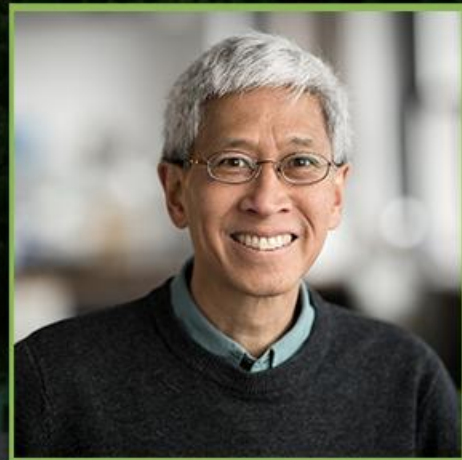


# BUILDINGENERGY BOSTON

MARCH 23-24, 2026 • WESTIN BOSTON SEAPORT DISTRICT • NESEA.ORG/BE26

MONDAY KEYNOTE ADDRESS:

## IN FOR THE LONG RUN: THE COST OF PAUSING



Arlen Li  
HGA



Julie Newman  
Massachusetts Institute  
of Technology (MIT)



Anthony Michetti  
Cell Signaling Technology



2019 – Maximize energy efficiency



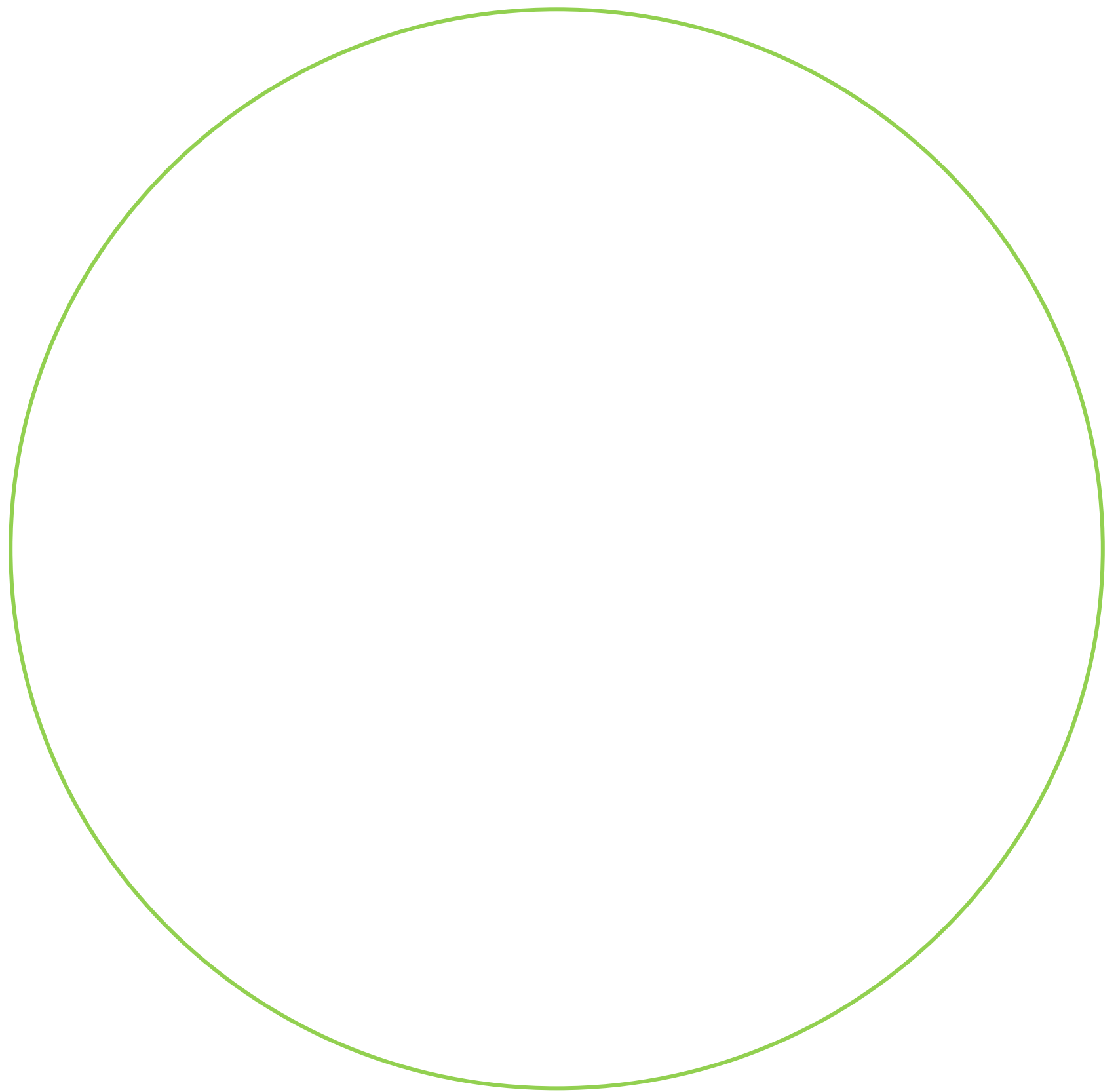
2024 (in planning) – Embody sustainability culture

2026 – Have the priorities changed?

