

Chicago Energy Benchmarking

Sep 15 2015 ASHRAE - Illinois meeting

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ELEVATE ENERGY

Smarter energy use for all

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Agenda

- Introductions
 - Elevate Energy
 - City Energy Project
- Chicago Energy Benchmarking
 - 2014 Results
 - 2015 Highlights
- Q & A



We promote smarter energy use for all.



We give people the resources they need to make informed energy choices.



We design and implement efficiency programs that lower costs, and protect the environment.



We ensure the benefits of energy efficiency reach those who need them most.



The Elevate Energy Team



Team members include:

- Energy analysts, engineers, and construction managers
- Customer support specialists
- Researchers and data analysts
- Energy law and policy experts
- Communication, marketing, and outreach professionals
- Project managers and program administrators



The Elevate Energy Team



We are hiring:

- Field organizers
- Program support associate
- Staff engineer

www.elevateenergy.org/careers

CITY ENERGY PROJECT

An ambitious national initiative to improve the energy efficiency of existing buildings in 10 major American cities.

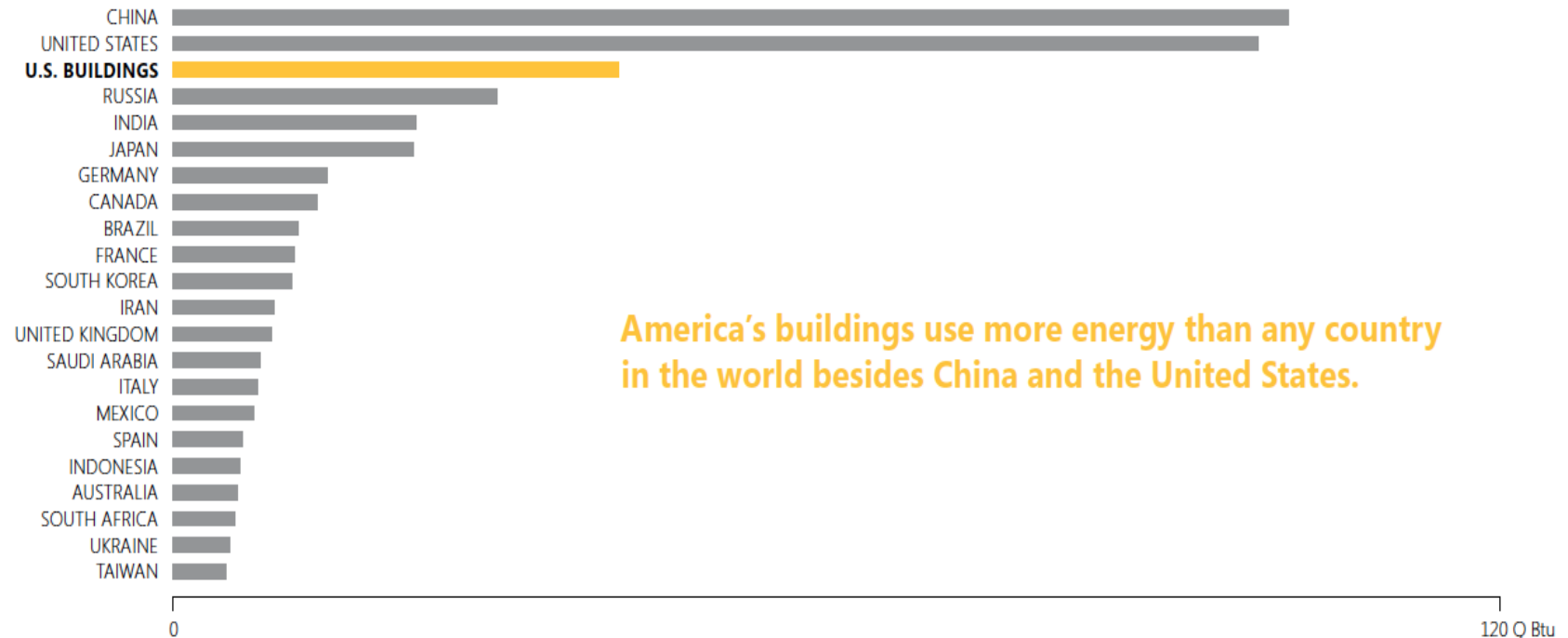
Working at this scale required us to aggregate significant resources: 3 major funders and a partnership of 2 organizations



