

An aerial photograph of the Indiana University campus, showing a dense collection of buildings and trees. A white rectangular box is overlaid on the right side of the image, containing text. The background image is in grayscale.

# INDIANA UNIVERSITY CLIMATE ACTION PLAN

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IU CAP Committee Meeting

November 15, 2022

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**FOR IU CAP COMMITTEE USE ONLY**





# AGENDA

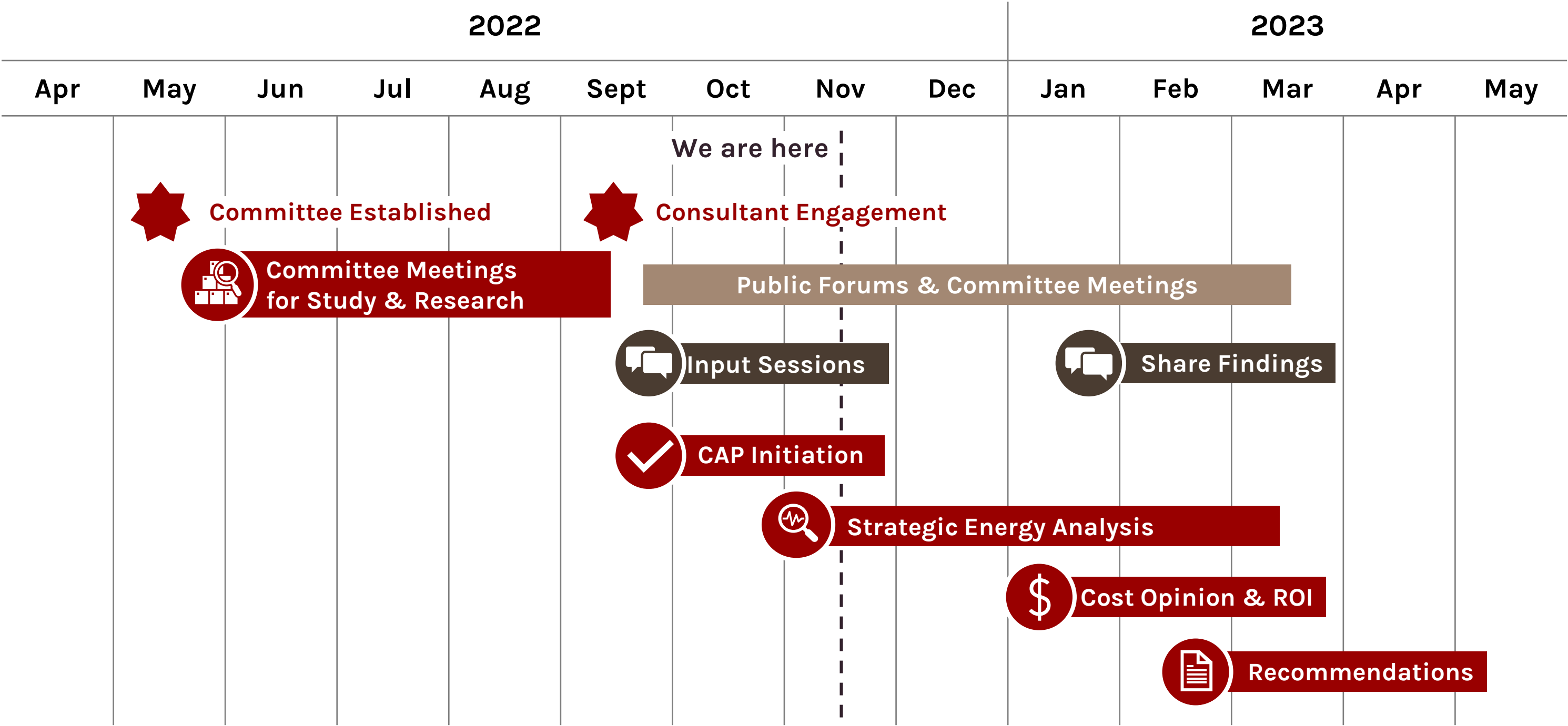
Public Forum Sessions

Peer Benchmarking

Building a Framework



# PROJECT SCHEDULE



# PUBLIC FORUM SESSIONS

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INDIANA UNIVERSITY CLIMATE ACTION PLAN  
FALL 2022

# PUBLIC FORUMS

## Trip #1: Gary, Indianapolis, Kokomo

Date	Campus	Forum #	Event
September 27	IUN	1	Public Forum #1 + IUN Campus Tour
September 28	IUPUI	2	Public Forum #2 + IUPUI Campus Tour
	IUK	3	Public Forum #3 + IUK Campus Tour

