

SUSTAINABILITY COUNCIL

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Environment
University of Illinois at Urbana-Champaign
November 20, 2019



INSTITUTE FOR SUSTAINABILITY, ENERGY, AND ENVIRONMENT



2019-20 SUSTAINABILITY COUNCIL

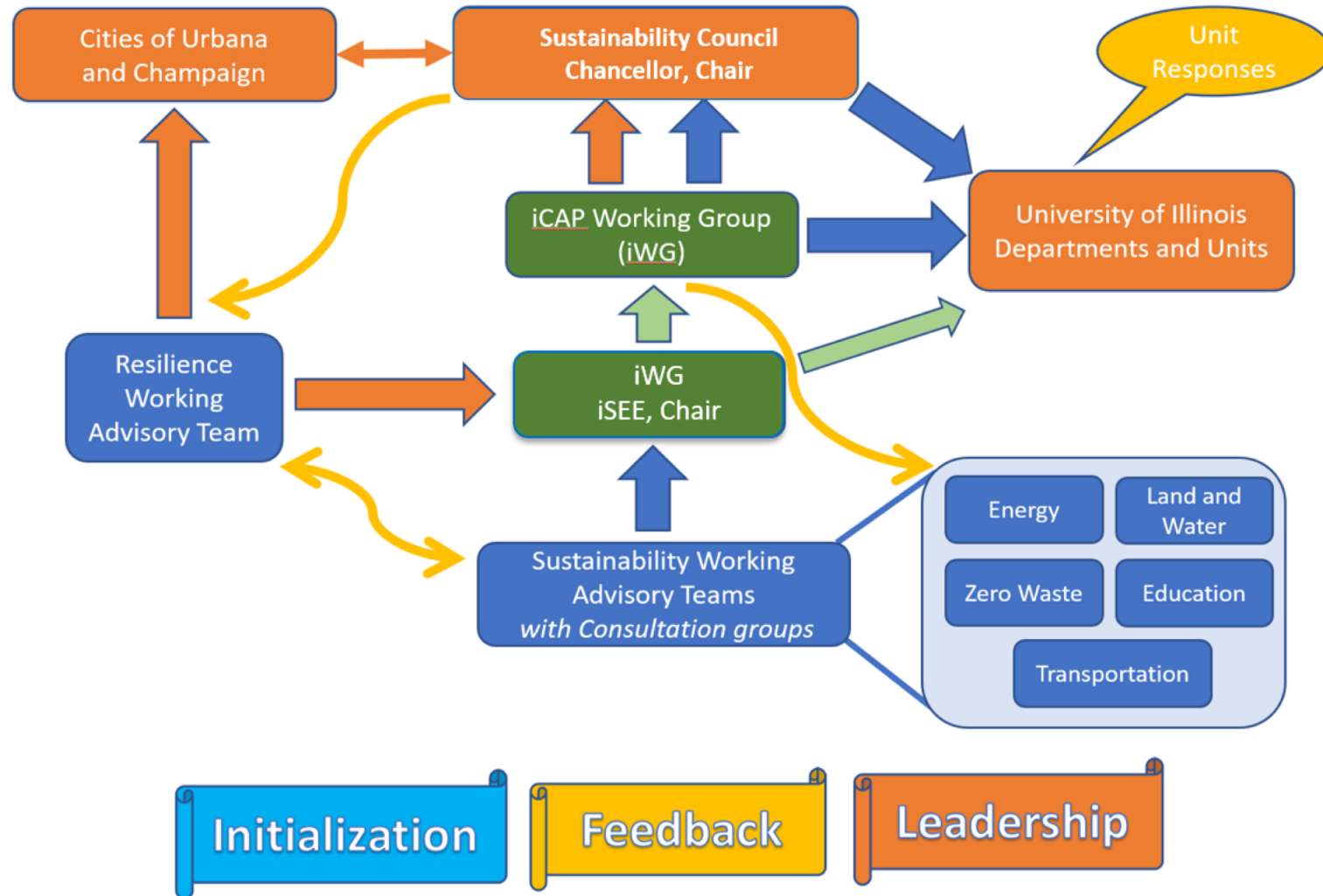
- **Chair:** Robert J. Jones, Chancellor, University of Illinois at Urbana-Champaign
- **Vice Chair:** Evan H. DeLucia, Baum Family Director of iSEE
- Andreas Cangellaris, Vice Chancellor for Academic Affairs and Provost
- Barry Benson, Senior Vice President for Development
- Danita Young, Vice Chancellor for Student Affairs
- Susan Martinis, Vice Chancellor for Research
- James Dean Anderson, Dean, College of Education
- Rashid Bashir, Dean, College of Engineering
- Kim Kidwell, Dean, College of Agricultural, Consumer, and Environmental Sciences
- Feng Sheng Hu, Dean, College of Liberal Arts & Sciences
- Mohamed Attalla, Executive Director, Facilities & Services
- Robin Kar, Chair, Senate Executive Committee
- Matthew Tomaszewski, Associate Provost for Capital Planning
- Connor Josellis, President, Illinois Student Government (ISG)
- Joe Edwards, Graduate Student, Chair of the Student Sustainability Committee (SSC)
- Jonah Messinger, Co-Chair, Student Sustainability Leadership Council (SSLC)
- Joey Kreiling, Co-Chair, Student Sustainability Leadership Council (SSLC)
- **Non-voting attendee:** Ximing Cai, iSEE Associate Director for Campus Sustainability and Co-Chair of the iCAP Working Group; Morgan White, Associate Director of Facilities & Services (F&S), Sustainability, and Co-Chair of the iCAP Working Group; Sarah G. Gediman, Vice-Chair, Student Sustainability Council”
- **Secretary:** Jenny Kokini, iSEE Managing Director
- **Invited Participants:** Professor Scott Willenbrock

