

# Building Energy Resource Hub

**AEG CHICAGO April 17, 2024**  
**BUILDING DECARBONIZATION & GRID MODERNIZATION**

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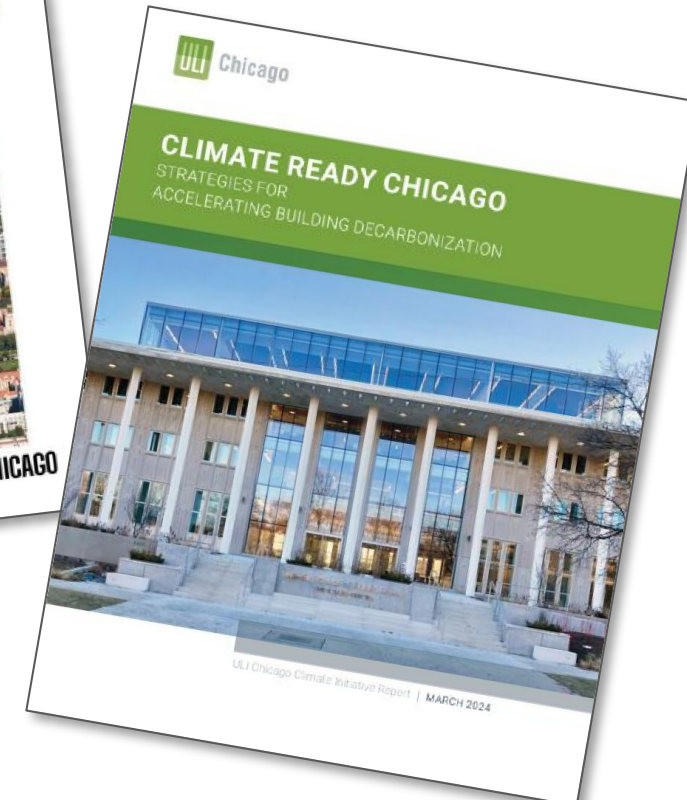
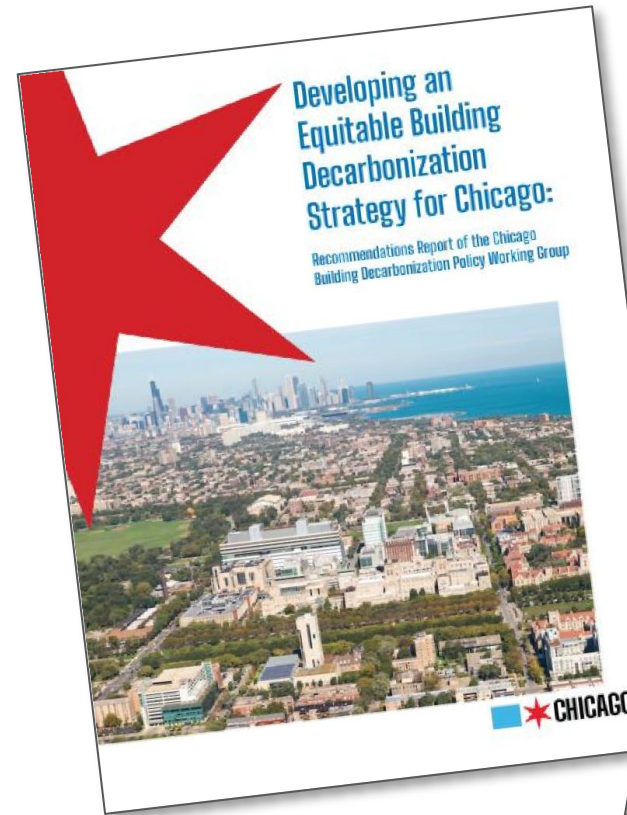
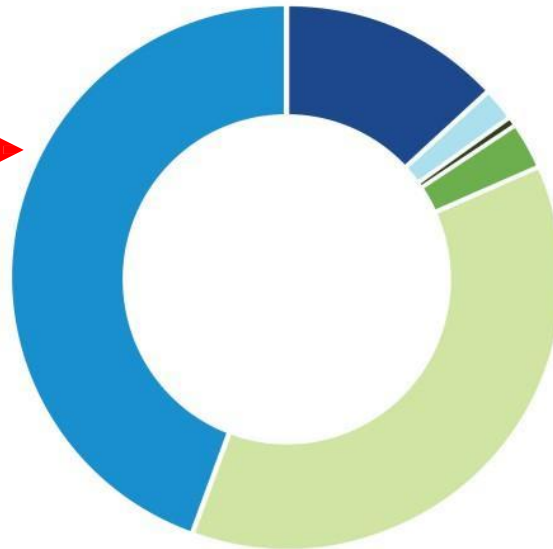
*The Building Energy  
Resource Hub is a project  
of Illinois Green Alliance.*



