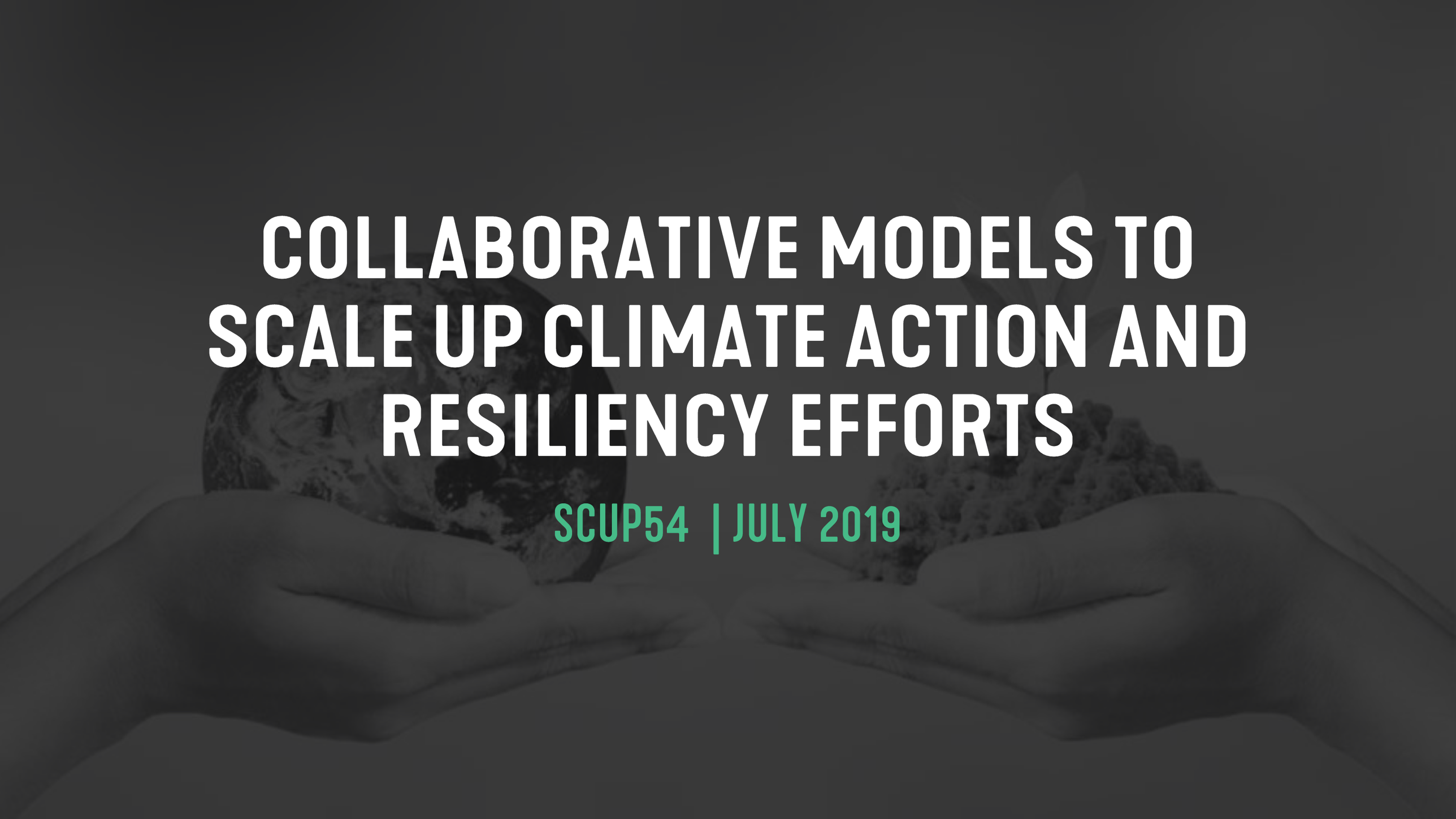


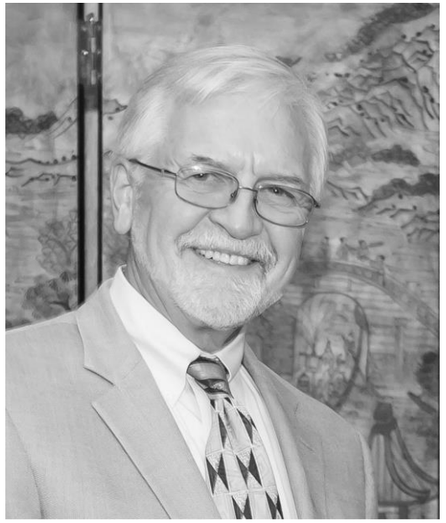
COLLABORATIVE MODELS TO SCALE UP CLIMATE ACTION AND RESILIENCY EFFORTS

SCUP54 | JULY 2019

STEVEN

SMITHGROUP

WENDELL

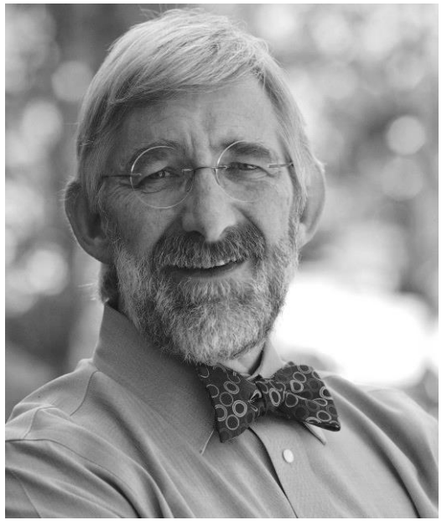


UC IRVINE

BETH

University of Pittsburgh

DENNIS



BOSTON UNIVERSITY

STATE OF CLIMATE AND RESILIENCY COMMITMENTS IN HiEd.

Second Nature

Strategic Plan

2019-2022

IMPERATIVE
TO EXPONENTIALLY DRIVE CLIMATE PROGRESS

FOUR STRATEGIC GOALS:

FOR IMPLEMENTATION DURING 2019 – 2022

1. ***ACCELERATE*** signatory and network performance through both responsive and proactive services
2. ***IMPROVE*** Second Nature's signatory and network administrative systems
3. ***LEAD*** higher education's cross-sector, subnational climate action
4. ***TEST*** programmatic and institutional growth opportunities with Second Nature's climate services

440 ACTIVE CLIMATE LEADERSHIP COMMITMENT SIGNATORIES

3

105

332

CROSS-UNIVERSITY RESEARCH PAPERS

"Higher Education's Role in Adapting to a Changing Climate"

Driven by Second Nature and Clean Air, the paper received input by higher education stakeholders from:

- University of Arizona
- Tufts University
- Alfred State College
- Ithaca College
- Louisiana State University
- Antioch University New England
- University of Massachusetts, Amherst
- Columbia University
- Paul Smith's College of Arts and Sciences
- Bristol Community College

aashe
The Association for the Advancement of Sustainability in Higher Education

stars®
a program of aashe

332

Participants with active ratings

OP-1: GREENHOUSE GAS EMISSIONS

Part 1 - INVENTORY

Publicly available greenhouse gas (GHG) emissions inventory

Part 2 – REDUCED GHG PER BASELINE

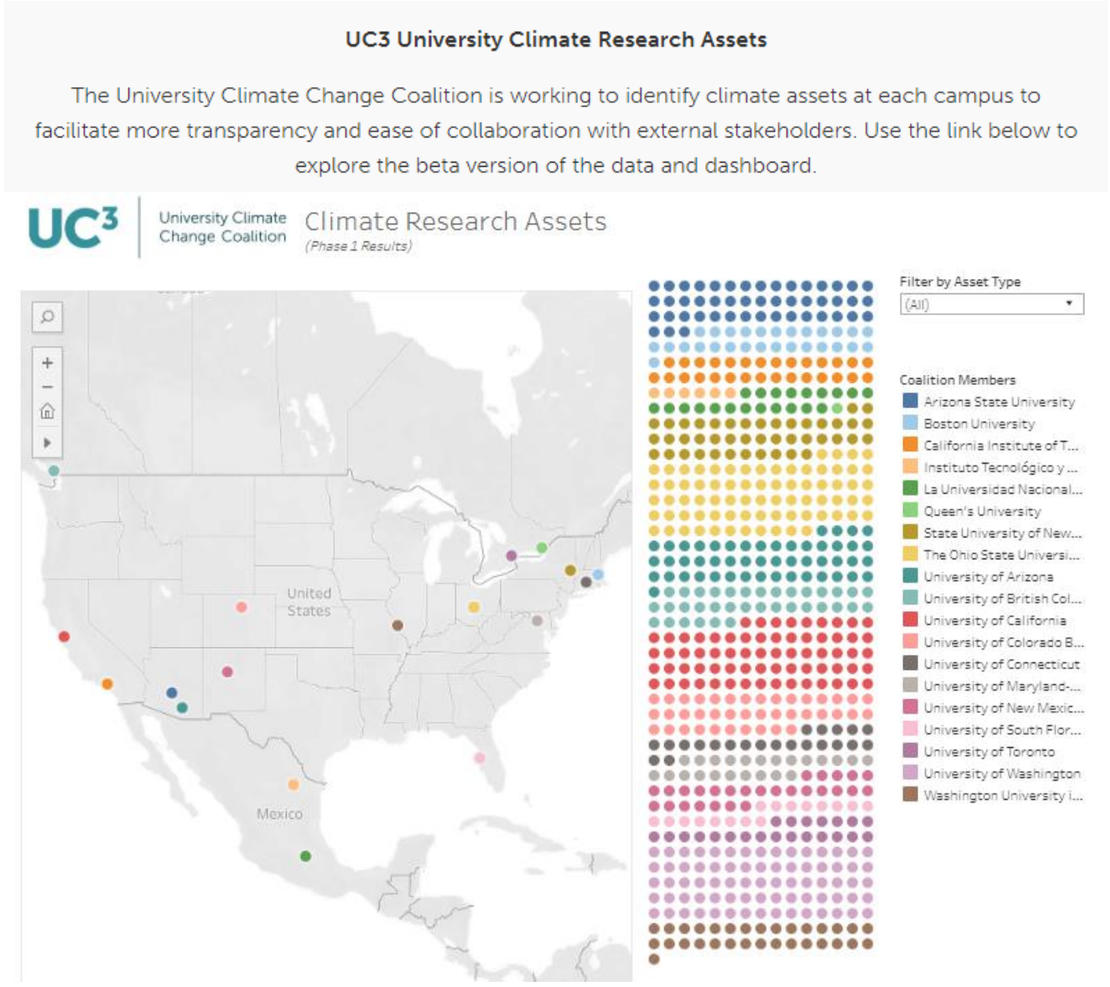
Institution reduced its adjusted net emissions.

Part 3 – LESS THAN A MIN THRESHOLD

Institution's emissions less than the minimum performance threshold

THE UNIVERSITY CLIMATE CHANGE COALITION (UC3)

CROSS-NATIONAL



Universities from **the United States, Canada, and Mexico committing to helping local communities transition to a low-carbon future**

UC3 PURPOSE

UC3 provides thought leadership on and fosters a **robust exchange of best practices and lessons learned** in pursuit of reducing greenhouse emissions and building community resilience.

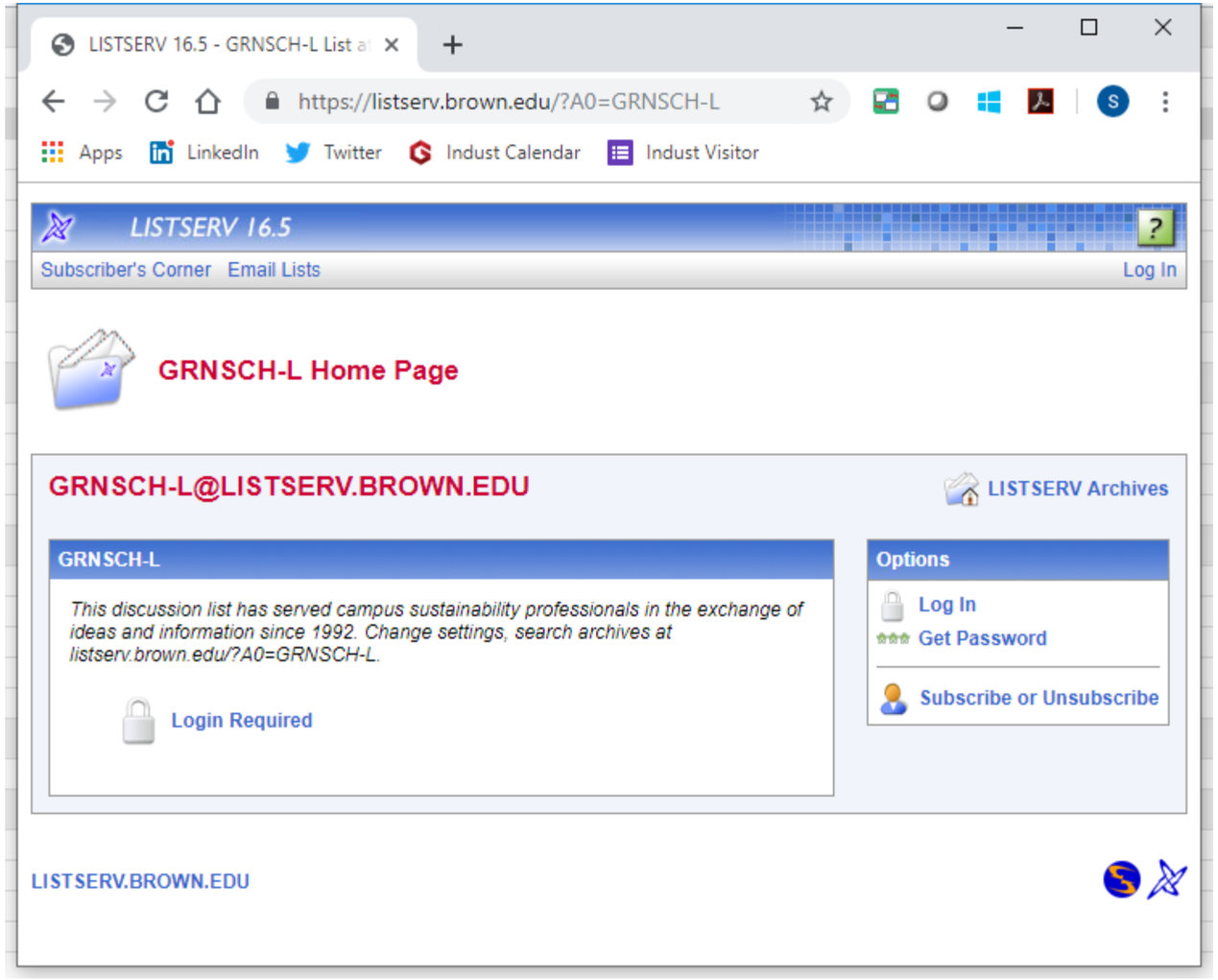
They share this knowledge with fellow coalition members, the higher education sector, their communities, and partners in the public and private sectors by serving as models for climate solutions and re-examining the scientific community's research agenda to accelerate place-based climate action.

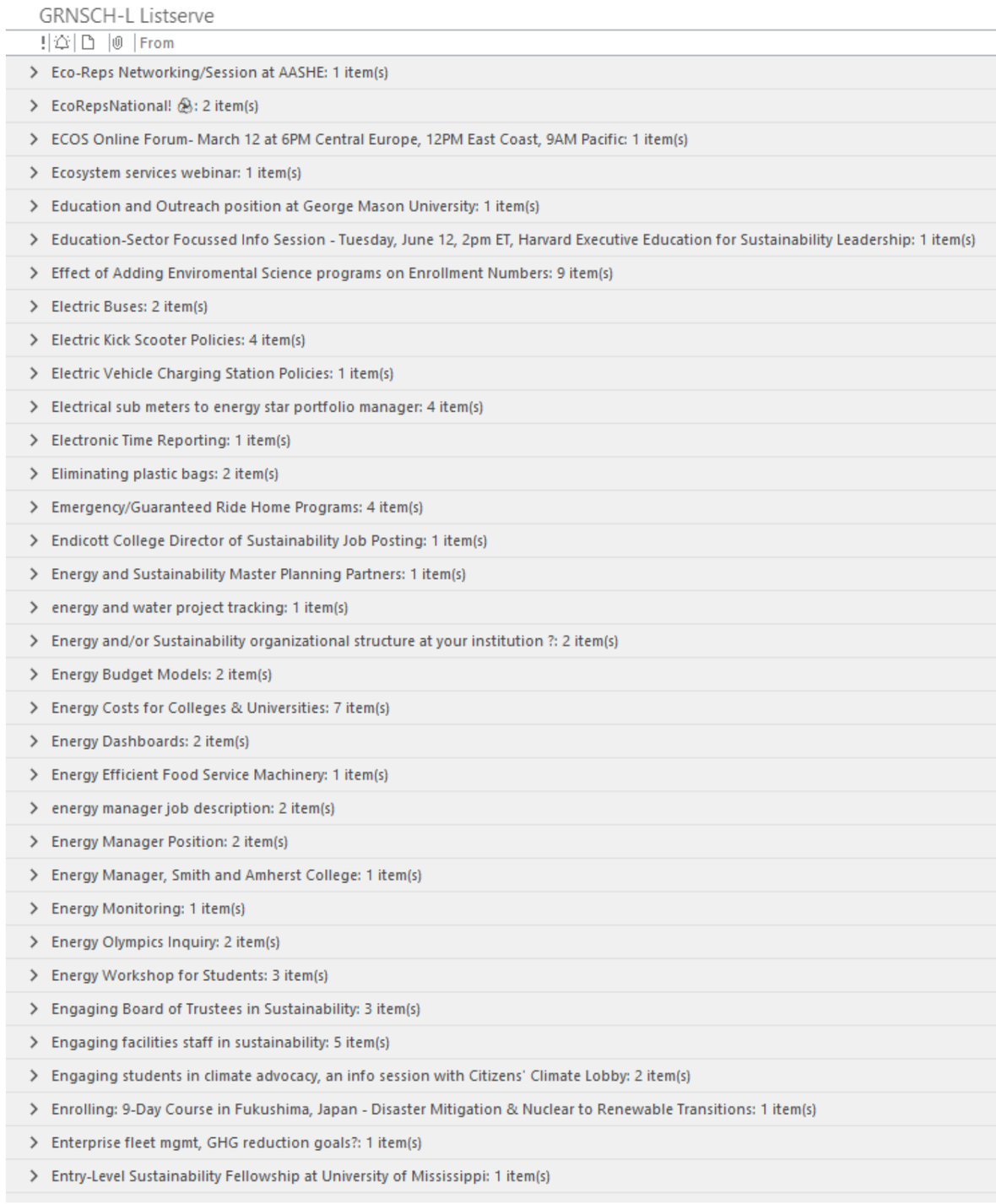
UC3 GUIDING PRINCIPLES

- **Build institutional consensus** to pursue cross-sector climate work by bringing together liaisons from academia, operations, and administration (via the institutional liaisons).
- **Identify & convene local, cross-sector stakeholders** by holding a cross-sector forum.
- **Share knowledge across institutions via monthly meetings, coalition events, public events and other networking opportunities.**
- **Identify and evaluate research** priorities and gaps in the climate solutions research agenda.
- **Collaborate cross-sectorally** and build cross-sector partnerships to accelerate solutions.