# HISTORY



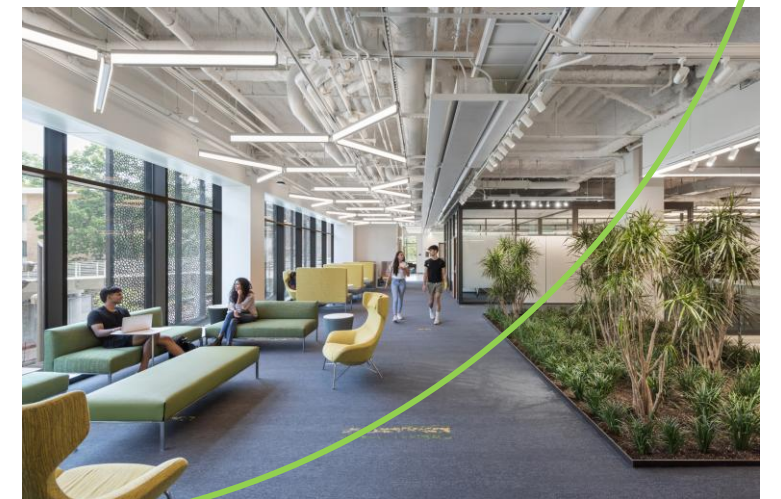
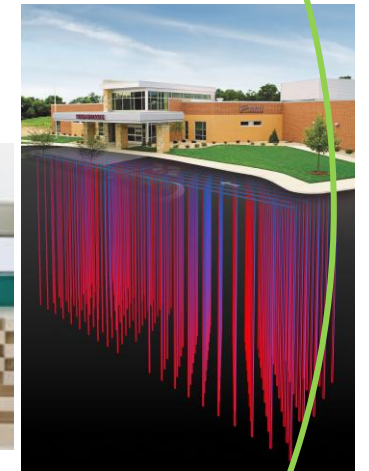
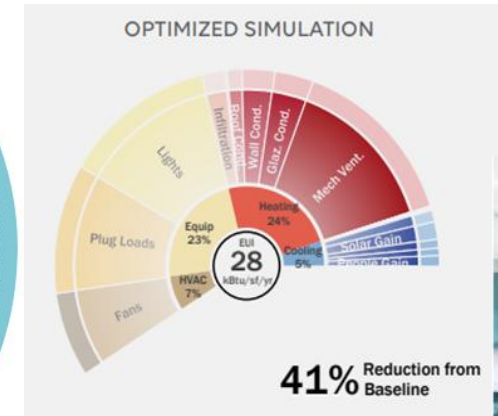
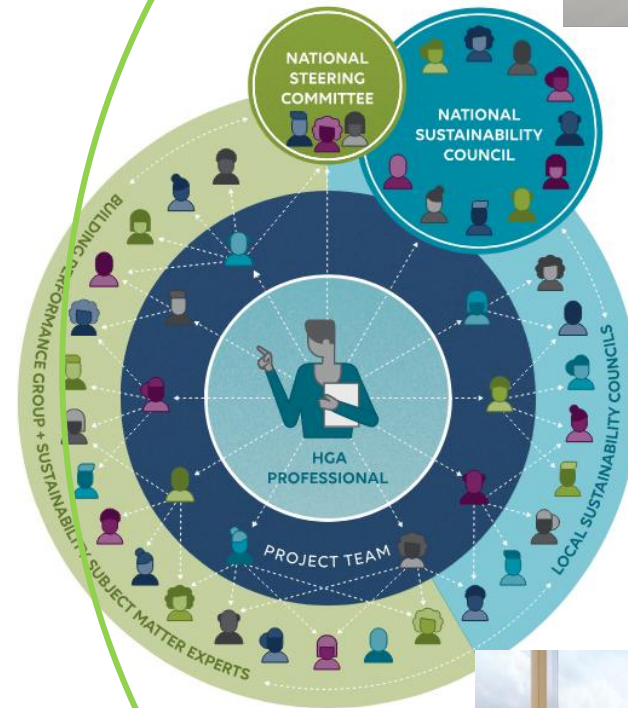
**IN OUR HANDS**  
**EARTH SUMMIT '92**  
UNITED NATIONS CONFERENCE ON  
ENVIRONMENT AND DEVELOPMENT



