

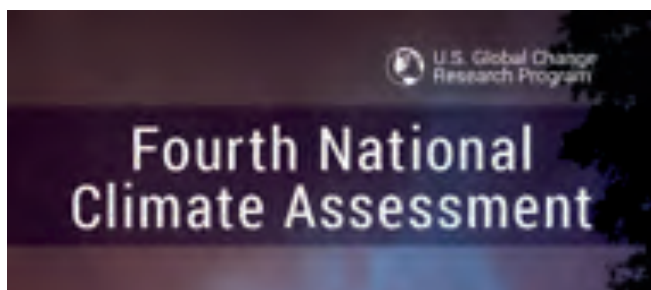


# Chancellors Committee on Sustainability and Energy

# THE URGENCY OF CLIMATE CHANGE IS GROWING:

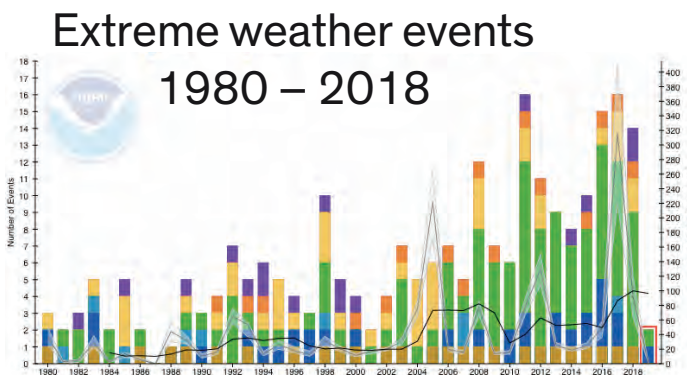


October 2018



November 2018

**Back-to-Back  
UN and US  
Climate Reports  
in 2018**



**Increasing  
frequency  
of extreme  
weather**



**Students  
speaking up  
about climate  
change**

# UIC Pledge carbon neutral by 2050

Cannot be achieved by lowest cost approach

2019 request UIC should consider climate change benefits in evaluating CCSE proposals

# ACCOMPLISHMENTS - CCSE



1

COMPLETING THE CLIMATE ACTION IMPLEMENTATION PLAN

2

FINAL DRAFT OF CHAPTER 7 OF THE CAIP ON CLIMATE RESILIENCE

3

PASSAGE OF INCREASE IN SUSTAINABILITY FEE TO \$6/FT STUDENT/ SEMESTER

• Effective Fall 2019



# SUBCOMMITTEES

- 1 EDUCATION & RESEARCH
- 2 ENERGY & UTILITIES
- 3 GROUNDS
- 4 SUSTAINABLE MATERIALS
- 5 TRANSPORTATION

# ACCOMPLISHMENTS - EDUCATION & RESEARCH



1

## FACULTY SURVEY

- 2016: University-wide survey about faculty interest in teaching sustainability
- 38% of respondents have taught a course that addresses sustainability
- Additional 30% would teach a sustainability-related course if they were provided support.
- Positive respondents represent 68 separate units/departments

2

## TEACHING SUSTAINABILITY WORKSHOP

- Partnership (half-day workshop) with UIUC, teaching how to incorporate sustainability into curriculum
- Customizable faculty powerpoint for use in colleges and departments

3

## RESEARCH

- UIC environmental research ~\$5 million/year

4

## HONOR'S COLLEGE

- Multiple core seminars involving sustainability

5

## COLLEGE OF URBAN PLANNING

- Minor in Sustainable Cities

6

## MASTER OF ENERGY ENGINEERING (MEEE)



## GOALS & ASKS - EDUCATION & RESEARCH

1

### ADMINISTRATIVE ASSISTANCE IN OVERCOMING DISCIPLINARY SILOS:

- Need for new financial model
- Administrative champion for interdisciplinary initiatives

2

### FINANCIAL SUPPORT FROM THE UNIVERSITY NEEDED TO:

- Continue faculty incentive programs (e.g. the “Tufts” model ~\$5K/faculty/yr. summer workshops)
- Increase research support (~\$150K/yr.) similar to DPI \$15K seed projects
- Graduate assistant(s) to assist incorporating sustainability concepts into curriculum (~\$12K/gr/yr.)