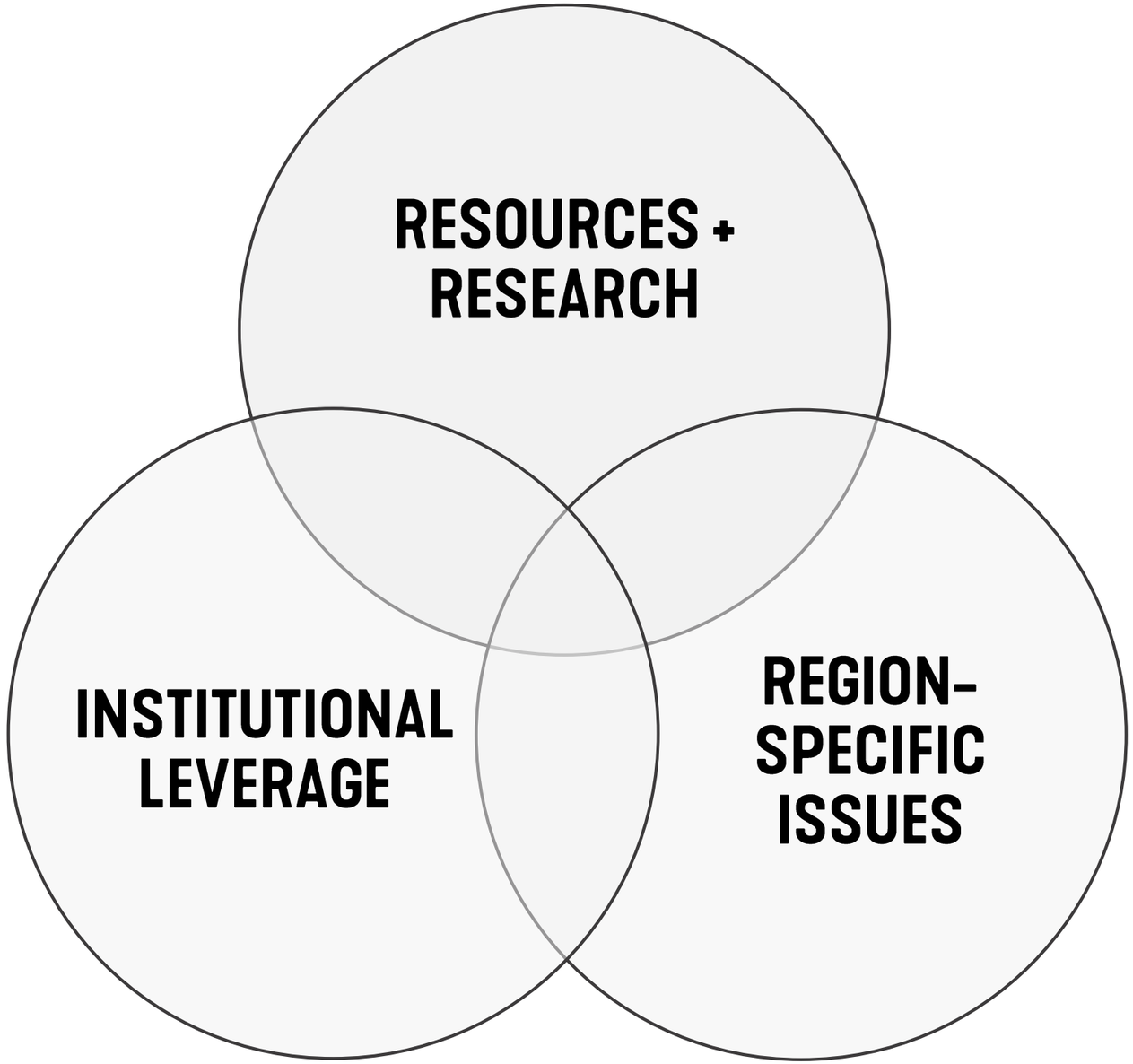
GREEN SCHOOLLIST SERVE (GRNSCH-L)

BROWN UNIVERSITY





WHY IS TOGETHER BETTER?



Universities working in tandem can share best practice, leverage scale, and increase influence to achieve **goals faster and more cost efficiently.**

TYPES OF HIGHER ED. CLIMATE COLLABORATIVES

City Partnerships

Formal partnerships with cities means that universities can advise city climate policy, and vice versa

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State systems can leverage climate decisions under their brand, distributing policy to all connected campuses

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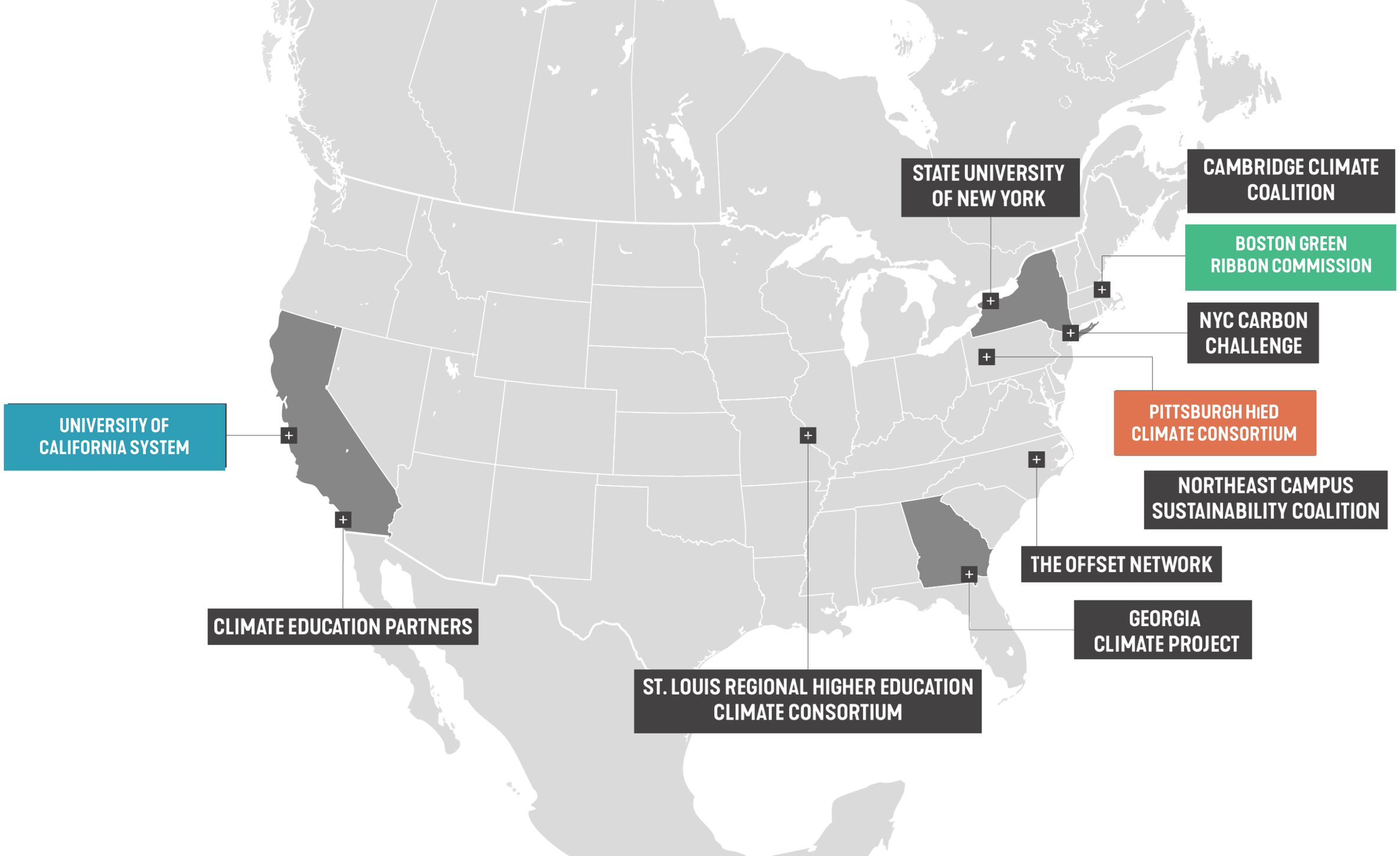
Carbon Reduction + Offset

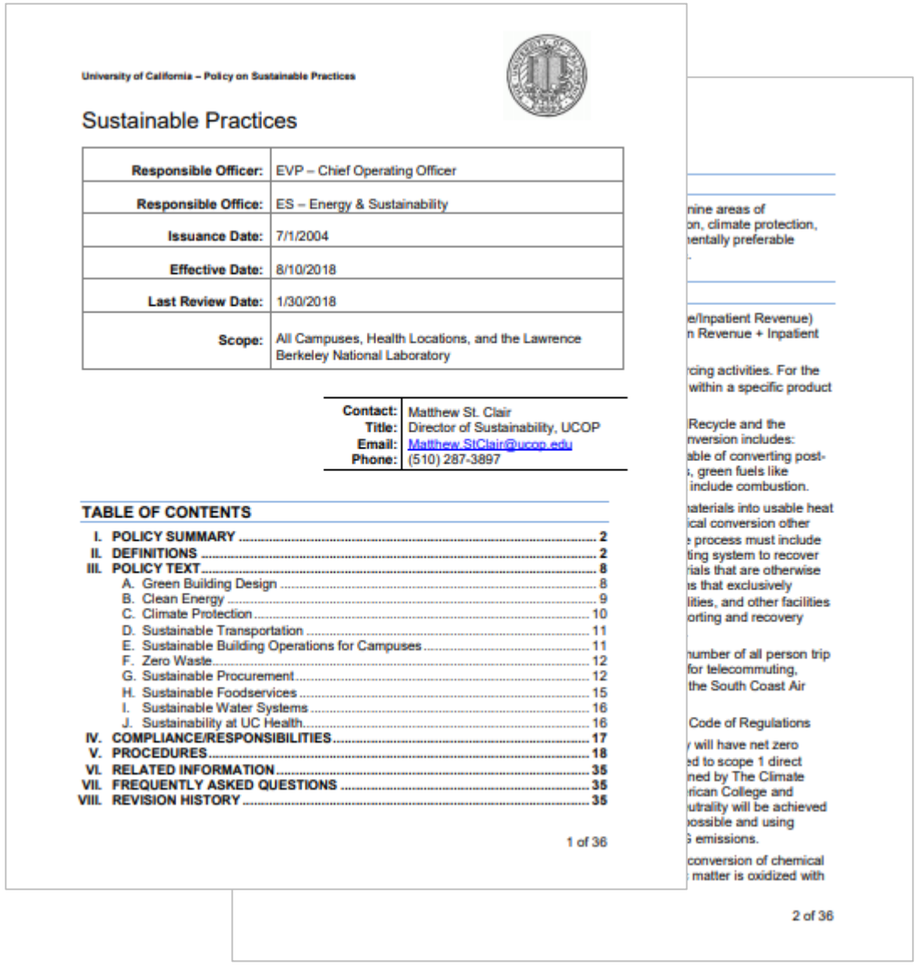
Collaboratives focused on carbon reduction and climate offsets work planning to offset present carbon emissions


STATE UNIVERSITY OF NEW YORK
CAMBRIDGE CLIMATE COALITION
BOSTON GREEN RIBBON COMMISSION
NYC CARBON CHALLENGE
PITTSBURGH HiED CLIMATE CONSORTIUM
NORTHEAST CAMPUS SUSTAINABILITY COALITION
THE OFFSET NETWORK
GEORGIA CLIMATE PROJECT
UNIVERSITY OF CALIFORNIA SYSTEM
CLIMATE EDUCATION PARTNERS
ST. LOUIS REGIONAL HIGHER EDUCATION CLIMATE CONSORTIUM

UNIVERSITY OF CALIFORNIA SYSTEM

UNIVERSITY OF CALIFORNIA SYSTEM

10 campuses committed to the **UC – Policy** on **Sustainable Practices**



University of California – Policy on Sustainable Practices

Sustainable Practices

Responsible Officer:	EVP – Chief Operating Officer
Responsible Office:	ES – Energy & Sustainability
Issuance Date:	7/1/2004
Effective Date:	8/10/2018
Last Review Date:	1/30/2018
Scope:	All Campuses, Health Locations, and the Lawrence Berkeley National Laboratory

Contact: Matthew St. Clair
Title: Director of Sustainability, UCOP
Email: Matthew.StClair@ucop.edu
Phone: (510) 287-3897

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UNIVERSITY OF CALIFORNIA Office of the President

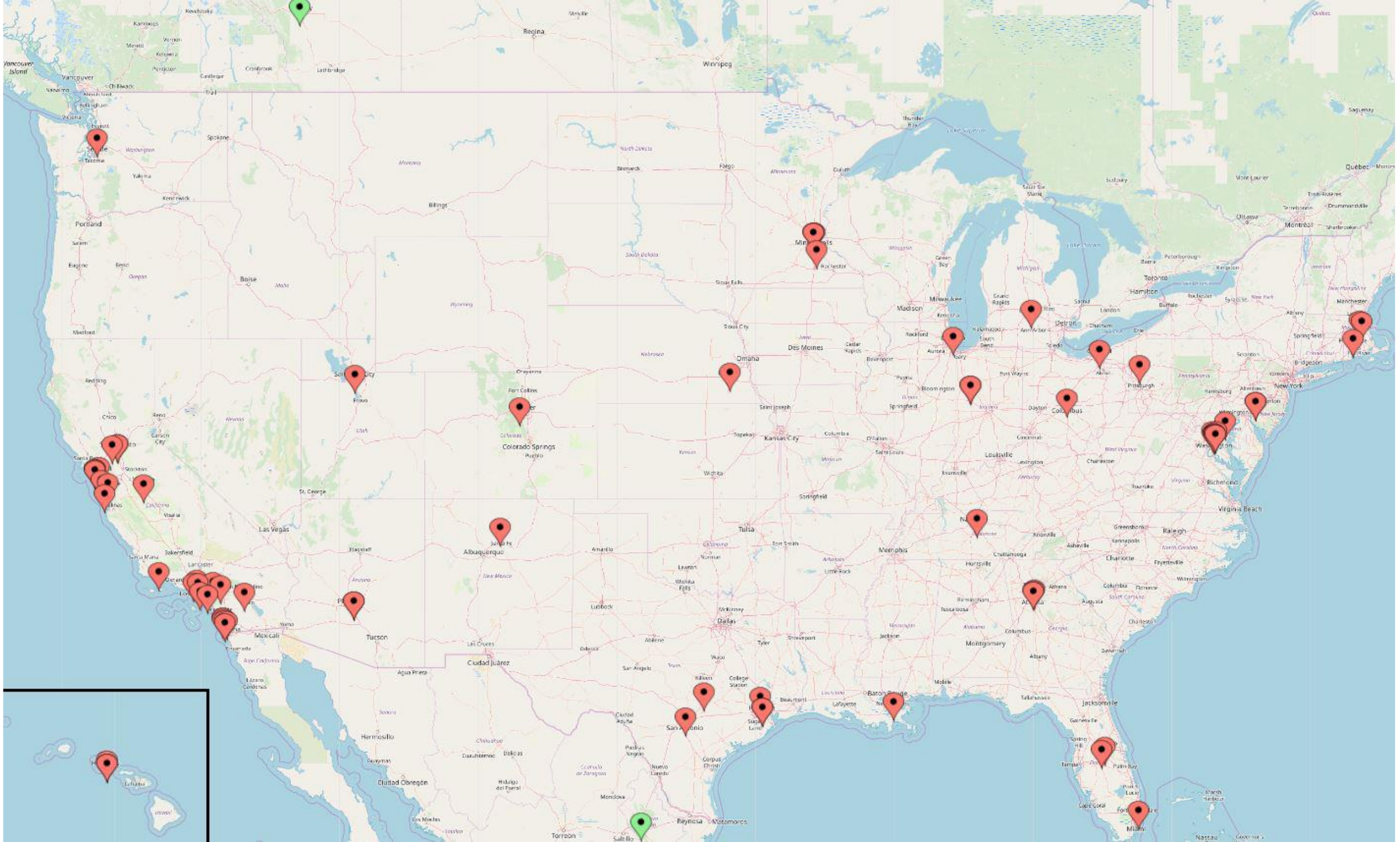
WHY DO COLLEGES AND UNIVERSITIES COLLABORATE?

- Our social responsibility as a public research university
- “Bending the curve” of rising GHG emissions
- We improve our ideas through critical feedback and others’ best practices

WHAT DO WE COLLABORATE ABOUT?

- Climate action plans
- Building more efficient buildings
- Deep energy efficiency and de-carbonization
- Other sustainability actions

DEEP ENERGY EFFICIENCY AND DE-CARBONIZATION


Regina
Winnipeg
Vancouver
Portland
Seattle
Spokane
Billings
Boise
Bismarck
Fargo
Minneapolis
Rochester
Sioux Falls
Sioux City
Omaha
Des Moines
Cedar Rapids
Madison
Milwaukee
Green Bay
Detroit
Toronto
Hamilton
Buffalo
Montréal
Québec
Ottawa
Saguenay
Colorado Springs
Fort Collins
Denver
Kansas City
Topeka
Wichita
St. Louis
Chicago
Indianapolis
Columbus
Pittsburgh
Cleveland
Louisville
Cincinnati
Nashville
Memphis
Little Rock
Tulsa
Oklahoma City
Dallas
Fort Worth
Austin
San Antonio
Houston
Baton Rouge
New Orleans
Atlanta
Charlotte
Raleigh
Richmond
Virginia Beach
Washington
Philadelphia
New York
Albany
Boston
Springfield
Jacksonville
Tampa
Miami
Orlando
Las Vegas
Albuquerque
Santa Fe
Phoenix
Tucson
Flagstaff
El Paso
Ciudad Juárez
Hermosillo
Ciudad Obregón
Reynosa
Matamoros
Monterrey
Saltillo
Torreón
Nassau
San Francisco
Los Angeles
San Diego
Sacramento
Fresno
Bakersfield
Reno
Salt Lake City
Provo
Honolulu


Norge
Беларусь
Deutschland
Україна
France
România
Italia
España
Ελλάδα
Türkiye
Казахстан
Монгол
улс
O'zbekiston
Türkmenistan
日本
中国
افغانستان
ایران
العراق
پاکستان
Maroc ⵍⵎⵖⵔⵉⴱ
المغرب
الجزائر ⴷⵣⴰⵢⵔ
ليبيا
مصر
السعودية
عمان
India
موريتانيا
Mali
Niger
Tchad تشاد
السودان
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الصومال
République
démocratique
du Congo
Tanzania
Bay of
Bengal
Việt Nam
Philippines
Malaysia
Indonesia
Papua Niugi

The Society for College and University Planning

National Association of College and University Business Officers

aashe
The Association for the Advancement of Sustainability in Higher Education

Second Nature

DESIGNING FOR LIFE-CYCLE PERFORMANCE

University of California, Irvine
Construction Standards and Costs

The University of California, Irvine pursues performance goals in new construction and applies quality standards that affect the costs of capital projects. Construction costs are not "high" or "low" in the *abstract*, but rather in relation to specific quality standards and the design solutions, means, and methods used to attain these standards. Thus, evaluating whether construction costs are appropriate involves determining whether:

- Quality standards are excessive, insufficient, or appropriate;
- Resultant project costs are reasonable compared to projects with essentially the same quality parameters.