## Trip #2: Indianapolis, South Bend

October 11	IUPUI		Committee Meeting
October 12	IUSB	4	Public Forum #4 + IUSB Campus Tour

## Trip #3: New Albany, Bloomington, Indianapolis

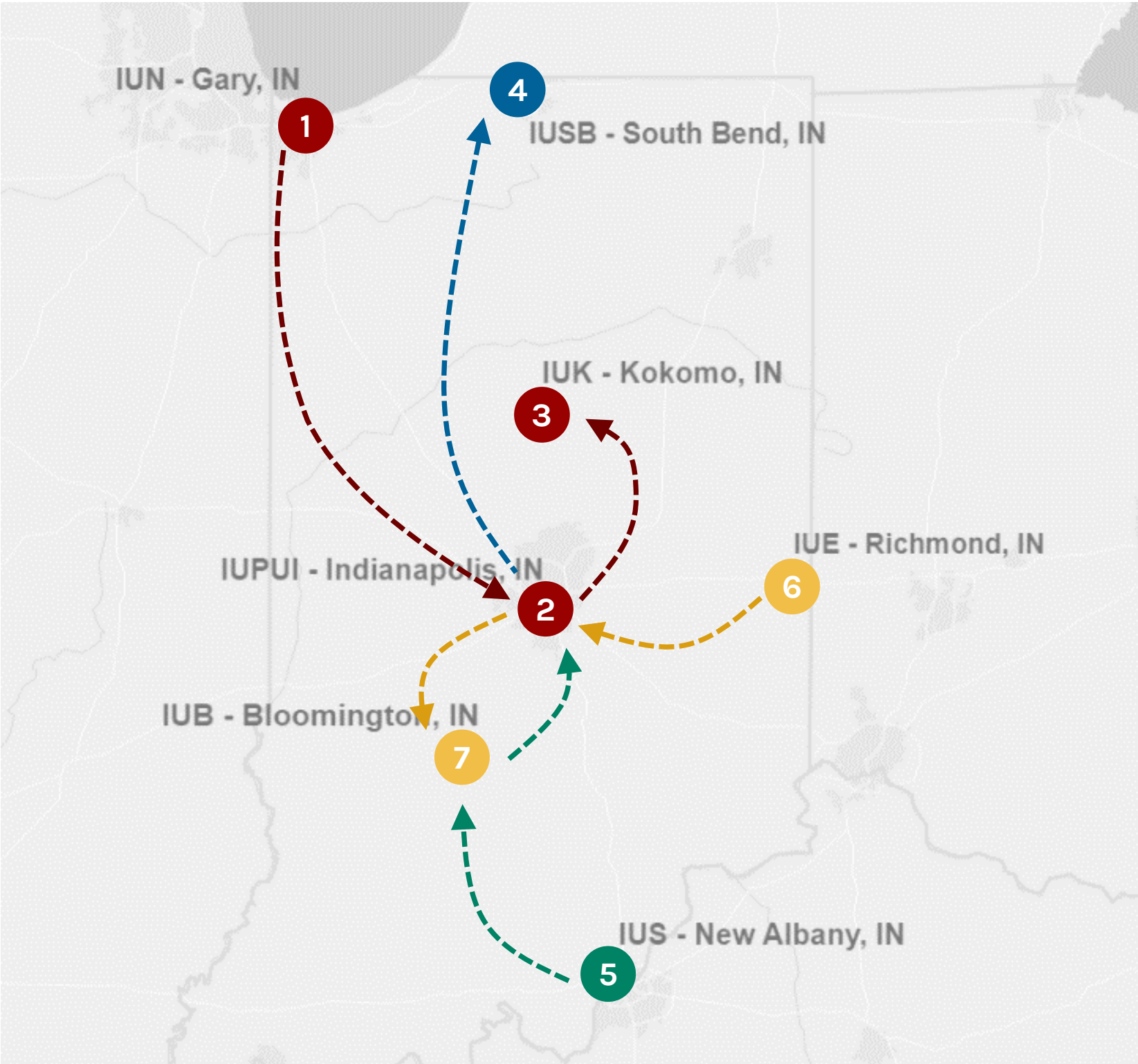
October 25	IUS	5	Public Forum #5 + IUS Campus Tour
October 26	IUB		IUB Campus Tour
	IUPUI		Committee Meeting

## Virtual Session

November 3	All	Zoom	Virtual Forum Session
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## Trip #4: Richmond, Indianapolis, Bloomington