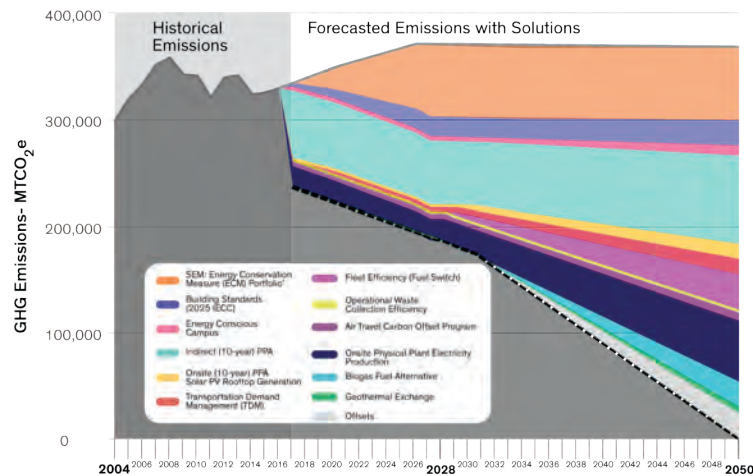
3

### NON-FINANCIAL SUPPORT FROM THE UNIVERSITY NEEDED TO:

- Increase awareness of importance of sustainability in higher education
- Modify general education requirements
- Increase co-curricular activities in student affairs
- Need to categorize other new and ongoing research areas, such as “energy”, “resilience”, “urban systems”, etc.

# ACCOMPLISHMENTS - ENERGY & UTILITIES

**Forecasted Emissions with Portfolio (2028) and Visionary Solutions (2050)**



**1**

## FORECASTED EMISSIONS AND REDUCTION STRATEGIES

- Identified and prioritized UIC greenhouse gas emission reduction strategies with the greatest financial payback
- Created energy conservation measure portfolio detailing strategy execution

**2**

## VCAS ENERGY MANAGEMENT TEAM

- Recommended the adoption of strategic energy management principles which led to the formation of the VCAS energy management team
- Set to begin energy savings projects in the Administrative Office Building in May

**3**

## ENERGY POLICY

- Revised the UIC energy policy to reflect strategic energy management principles outlined in the Climate Action Implementation Plan



## GOALS & ASKS - ENERGY & UTILITIES

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**1**

### UTILIZE CAMPUS ASSETS IN EDUCATION:

- Collaborate with faculty, Utilities and Energy Services (UES) Department, VCAS Energy Management Team, CCSE subcommittees, and other relevant parties to explore opportunities for student involvement in energy initiatives and solutions.
- Utilize the campus and energy assets as a learning lab by developing curriculum ideas, securing classroom space, and exploring partnerships with research and teaching entities.

**2**

### ADVANCE OPPORTUNITIES FOR RENEWABLE ENERGY:

- Utilize the solar working group to advance progress on small scale renewable solar energy procurement through the RFP process.
- Gain a deeper understanding of large scale renewable energy procurement process, cost and benefit of various commodities, and advance procurement process in order to meet CAIP goals.

**3**

### REAFFIRM COMMITMENT TO THE GREEN REVOLVING FUND:

- Initiate Green Revolving Fund to support cost savings efficiency initiatives with less than five year payback, specifically for energy and water.

# ACCOMPLISHMENTS - GROUNDS



**1**

## CAMPUS POLLINATOR HABITAT PLAN

- Campus Pollinator Habit Plan was written and adopted by UIC.
- CPHP GROUNDS TRAINING: U of I Extension is hosting a Facilities and Management Grounds Training for the CPHP on June 6 and June 18.
  - Plan, design, & maintain pollinator habitats
  - Maintain healthy pollinator communities

**2**

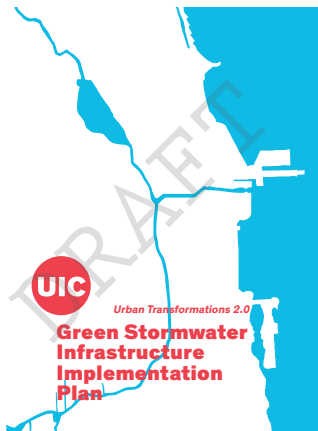
## TREE CARE PLAN

- Tree Care Plan was updated with new goals.
- Facilities Management shall hold the responsibility of enforcing policies and implementing tree management practices through contract and inspection.
  - Tree Replacement Policy and Health Assessment with Facilities Management
  - Tree Inventory

**3**

## GREEN STORMWATER IMPLEMENTATION PLAN

- Green Stormwater Infrastructure Implementation Plan was written and still in draft form as it gets updated for adoption by UIC.
- Integrate GI into new projects
  - Design team with GI expertise
  - 10% stormwater run-off reduction



# GOALS & ASKS - GROUNDS

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## 1 GROUNDS PLANS IMPLEMENTATION & INTEGRATION:

- See the three grounds plans: Tree Care Plan, Campus Pollinator Habitat Plan, and Green Stormwater Infrastructure Implementation Plan, through campus wide implementation from direction of VCAS and receive input on how the goals can be integrated into the Master Plan.
- Secure funding for a tree budget through fundraising from external sources.