# Retrofitting existing buildings is critical to meet climate goals.

## emissions by subsector\*

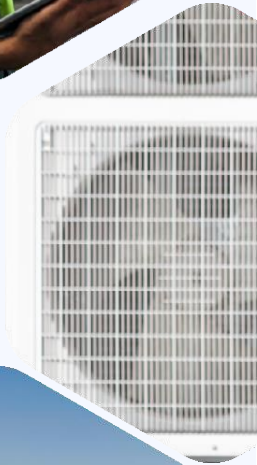
- Residential buildings 37%
- Commercial and industrial buildings and facilities 44%
- Manufacturing industries and construction 13%
- Energy industries 2%
- Wastewater treatment 0.5%
- Fugitive emissions from oil and natural gas 3%



\* Source: CMAP Regional greenhouse gas emissions inventory, Updated with 2019 Data

# How can building retrofits be scaled in next 12 months?

- Build Building Owner/Operator capacity
  - Funding/lending options
  - Staff upskilling
  - Emerging technology
- Grow Contractor Capacity
  - Energy efficiency knowledge
- Add more financial resources
  - Limited predevelopment funds
  - Limited bridge loan resources



# How can we build capacity for building retrofits?



- Education →
- Case Studies
- Partnerships
- Technical Assistance
- Dedicated funding

The screenshot shows the 'Education' page of the Building Energy Resource Hub. It features a navigation bar with 'Home', 'About the Hub', 'Education', 'Resources', and 'Get Connected'. The main heading is 'On-Demand & Partner Education Programs'. Under 'On-Demand Education', there are three items: 'Hub On-Demand Education' with a sub-heading 'Getting Started with Energy Benchmarking' (Recorded October 2023), 'Building Decarb Tech Series: Very High Efficiency HVAC' (Recorded September 2023), and 'Building Decarb Tech Series: Clean Tech Innovations'. A 'More Education Resources' section highlights the 'SEDAC Electrification Course' with a 'Learn more' button.

The cover of the 'General Contractor's Playbook' features the Building Energy Resource Hub logo and a photograph of construction workers in safety vests. The title 'General Contractor's Playbook' is prominently displayed. Below the title, there is a short introductory paragraph and a section titled 'Use Pre-Construction to Set the Stage for Success' with a sub-heading 'Project Permit'.

The cover of the 'High Performance Windows' document features the Building Energy Resource Hub logo and a photograph of a modern building with large glass windows. The title 'High Performance Windows' is at the top, followed by the subtitle 'High performance windows that improve comfort, reduce operating costs, and save energy.' Below the title, there is a 'tech primer' section and a list of key points.

The screenshot shows the 'Happenings at the Hub' newsletter for March 2024. It includes the Building Energy Resource Hub logo and the text 'Welcome to the newsletter of the Building Energy Resource Hub! Inside you'll find upcoming events, featured resources & case studies, partner programs, and more information on how to get involved.' Below this is a 'Tools & Resources' section with the heading 'Looking for an energy efficiency contractor? We've got you covered!' and a paragraph about connecting with contractors. It also mentions the Illinois Green online directory and provides a 'Search Our Directory' button. The 'Partner Tools & Resources' section lists 'Slostream' and 'ComEd' with links to their respective services.

# What are the barriers to building retrofits?



*Regarding Building Decarbonization and Grid Modernization, to achieve Chicagoland's Climate, Health and Equity goals, a critical obstacle to collectively overcome in 12 months is **reaching conventional building owners/operators and contractors.***

## Obstacles

Need to grow capacity for owner/operators and contractors on building decarb, *but also:*

- Limited financing options
- Sluggish commercial real estate market
- No building performance standard currently in Chicago

Current drivers: ESG, high ROI on equipment upgrades, utility incentives