



Energy-Saving

HOMES, BUILDINGS,
& MANUFACTURING

U.S. DEPARTMENT OF
ENERGY | Energy Efficiency &
Renewable Energy

Better Buildings: An Efficient, Affordable Future

2013 Efficiency Forum Keynote

Kathleen Hogan, