

California Energy Commission  
Nonresidential Building Energy Use Disclosure Workshop



# **CITY OF CHICAGO BUILDING ENERGY USE BENCHMARKING AND TRANSPARENCY**

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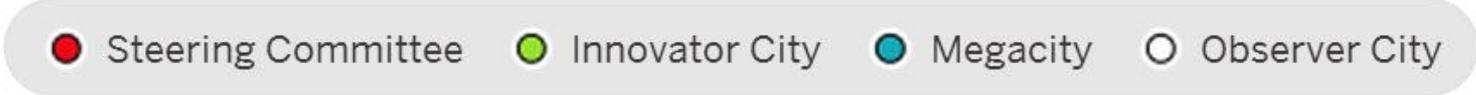
# The C40 Cities Climate Leadership Group is a global network of cities working together to reduce GHG emissions and climate risk

## C40 Cities Climate Leadership Group: Global Reach, Global Action

Addis Ababa  
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Austin  
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Barcelona  
Basel  
Beijing  
Berlin  
Bogota  
Boston  
Buenos Aires  
Cairo  
Cape Town  
Caracas  
Changwon  
Chicago  
Copenhagen  
Curitiba  
Dar es Salaam  
Delhi  
Dhaka  
Hanoi  
Heidelberg  
Ho Chi Minh City  
Hong Kong  
Houston  
Istanbul  
Jakarta  
Johannesburg  
Karachi  
Lagos  
Lima  
London  
Los Angeles



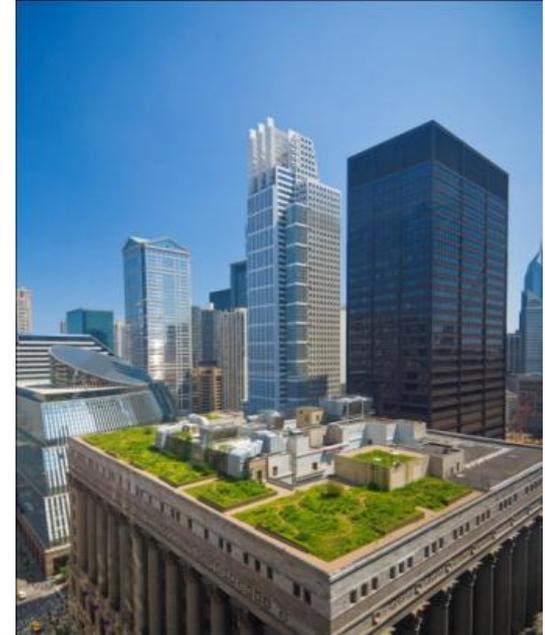
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Shenzhen  
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Stockholm  
Sydney  
Tokyo  
Toronto  
Vancouver  
Venice  
Warsaw  
Washington, DC  
Wuhan  
Yokohama



# Energy benchmarking and transparency stem from ambitious goals to make Chicago more competitive, livable, & sustainable

## City of Chicago Sustainability Strategy

- The **Sustainable Chicago 2015 Action Agenda** outlines specific activities to drive concrete impact
  - 7 themes, 24 goals, and 100 actions
  - Mutually-reinforcing citywide and cross-sector objectives
- This road map builds on objectives and approaches outlined in the **Chicago Climate Action Plan**
  - 25% GHG reduction by 2020, 80% by 2050 (below 1990)
  - Focus on buildings, energy, transportation, waste, & adaptation



**“A sustainable Chicago is a city that spends less on energy use with each passing year, creates good-paying jobs in up-and-coming industries, responsibly maintains and upgrades its infrastructure, and ensures that every Chicagoan has the opportunity to live a healthy and active lifestyle.”**  
*– Mayor Rahm Emanuel*

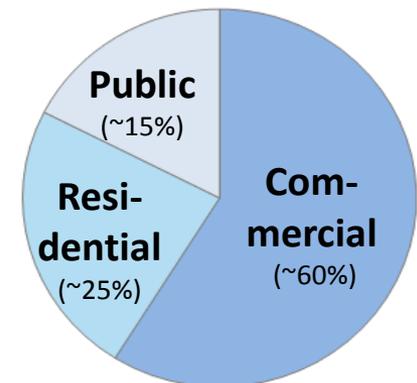
# Chicago's energy benchmarking ordinance drives awareness and transparency on energy use, enabling energy and cost savings

## Chicago Energy Benchmarking Ordinance Overview

(See [www.CityOfChicago.org/EnergyBenchmarking](http://www.CityOfChicago.org/EnergyBenchmarking) for information & support)

