

THE 2015 ILLINOIS CLIMATE ACTION PLAN (ICAP)

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AMERICAN COLLEGE & UNIVERSITY
PRESIDENTS CLIMATE COMMITMENT

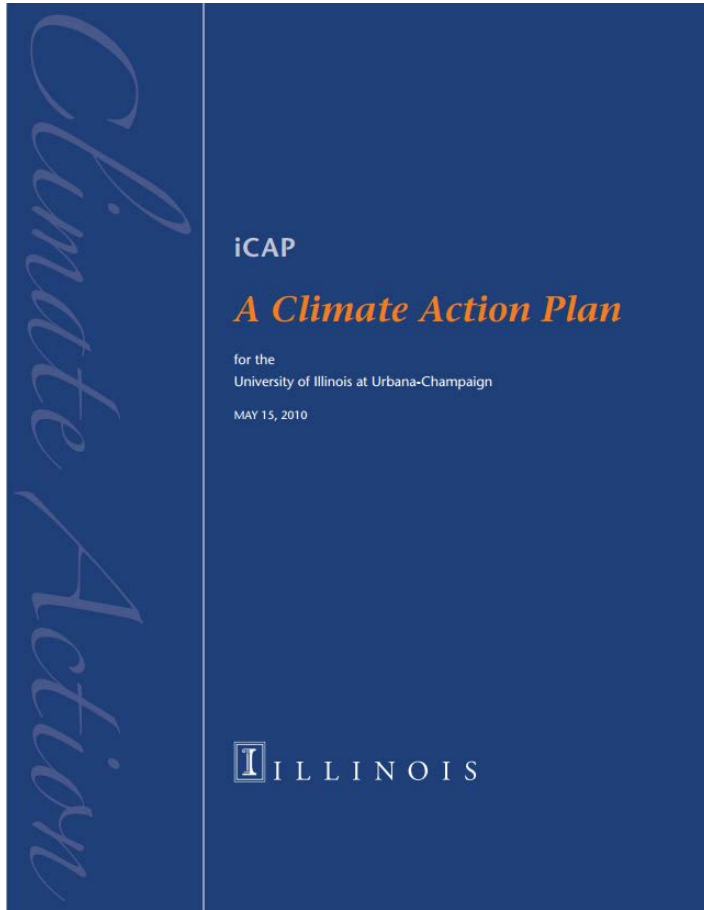
Number of Signatories to Date »

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- “We believe colleges and universities must exercise leadership...by modeling ways to minimize global warming emissions, and by providing the knowledge and educated graduates to achieve climate neutrality.
- We commit our institutions to...initiate the development of a comprehensive plan to achieve climate neutrality as soon as possible.”



2010 ILLINOIS CLIMATE ACTION PLAN (ICAP)



“Our intentions are clear and our goal remains ambitious: to be the model of sustainability for all universities in the nation.”