"Quality" encompasses the durability of building systems and finishes; the robustness and life-cycle performance of building systems; the aesthetics of materials, their composition, and their detailing; and the resource sustainability and efficiency of the building as an overall system.

Overall Goals and Quality Standards

UCI, in order to support distinguished research and academic programs, builds facilities of high quality. As such, UCI facilities are designed to convey the "look and feel," as well as embody the inherent construction quality, of the best facilities of other UC campuses, leading public universities, and other research institutions with whom we compete for faculty, students, sponsored research, and general reputation.

Since 1992, new buildings have been designed to achieve five broad goals:

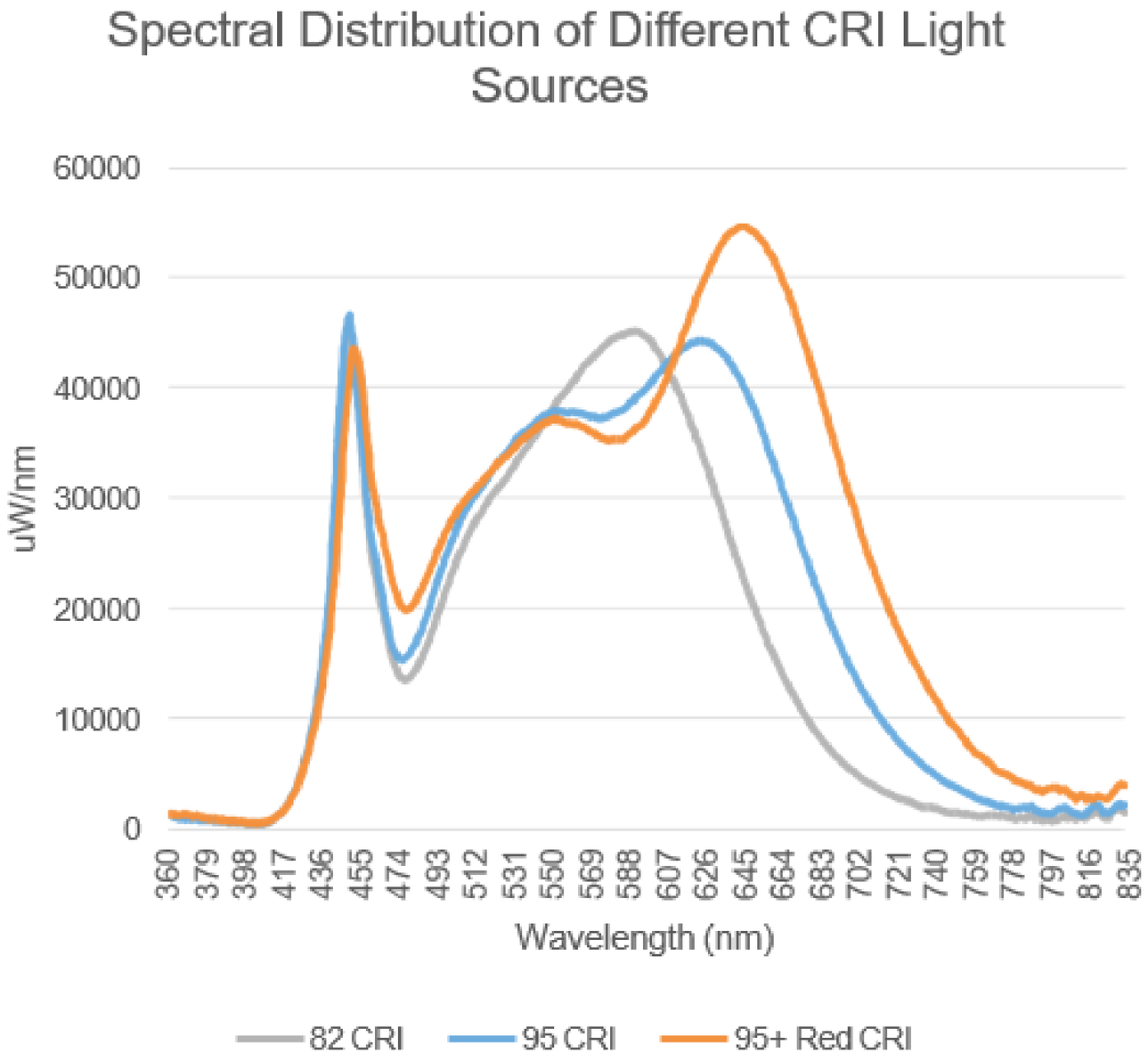
1. New buildings must "create a place," rather than constitute stand-alone objects – forming social, aesthetic, contextually sensitive relationships with neighboring buildings and the larger campus.
2. New buildings reinforce a consistent design framework of classical contextual architecture, applied in ways that convey a feeling of permanence and quality, and interpreted in ways that meet the contemporary and changing needs of a modern research university.
3. New buildings employ materials, systems, and design features that will forestall the expense of major maintenance (defined as >1 percent of value) for at least 20 years.
4. New buildings attain exemplary sustainability performance – at least LEED Gold and outperforming California's Title 24 energy efficiency standards by as much as 50 percent.
5. Capital construction projects are designed and delivered within the approved project budget, scope, and schedule.

UCI

University of California, Irvine
Construction Standards and Costs

PILOT TO EVALUATE WHETHER HIGH-CRI LIGHTING IMPROVES CLINICAL ASSESSMENT

FLUORESCENT VS. HIGH-CRI LED LIGHTING



OTHER CLINICAL CANDIDATES (BESIDES DERMATOLOGY) FOR HIGH CRI–LIGHTING

PRIMARY CARE

Critical analysis of skin color can provide early signs of ill health, including cyanosis, jaundice, uremia, anemia.

INTENSIVE CARE

ICU, NICU, PICU, Step-Down Unit, and Burn Unit low-CRI lighting may let subtle changes in tissue perfusion go unnoticed until the patient's medical and surgical welfare is compromised. Certain ICU drugs that could compromise circulation and tissue perfusion makes the case for high-CRI lighting. Detection of subtle changes in skin color that can occur with titration of these drugs enables early intervention to avoid tissue damage, costly treatment, and additional length-of-stay.

HOSPITAL CARE

Accurate assessment of skin color is required in patients who are status post skin flaps (pink, blue, white), and patients with vascular compromise of limbs (vasculitis, embolic, cocaine).

HOSPITAL PATIENT ROOM LIGHTING PILOT

CAN PATIENTS LEAVE THE HOSPITAL HEALTHIER SOONER IF LIGHTING DOES NOT INTERFERE WITH CIRCADIAN RHYTHMS?

CONVERT CENTRAL COOLING TOWERS TO RECLAIMED WATER

SAVES 80 MILLION GALLONS/YEAR

SAVES 81,766 kWh/YEAR

COLLABORATIVE PROJECT WITH IRVINE RANCH WATER DISTRICT

IRVINE RANCH WATER DISTRICT

- Approximately $1.5 million for pipelines
- Cost recovered through lower cost of water and funds from Metropolitan Water District (MWD)

UC IRVINE

- Approximately $1 million for Central Plant improvements
- IRWD funding the improvements
- Will continue to pay potable rate
- Less than 10 years to recover capital cost

BEST PRACTICE BORROWED FROM THE OHIO STATE UNIVERSITY

SPEEDS UP LAB RENOVATIONS

MINIMIZES COST OF LAB RENOVATIONS


icon




wcbrase@uci.edu

UCI University of California, Irvine

BOSTON GREEN RIBBON COMMISSION

BOSTON Green Ribbon COMMISSION

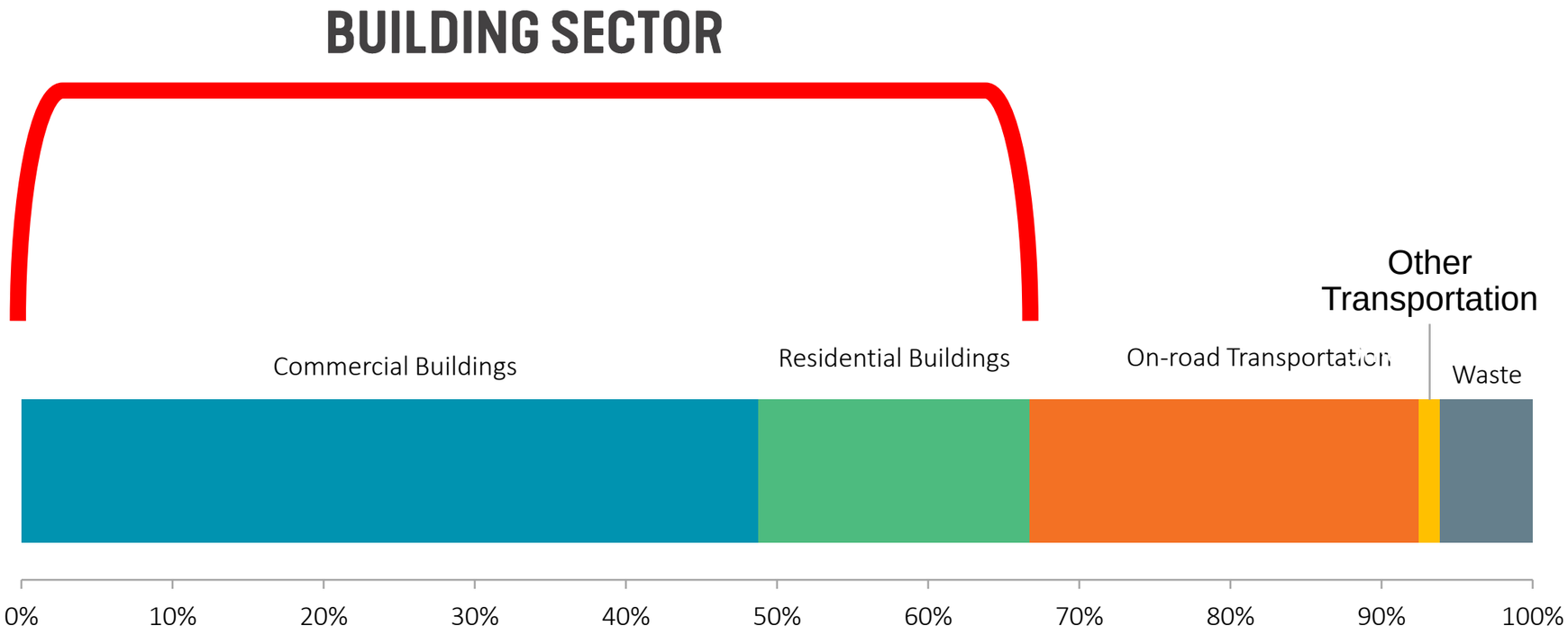
The mission of the Green Ribbon Commission is to convene leaders from Boston's key sectors to support the outcomes of the City's Climate Action Plan.

COMMON AGENDA

BOSTON'S GREENHOUSE GAS EMISSIONS

GHG REDUCTION CHALLENGE

- 2015: 7.2 Million $MTCO_2e$
- 2/3s in Building Sector
- 85% of building stock projected in 2050 already exists



COMMON AGENDA

BOSTON CLIMATE ACTION PLAN

GHG REDUCTION TARGETS

- 2007 – Climate Action Plan
- 2005 Base Year
- 25% by 2020
- 80% by 2050
- 2016 update:
  - Carbon Free by 2050

COMMON AGENDA

LEADERSHIP

- Mayor
- 35 Largest Real Estate Holdings, Stakeholders, & Climate Leaders
- Sector Working Groups
  - Higher Ed
  - Commercial RE
  - Healthcare
  - Cultural Institutions

COMMON AGENDA

HIGHER ED WORKING GROUP

- Boston University
- Harvard University
- MIT
- Northeastern University
- UMass Boston

COMMON AGENDA

COLLABORATION

- Subject Working Groups
  - Transportation
  - Climate Preparedness
  - Carbon Free Boston
  - Greenovate Boston

REINFORCING ACTIVITIES

REINFORCING ACTIVITIES

1. High Level Engagement
   - Bi-annual meetings
2. Working Groups
   - Monthly meetings

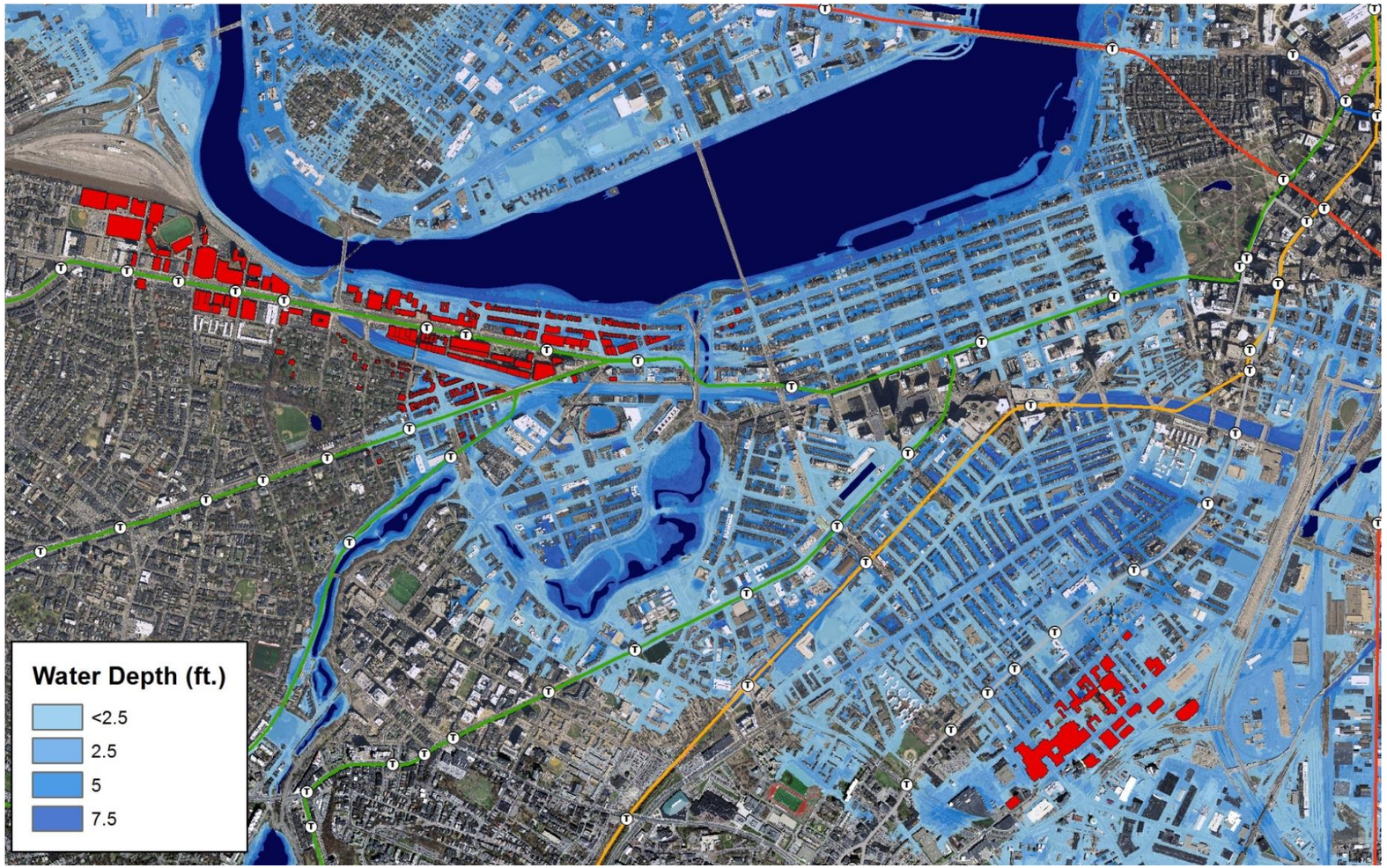
REINFORCING ACTIVITIES

1. High Level Engagement
   - Bi-annual meetings
2. Working Groups
   - Monthly meetings
3. Convenings - Climate Action Plan Update

REINFORCING ACTIVITIES

CONVENINGS

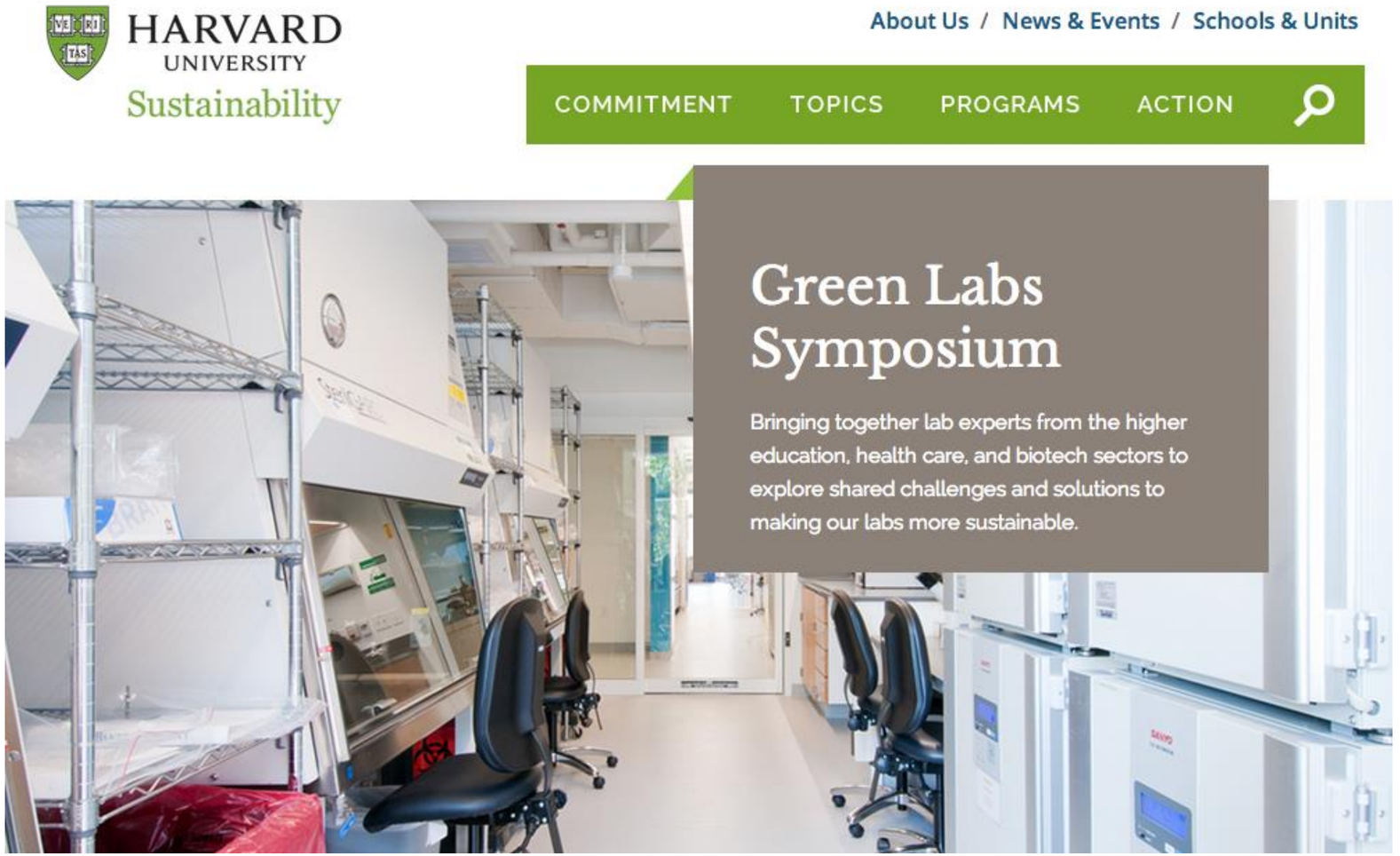
1. High Level Engagement
   - Bi-annual meetings
2. Working Groups
   - Monthly meetings
3. Climate Action Plan Update
4. Preparing for Climate Change
   - Sea level rise
   - Increased heat
   - Storm intensity
   - Resource Availability