AGENDA

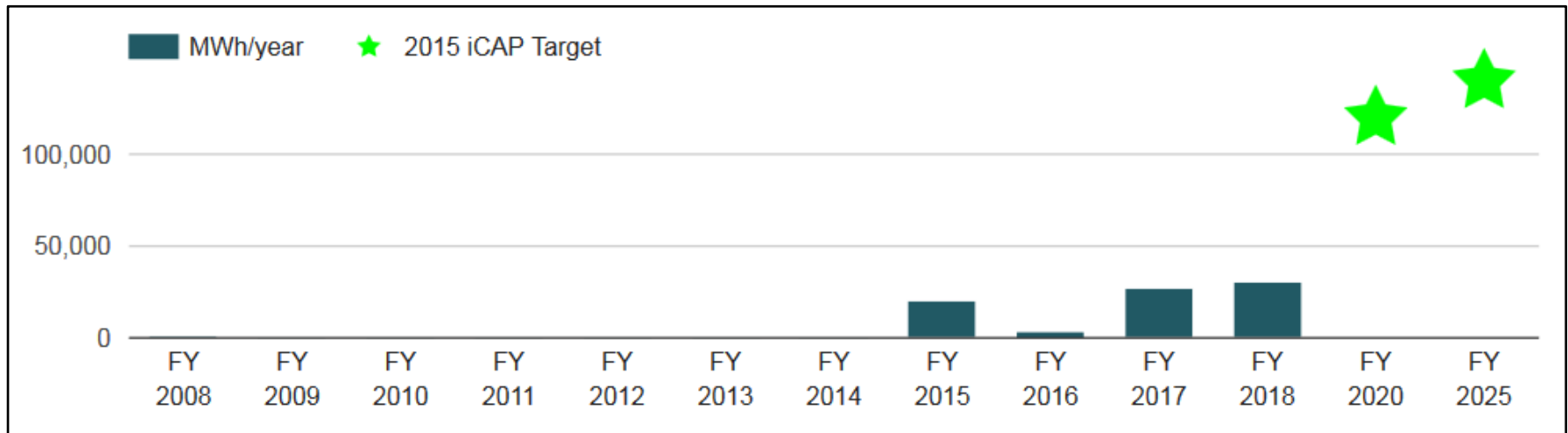
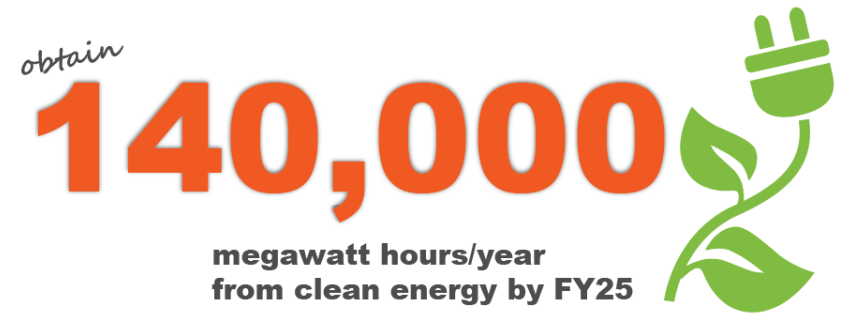
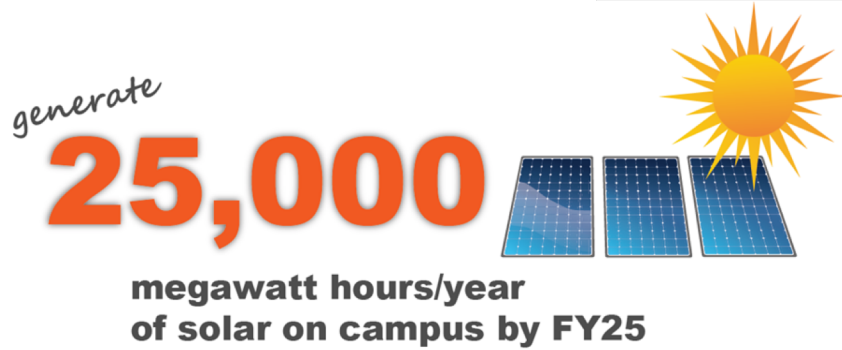
1. iCAP 2020 Progress
 - a. New SWATeams, including Resilience
 - b. Public Input progress and plans
 - c. Approval Timeline – actionable in April 2020
2. Reaching 140,000 MWh/year objective
 - a. Solar Farm 2.0
 - b. Solar Farm 3.0 – actionable in January 2020
3. Ethics Training proposal – for approval