THE PROBLEM

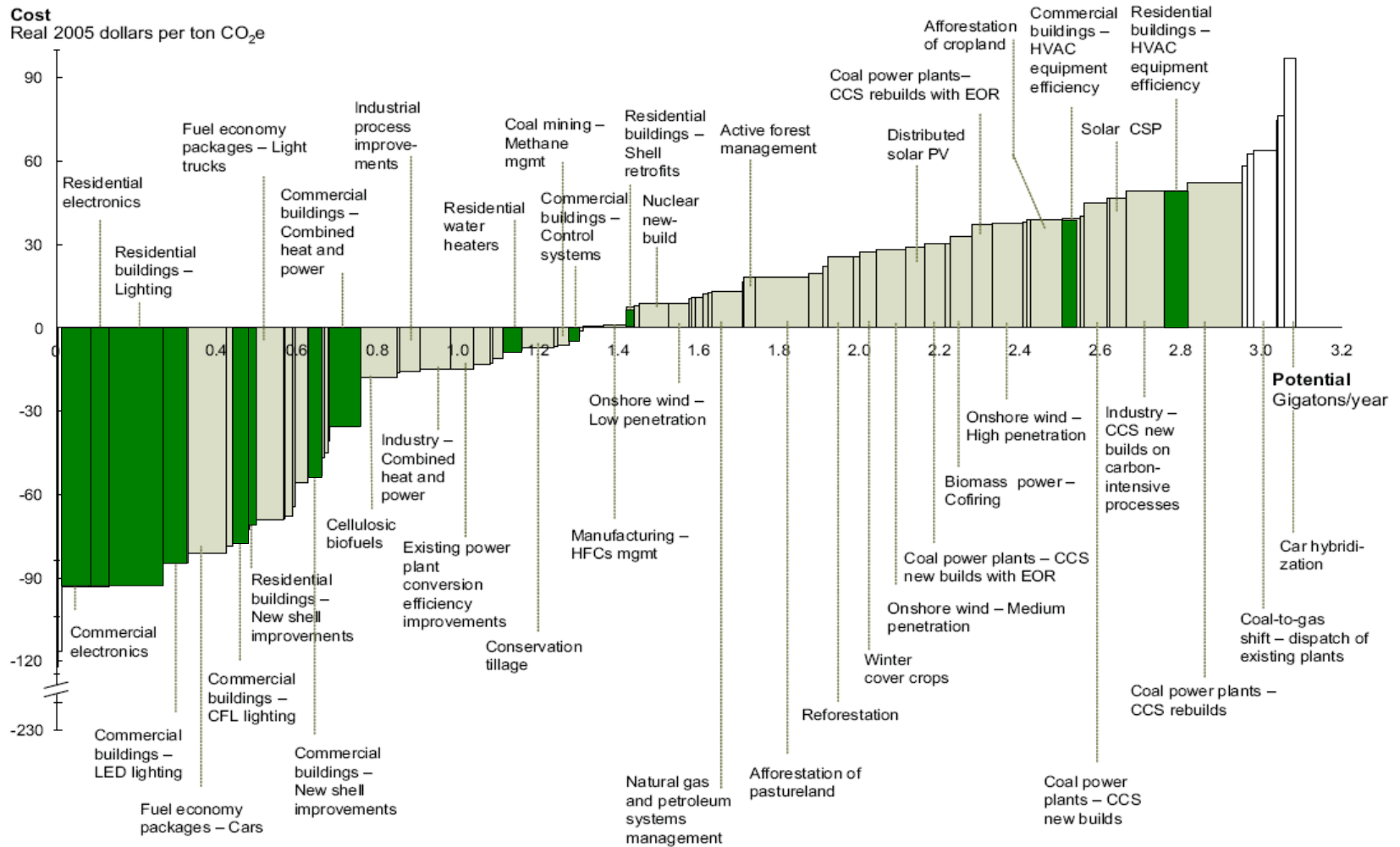
Comparison of Energy Use of U.S. Building Sector and Largest Energy-Consuming Nations