## 2 EDUCATIONAL PROGRAMS:

- Create and implement educational programs that can promote and encourage campus wide participation and understanding of UIC's sustainability goals; beginning with the UIC Campus Pollinator Habitat Plan Training for grounds and maintenance.
  - Students
  - Build expertise among faculty and staff
  - Work with the Education Subcommittee
- Register a level of importance of our campus forestry with all departments across campus.
  - Monetary, Aesthetic and Health value
  - Existing in the middle of a major city at the nexus of two major expressways, our campus forest protects of the health of students, faculty, and staff by improving air quality, reducing noise, and lowering temperatures...all of which improve learning.

## ACCOMPLISHMENTS - SUSTAINABLE MATERIALS



**1**

### UI HOSPITAL GREEN TEAM

- Established with support from administration and the involvement of numerous departments and through coordination with the Office of Sustainability

**2**

### UI HOSPITAL IN TOP 20% OF HOSPITALS NATIONALLY FOR PRACTICE GREEN HEALTH

- Collection and organization of data on waste, recycling, chemicals, energy, food, procurement, transportation, and water

**3**

### NEW WASTE REDUCTION PROGRAMS

- Adjustments to food prep and production, such as cooking in batches to avoid preparing too much food
- Food recovery in Food and Dietary Services
- Installation of 17 water bottle filling stations

**4**

### WASTE DIVERSION PROGRAMS

- Compost collection expanded to Hospital and reinstated in SCW
- Medical device recycling

**5**

### LANDFILL WASTE DIVERSION POLICY

- Review and approval of the policy draft



## GOALS & ASKS - SUSTAINABLE MATERIALS

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**1**

### **PROMOTE GREEN TEAM MODEL FOR ALL CAMPUS UNITS:**

- Charge individual unit and development for implementing waste reduction and diversion programs
- Encourage multiple-department coordinated efforts
- Refer to guidance from the OS and the Hospital Green Team

**2**

### **INTEGRATE SUSTAINABLE PRINCIPLES INTO CONTRACTS:**

- Require the UIC Dining Services contract to include the use of reusable, recyclable or biodegradable materials, elimination of Polystyrene plastics, and requirements for food scrap collection

**3**

### **CONSIDER SOCIAL BENEFITS OF MATERIAL CONSUMPTION AND MANAGEMENT IN BUDGET AND INFRASTRUCTURE PLANNING:**

- Encourage and subsidize green procurement programs
- Secure proper infrastructure and fleet for recycling services

**4**

### **MANDATE CAMPUS-WIDE SUSTAINABILITY TRAINING PROGRAM:**

- Require all UIC employees to participate in a 15-minute training program annually on campus sustainability policies, programs, and guidelines

# ACCOMPLISHMENTS - TRANSPORTATION



**1**

## COMMUTER BEHAVIOR SURVEY

- A survey of UIC students, faculty, and staff about their commuting behavior
- Conducted by Public Administration Capstone team
- Provided data for CAIP goals and strategies to reduce commuting emissions with input from CCSE Co-Chairs.

**2**

## COORDINATION WITH CTA

- CCSE Co-Chairs initiated ongoing conversation with the CTA about shared goals



## GOALS & ASKS - TRANSPORTATION

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1

### TDM SUPPORT:

- Support for transportation demand management explorations and data gathering

2

### ADVANCE VISION ZERO EFFORTS:

- 2 Undergraduate Interns at 10 hrs./week for the Academic Year (August 2019 through May 2020)- approx. \$8,000.

3

### GATHER COMMUTER DATA TRENDS AND ANALYSIS:

- Survey design, implementation and analysis – 2 Graduate Assistants at 50% appointment for the Fall 2019 and Spring 2020 semesters (approx. \$28,000 with fringes and tuition remission)

4

### CATALOG BEST PRACTICES AND DEVELOP PILOT PROGRAM OF TDM:

- Catalog best practices of TDM at other urban campuses and develop pilot programs for implementation at UIC