November 15	IUE	6	Public Forum #6 + IUE Campus Tour
	IUPUI		Committee Meeting
November 16	IUB	7	Public Forum #7



# ENGAGEMENT BY THE NUMBERS

PUBLIC FORUMS (IN-PERSON AND VIRTUAL)

IU-East  
(Nov. 15)

IU-Bloomington  
(Nov. 16)

IU-Northwest

**18**  
participants

**24** examples of  
current IU actions

**43** potential  
Opportunities  
identified

**27** potential  
Challenges  
identified

IUPUI

**47**  
participants

**29** examples of  
current IU actions

**16** potential  
Opportunities  
identified

**13** potential  
Challenges  
identified

IU-Kokomo

**23**  
participants

**11** examples of  
current IU actions

**33** potential  
Opportunities  
identified

**27** potential  
Challenges  
identified

IU-South Bend

**10**  
participants

**10** examples of  
current IU actions

**20** potential  
Opportunities  
identified

**12** potential  
Challenges  
identified

IU-Southeast

**11**  
participants

**11** examples of  
current IU actions

**27** potential  
Opportunities  
identified

**15** potential  
Challenges  
identified

Virtual

**70**  
participants

**23** of Q&A

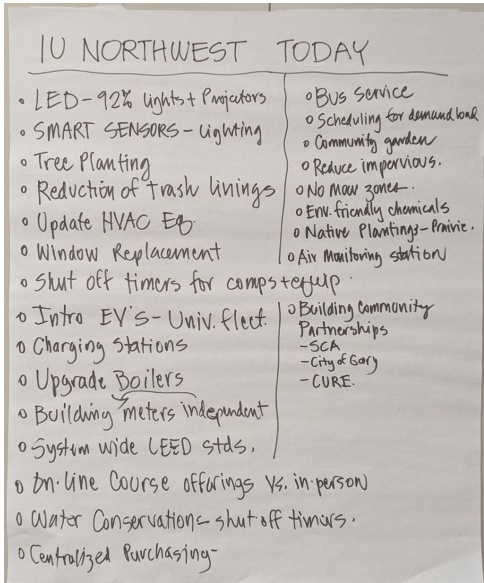
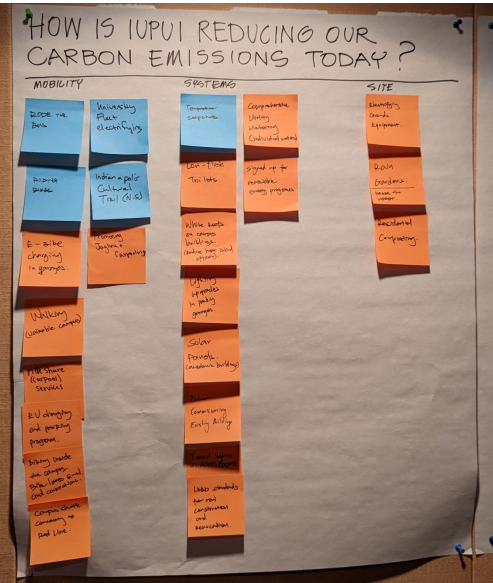
**36** potential  
Opportunities  
identified

**16** potential  
Challenges  
identified

# KEY THEMES

## CURRENT IU ACTIONS

7 main categories of current IU actions implemented or in the planning identified by public forum participants