REINFORCING ACTIVITIES

CONVENINGS

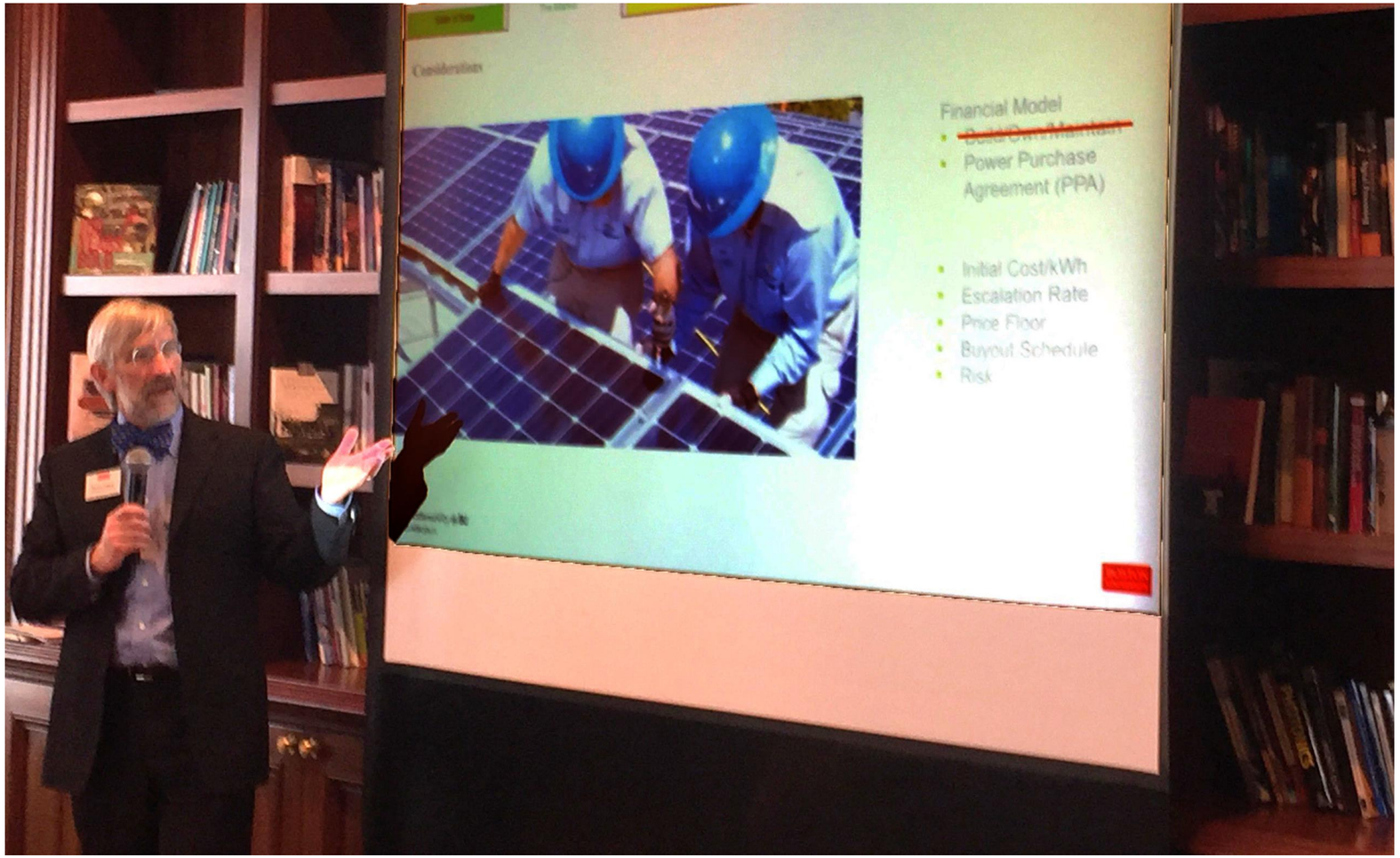
5. Green Labs Symposium
   - 1 day
   - Cross sector event
   - Wendell Brase et. El. UC Irvine
   - I²SL
   - Utilities



REINFORCING ACTIVITIES

CONVENINGS

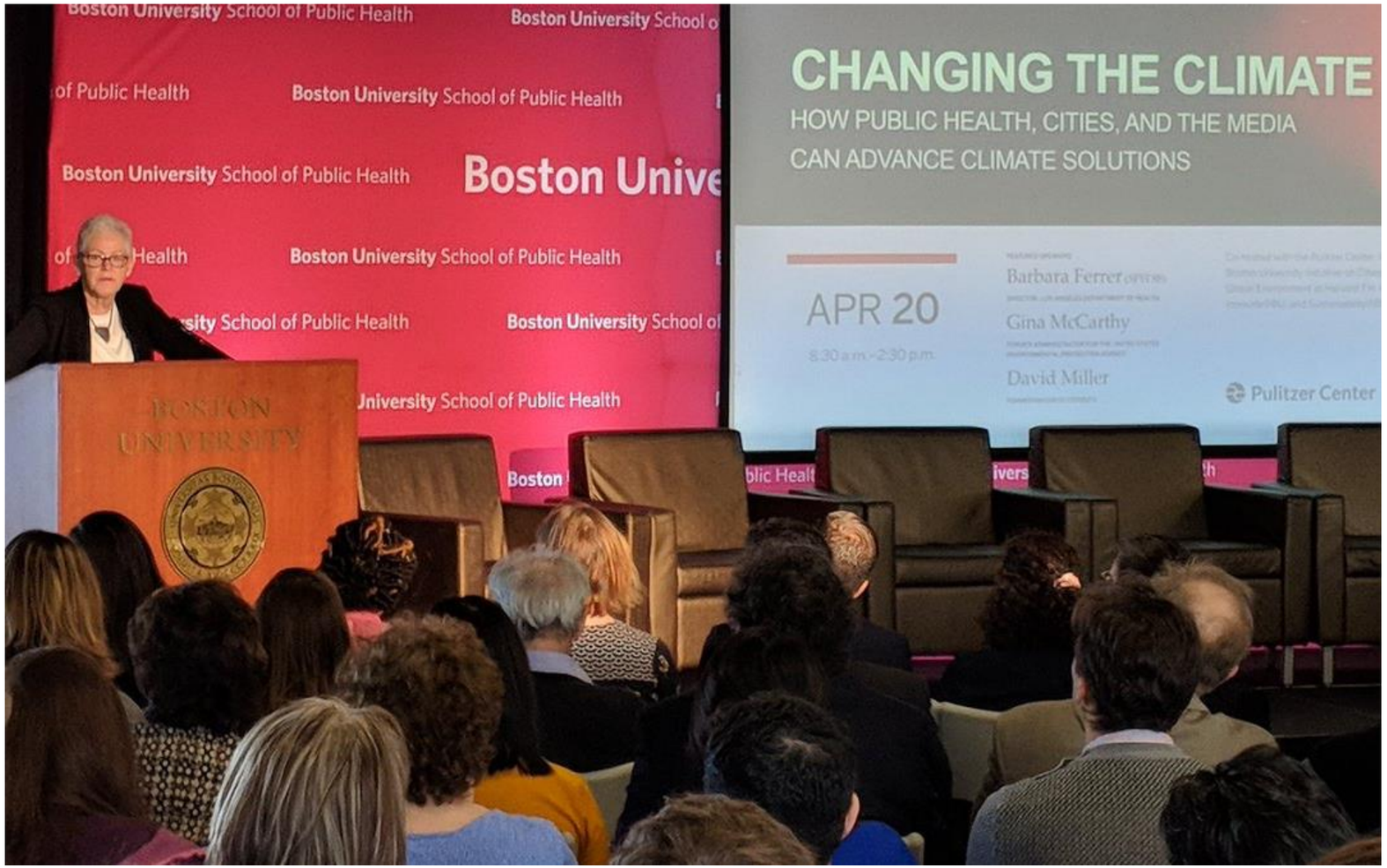
6. Renewable Energy
   - Purchasing Network
   - ½ day Forum
   - Renewable Energy Prize
   - Full day Workshop
   - Outcomes
   - Endicott/Tufts aggregation
   - MIT/BMC/POSA aggregation
   - BU Wind



REINFORCING ACTIVITIES

CONVENINGS

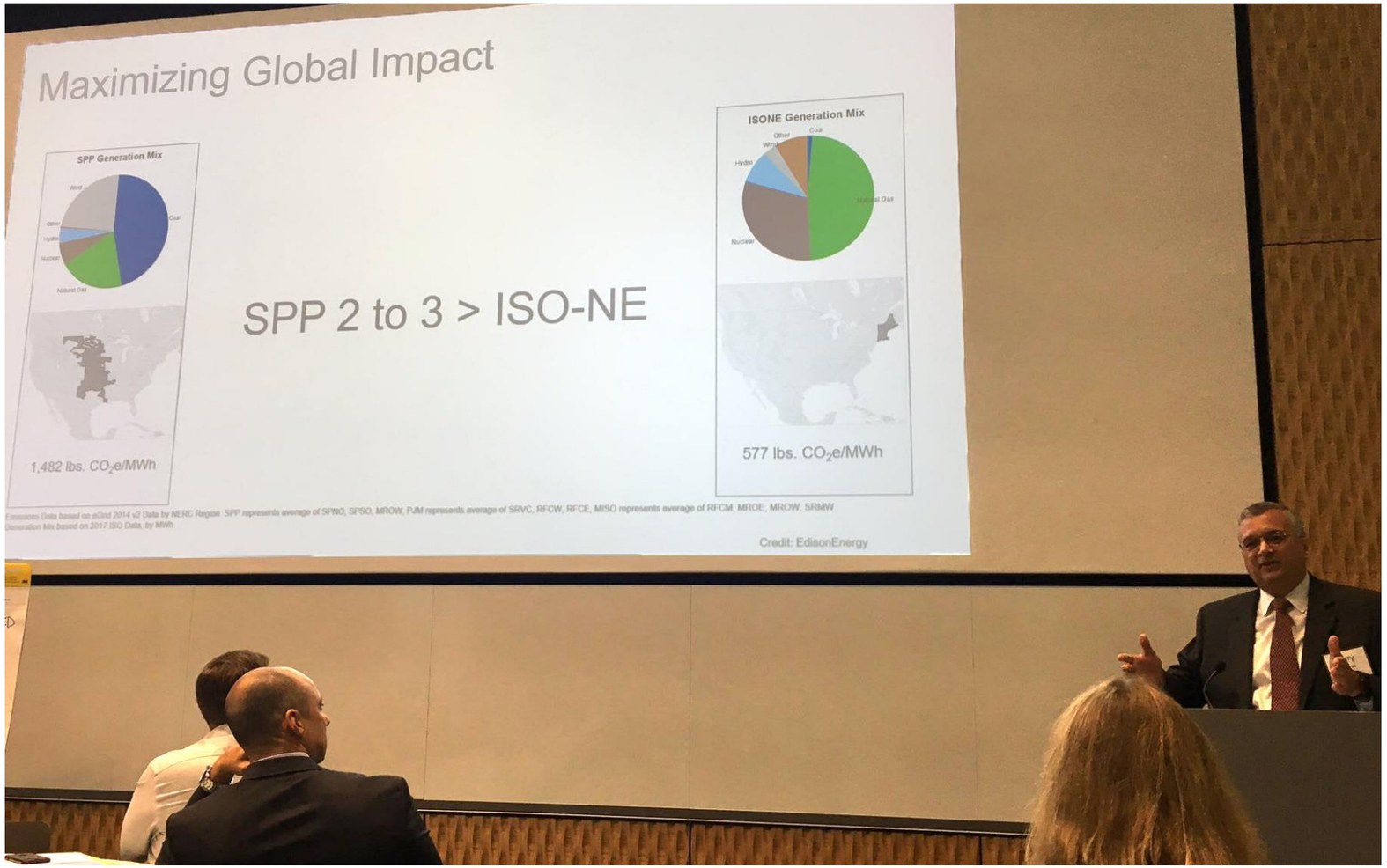
7. Public Health & Climate
   - 1 day
   - Cross sector event
   - City leaders
   - Gina McCarthy
   - Schools of Public Health
   - New York Times



REINFORCING ACTIVITIES

CONVENINGS

8. First Movers
   - 1/2 day
   - Cross sector event
   - Renewable Energy
   - Energy Efficiency
   - Geothermal (GSHP)



REINFORCING ACTIVITIES

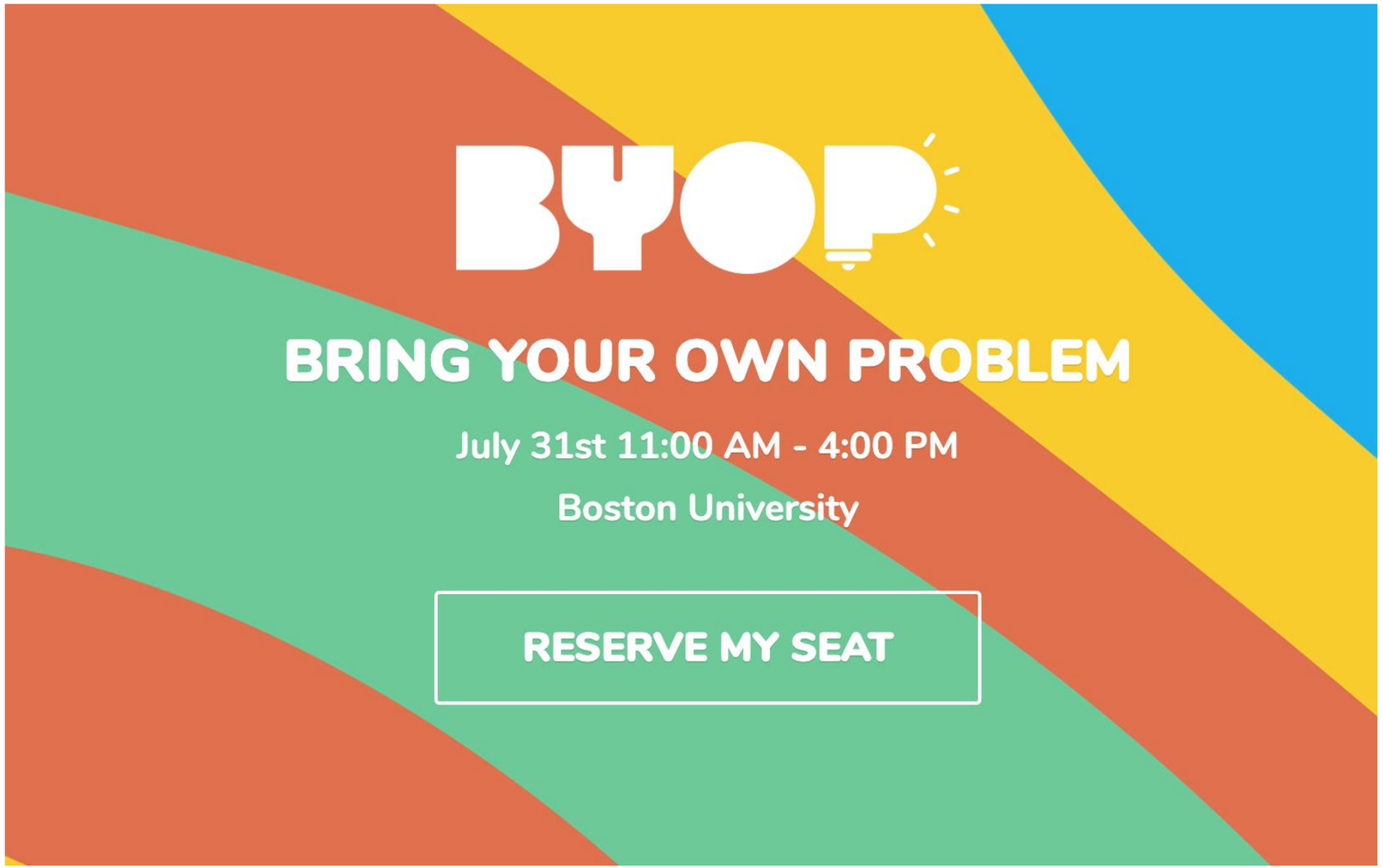
CONVENINGS

9. Large Scale Renewables
   - 1 day
   - Cross sector event
   - Follow up to First Movers
   - Criteria setting
   - Deal structure
   - Market factors
   - Risk factors
   - Outcomes
   - Municipal aggregation for over 100 communities
   - 6 real estate & healthcare
   - 7 universities

REINFORCING ACTIVITIES

CONVENINGS

10. Bring Your Own Problem
    - 1/2 day
    - Higher Ed sector focus
    - Second Nature
    - ENGIE
    - Ohio State University