# HISTORY



**IN OUR HANDS**  
**EARTH SUMMIT '92**  
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# COMMITMENTS



 2024-26 SUSTAINABILITY STRATEGIC PRIORITIES

**EMBED SUSTAINABILITY IN HOLISTIC DESIGN**

**GOAL:** Continue to develop our holistic, sustainable design practice.

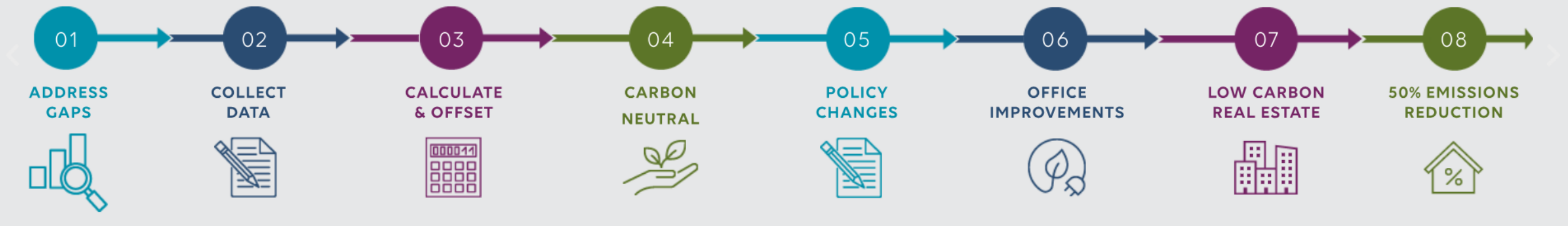
**ELEVATE THE BASELINE OF KNOWLEDGE AND EXPERIENCE**

**GOAL:** Ensure that every HGAer, regardless of role, knows how to integrate sustainability into their work.

**PRIORITIZE ACCOUNTABILITY: SUSTAINABILITY IS EVERYONE'S JOB**

**GOAL:** Integrate sustainability at all levels of the firm: in all strategic plans, on projects, and in our roles as leaders and individual contributors. Report progress and challenges annually.

## OUR PROCESS TO CREATE A NET ZERO PATHWAY FOR FIRM OPERATIONS





PHILOSOPHY

***Great Design is Sustainable Design***





# Our Mission

Deliver the world's highest quality research products to accelerate biological understanding and enable personalized medicine.

Conduct our business in ways consistent with environmental and social responsibility.

# CST Empowers the Global Life Science Community

**800,000**

products shipped per year

**100+**

countries

**15K+**

research  
institutes

**100K**

scientists

**10M**

Visits to  
[cellsignal.com](https://cellsignal.com)

The above numbers are estimates based on user data and USA distributor markets.

# ENVIRONMENTAL & SOCIAL RESPONSIBILITY



## Protecting the Environment

- First life science member of 1% for the Planet
- Net-zero emissions by 2029
- Sustainable & recyclable packaging
- Energy & waste management programs
- Grants and funding for environmental organizations



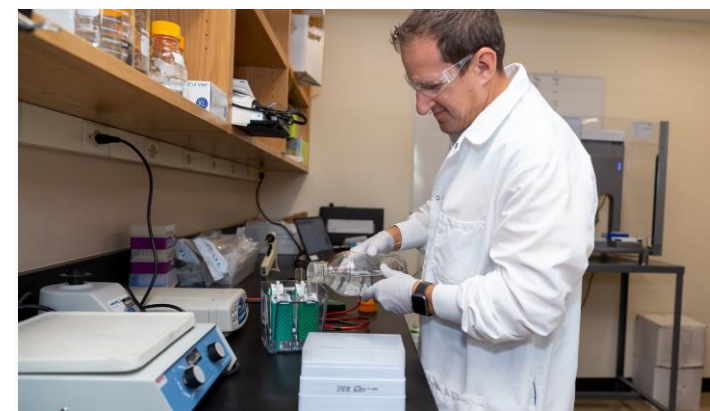
## Supporting our Communities

- Employee-driven volunteering and giving
- Global disaster relief
- Grants and funding for community support organizations
- Social justice actions
- Support for the arts