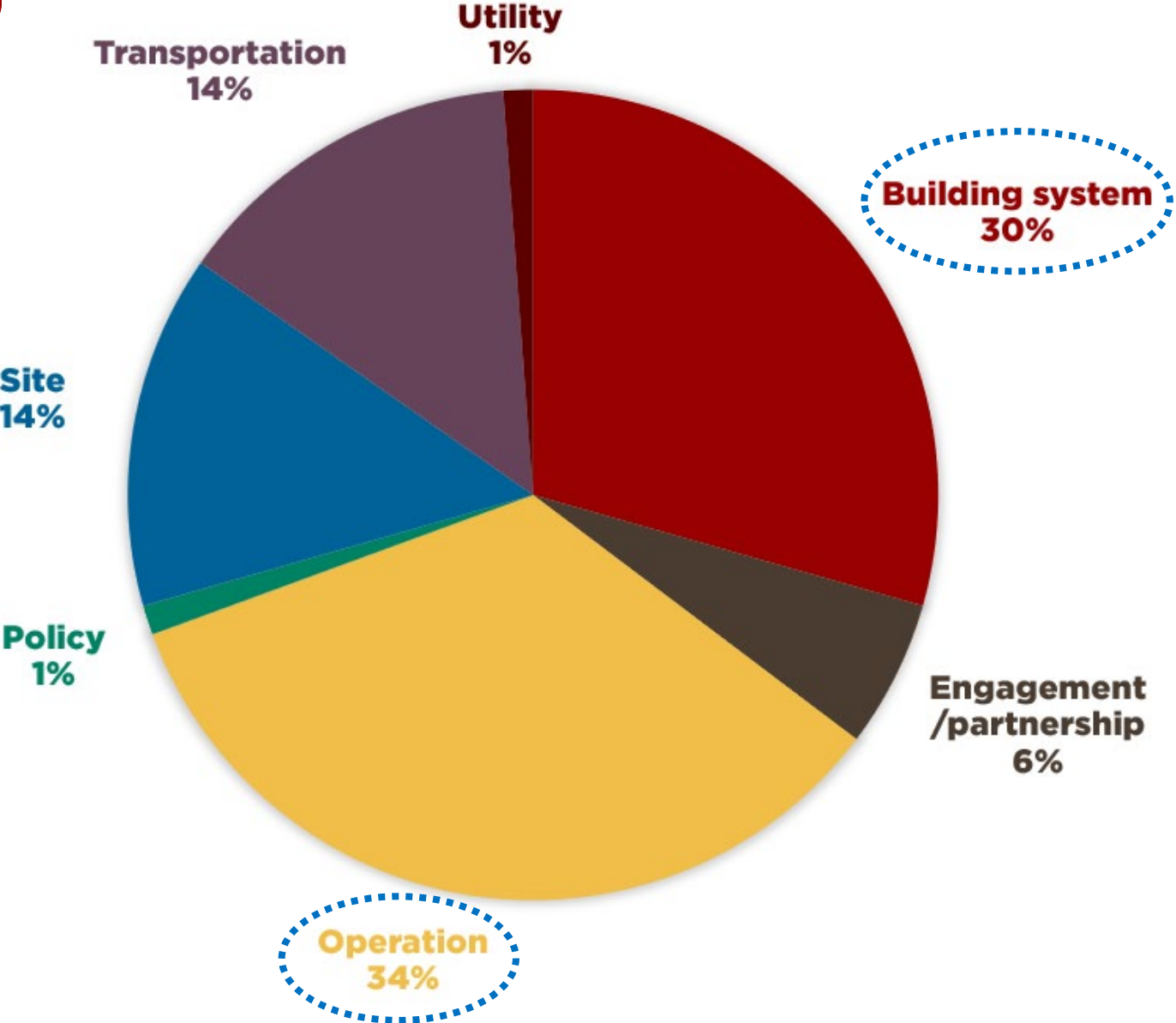


Update HVAC equipment

Shut-off timers & occupancy sensors for campus, lighting, & equipment

Electrifying University fleet and grounds equipment