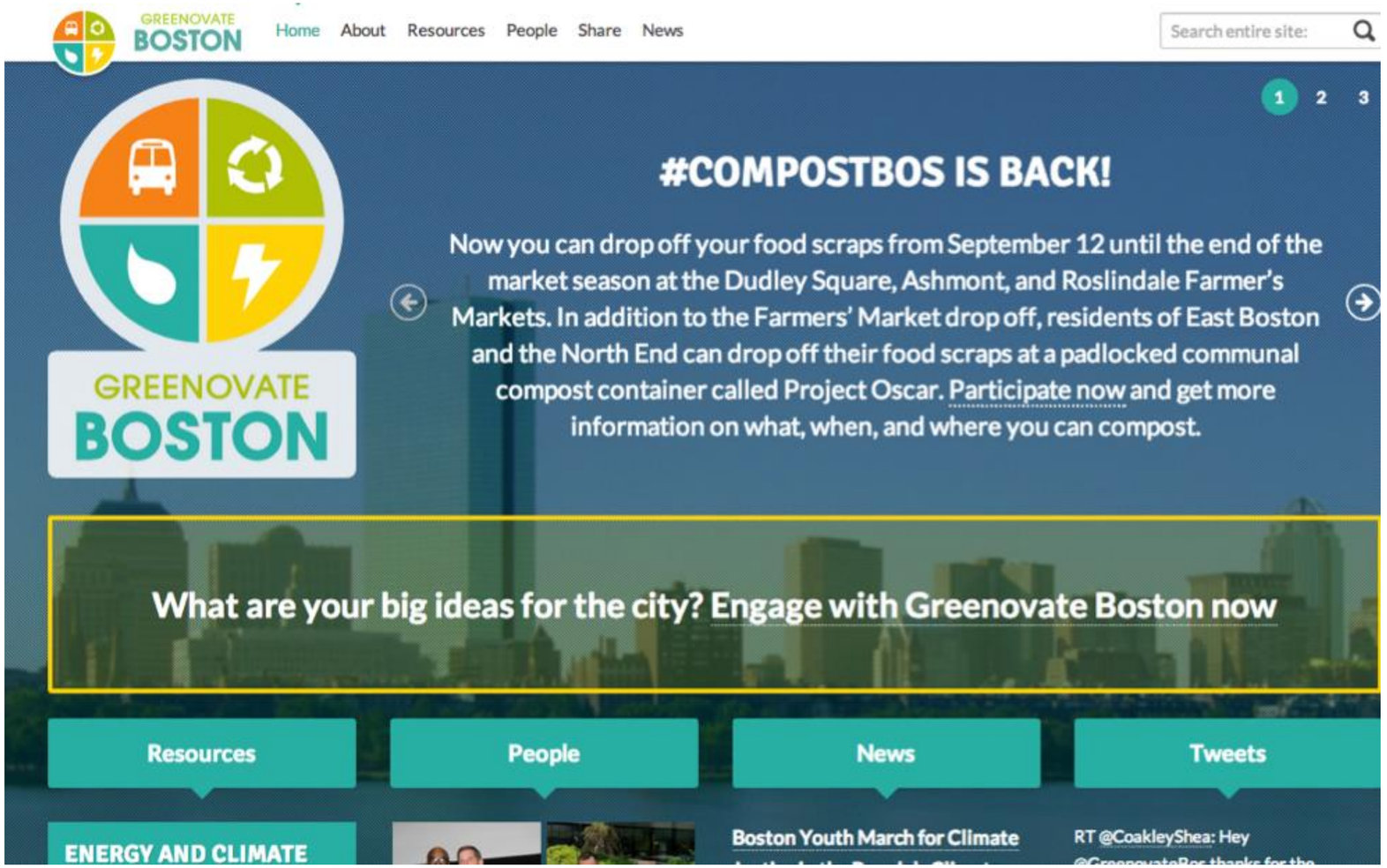


CONTINUOUS COMMUNICATIONS

CONTINUOUS COMMUNICATIONS

ENGAGE THE COMMUNITY

- Memorable Concepts
  - Physical presence
  - Web presence
  - Interactive
  - Social



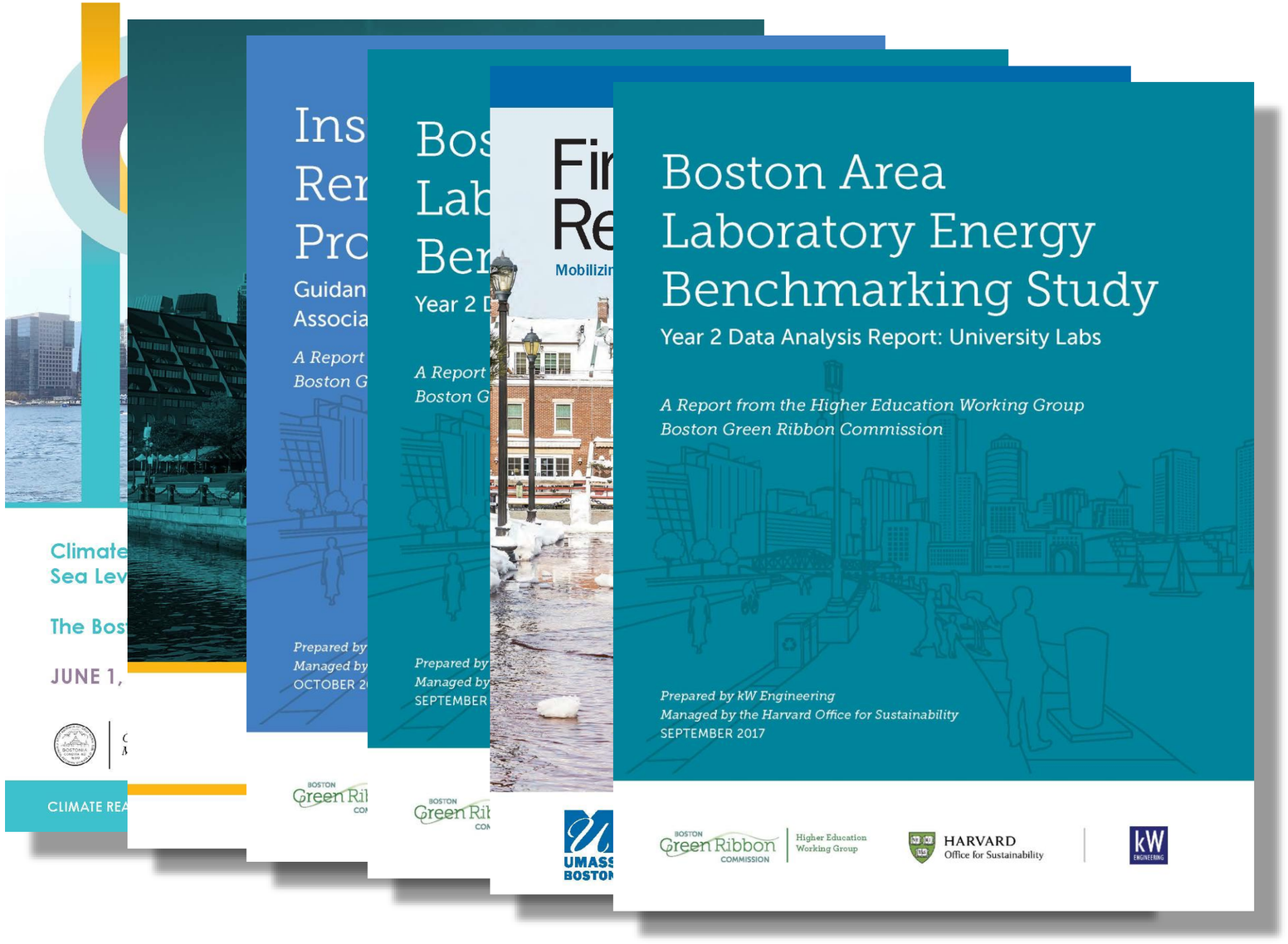
RESULTS / SHARED MEASUREMENT

RESULTS / SHARED MEASUREMENT

PLACED-BASED SCIENCE DRIVEN SOLUTIONS

RESULTS

- 2016
  - Boston Research Advisory Group (BRAG)
  - Climate Ready Boston
  - Renewable Energy Procurement
- 2017
  - Lab Energy Benchmarking
- 2018
  - Financing Climate Resilience
  - Lab Energy Update



RESULTS / SHARED MEASUREMENT

PLACED-BASED SCIENCE DRIVEN SOLUTIONS

RESULTS

- 2018
  - Financing Climate Resilience
  - Lab Energy Benchmarking
  - Harbor Barrier Study
- 2019
  - Carbon Free Boston
  - Carbon Free Boston Social Equity
- 2020

RESULTS / SHARED MEASUREMENT

BUILDING ENERGY REPORTING & DISCLOSURE ORDINANCE (BERDO)

RESULTS

- Development
- Support
- Training

RESULTS / SHARED MEASUREMENT

BUILDING ENERGY REPORTING & DISCLOSURE ORDINANCE (BERDO)

EXECUTION

- Portfolio Manager
- Buildings over 35ksf
- 5 year cycle
- Energy Audits
- 15% EUI reduction

BACKBONE SUPPORT

BACKBONE SUPPORT

- Dedicated Organization
  - Direction from the top
  - Skilled team
  - Financial support
- Organization
  - Working groups
  - Tasked to deliver
  - Develop programs

BACKBONE SUPPORT

SUPPORT

- Barr Foundation
- Bank of America
- The Grantham Foundation
- Henry P. Kendall Foundation
- The Boston Foundation
- Boston Properties
- Avalon Bay Communities
- Sherry and Alan Leventhal Family Foundation
- Equity Residential
- Arbella Insurance
- Eversource
- National Grid
- Turner Construction
- Orsted

BOSTON Green Ribbon COMMISSION

Creates the environment we need for us all to achieve our sustainability goals

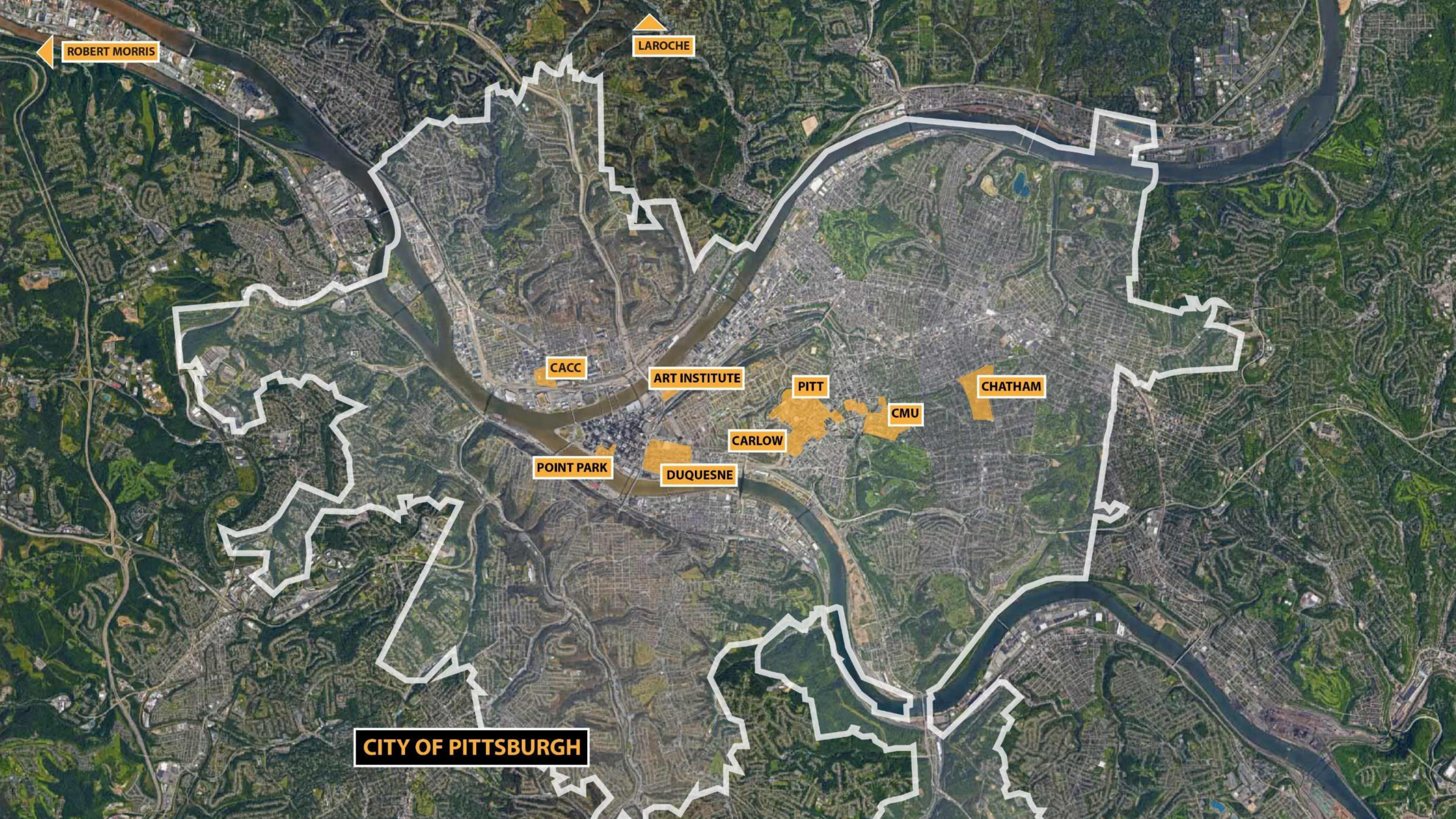
BOSTON UNIVERSITY

BOSTON Green Ribbon COMMISSION

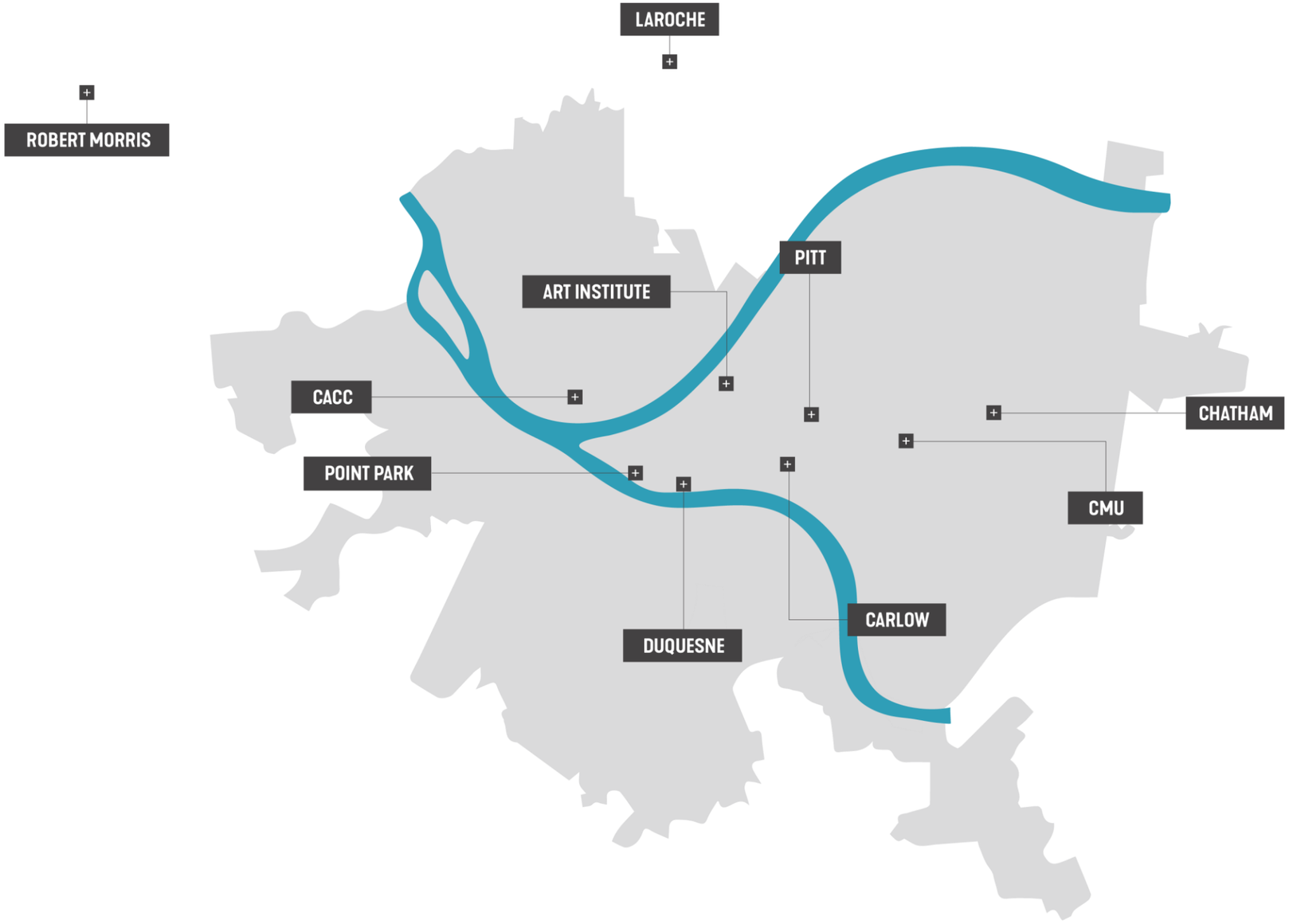
Dennis Carlberg
carlberg@bu.edu

PITTSBURGH HECC

(HIGHER ED CLIMATE CONSORTIUM)


ROBERT MORRIS
LAROCHE
CACC
ART INSTITUTE
PITT
CMU
CHATHAM
CARLOW
POINT PARK
DUQUESNE
CITY OF PITTSBURGH

HIGHER ED CLIMATE CONSORTIUM
CITY OF PITTSBURGH



STUDENT POPULATION

PITT	28,600
CCAC	26,800
CMU	14,500
DUQUESNE	9,300
ART INSTITUTE	6,200
ROBERT MOR.	5,200
POINT PARK	4,100
CHATHAM	2,300
CARLOW	2,300
LAROCHE	1,500

HIGHER ED CLIMATE CONSORTIUM
CITY OF PITTSBURGH

HECC MISSION:
REDUCE THE GHG OF PITTSBURGH

…by actively engaging all Pittsburgh region colleges and universities to:

1. **COLLABORATE,**
2. **SHARE INFORMATION, AND**
3. **SET GOALS REGARDING:**
   - research agenda
   - education curricula,
   - operations,
   - outreach activities, and
   - commitments that reduce GHG emissions

chatham UNIVERSITY

Carlow University

University of Pittsburgh

The Art Institute of Pittsburgh

CCAC

La Roche COLLEGE

Carnegie Mellon University

Robert Morris University

PennState Center Pittsburgh

Duquesne University

POINT PARK UNIVERSITY

OAKLAND ECONOMIC DEVELOPMENT PLAN

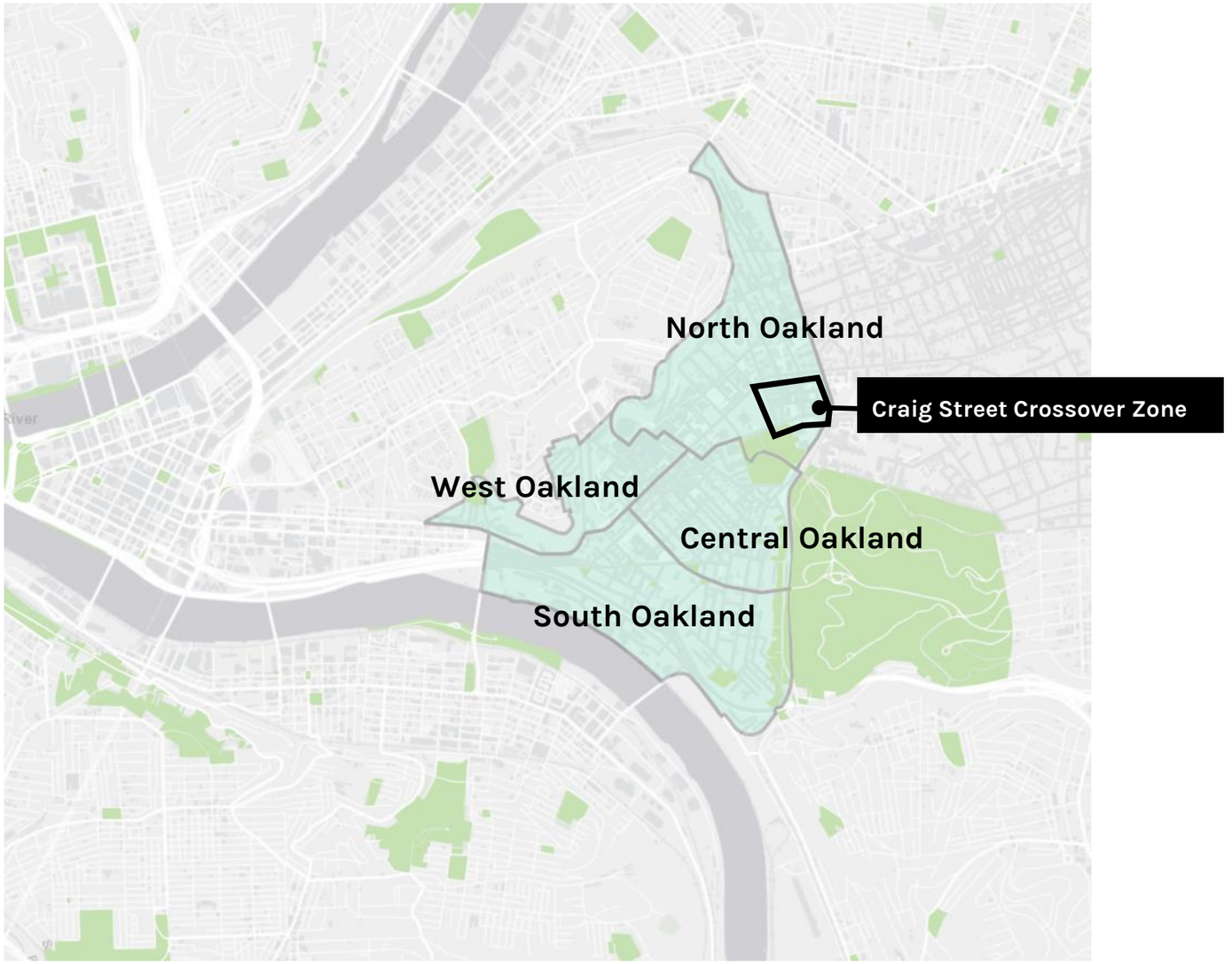

CITY OF PITTSBURGH

Office of Management & Budget

On behalf of the

Department of City Planning

Request for Proposal



The Oakland Economic Development and Urban Studies Request for Proposals seeks to investigate economic implications and growth associated with Oakland's market trends, housing affordability, workforce training and business support. The RFP also seeks to understand the physical character of Oakland.

