

Tackling Efficiency in CRE: Lessons from Leading Cities

Better Buildings Summit May 10, 2016



Agenda

11:00 Welcome & Introductions

11:05 Speaker Presentations

11:20 Moderated Discussion

11:55 Key Takeaways

12:00 Audience Q&A

12:30 Adjourn





Today's Presenters

Ellen Bell



Manager, Environmental Defense Fund Clean Energy

JP Flaherty



TISHMAN SPEYER

Director of Sustainability, Tishman Speyer

Jaxon Love







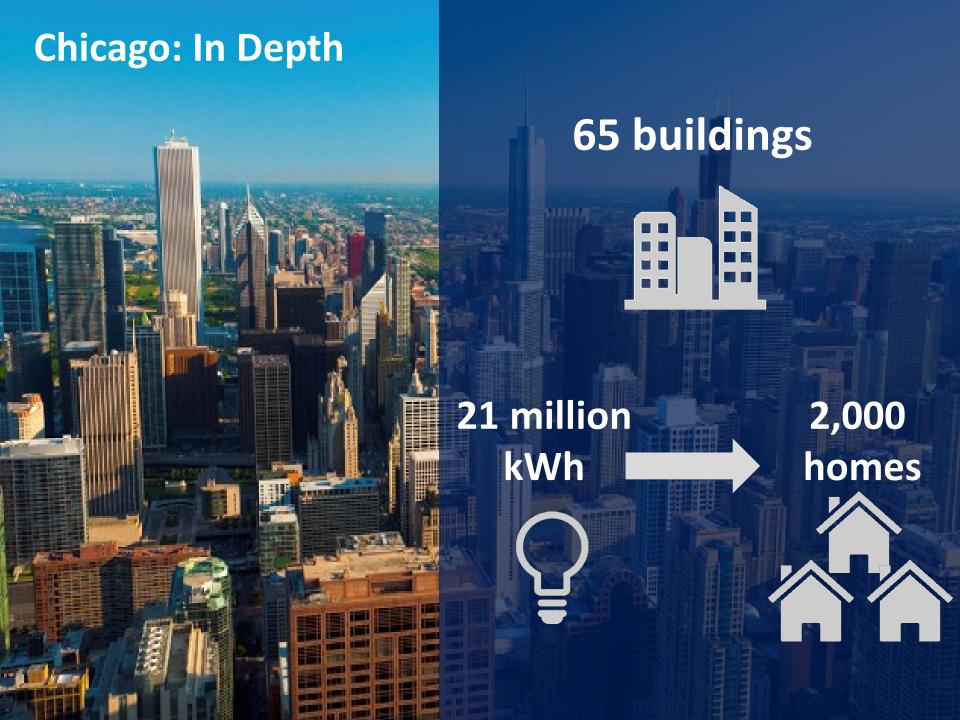


Ellen Bell, Environmental Defense Fund





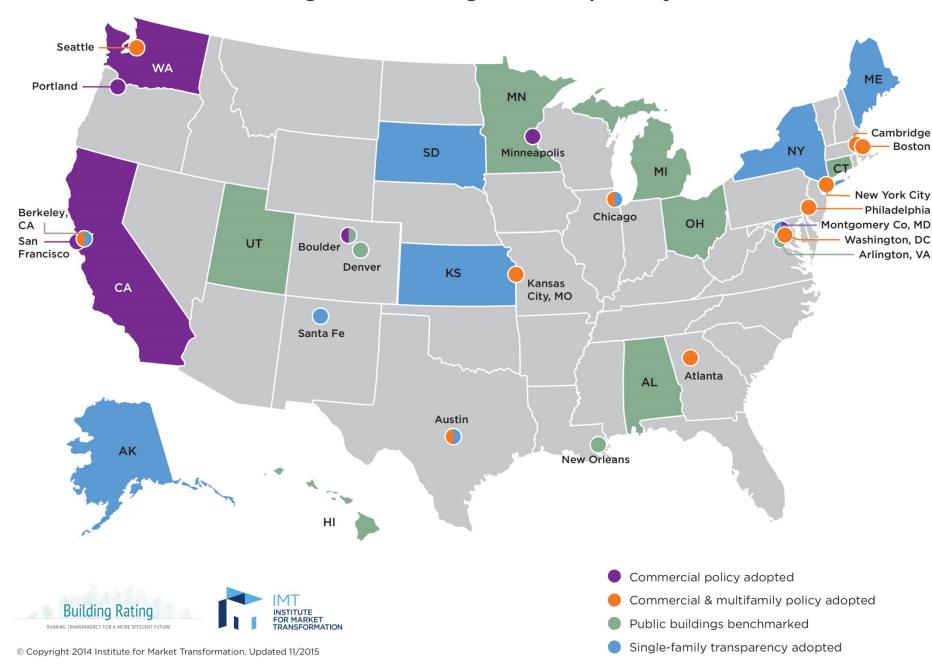




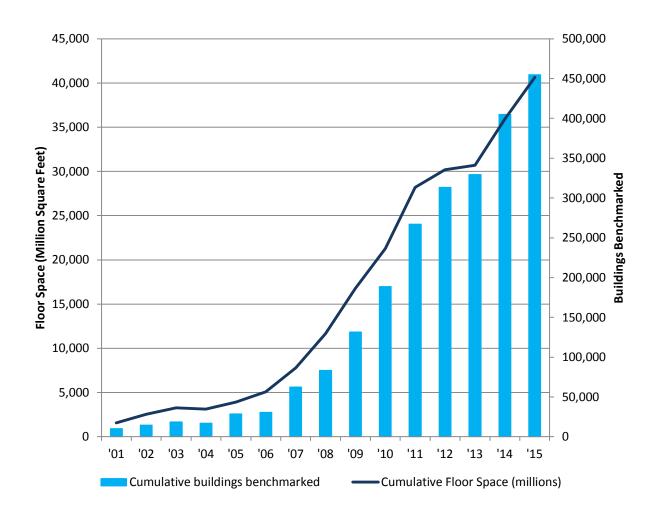
Jaxon Love, Shorenstein



U.S. Building Benchmarking and Transparency Policies



ENERGY STAR Portfolio Manager® by the numbers



More than 40% of U.S. commercial building space

ENERGY STAR Portfolio Manager® making sense of the data

Shorenstein Environmental Performance Report

Portfolio Performance, Q4 2015

Portfolio Summary

| Environmental Performance Metrics ^{1,2} | Dec 2014 | Mar 2015 | Jun 2015 | Sep 2015 | Dec 2015 | Annual |
|--|----------|----------|----------|----------|------------|--------------|
| | | | | | | Variance % 5 |
| ENERGY STAR Score ³ | 86 | 87 | 87 | 87 | 88 | 2.3% |
| Total Energy Cost (thousands) | \$37,225 | \$37,009 | \$36,902 | \$36,731 | \$36,089 | 3.1% |
| Water Use Intensity (Gal/SF) | 14.2 | 14.2 | 14.1 | 14.3 | 14.5 | -2.0% |
| Total Water Cost (thousands) | \$2,253 | \$2,291 | \$2,340 | \$2,408 | \$2,497 | -10.8% |
| Waste Diversion Rate | 48% | 48% | 48% | 51% | 52% | 8.3% |
| GHG Emissions Intensity (KgCO2e/SF) | 7.2 | 7.1 | 7.0 | 7.0 | 6.9 | 4.9% |
| Portfolio Square Feet | | | | | 18,388,343 | |