LEED Standards for new construction & renovation





# KEY THEMES

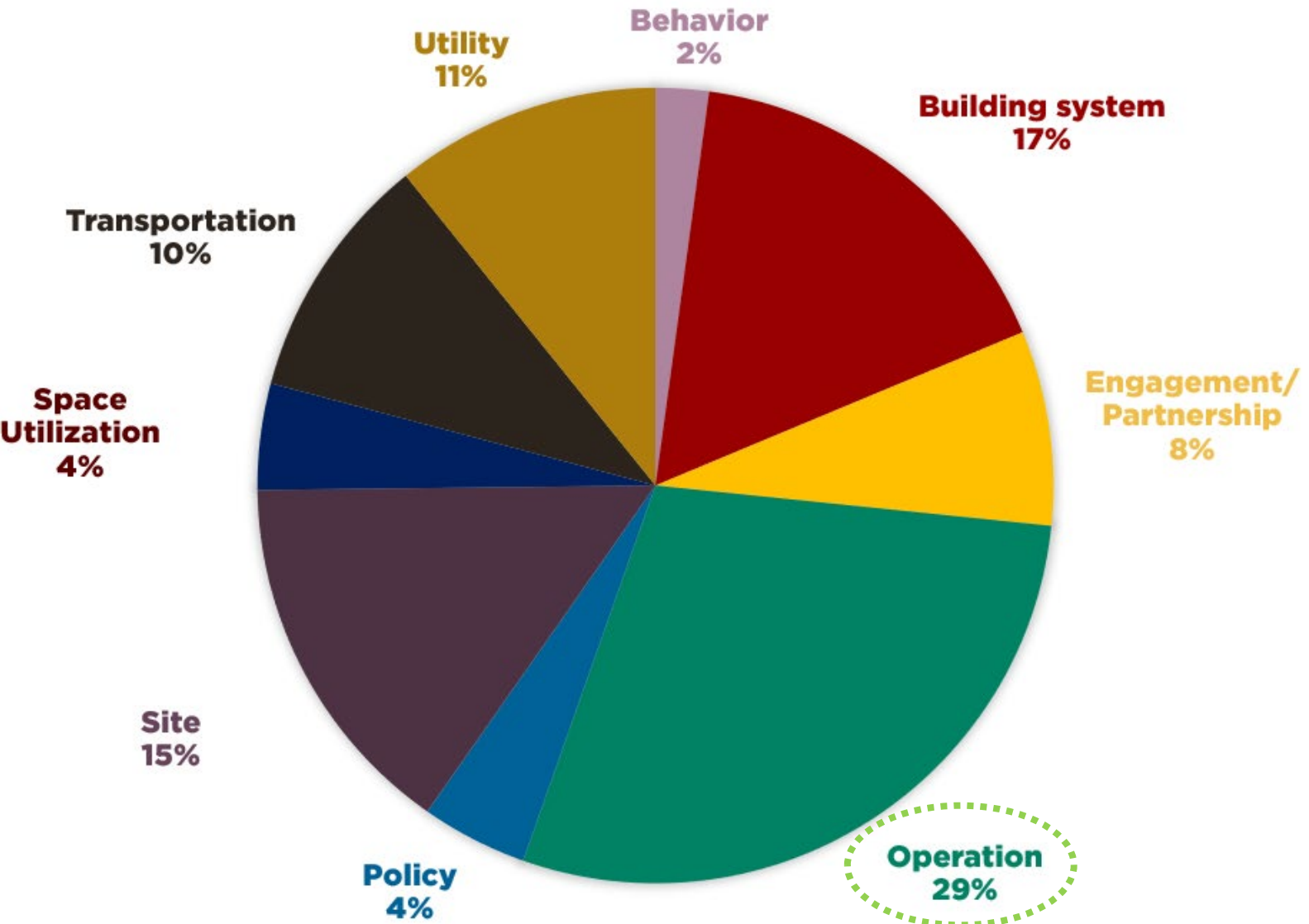
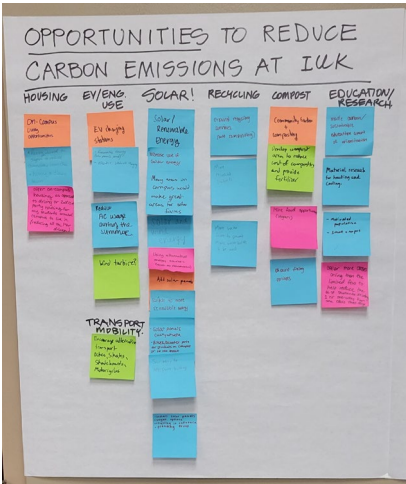
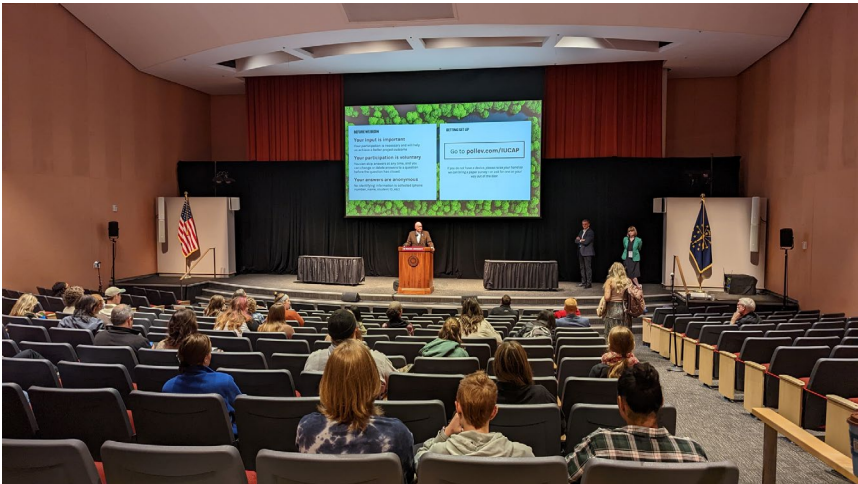
## POTENTIAL OPPORTUNITIES