– Robert A. Easter, Chancellor,
May 15, 2010

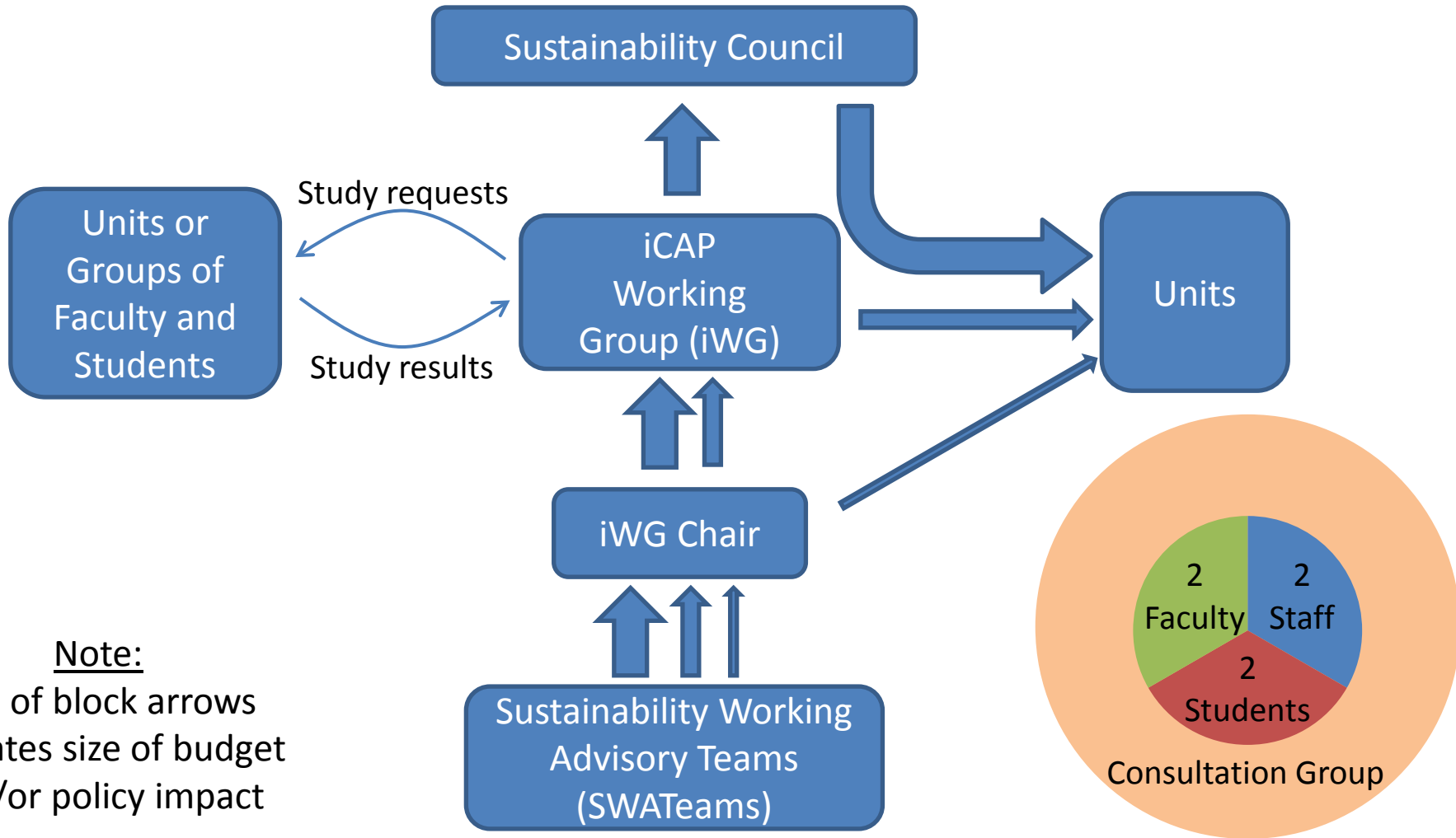


ACHIEVEMENTS SINCE 2010 ICAP

1. Reduced existing building energy consumption by 20%
2. Reduced existing building GHG emissions by 15%
3. Purchase ~30% of food from local sources
4. Reduced potable water usage by 20%
5. Implemented “no net increase in space” policy
6. Developed long-term Zero-Waste policy
7. 5% of electrical energy from renewables



NEW SUSTAINABILITY PROCEDURE



SWATEAM AREAS



Energy Conservation & Building Standards



Energy Generation, Purchasing, & Distribution



Transportation



Purchasing, Waste, & Recycling



Water and Stormwater



Agriculture, Land Use, Food, and Sequestration



2015 ILLINOIS CLIMATE ACTION PLAN (ICAP)



“This new plan is ambitious, and it positions Illinois at the forefront of tackling the profound sustainability challenges that face humanity, including climate change and clean energy...The costs of inaction are tremendous, as climate change threatens not only the environment but also the very future of our students.”