iCAP 2020

- **New SWATeams, including Resilience**
- **Public Input progress and plans**
 - SWATeams, students, and public are providing input and ideas to the iCAP Working Group for iCAP 2020
- **Approval Timeline**
 - Winter 2019-2020: iSEE will draft iCAP 2020 v.1
 - Spring 2020: Stakeholder Review and Input
 - April 2020: Sustainability Council review of semi-final draft
 - Summer 2020: Review and approval by Administration
 - September 2020: Official Signing of iCAP 2020

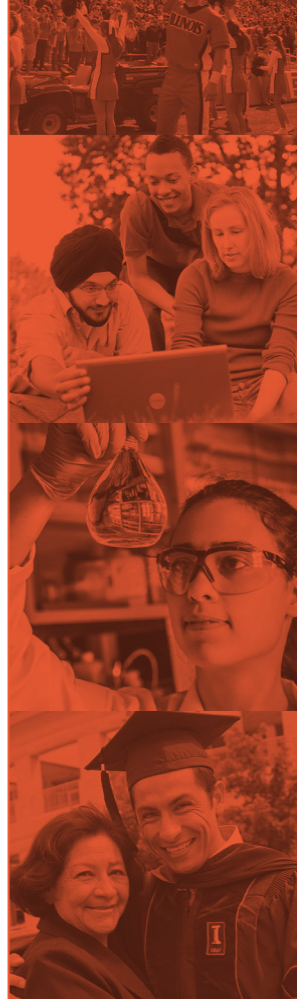
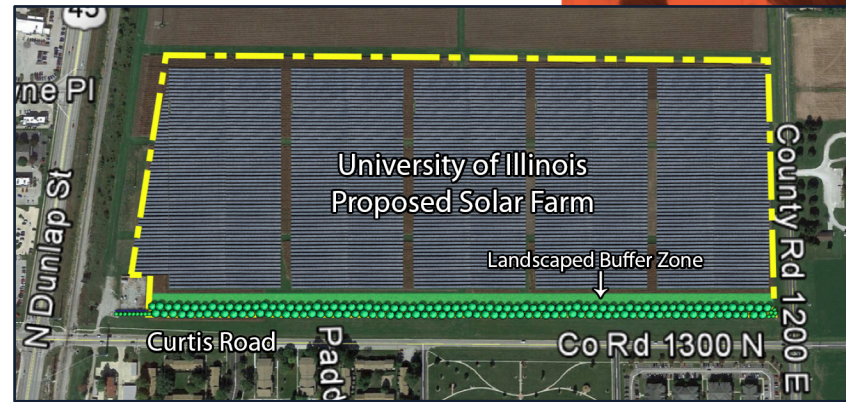