2010 Primary Energy Use (Quadrillion Btu)



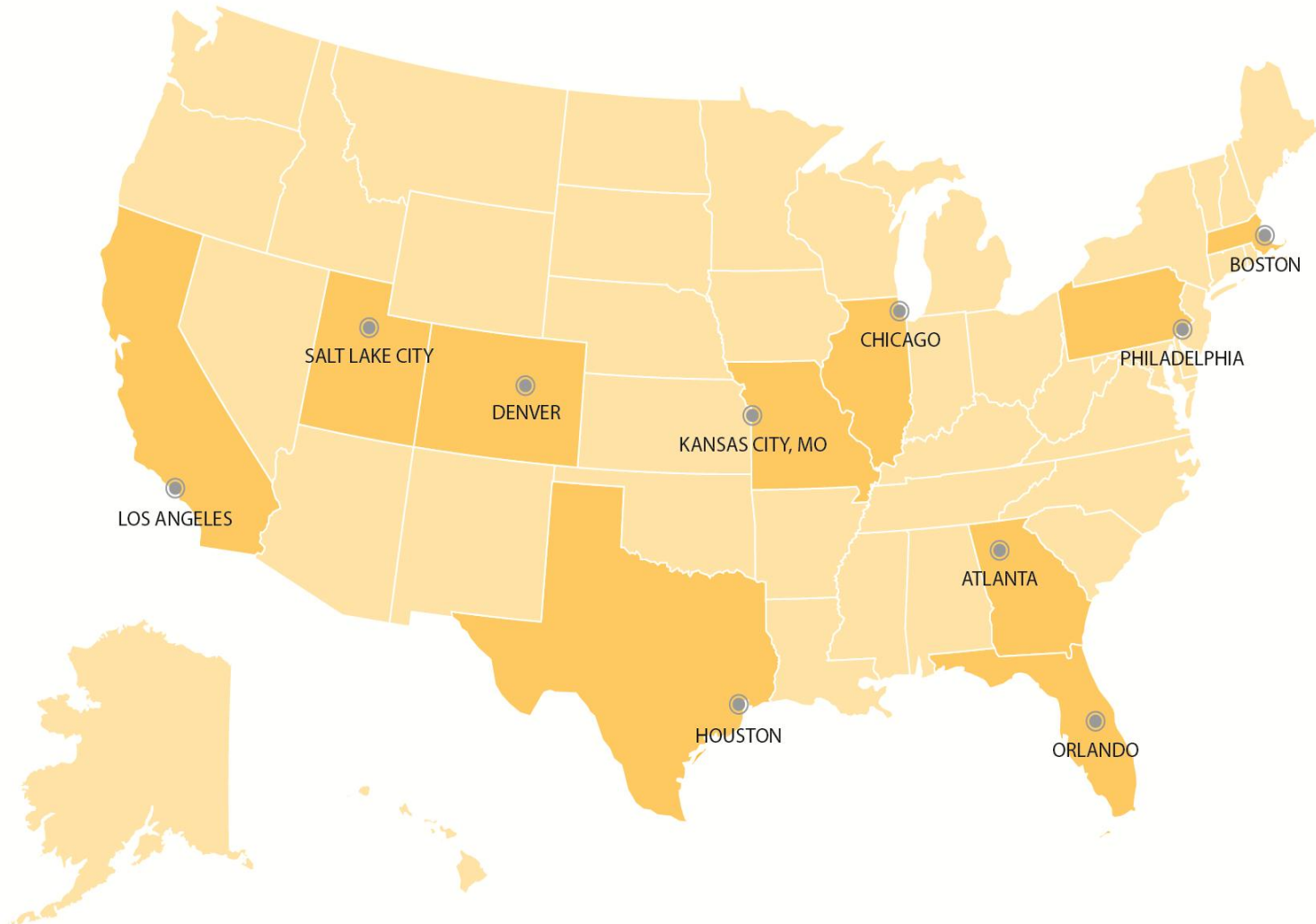
COSTING ALMOST \$500 BILLION ANNUALLY

AN ENORMOUS OPPORTUNITY



...BUT ENERGY EFFICIENCY IS NOT HAPPENING AT SCALE

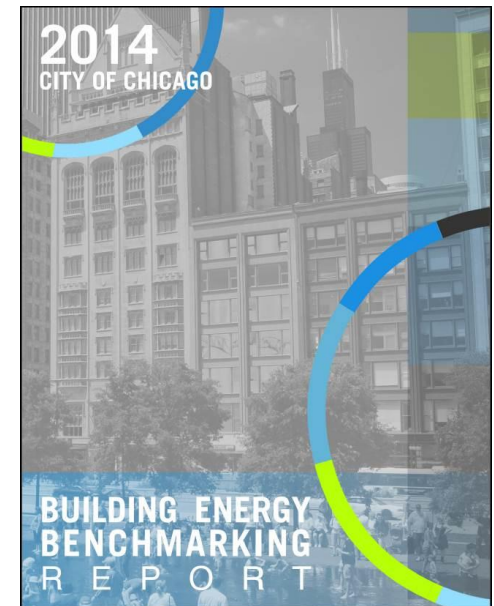
THE 10 CITIES REPRESENT MOST REGIONS OF THE COUNTRY



In 2014, first-year energy benchmarking provided a foundation for increased awareness and efficiency action