– Barb Wilson, Chancellor



CARBON NEUTRALITY DATE



- Current target date is 2050
- New sense of urgency for tackling climate challenge
- Detailed study to determine steps campus would need to take to achieve carbon neutrality by 2035
- Examine costs and benefits
 - Short term & long term
 - Financial, environmental, & reputational
- Sustainability Council will then advise Chancellor whether to adopt 2035 goal



ENERGY CONSERVATION OBJECTIVES

1. Maintain or reduce the campus gross square footage.



ENERGY CONSERVATION OBJECTIVES

2. Identify the highest achievable energy standards for new buildings and major renovations



ENERGY CONSERVATION OBJECTIVES

3. Strengthen centralized conservation efforts focusing on building systems to reduce energy usage by 30%



ENERGY CONSERVATION OBJECTIVES

4. Engage and incentivize the campus community in energy conservation, with >50% units by FY20



ENERGY GENERATION OBJECTIVES

1. Explore options for 100% clean campus energy



ENERGY GENERATION OBJECTIVES

2. Expand on-campus solar energy production

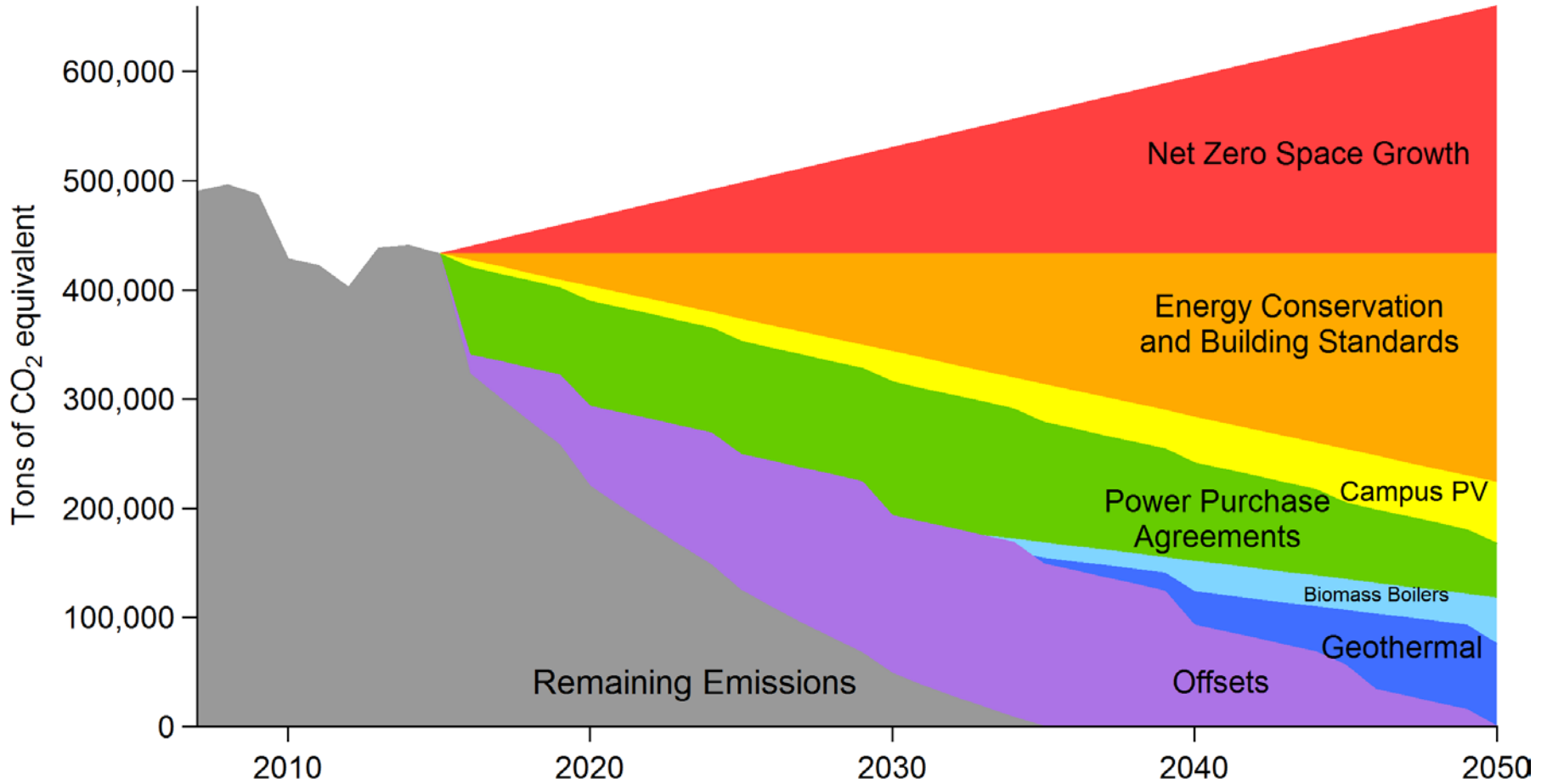


ENERGY GENERATION OBJECTIVES

3. Expand the purchase of clean energy



POSSIBLE ENERGY EMISSIONS TRAJECTORY



THANK YOU!