2015 iCAP Clean Energy Goals



Solar Farm 2.0

- Power Purchase Agreement (PPA)
 - \$49.55 per MWh
 - pricing locked in for 20 years
 - no escalation and no transmission and distribution costs
 - Anticipated savings of \$300,000 in first year of PPA
- Fall 2019: BOT approval on 9-19-19
 - Agreements being signed
 - Access License Agreement approved
 - Sol Systems completed site-investigations 11/14/19
- Winter 2020: Anticipated Commercial Operation Date



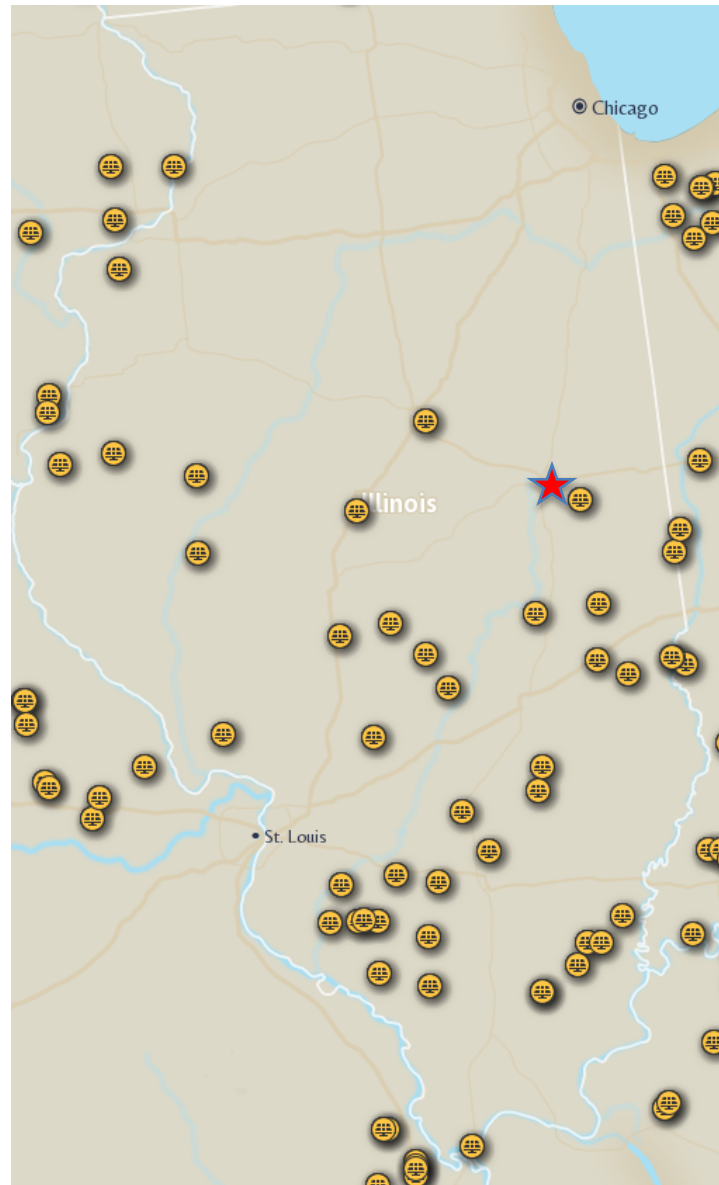
How do we meet our iCAP goals?

We need to go big!