Tentative Completion: 2020/2021

ECODISTRICTS INCUBATOR – OAKLAND LEADING POSITIONING

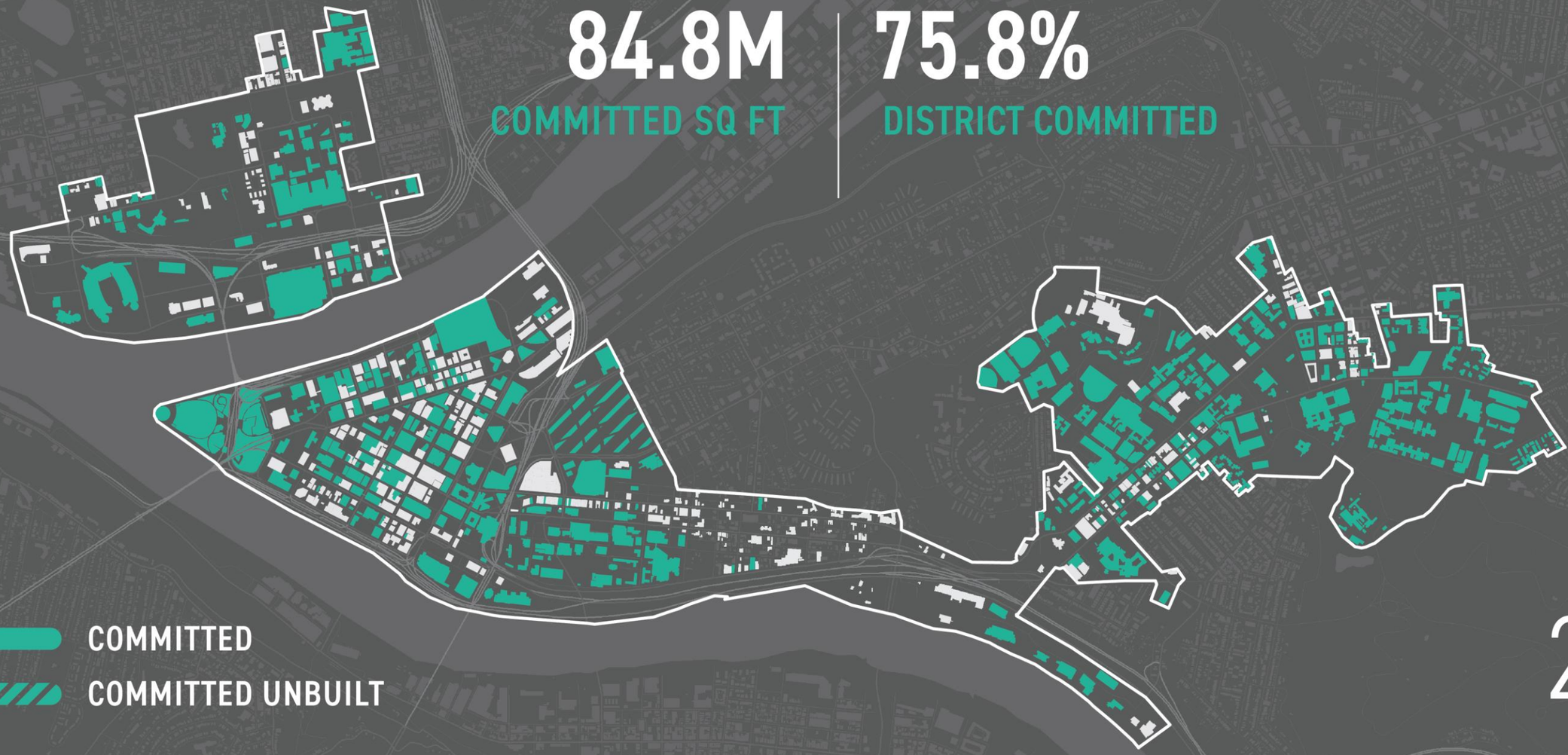
The EcoDistricts Incubator brings together 13 communities and leaders to review protocol that advances community goals. This includes: Pittsburgh Innovation District, University of Pittsburgh, Carnegie Mellon University, University of Pittsburgh Medical Center, Oakland Community Development Corporation, and others.

EcoDistricts INCUBATOR™

540 BUILDINGS COMMITTED

84.8M
COMMITTED SQ FT

75.8%
DISTRICT COMMITTED



COMMITTED

COMMITTED UNBUILT

Green Building Alliance

2019

PITTSBURGH'S CLIMATE GOALS

2030 GOALS:

CITY OPERATIONS

100% renewable elect.

100% fossil fuel free fleet

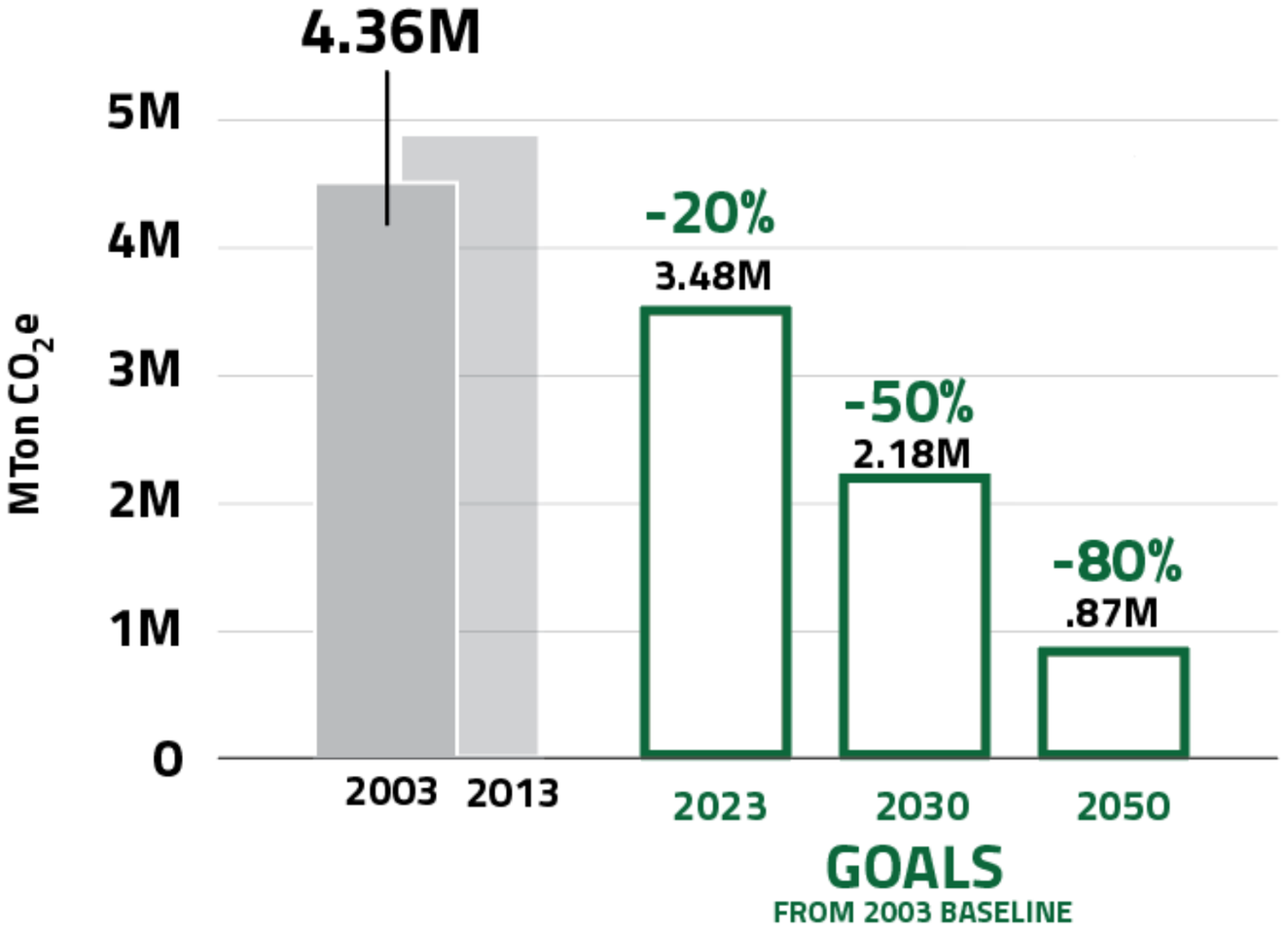
Divestment of City pensions

CITY OF PITTSBURGH

50% energy & water use

50% transport emission

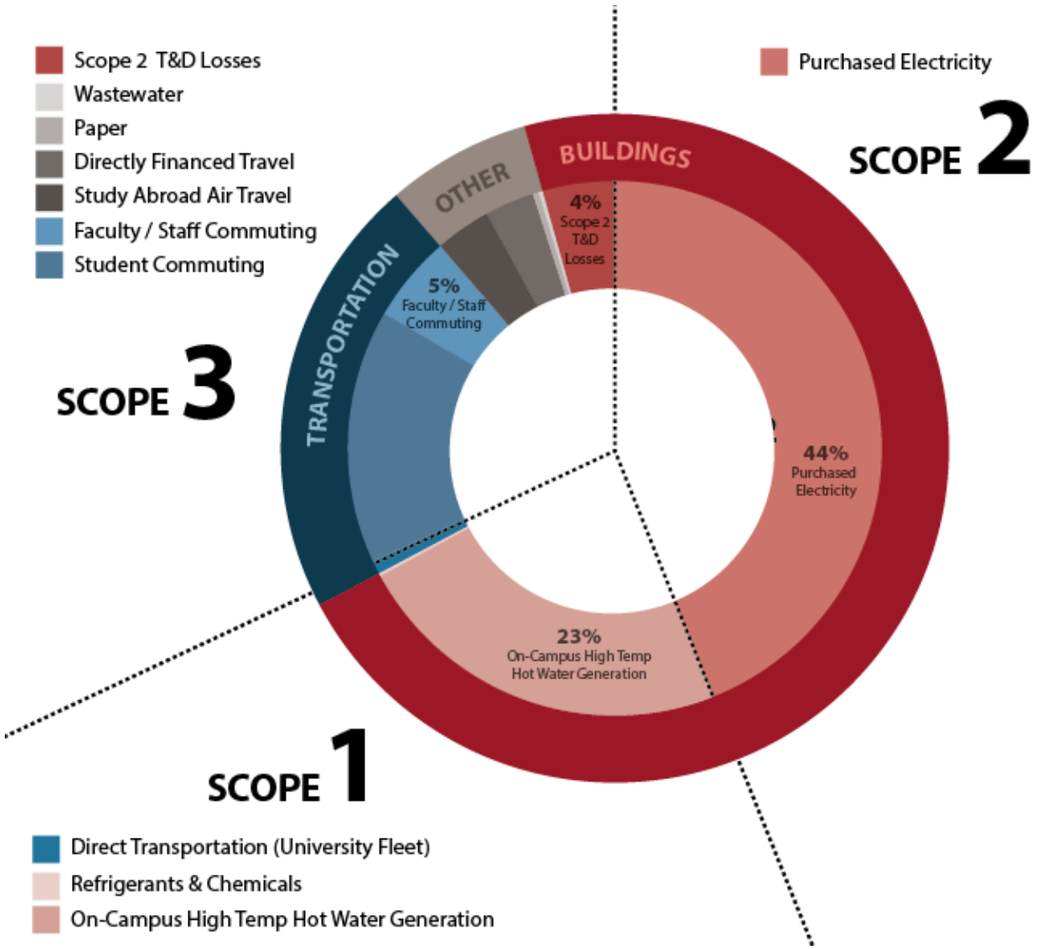
Zero waste



20% GHG REDUCTION BY 2023
50% GHG REDUCTION BY 2030
80% GHG REDUCTION BY 2050

BENEFITS TO HECC SCHOOLS

- Shared GHG process (comparability)
- Group resources and information sharing
- Learning tours
- Volunteer opportunities for students

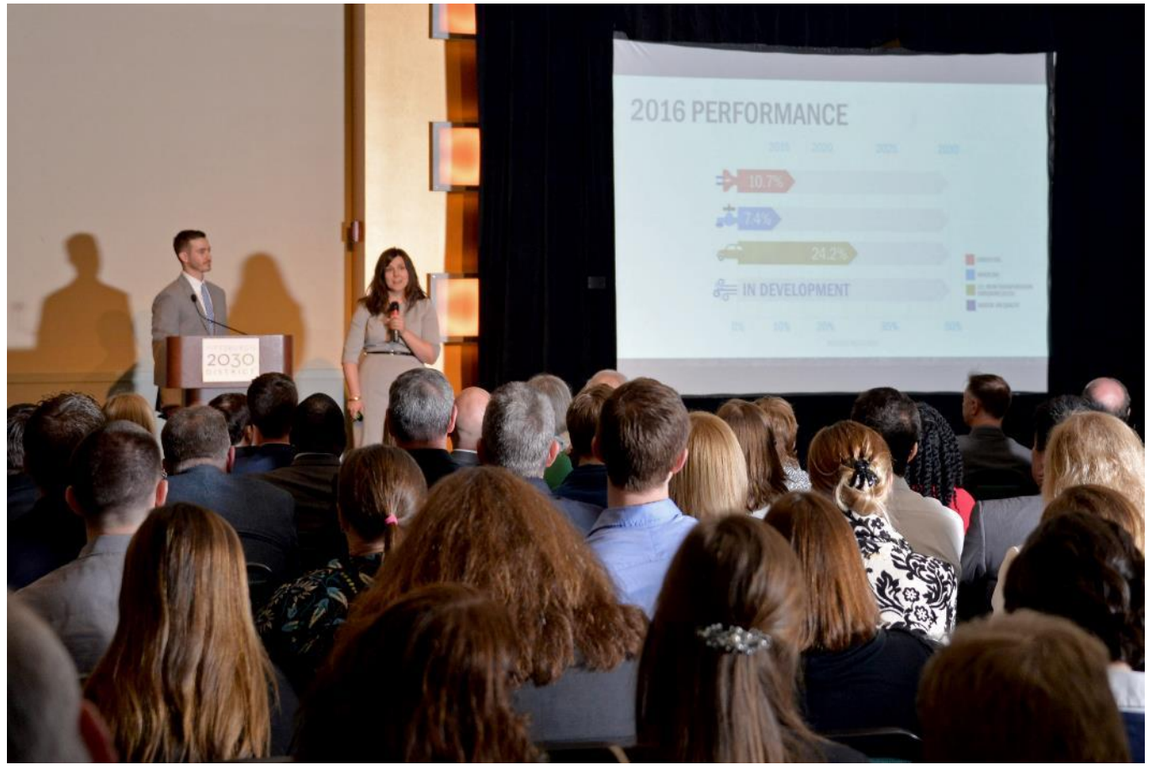


HECC COMMITMENT

- Willingness to share!
- Shared inventory methodology
- Consensus on calculator

  (CA-CP, now SIMAP)
- All schools conducted baseline
- Data shared
- 2030 District reporting

SIMAP
SUSTAINABILITY INDICATOR MANAGEMENT & ANALYSIS PLATFORM



UNIVERSITY OF PITTSBURGH – HYDROELECTRIC POWER

The Paradox
Reduction of Fossil Fuels

Reduction of Fish to an area seeing increased fish population after decades of industrial pollution

GREENER POWER

Hydropower for Pitt

The hydropower plant will produce enough electricity each year to power the Cathedral of Learning 10 times over.