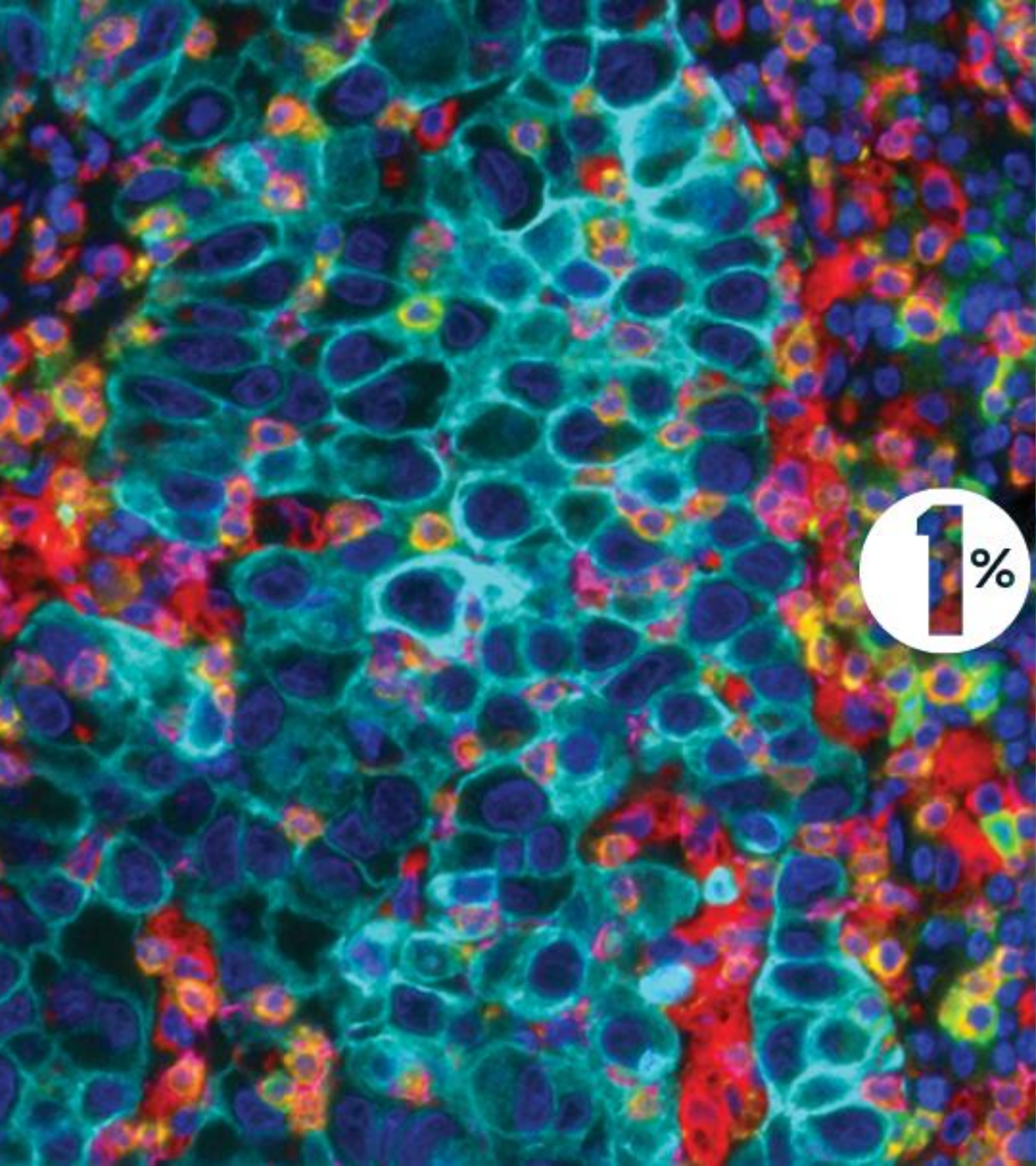
## Inspiring the Next Generation of Scientists

- Scholarships for STEM students
- Grants to support local K-12 STEM education and STEM education nonprofits
- Rising Black Scientists Awards
- Internship program
- Equipment donations



## Promoting Sustainability in the Lab

- My Green Lab sponsorship and program participation
- Founding sponsor:
  - I2SL Labs2Zero
  - Beyond Benign Green Chemistry Teaching & Learning Community
- Equipment reuse via Seeding Labs
- LabReNew sponsorship for startup sustainability consulting



1%



FOR THE  
PLANET.

— MEMBER —







## A city within a city

# Planning for today and next 100 years

**168** acres

**190** buildings

**43,000** spaces

**13** million square feet

**14,508** offices

**5,551** labs

**1,319** restrooms

**528** classrooms

**4,657** undergrads

**7,201** graduates

**1,080** faculty

**15,247** staff

**40** MW power plant

**17** miles of utilities

**400** active projects

**70,000** work orders / yr.

# Scales of Impact



**You**

**Campus**

**City**

**State**

**Globe**

←→

We start with you to find solutions at the campus level to serve both the institution's needs as well as to incubate new and big ideas.

←→

Seeking solutions to common challenges with the cities of Cambridge, Boston and beyond. We recognize and the deep interconnectivity between our urban campus and the city and seek to operate at both scales.

←→

Making structures, processes, and solutions developed at MIT accessible for reapplication and scaling across the globe.