ANY QUESTIONS?



/iSEEatUofl



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sustainability.illinois.edu



sustainability.illinois.edu/calendar

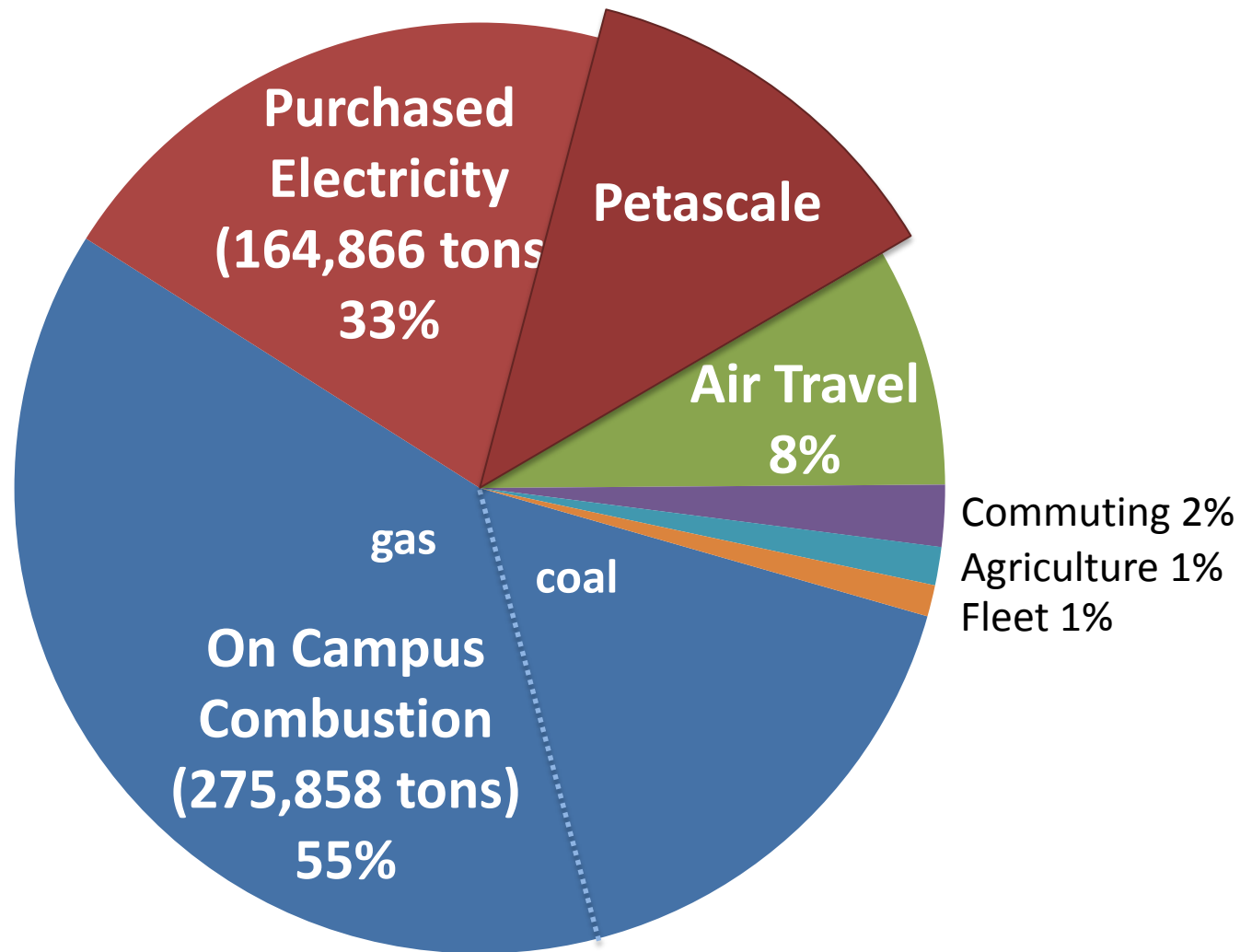


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BREAKDOWN OF FY2014 EMISSIONS