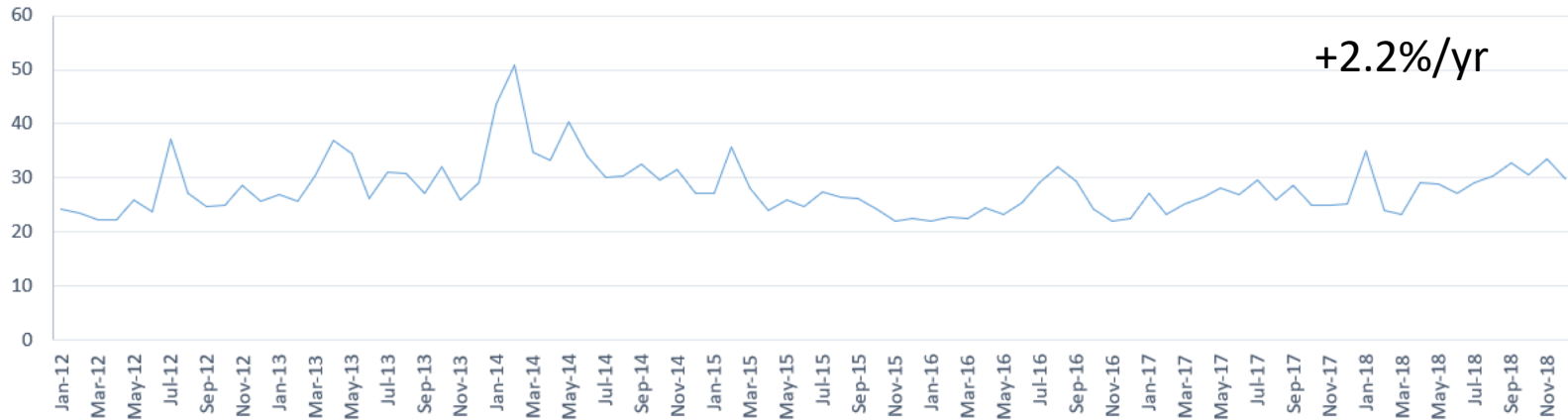
Off campus solar is one path forward.

At the request of the UI Comptroller, F&S has engaged a consultant to evaluate possible policy and financial issues. The report will be submitted in January 2020.

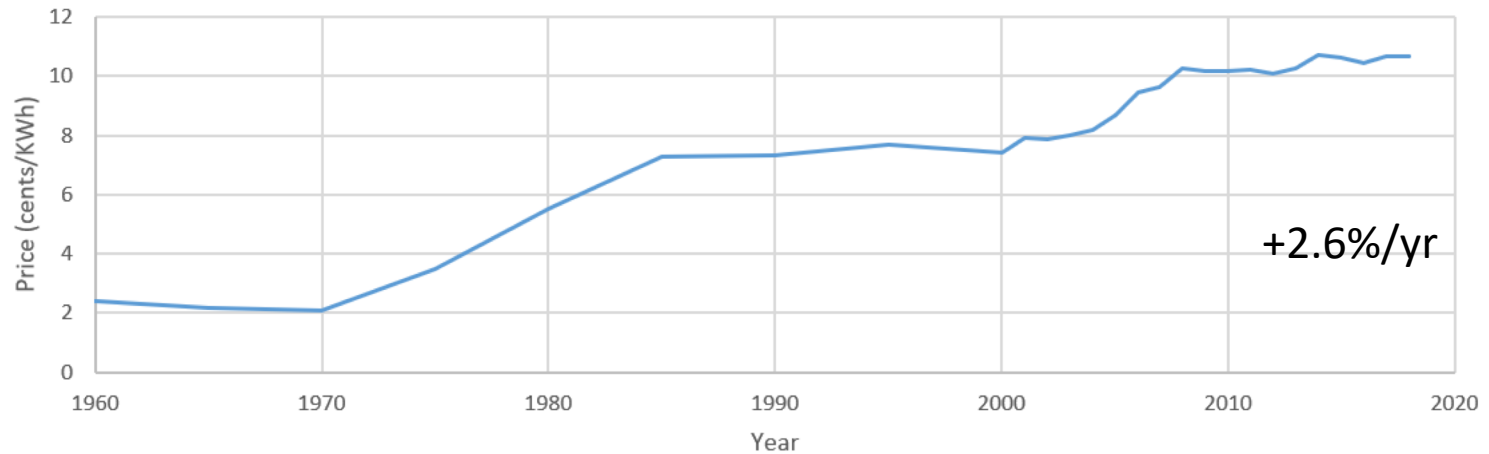
Solar Farms Under Development



Average Price of Electricity 2012-2018



Average Price of Commercial Electricity (cents/KWh)



University Solar Farms

On-Campus Solar Farms

- **Illinois (SF 1+2)** **18 MW**
- UC Davis 16.3 MW
- Colorado State 5.3 MW
- Princeton 5.3 MW

Off-Campus Solar Farms

- Stanford 155 MW
- UC System 80 MW
- MIT/BMC 60 MW
- **Illinois (proposed)** **60 MW**
- George Washington 53 MW
- Georgetown 32 MW