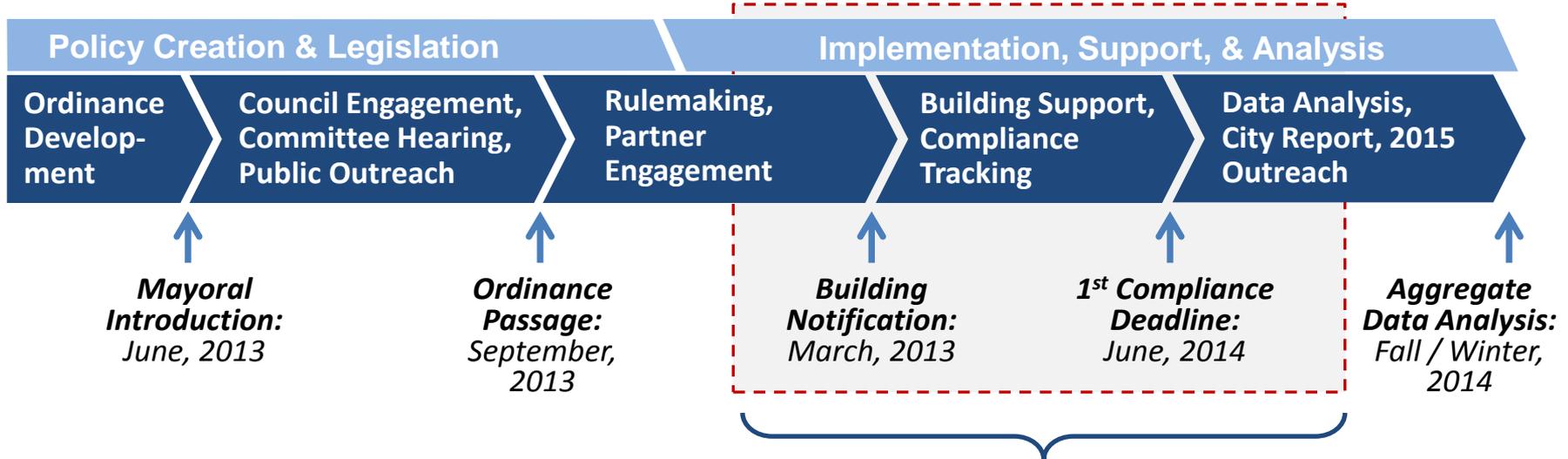
- **Building energy efficiency represents huge economic and environmental opportunity:**
  - Chicago residents and businesses collectively spend ~\$3 billion per year on building energy
  - Building energy use represents 71% of Chicago's total greenhouse gas emissions
- **The Chicago Energy Benchmarking Ordinance drives building energy use awareness and transparency for ~3,000 non-industrial buildings >50,000 square feet:**
  - <1% of total buildings in Chicago, but they represent nearly 20% of all building energy use
  - 5% energy reduction in these buildings would reduce CO2 emissions equivalent to ~50,000 cars and could save ~\$40 million dollars per year
- **The ordinance focuses on data accuracy and transparency:**
  - ~3,000 buildings larger than 50,000ft<sup>2</sup> required to:
    - Track whole-building energy use
    - Report to the City annually
    - Verify data accuracy every three years  
(by a recognized in-house or 3<sup>rd</sup> party professional)
- **Chicago energy benchmarking builds on similar policies in other major US markets**

Building Types  
Covered by the  
Chicago Energy  
Benchmarking  
Ordinance



# June 1 marked the first successful reporting deadline of a 3-year rollout, laying the groundwork for ongoing outreach and support

## Chicago Energy Benchmarking Milestones & Results-to-Date



### **Building Outreach & Support Have Enabled Strong Compliance on an Accelerated Implementation Timeline:**

- Very strong initial compliance
- 550+ Help Center interactions since March
- 375+ participants in free training sessions since February, led by local and national energy experts
- Whole-building electricity and natural gas data available from utilities to enable compliance
- Early compliance by all covered municipal buildings
- Coordinated outreach through the City and 85+ partner organizations

# Chicago's benchmarking ordinance will phase in by building size and sector through 2017, with extensive support and outreach

## Phased Implementation by Building Size & Sector (2014-2017, ongoing)

Timeline for Chicago Energy Benchmarking, Verification, Reporting					
Building Sector	Building Size (ft <sup>2</sup> )	Required by June 1 <sup>st</sup> of:			
		2014	2015	2016	2017
Non-Residential	≥ 250,000	Benchmark, Verify, Report	Benchmark, Report	Benchmark, Report	Benchmark, Verify, Report
	≥ 50,000		Benchmark, Verify, Report	Benchmark, Report	Benchmark, Report
Residential	≥ 250,000		Benchmark, Verify, Report	Benchmark, Report	Benchmark, Report
	≥ 50,000			Benchmark, Verify, Report	Benchmark, Report

Public Disclosure Authorized After 2<sup>nd</sup> Year of Reporting

## Covered Building Support / Benchmarking Enablers

**Comprehensive Website & Guidance**  
([www.CityofChicago.org/EnergyBenchmarking](http://www.CityofChicago.org/EnergyBenchmarking))

**Utility Aggregation of Energy Data**  
(Electricity & Gas)

**Full-Time Help Center**  
(Phone & Email)

**Weekly Trainings**  
(In-Person & Web)

**Expanded Pool of Recognized Data Verifiers\***

**Pro-Bono Data Verification for Buildings in Need**

\* Includes City Colleges Building Energy Technologies, MEEA BOC, Licensed Architect or Engineer, ASHREA BEAP, CEM

# For more information...



- **Web:**

- [www.CityOfChicago.org/EnergyBenchmarking](http://www.CityOfChicago.org/EnergyBenchmarking)
- [www.CityOfChicago.org/Sustainability](http://www.CityOfChicago.org/Sustainability)
- [www.C40.org](http://www.C40.org)

- **Email:**

- [Info@ChicagoEnergyBenchmarking.org](mailto:Info@ChicagoEnergyBenchmarking.org)
- [Sustainability@CityOfChicago.org](mailto:Sustainability@CityOfChicago.org)