TRANSPORTATION OBJECTIVES



1. Reduce air travel emissions 25% by FY20
2. Reduce fleet emissions 20% by FY20
3. Study conversion of fleet to renewable fuels
4. Reduce single-occupancy vehicle trips
5. Implement Campus Bike Plan
6. Hire an Active Transportation Coordinator



(STORM)WATER OBJECTIVES



1. Obtain/publicize granular water use data
2. Improve cooling tower efficiency
3. Perform water audit
4. Inventory campus landscape performance
5. Pilot projects to showcase (storm)water reuse
6. Find ways to reduce impacts of stormwater runoff



ZERO WASTE OBJECTIVES



1. Apply environmental standards to purchases of office paper, cleaning products, computers
2. Reduce municipal solid waste to landfill
3. Utilize landfills with methane capture
4. Hire full-time Zero Waste Coordinator



AG/LAND USE OBJECTIVES



1. Assess greenhouse gas emissions from agricultural operations
2. More sustainable campus landscape design and maintenance
3. Sustainability in Campus Master Plan
4. Examine carbon footprint of on-campus food
5. Capture carbon in campus soils
6. Reduce nitrates in agricultural runoff



ICAP WORKING GROUP MEMBERS

Ben McCall (chair)

Morgan Johnston

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Matthew Tomaszewski

Nancy O'Brien

Jess Tang

Joe Vitosky

Rob Fritz

iSEE

Facilities & Services

Student Affairs

Office of Provost

Senate Cmte. on Campus Ops

Student Sust. Leadership Council

Ofc. of Bus. & Financial Svcs.

College-Level Facility Manager



SUSTAINABILITY COUNCIL MEMBERS

Barb Wilson (chair)

Evan DeLucia (vice-chair)

Ed Feser

Peter Schiffer

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Andreas Cangellaris

Brian Ross

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Gay Miller

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Paul Couston

Chancellor

iSEE Director

Provost

Vice Chancellor for Research

Vice Chancellor for Student Affairs

Vice Chancellor for Institutional Advancement

Executive Director of Facilities & Services

Dean of ACES

Dean of Engineering

Executive Associate Dean of LAS

Dean of Business

Chair of Senate Executive Committee

President of Illinois Student Senate

Chair of Student Sustainability Committee



2015 ICAP STRUCTURE

- **Goals**

Goals are the long-term targets, including the primary goal to become a global model of sustainability by creating effective, positive change.

- **Objectives**

Objectives are defined to be specific, measurable, achievable, relevant, and time-bound. iSEE, in collaboration with F&S and other campus units, will measure progress toward these objectives and work with campus and university budgetary authorities to identify funding to implement them, while striking an appropriate balance with other mission-critical budgetary priorities. Generally, the objectives include short-term targets, such as to decrease energy consumption 30% by FY20.

- **Potential Strategies**

Potential strategies are methods that the campus could consider to aid in reaching the specific objectives.



2015 ICAP GOALS (SWATEAMS)



- Reduce energy use 30% by 2020, 50% by 2050
- Reduce energy emissions 30% by 2020, 50% by 2030, 100% by 2050
- Return transportation emissions to FY08 baseline by 2020, reduce by 75% by 2030
- Reduce water use 30% by 2020, 60% by 2050; reuse 25% of stormwater by 2020, 50% by 2030
- Comprehensive “Zero Waste” program
- Halve ag emissions by 2025, aim for negative emissions



2015 ICAP GOALS (OTHER)

- Begin using carbon offsets, pref. mission-linked
- Ensure that best ideas for GHG reductions are matched with necessary funding
- Provide opportunities for interdisciplinary learning about sustainability
- Support and strengthen co-curricular, outreach programs and major sustainability events
- Position Illinois as a world leader in sustainability research



ONE VISION OF OUR ENERGY FUTURE