9 categories of potential opportunities identified by public forum participants

Regulate temperature set points in buildings

Examine class scheduling

Explore opportunities for renewable energy





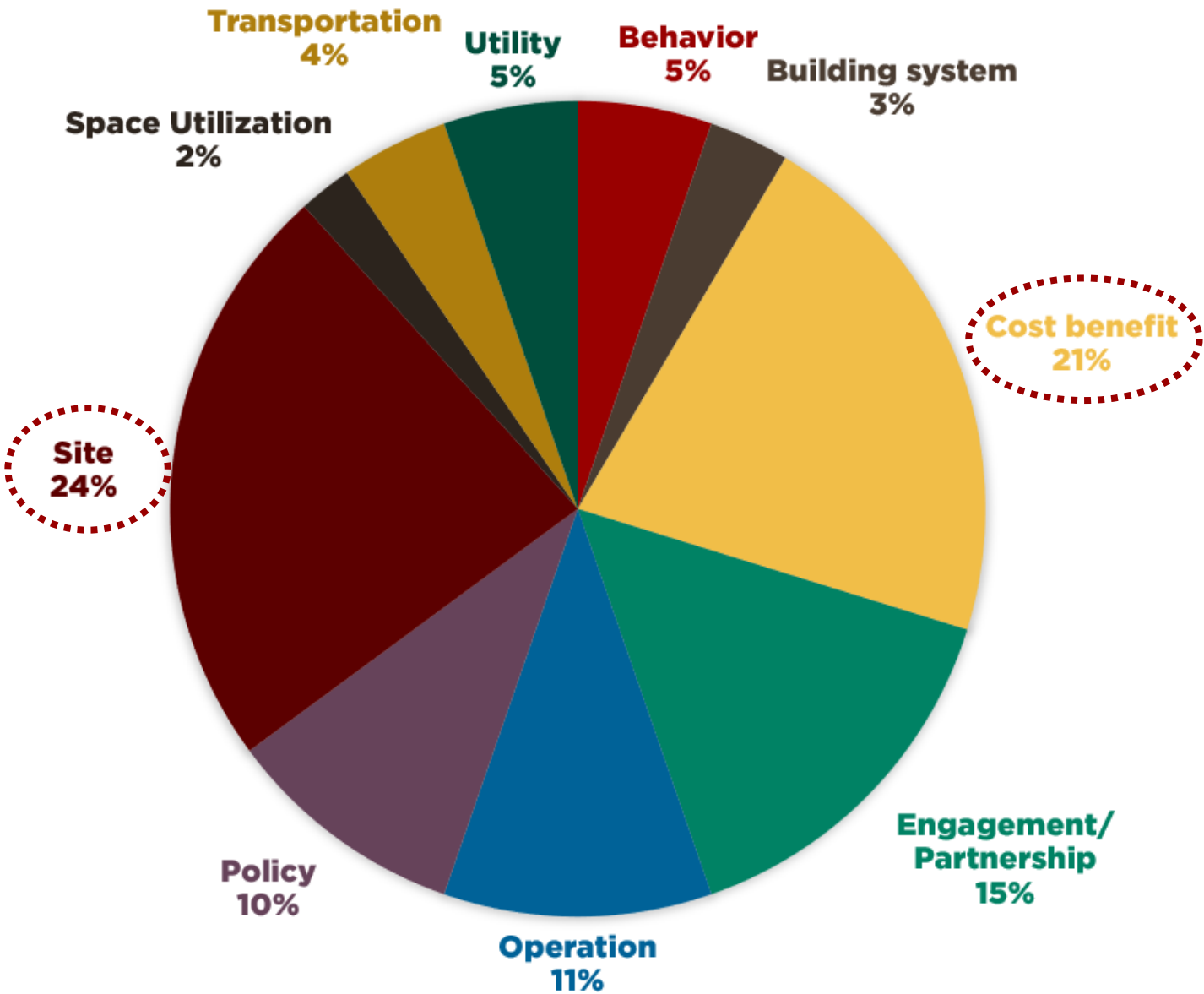
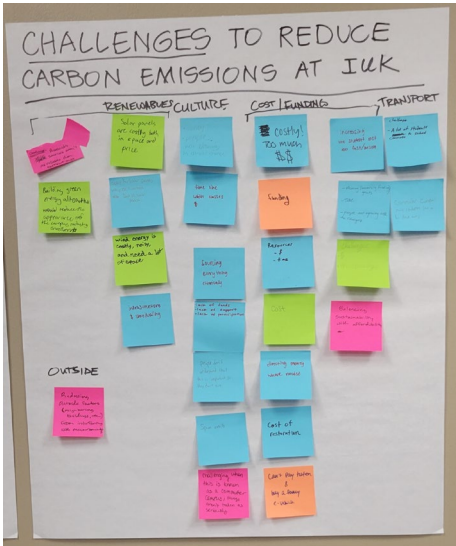
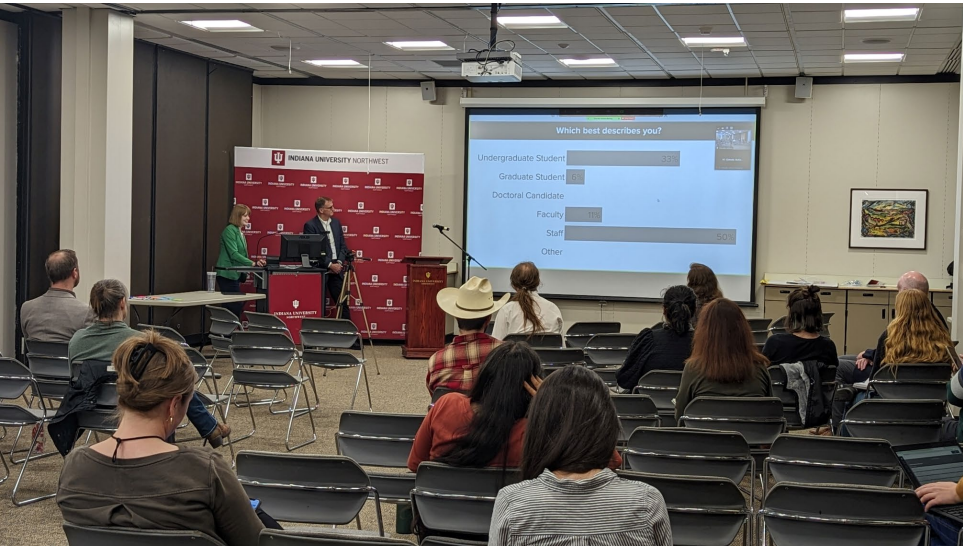
# KEY THEMES