25%

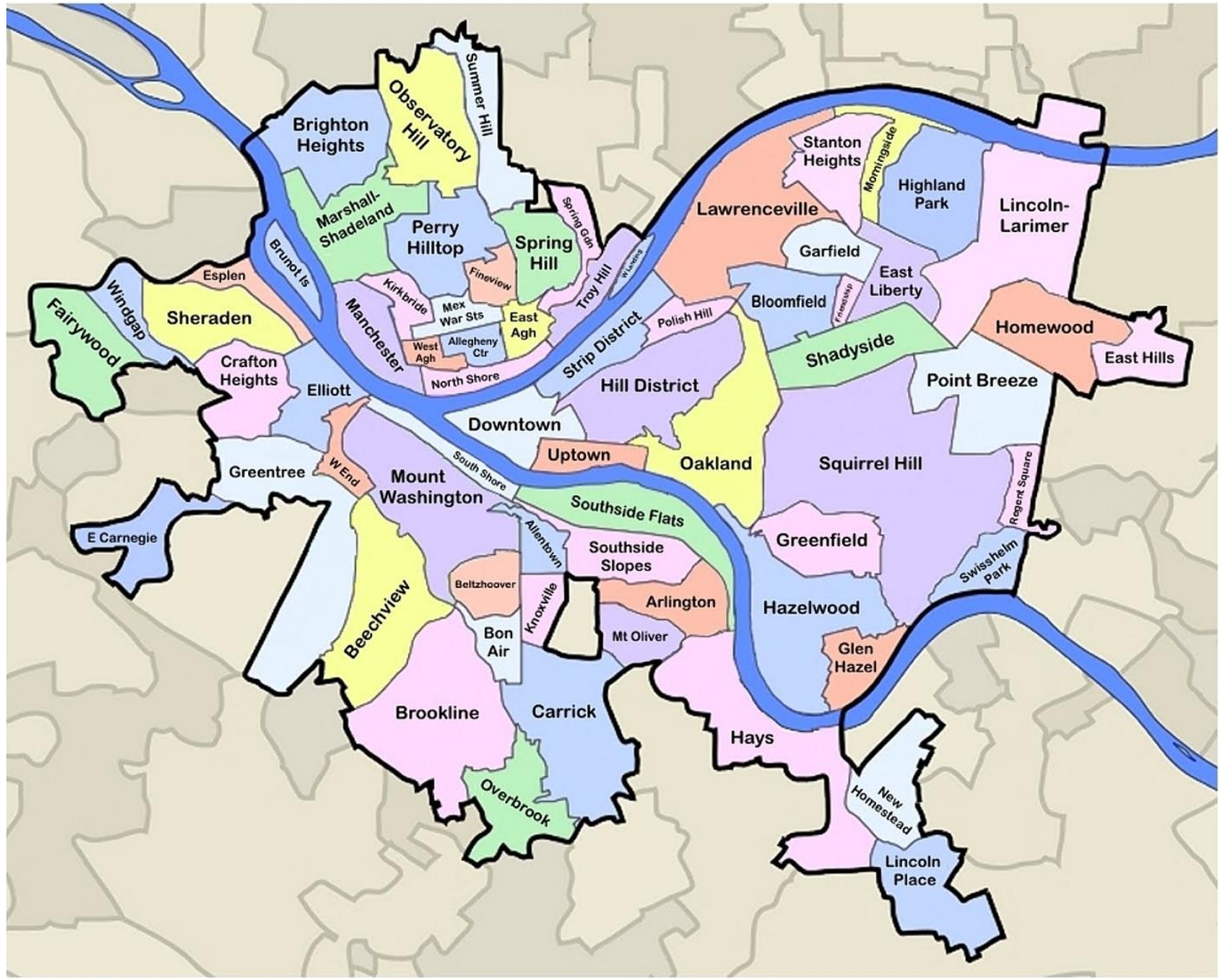
In **2023**, 25% of Pitt's electricity will be hydropower

Sustainability Goal:

50%

By **2030**, 50% of Pitt's electricity will be renewable

OAKLAND AREA OF PITTSBURGH



Opportunities

- Leverage Ability
- Transportation
- Housing
- Storm water Management
- Resilience Planning
- Green Power Purchase Price
- Resiliency Planning
- Food waste and Clothing

Challenges

- Long Term Sustainable Residential Communities
- Diverse Businesses
- Energy Use

THE COMMON MISSION:
BUILDING CLIMATE RESILIENT COMMUNITIES THROUGH HIGH-ED PARTNERSHIPS

CREATING CLIMATE COLLABORATIVES

UNDERSTAND CURRENT ENTITIES/ORGANIZATIONS FORMING ACTION

Complement or enhance current efforts in support of larger goals

FORM A BACKBONE ENITY OR STEERING GROUP

Find other climate leaders in your community to lead the charge

ESTABLISH GOALS

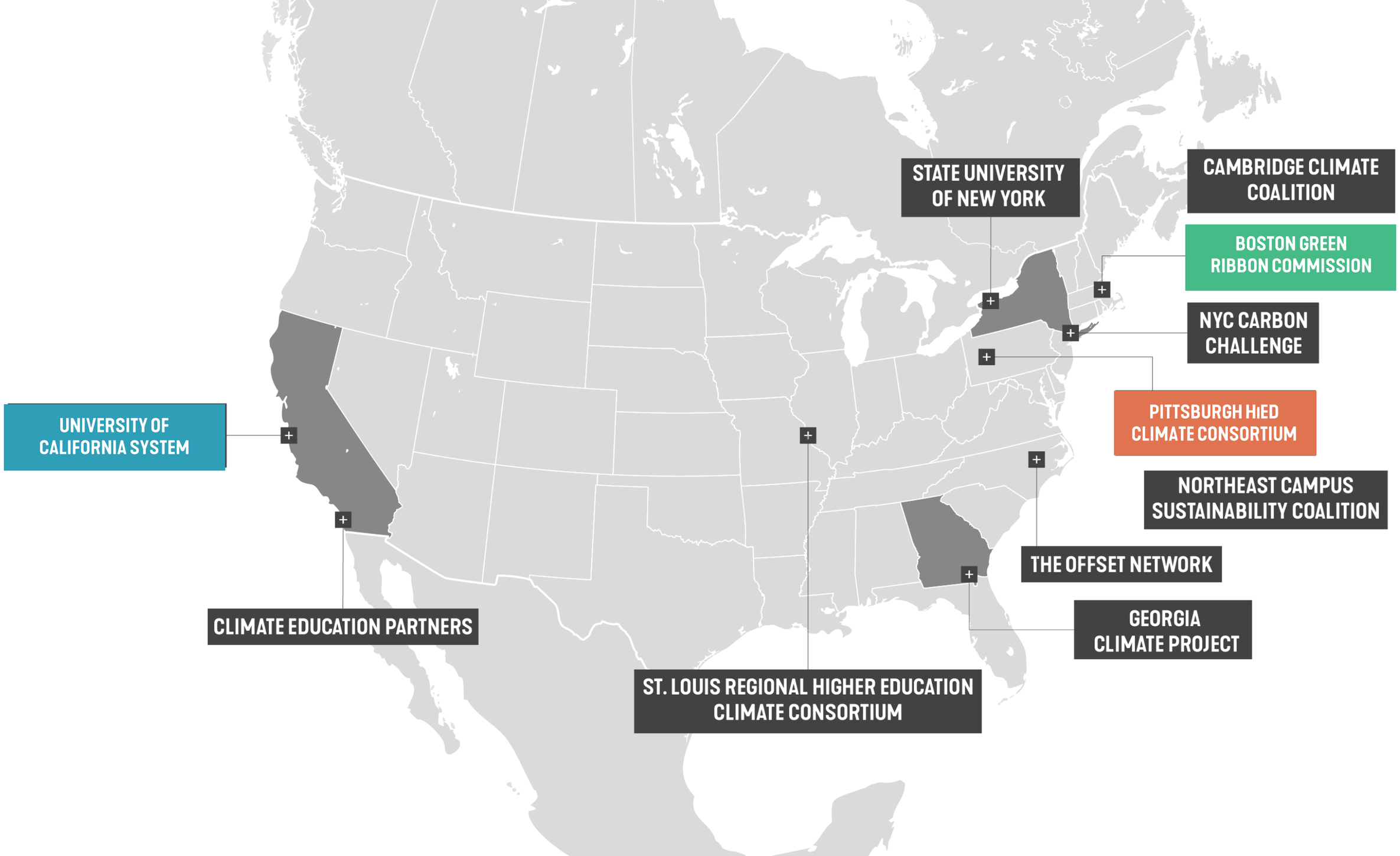
How does the collaborative connect to the city? Will they create tools, do research, discuss best practice, or a combination? What will leadership look like?

CONNECT

Inventory city stakeholders, local universities, and climate-centric organizations. Who are potential contributors? Who would benefit?

LEARN FROM OTHER CLIMATE COLLABORATIVES

Connect to other higher education climate collaboratives. What stories or recommendations do similar organizations have?


STATE UNIVERSITY OF NEW YORK
CAMBRIDGE CLIMATE COALITION
BOSTON GREEN RIBBON COMMISSION
NYC CARBON CHALLENGE
PITTSBURGH HiED CLIMATE CONSORTIUM
NORTHEAST CAMPUS SUSTAINABILITY COALITION
THE OFFSET NETWORK
GEORGIA CLIMATE PROJECT
UNIVERSITY OF CALIFORNIA SYSTEM
CLIMATE EDUCATION PARTNERS
ST. LOUIS REGIONAL HIGHER EDUCATION CLIMATE CONSORTIUM

FOR PRINT

ST. LOUIS REGIONAL HIGHER EDUCATION SUSTAINABILITY CONSORTIUM (STL-HESC)

CITY STATE RESEARCH NETWORK RESIL'CY OFFSETS

ST. LOUIS, MISSOURI

Winter 2016 | STL-HESC Campus Sustainability Newsletter View this email in your browser

STL HIGHER ED SUSTAINABILITY CONSORTIUM

In this issue of the STL-HESC Campus Sustainability Newsletter we will be highlighting some of the fantastic upcoming events and learning opportunities to advance campus sustainability throughout the St. Louis region, including upcoming conferences, past workshops, and new projects underway. This newsletter highlights achievements, events, and programs that demonstrate the value, importance and benefits of greening our campus communities.

In this newsletter:

- AASHE Updates
- Recap: 2016 AASHE Conference & Expo - "Beyond the Campus"
- Regional Collaborative Partners Team Up to Host 2017 Collaborative Sustainability Summit
- Battle for the Boot Returns
- Registration for 2017 RecycleMania Now Open
- Green Shadow Program Now Accepting Spring Applications
- MOAPPA Conference Save the Date and Call For Papers
- STL-HESC Congratulates Peggy on Retirement
- EarthWays Center Welcomes Simon

Registration for 2017 RecycleMania Now Open

The 2017 RecycleMania competition is now open for registration. The competition will run from February 5th through April 1st with two Pre-Season weeks from January 22nd through February 4th. In addition, there will be a Tips & Case Studies Examples for RecycleMania Outreach Webinar on January 17th, as well as a Primer: Rules & Tracking Requirements on February 1st.

See below for details on registering

1. Register New School
Your school has never participated in the Annual RecycleMania Tournament
Steps to complete your registration:

1. Create an Account in Re-TRAC Connect
2. Login to account you just created
3. Complete 2017 RecycleMania Profile Information form!

2. Existing School - Have Existing Re-TRAC Connect Account
If you know the email and password for your schools account.
Steps to complete your registration:

1. Login to existing account
2. Complete 2017 RecycleMania Profile Information form!

3. Existing School – New Contact – Do Not Have Re-TRAC Connect Account
You don't have access or don't know your schools username or password
Steps to complete your registration:

1. Send email to helpline@recyclemaniacs.org and we'll help get you started!

Regional Collaborative Partners Team Up to Host 2017 Collaborative Sustainability Summit

Sponsorship

Collaborative Sustainability Summit
SETTING TARGETS FOR OUR SHARED FUTURE
April 5, 2017 Noon – 7:30 pm
Eric P. Newman Education Center
Washington University in St. Louis
www.onestl.org

As a region, we have a robust foundation for sustainability; a strong, collectively developed regional sustainability plan (OneSTL), a thorough City of St. Louis Sustainability Plan, and a multitude of initiatives dedicated to making St. Louis a more sustainable and resilient place. This conference seeks to move these frameworks forward by identifying specific targets and goals that lead to strategies to achieve a sustainable, equitable future.

This effort builds on OneSTL, and other plans and studies conducted across the region. Your financial support will help to bring everyone together to define regional goals for the future.

Topics
- Buildings, Land Use, & Community Development
- Water & Green Infrastructure
- Materials & Recycling
- Energy & Emissions
- Transportation
- Biodiversity
- Food

Outcomes
- SMART (Specific, Measurable, Achievable, Relevant, Time-bound) goals
- A report that can serve as a reference point for planners, government officials and other decision makers to review and evolve their plans and efforts
- Actions and strategies for achieving the SMART goals

The conference will be followed by a day-long work session with regional experts and stakeholders to discuss and recommend a set of goals, targets and strategies. A report will be created that documents the identified SMART goals and will serve as a reference point to implement and update OneSTL as well as other plans and efforts.

Missouri Gateway CHAPTER

Green Shadow Program Now Accepting Spring Applications

GREEN SHADOW
USGBC MISSOURI GATEWAY

We are looking for Mentors and Shadows to participate in the Green Shadow program.Apply by February 28, 2016 to be matched in the Fall 2016 semester.

Green Shadow Mentor Program

Green Shadow is a mentorship program developed by the USGBC-Missouri Gateway Chapter Higher Education committee to expose students and emerging professionals to green jobs within the Missouri Gateway territory through a **one day shadow** of local business people. Participating companies get access to local students interested in the industry without the financial commitment of an internship.

Mentors must have an active USGBC-Missouri Gateway Chapter membership and fill out an online application detailing their interest in becoming a Mentor and providing a list of activities in their typical

- Topics have included Consortium engagement with AASHE, networking with the Illinois Green Economy Network, and participation in Recyclemania. Semesterly coffee-talks address experiences like move-out, curriculum, and freshman orientation.

SOUTHERN ILLINOIS UNIVERSITY EDWARDSVILLE
St. Louis Community College
UMSL
SIU Southern Illinois University CARBONDALE
Webster UNIVERSITY
MISSOURI S&T
SAINT LOUIS UNIVERSITY
LEWIS&CLARK COMMUNITY COLLEGE
Washington University in St. Louis
MARYVILLE UNIVERSITY
PRINCIPIA COLLEGE

NYC CARBON CHALLENGE

CITY STATE RESEARCH NETWORK RESIL'CY OFFSETS

Established in 2007, the challenge was designed for universities and hospitals to reduce city GHG emissions **80% by 2050** (from 2005 baseline)

17 NYC universities committed to building-based GHG reductions through tracking and optimizing

NYC CARBON CHALLENGE

UNIVERSITY OF CALIFORNIA

UC– Policy on Sustainable Practices text components:

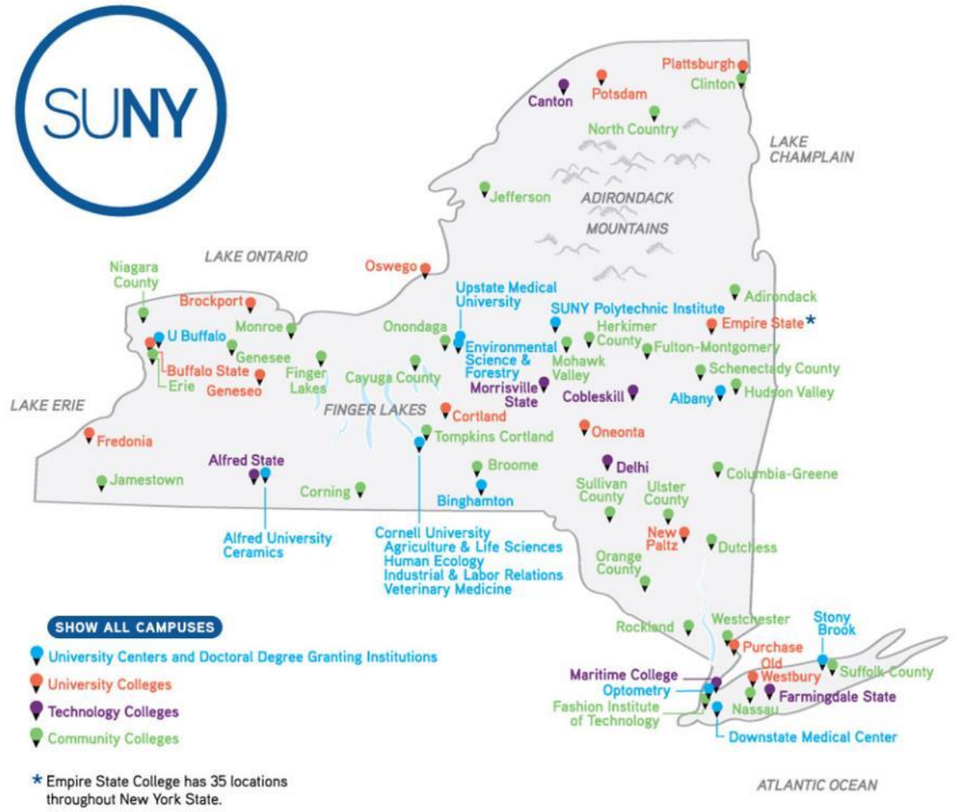
- Green Building Design
- Clean Energy
- Climate Protection
- Sustainable Transportation
- Sustainable Building Operations for Campuses
- Zero Waste
- Sustainable Procurement
- Sustainable Foodservices
- Sustainable Water Systems
- Sustainability at UC Health

"The University of California is committed to responsible stewardship of resources and to demonstrating leadership in sustainable business practices. The University's locations should be living laboratories for sustainability, contributing to the research and educational mission of the University"

STATE UNIVERSITY OF NEW YORK

CITY | STATE | RESEARCH | NETWORK | RESIL'CY | OFFSETS

64 campuses, altogether one of the state's largest energy consumers



ENERGY	FOOD	SUSTAINABILITY BENCHMARKING
Reduce SUNY's energy consumption by 30% by 2020 Brownfield to Brightfield: a project exploring placement of renewable energy installations on EPA brownfield sites	"SUNY Commits" to NY State Agriculture, an initiative intended to increase the quantity of local food procurement *Funded by the American Farm Trust's Farm to Institution NYS Initiative*	A workbook intended to implement a set of tiered guidelines for SUNY dining and retail purchasing

GEORGIA CLIMATE PROJECT

CITY STATE RESEARCH & EDUCATION NETWORK RESIL'CY OFFSETS

The Georgia Climate Project is building a network of experts across the state to advance four strategic priorities.

Science

Synthesizing what is known and analyzing what is not in order to improve understanding of climate impacts and solutions in Georgia.

Learn more >

Stronger conversations

Fostering a constructive, nonpartisan discussion about how climate change affects Georgia and what can be done about it.

Learn more >

Solutions

Working with partners to enable Georgians to take practical steps to respond to climate change and its impacts.

Learn more >

Stronger network

Bringing together experts working to understand and act on climate.