Recommendation

Complete review with external consultant in January 2020

Review with Chancellor, Provost, and Comptroller in January

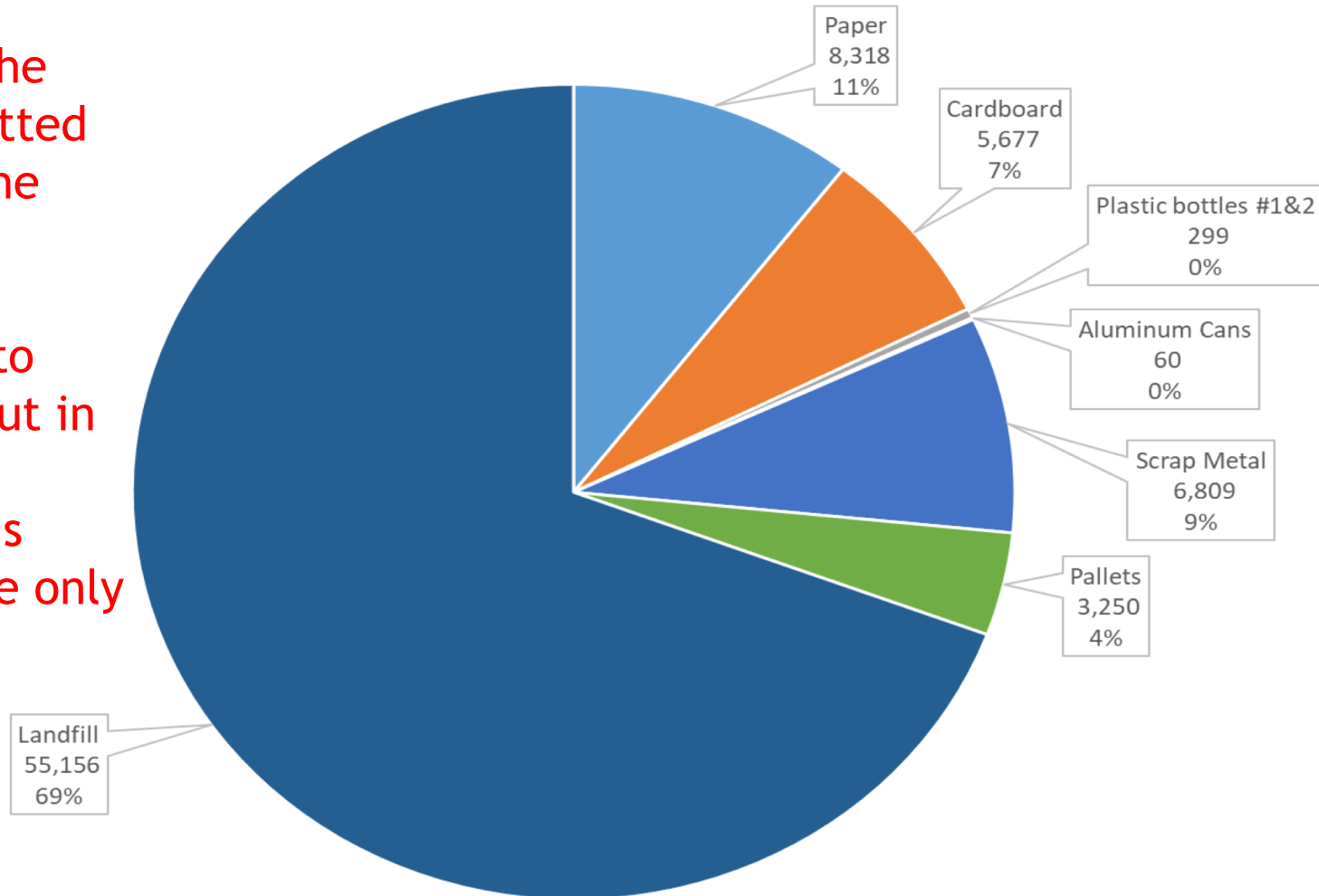
If the results of the analysis are favorable, move forward with a RFP for 90,000 MWh/yr renewable energy

Place proposal before BOT in March

Commodities Collected

Waste Collection by Weight - Ten Year Results (in total tons and %)

In iCAP 2015, the campus committed to increasing the municipal solid waste (MSW) diversion rate to 45% by 2020, but in 2019, the MSW diversion rate is estimated to be only 26%!



The consequence of poor education about recycling and too few bins on campus...



Patterson (F&S) giving a tour.