## POTENTIAL CHALLENGES

10 categories of potential challenges identified by public forum participants

Balancing sustainability with affordability

Existing regulatory environment



# PEER INSTITUTION BENCHMARKING

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INDIANA UNIVERSITY CLIMATE ACTION PLAN  
FALL 2022







# CLIMATE ACTION PLAN BENCHMARKING


## INDIANA UNIVERSITY PEER INSTITUTIONS

Analyzing Climate Action Plans, initiatives, and reporting of Indiana University peer institutions to understand:

- Common and diverging themes and areas of focus
- Climate Action Plan process (analysis, engagement, forecasting, plan updates)
- Implementation strategies and phasing

CLIMATE ACTION PLAN



**RUTGERS**  
Office of the President  
TASK FORCE ON CARBON NEUTRALITY  
AND CLIMATE RESILIENCE  
June 2021

**PennState**  

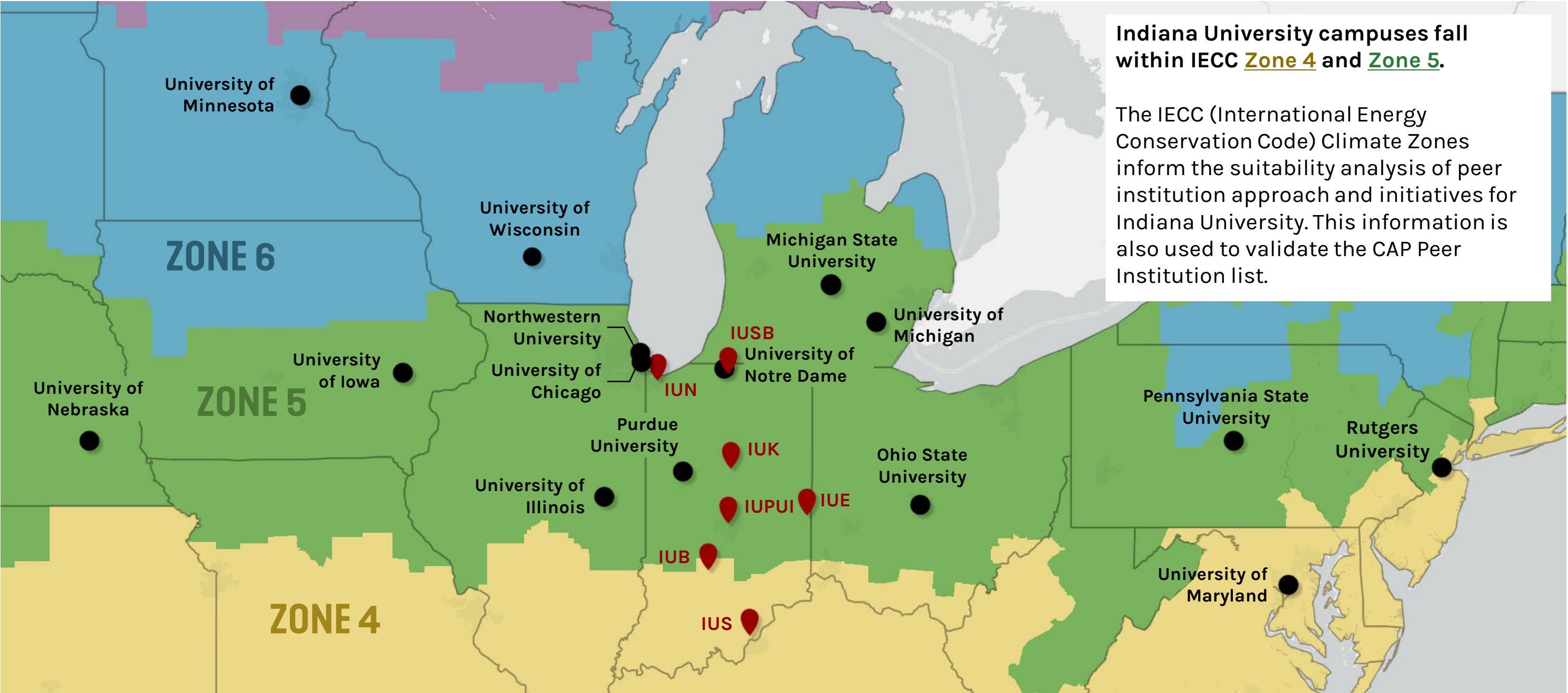

For the Future  
FROM THE PRESIDENT'S CARBON  
MISSIONS REDUCTION TASK FORCE  
DECEMBER 2021

**PRESIDENT'S  
COMMISSION ON  
CARBON NEUTRALITY**  
UNIVERSITY OF MICHIGAN  
Final Report & Recommendations  
March 2021

Source: Rutgers, University of Michigan, and Penn State.  
All reports and information publicly-available.

# CLIMATE ACTION PLAN BENCHMARKING

## UNDERSTANDING PEER INSTITUTION IECC CLIMATE ZONES



Indiana University campuses fall within IECC [Zone 4](#) and [Zone 5](#).

The IECC (International Energy Conservation Code) Climate Zones inform the suitability analysis of peer institution approach and initiatives for Indiana University. This information is also used to validate the CAP Peer Institution list.