# WHAT IS GUIDING CURRENT IMPLEMENTATION AND INVESTMENTS?

## **A Plan for Action on Climate Change**

October 21, 2015

A joint statement

President L. Rafael Reif

Provost Martin Schmidt, SM '83, PhD '88

Vice President for Research Maria Zuber

Chancellor Cynthia Barnhart, SM '85, PhD '88

Executive Vice President & Treasurer Israel Ruiz, SM '01

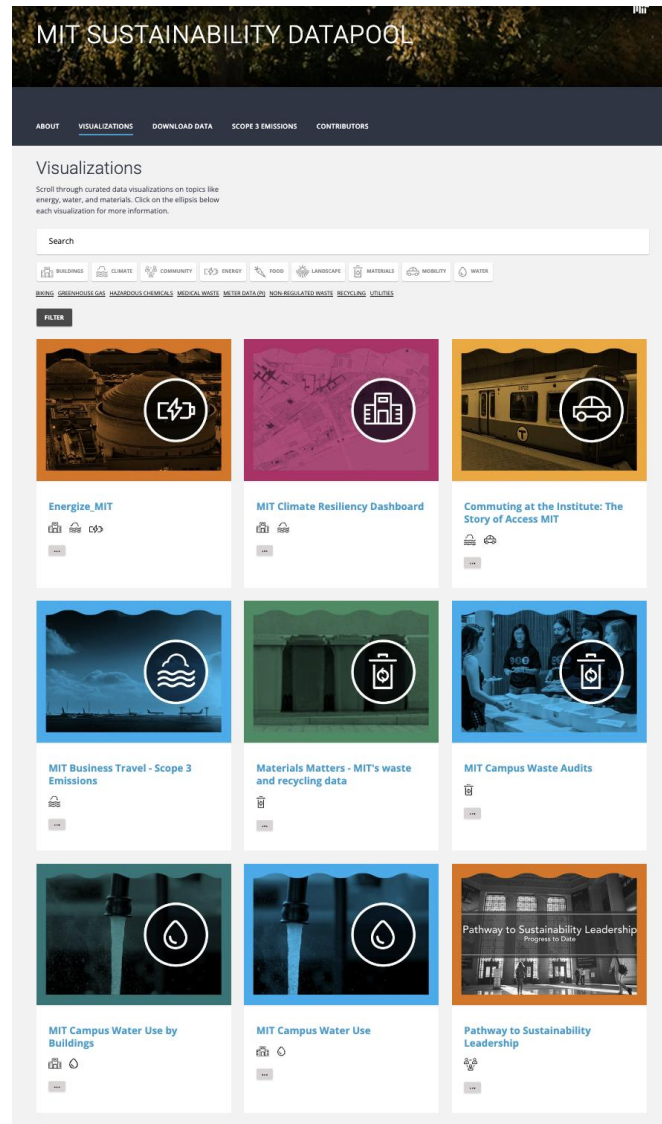


## **Fast Forward: MIT's Climate Action Plan for the Decade**

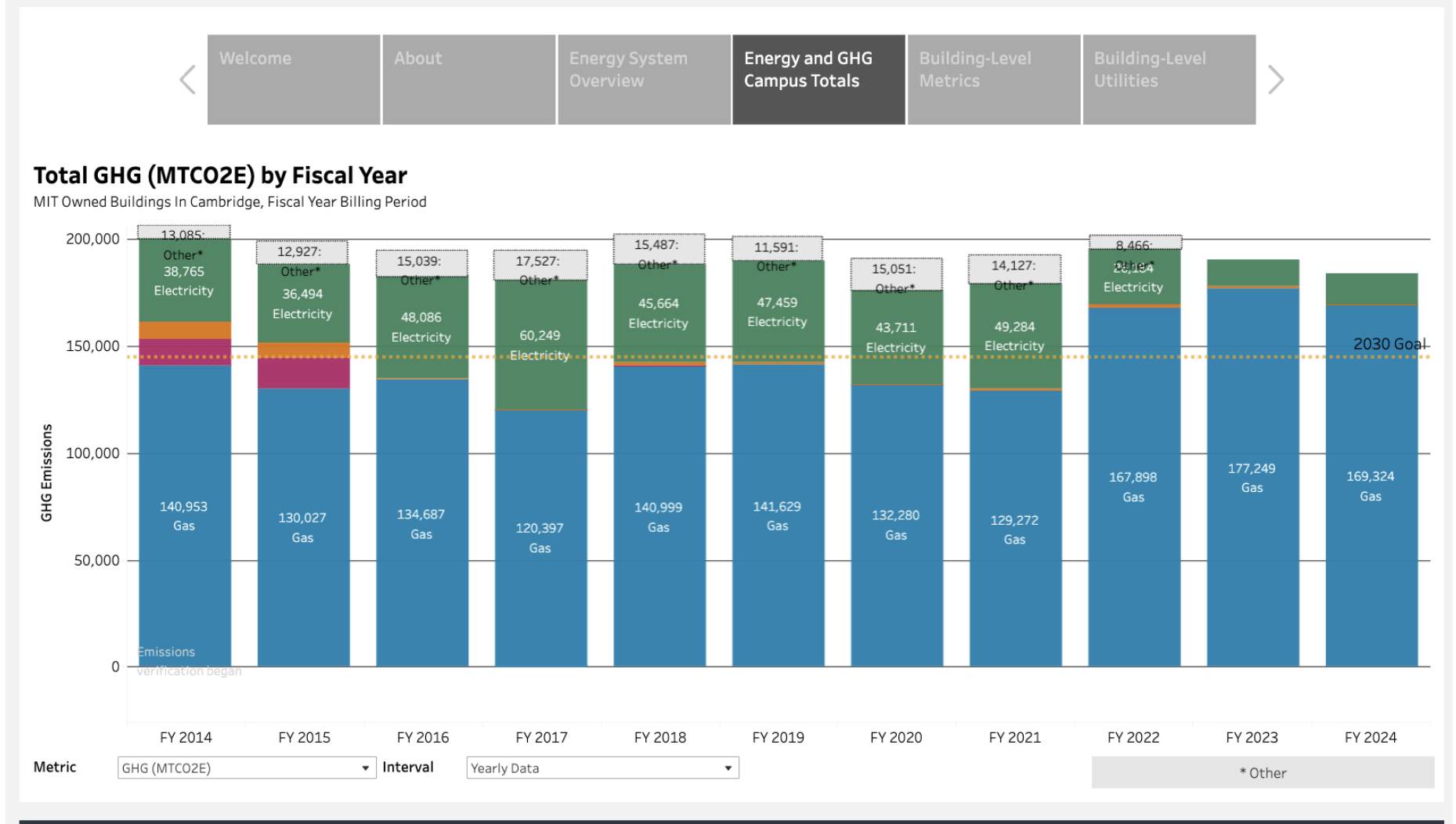
**A commitment to leadership  
in solving the climate crisis**