Part of the solution – change behavior

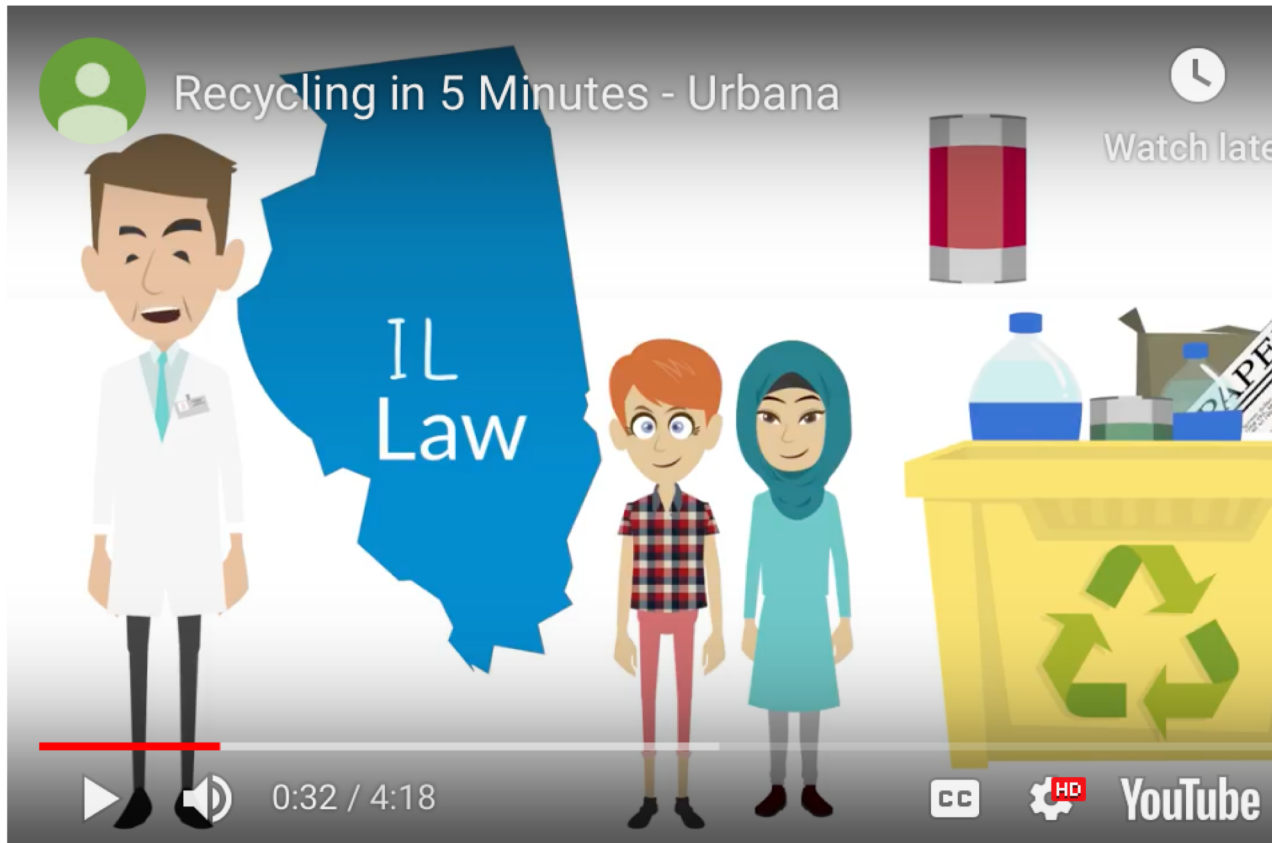
From the Zero Waste SWATeam:

- The SWATeam kindly requests that iSEE work with the UI Ethics Office to prepare videos and/or information for sustainability training for UIUC students, staff, and faculty.
- In the case of university employees who do their mandatory annual ethics training, optional additional short videos at the end of the mandatory annual training is one possibility for increasing sustainability awareness.
- These videos would be designed to be effective and revealing, e.g., showing a video of the daily waste generated on campus at the UIUC waste transfer station being one of many options to increase student awareness of the magnitude of the campus waste problem.

From the iCAP Working Group:

- Council: We would like to **pilot this as an optional addendum to the annual Ethics Training.**

Part of the solution – change behavior



https://www.ethics.uillinois.edu/resources/5_minute_videos

The other part of the solution...



Thank you!