# BUILDING A FRAMEWORK

Energy Efficiency & Upgrades	Programming & Operations	Campus Systems (Larger Lift)	Vehicle Fleet (Medium Lift)	Learning, Research, Participation, and Innovation	Funding Strategies
<p>Student Dorm Shower Head Replacements</p> <p>Lavatory Aerator Replacement</p> <p>Refrigeration Monitoring</p> <p>(Commercial kitchen and Industrial)</p> <p>SmartPlug Strips with Motion Sensors to power Monitors</p> <p>Laptops in lieu of Desktops</p> <p>Fume Sash Closers</p>	<p>Space Utilization Informed Class Scheduling – Tighter “open hours”</p> <p>Thermostat Setpoint Adjustments (Cautiously)</p>	<p>Heat Recovery Retrofits</p> <ul style="list-style-type: none"><li>• Air-to-Air</li><li>• DHW – CHWR</li><li>• WasteWater Heat Recovery</li></ul> <p>Heat Pump Conversions (Including Dual-Fuel)</p> <p>District Energy Cluster Conversions</p> <p>Solar-Battery Microgrids – Non-exporting</p> <p>BioGas &amp; Solar Procurement via utilities</p>	<p>Encourage carpooling, transit, biking, and walking</p> <p>Replace eligible internal combustion engine vehicles with electric vehicles (buses, trucks, vehicles, maintenance equipment including landscape services)</p> <p>Electric Vehicle Charging (Fleet)</p>	<p>Establishment of a Student-Run Sustainability Fund for EEM Projects</p> <p>Seed Money; Revolving-funding through savings</p> <p>Student Run Energy Audits</p> <p>IR Themography, Blower door Tests, etc.</p> <p>Energy Dashboards</p>	<p>To Be Discussed in Future Meetings</p>