**May 2021**

# MEASURING IMPACT: MIT'S SUSTAINABILITY DATA POOL



## Energize\_MIT



# PLANNING FOR CLIMATE RESILIENCY

MIT Climate Resilience v1.1.0

Dashboard

Scenario  
2030 | 10-Year Storm







## Precipitation Flooding 2030 | 10-Year Storm

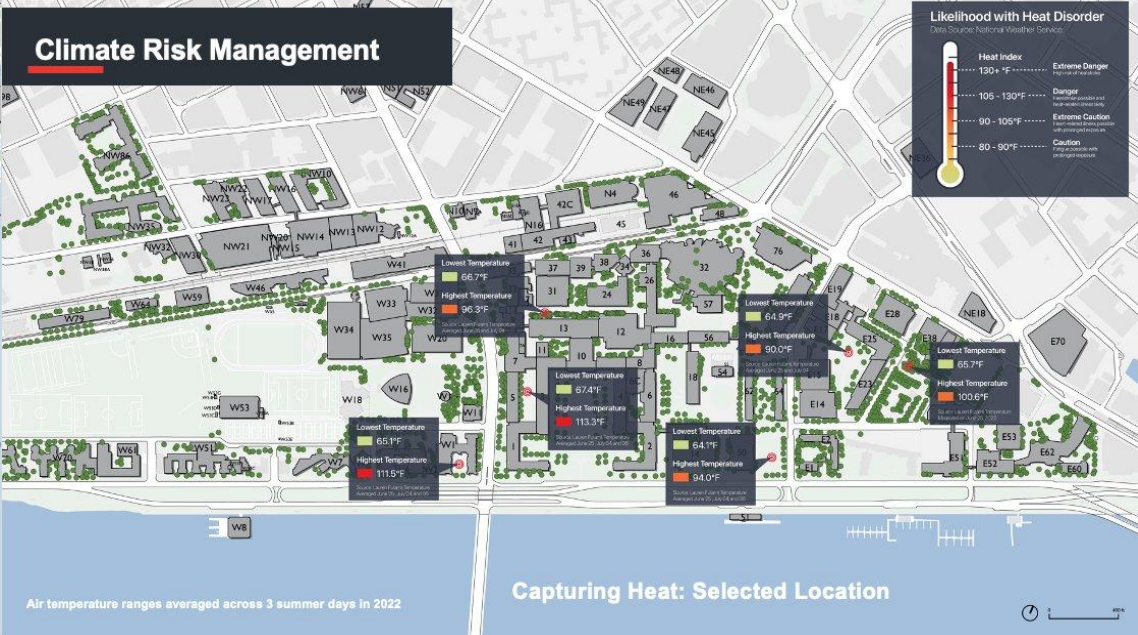
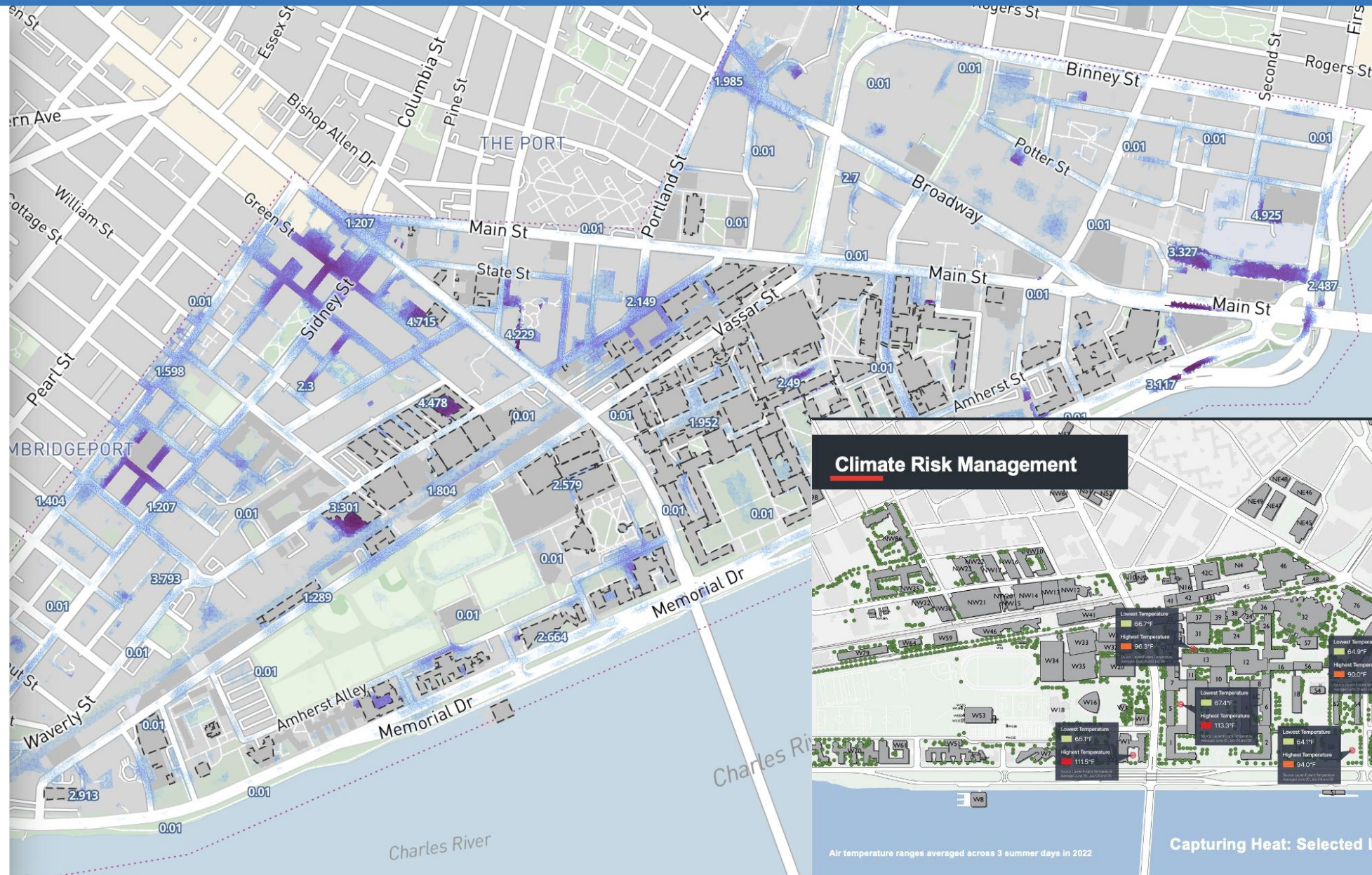
