AGENDA

Public Forum Sessions
Peer Benchmarking
Building a Framework
## PROJECT SCHEDULE

### 2022

- **Committee Established**
- **Consultant Engagement**
- **Committee Meetings for Study & Research**
- **Public Forums & Committee Meetings**
- **Input Sessions**
- **CAP Initiation**
- **Strategic Energy Analysis**

### 2023

- **We are here**
- **Share Findings**
- **Cost Opinion & ROI**
- **Recommendations**

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2023 Indiana University Climate Action Plan

FOR IU CAP COMMITTEE USE ONLY
PUBLIC FORUM SESSIONS

INDIANA UNIVERSITY CLIMATE ACTION PLAN
FALL 2022
## Public Forums

### Trip #1: Gary, Indianapolis, Kokomo

<table>
<thead>
<tr>
<th>Date</th>
<th>Campus</th>
<th>Forum #</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>September 27</td>
<td>IUN</td>
<td>1</td>
<td>Public Forum #1 + IUN Campus Tour</td>
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<tr>
<td>September 28</td>
<td>IUPUI</td>
<td>2</td>
<td>Public Forum #2 + IUPUI Campus Tour</td>
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<tr>
<td></td>
<td>IUK</td>
<td>3</td>
<td>Public Forum #3 + IUK Campus Tour</td>
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### Trip #2: Indianapolis, South Bend

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<thead>
<tr>
<th>Date</th>
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<tr>
<td>October 11</td>
<td>IUPUI</td>
<td>Committee Meeting</td>
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<tr>
<td>October 12</td>
<td>IUSB</td>
<td>Public Forum #4 + IUSB Campus Tour</td>
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### Trip #3: New Albany, Bloomington, Indianapolis

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<td>October 25</td>
<td>IUS</td>
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<td>Public Forum #5 + IUS Campus Tour</td>
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<td>October 26</td>
<td>IUB</td>
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<td></td>
<td>IUPUI</td>
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<td>Committee Meeting</td>
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### Virtual Session

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<tbody>
<tr>
<td>November 3</td>
<td>All</td>
<td>Zoom Virtual Forum Session</td>
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<td>November 3</td>
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<tr>
<td>November 15</td>
<td>IUE</td>
<td>Public Forum #6 + IUE Campus Tour</td>
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<tr>
<td>November 16</td>
<td>IUB</td>
<td>Public Forum #7</td>
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**Map:**
- IUN - Gary, IN
- IUPUI - Indianapolis, IN
- IIM - Kokomo, IN
- IUB - Bloomington, IN
- IUE - Richmond, IN
- IUS - New Albany, IN
- IUSB - South Bend, IN
ENGAGEMENT BY THE NUMBERS
PUBLIC FORUMS (IN-PERSON AND VIRTUAL)

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

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

IU-East
(Nov. 15)

IU-Bloomington
(Nov. 16)
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

Pie chart showing: Operation 34%, Site 14%, Building system 30%, Engagement/partnership 6%, Policy 1%, Utility 1%.
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
10 categories of potential challenges identified by public forum participants

Balancing sustainability with affordability
Existing regulatory environment

- Transportation (4%)
- Utility (5%)
- Behavior (5%)
- Building system (3%)
- Cost benefit (21%)
- Engagement/Partnership (15%)
- Operation (11%)
- Policy (10%)
- Space Utilization (2%)
- Site (24%)
PEER INSTITUTION BENCHMARKING

INDIANA UNIVERSITY CLIMATE ACTION PLAN
FALL 2022
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

Source: Rutgers, University of Michigan, and Penn State. All reports and information publicly-available.
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.
### Energy Efficiency & Upgrades

- Student Dorm Shower Head Replacements
- Lavatory Aerator Replacement
- Refrigeration Monitoring (Commercial kitchen and Industrial)
- SmartPlug Strips with Motion Sensors to power Monitors
- Laptops in lieu of Desktops
- Fume Sash Closers

### Programming & Operations

- Space Utilization Informed Class Scheduling – Tighter “open hours”
- Thermostat Setpoint Adjustments (Cautiously)

### Campus Systems (Larger Lift)

- Heat Recovery Retrofits
  - Air-to-Air
  - DHW – CHWR
  - WasteWater Heat Recovery
- Heat Pump Conversions (Including Dual-Fuel)
- District Energy Cluster Conversions
- Solar-Battery Microgrids – Non-exporting
- BioGas & Solar Procurement via utilities

### Vehicle Fleet (Medium Lift)

- Encourage carpooling, transit, biking, and walking
- Replace eligible internal combustion engine vehicles with electric vehicles (buses, trucks, vehicles, maintenance equipment including landscape services)
- Electric Vehicle Charging (Fleet)

### Learning, Research, Participation, and Innovation

- Establishment of a Student-Run Sustainability Fund for EEM Projects
- Seed Money; Revolving-funding through savings
- Student Run Energy Audits
- IR Themography, Blower door Tests, etc.
- Energy Dashboards

### Funding Strategies

- To Be Discussed in Future Meetings