Chicago Energy Benchmarking 2014 Findings

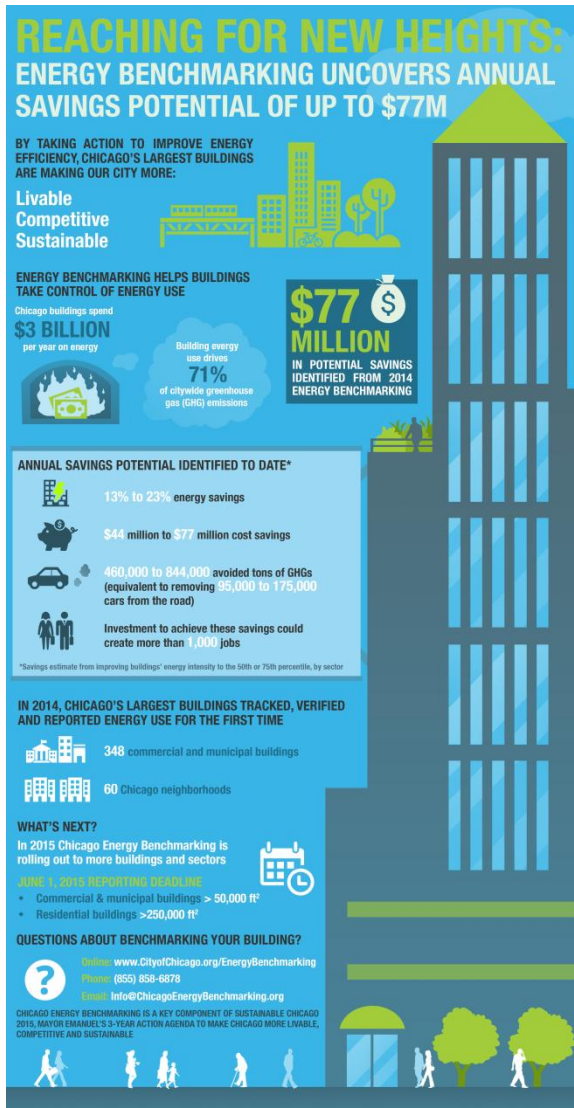
- **Widespread first-year building participation**
 - 348 buildings spanning over 260 million square feet and representing ~11% of citywide building energy use
 - 90%+ compliance
- **Unprecedented, sector-specific data on energy use in Chicago's largest buildings**
 - Median ENERGY STAR Score of 76 out of 100
 - Chicago buildings performed similarly to large buildings in NYC, Philadelphia, and Washington, DC
 - Sector-level data on offices, health care, K-12 schools, universities, and 'other' facilities



Building energy data reported in 2014 suggests potential to save money, reduce emissions, and create jobs

Energy and Cost Savings Potential, Based on Actual 2014 Reported Data

- Improving buildings' energy intensity to average or above-average levels (by sector) could yield:
 - 13%–23% total energy reduction
 - \$44M–77M energy cost savings
 - 460,000–844,000 tons of avoided greenhouse gas emissions (equivalent to removing 95,000–175,000 cars from the road)
 - More than 1,000 jobs from investments to achieve these savings





2015 implementation highlights

- Approximately 5x more buildings required to comply in 2015
- Created online forms to streamline common requests
- Utilized robocall technology to quickly contact representatives of more than 500 buildings
- Initial review of Portfolio Manager submissions completed on a rolling basis with email sent when required information is missing or there are questions about data quality
- Created written instructions for fixing common mistakes identified during the initial data review
- Final report in progress – check back soon for updates!



Chicago Energy Benchmarking Ordinance

Elevate leads the efforts to:

- Identify buildings that are covered by the ordinance
- Notify individuals associated with each covered building
- Create written resources to help building representatives
- Respond to question via phone, email and webform
- Monitor compliance with the ordinance and follow up with questions
- Analyze the energy data

Elevate supports efforts of the Mayor's Office, C40, City Energy Projects, USGBC-Illinois and other partners to:

- Provide weekly trainings
- Connect building representatives that need additional help with service providers
- Enlist others to help raise awareness of the ordinance
- Disseminate results

Stay in Touch

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