This map shows areas of campus that might flood if a big storm comes during the climate around 2030. There is a 1 in 10 chance each year of seeing this kind of rainstorm, and this event is almost sure to happen over 50 years.

MIT is committed to climate resiliency and adaptation. [Learn more here.](#)

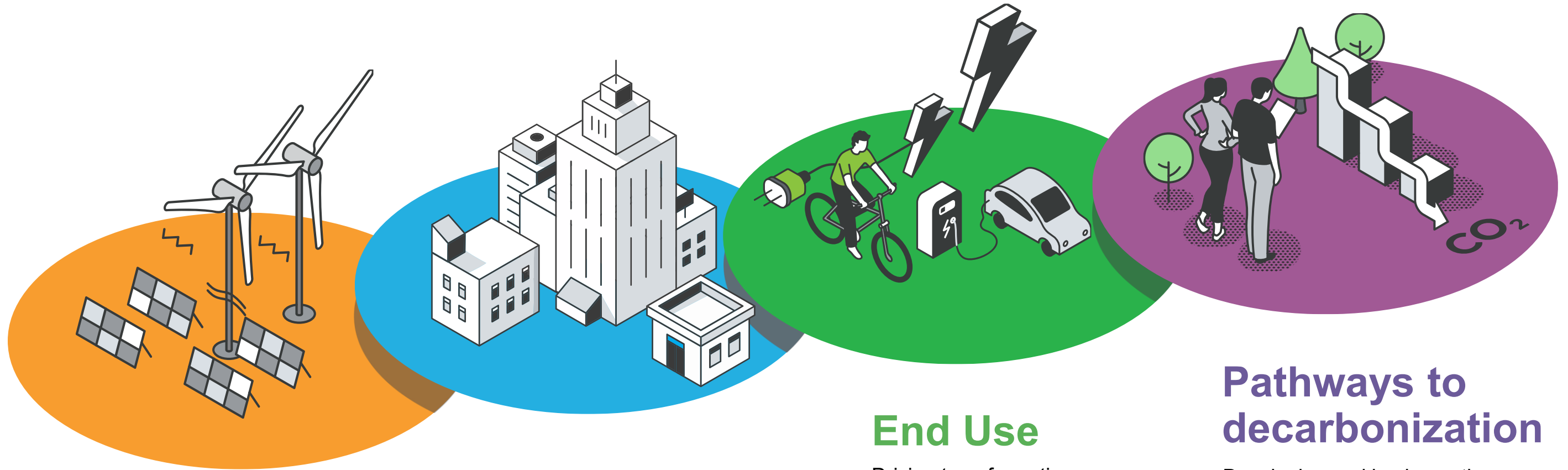
Spot elevations  
(Zoom in to see spot elevations)

