusion about the general term Green Infrastructure.
 - Warran says, "By the end of FY22, I would like to see universal commitment to sustainability including the end of the COVID pandemic, justice for all, elimination of hunger and poverty, world peace, net zero emissions, and conservation of ecosystems (not necessarily in that order of priority)."