Learn more >

Founding partners

Emory University — Climate@Emory

Georgia Tech

University of Georgia

Academic partners

Agnes Scott College

Georgia Southern University

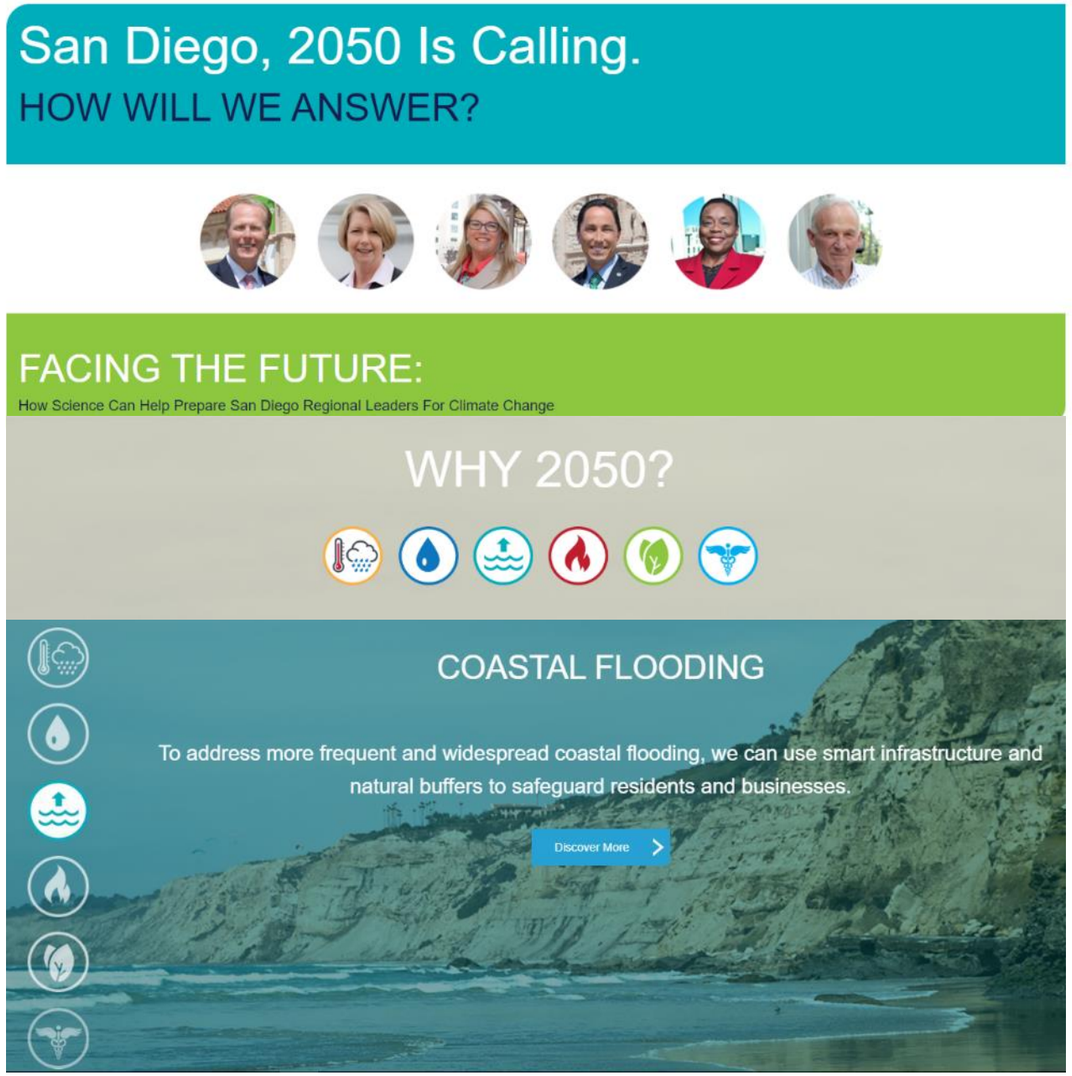
Spelman College — A Choice to Change the World

UNG — University of North Georgia

CLIMATE EDUCATION PARTNERS

SAN DIEGO, CA

CITY STATE RESEARCH & EDUCATION NETWORK RESIL'CY OFFSETS



San Diego research and higher education institutions partnering to **educate San Diego leaders about climate change and its effect on the region's quality of life**

The coalition collects climate data, develops educational materials for community members, and models regional climate collaboration for replication by other communities

Scripps Institution of Oceanography UCSD

California State University San Marcos

UCSF University of California San Francisco

The San Diego Foundation

UC San Diego

THE NORTHEAST CAMPUS SUSTAINABILITY CONSORTIUM (NECSC)

CITY STATE RESEARCH NETWORK RESIL'CY OFFSETS

A network of sustainability officers committed to meeting annually to advance education related to sustainability in higher education

Cornell University

PRINCETON UNIVERSITY

BOSTON UNIVERSITY

COLUMBIA UNIVERSITY

Yale UNIVERSITY

Carnegie Mellon University

Massachusetts Institute of Technology

BROWN

Conference History

Since 2004, NECSC steering committee members have committed to hosting annual gatherings. As planning continues for the next 10 years, additional host institutions will emerge.

2004	New Hampshire	2013	Maryland
2005	Massachusetts (Harvard)	2014	Rhode Island (Brown University)
2006	Connecticut	2015	Massachusetts (University of Massachusetts)
2007	Maine (Bowdoin College)	2016	Massachusetts (Wellesley College and Babson College)
2008	New Jersey (Princeton)	2017	New Hampshire (Dartmouth College)
2009	Vermont (Middlebury and the University of Vermont)	2018	Connecticut (Wesleyan University)
2010	Montreal (McGill University)	2019	Maine (University of Southern Maine)
2011	Pennsylvania (Carnegie Mellon)	2020	Montreal (McGill University)
2012	New York (Syracuse University)		

THE OFFSET NETWORK

CITY STATE RESEARCH & EDUCATION NETWORK RESIL'CY OFFSETS

A coalition of partners dedicated to sharing and creating **high quality resources, templates, and peer evaluation** for institutions interested in implementing carbon offset plans, especially for Scope 3 emissions

Duke Carbon Offsets Initiative
DUKE UNIVERSITY

Second Nature

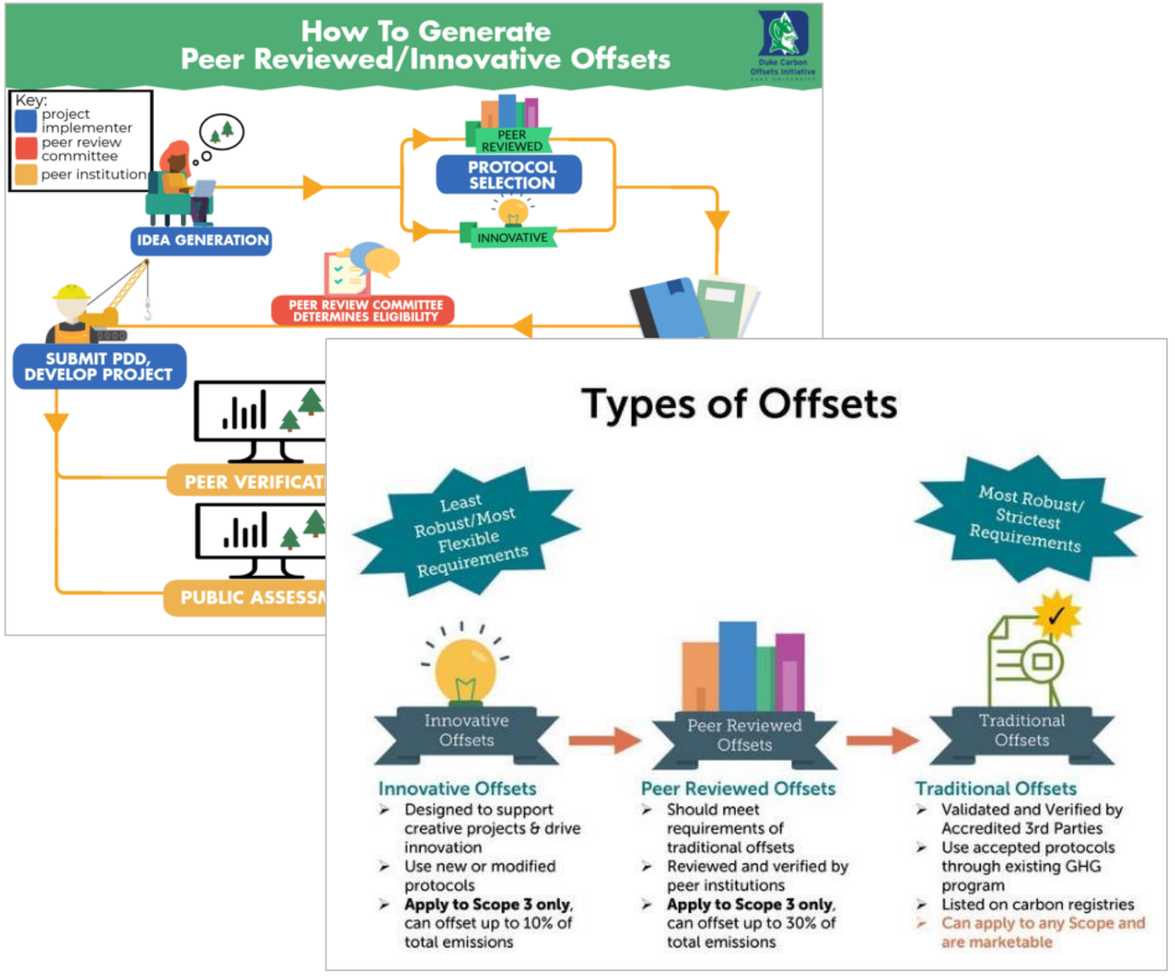
NEUTRALUF CO2ALITION
DRIVING CHANGE

The Oberlin Project

AMERICAN UNIVERSITY
WASHINGTON, DC

ELON UNIVERSITY

EXAMPLE GUIDES FROM THE OFFSET NETWORK



CLIMATE RESILIENCE IN URBAN CAMPUSES AND COMMUNITIES (CRUX)

Multi-city partnership supported by a Kresge Foundation grant

Project goals include

- Implementing a **nationally-scalable strategy for climate resiliency** in communities and campuses
- Learning with and from the partners as they complete benchmarking by **creating a campus/community task force, and completing a resilience capacity assessment**

Partners

Institutions participating in CRUX include:

Los Angeles

- California State University, Northridge
- Los Angeles Valley College
- Northridge Vision
- Greater Valley Glen Neighborhood Council

Phoenix

- Arizona State University
- South Mountain Community College
- Habitat for Humanity Central Arizona

Portland

- Portland State University
- Mt. Hood Community College
- Portland Downtown Neighborhood Association
- City of Gresham
- City of Portland Bureau of Planning and Sustainability

ECOLEAGUE

EcoLeague

CITY STATE RESEARCH & EDUCATION NETWORK RESIL'CY OFFSETS

- Student Opportunities
- Faculty Opportunities
- Free xChange
- Eco-Reps
- Green Devil Certification
- EcoLeague

- **Consortium for Sustainability**
- EcoLeague Resources for Faculty

CONSORTIUM FOR SUSTAINABILITY

WHAT IS THE ECOLEAGUE?

The EcoLeague is the only college consortium in the United States dedicated to sustainability education and the active pursuit of environmental studies within a liberal-arts framework. Dickinson was inducted into the 12-year-old multischool consortium in 2014.

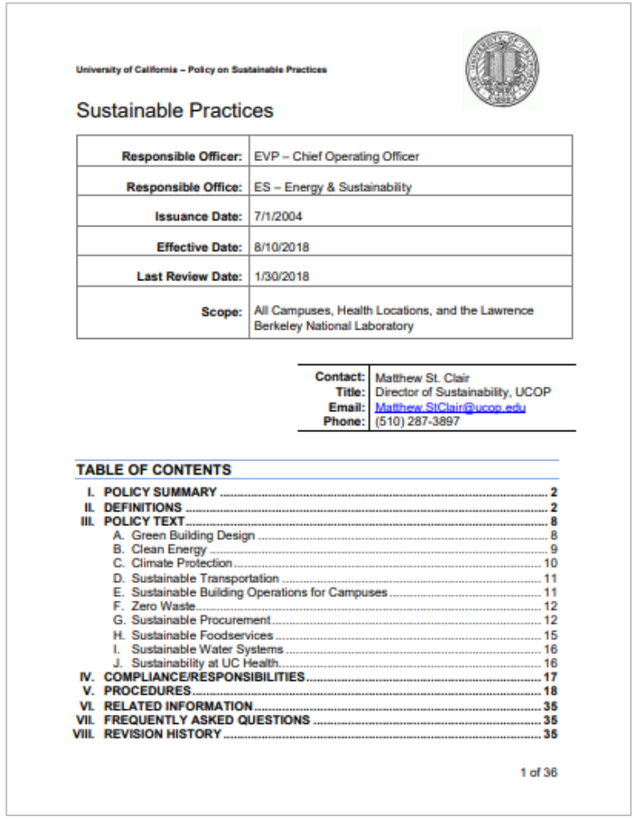
EcoLeague consortium members include:

- Alaska Pacific University,
- College of the Atlantic,
- Dickinson College,
- New College of Florida,
- Northland College, and
- Prescott College.

UNIVERSITY OF CALIFORNIA SYSTEM

CITY | STATE | RESEARCH & EDUCATION NETWORK | RESIL'CY | OFFSETS

10 campuses committed to the **UC – Policy** on **Sustainable Practices**



University of California – Policy on Sustainable Practices

Sustainable Practices

Responsible Officer:	EVP – Chief Operating Officer
Responsible Office:	ES – Energy & Sustainability
Issuance Date:	7/1/2004
Effective Date:	8/10/2018
Last Review Date:	1/30/2018
Scope:	All Campuses, Health Locations, and the Lawrence Berkeley National Laboratory

Contact: Matthew St. Clair
Title: Director of Sustainability, UCOP
Email: Matthew.StClair@ucop.edu
Phone: (510) 287-3897

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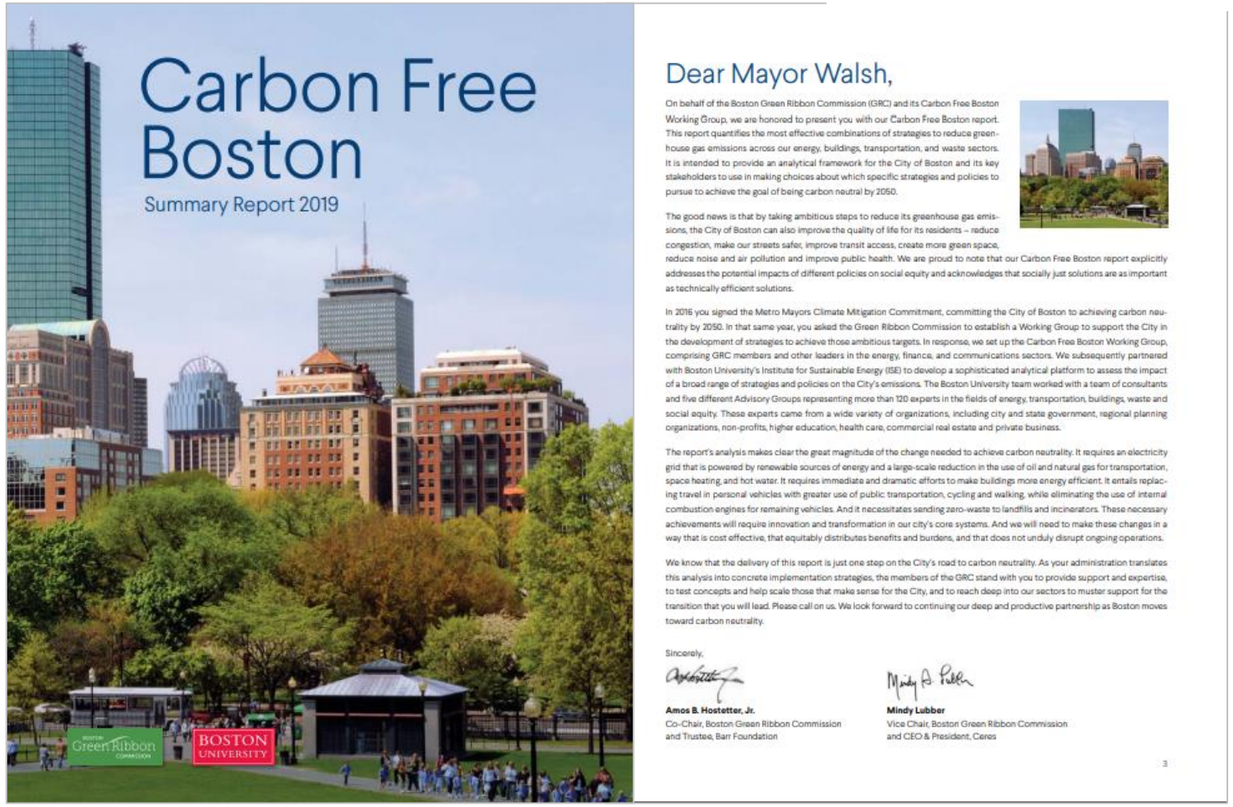
UNIVERSITY OF CALIFORNIA Office of the President

BOSTON GREEN RIBBON COMMISSION

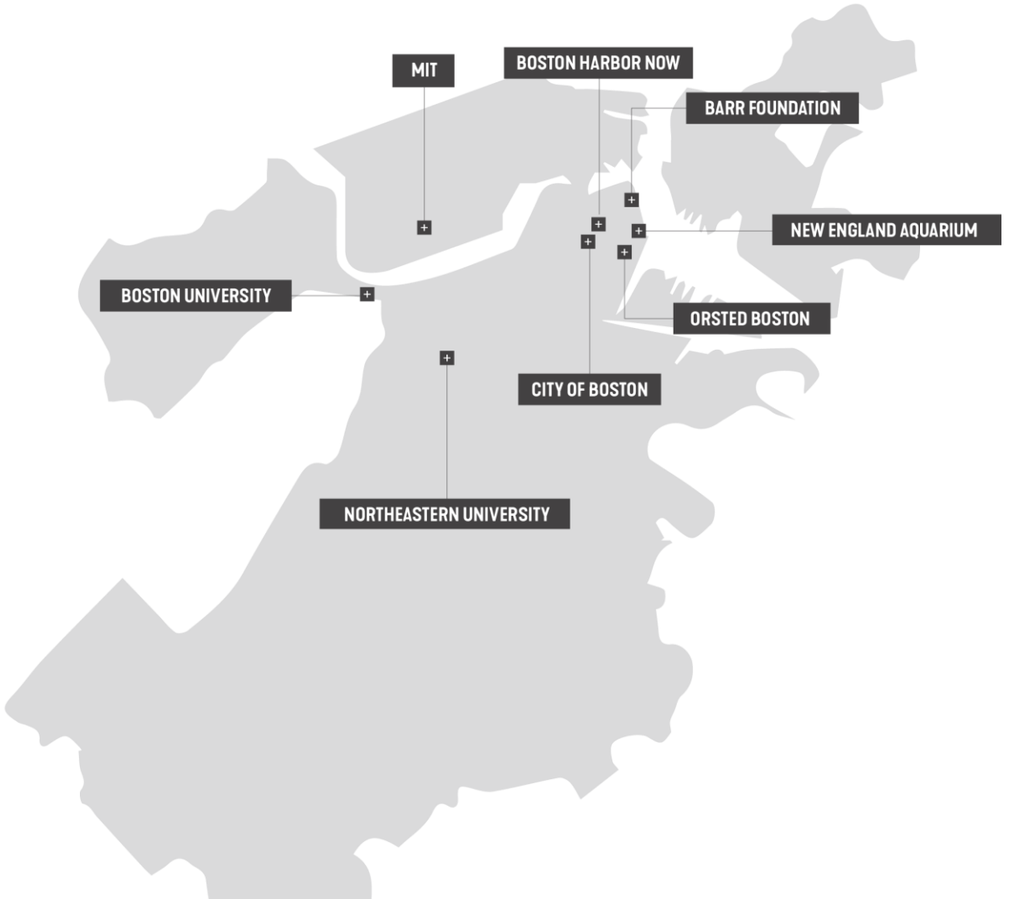
BOSTON, MASSACHUSETTS

CITY of BOSTON

CITY STATE RESEARCH NETWORK RESIL'CY OFFSETS



Businesses, institutions, and civic leaders **reporting and sharing climate action strategies aligning with the City's Climate Action Plan**



Northeastern University

BOSTON HARBOR NOW

Ørsted

BOSTON UNIVERSITY

Massachusetts Institute of Technology

New England Aquarium

HIGHER ED CLIMATE CONSORTIUM
CITY OF PITTSBURGH

CITY STATE RESEARCH NETWORK RESIL'CY OFFSETS

HECC MISSION:
REDUCE THE GHG OF PITTSBURGH

…by actively engaging all Pittsburgh region colleges and universities to:

1. **COLLABORATE,**
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chatham UNIVERSITY
Carlow University
University of Pittsburgh
The Art Institute of Pittsburgh
CCAC
La Roche COLLEGE
Carnegie Mellon University
Robert Morris University
PennState Center Pittsburgh
Duquesne University
POINT PARK UNIVERSITY