### Legend

-  MIT Basements
-  Flood Model Extent
- Water Depth (gradient stops)**
-  0.1 ft & below
-  0.5 ft
-  1.0 ft
-  1.5 ft



# DECARBONIZING THE MIT CAMPUS



## Generation

Transitioning to clean, renewable energy sources for heating and electricity generation, minimizing reliance on fossil fuels.

## Distribution

Optimizing and modernizing systems to maximize the efficiency of heating and cooling distribution.

## End Use

Driving transformative efficiency in energy consumption across all sectors.

## Pathways to decarbonization

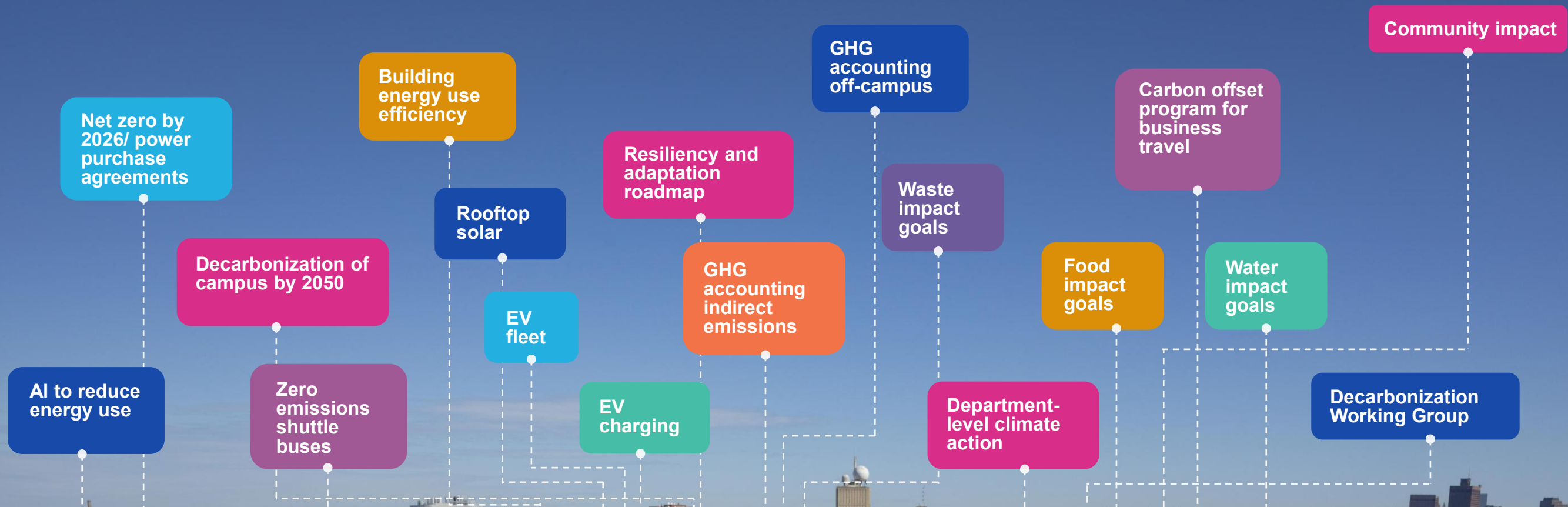
Developing and implementing actionable strategies to accelerate the global shift toward a sustainable, low-carbon future.

# ACCELERATING DECARBONIZATION OF THE GRID



Enabling large-scale renewable energy projects through partnerships achieves immediate, significant impact in reducing emissions and are key to achieving MIT's net-zero goal

# ACTIVATING THE CAMPUS



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Cell Signaling Technology



One limb lost after 2019 storm.

*Photo: LA Times*

***What in your own experience encourages you to look forward?***

*Photo: Atlas Obscura*