Environmental Performance Strategy



Investment in Efficiency



Smart Operation



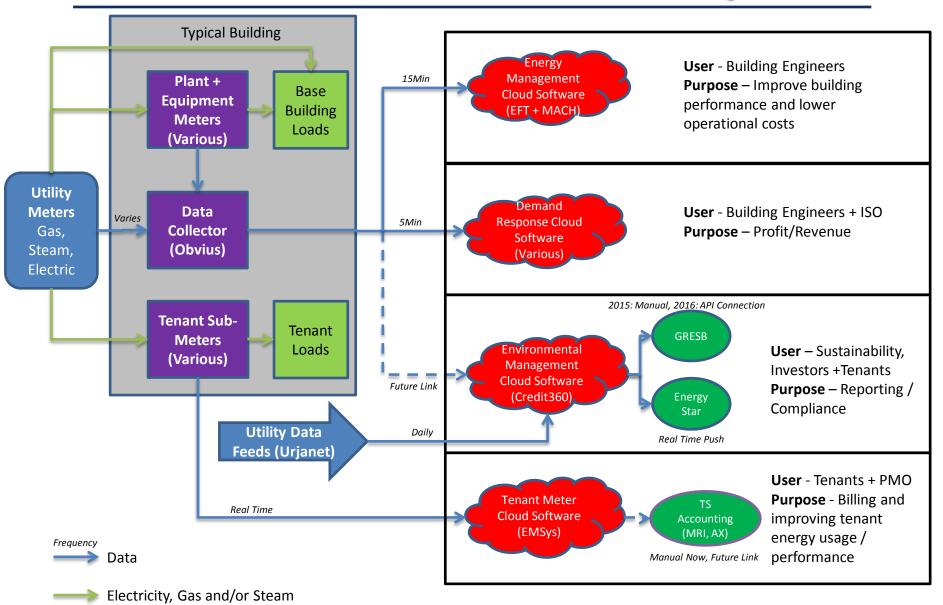
Tenant Engagement

JP Flaherty, Tishman Speyer



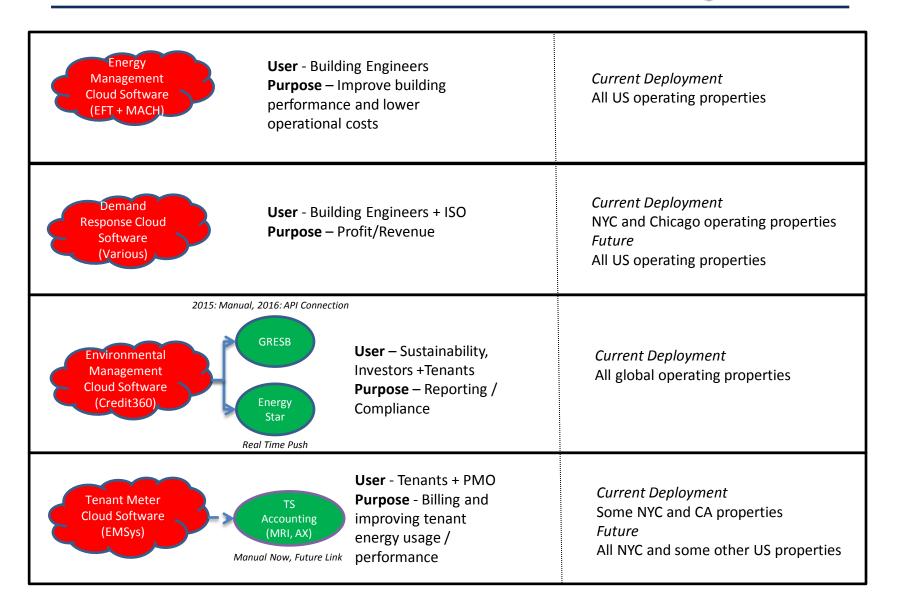
Energy and Environmental Management Systems Operations





Energy and Environmental Management Systems Operations





Moderated Discussion



Key Takeaways

- No need to start from scratch! Many resources exist for energy management programs.
- Being supportive and proactive when ordinances roll out will help your business.
- Benchmarking offers valuable information about building portfolio.
- Water tracking is the next frontier.





Thank you!

Ellen Bell
Environmental Defense Fund
EBell@EDF.org

JP Flaherty
Tishman Speyer

Jflahert@TishmanSpeyer.com

Jaxon Love
Shorenstein
JLove@Shorenstein.com



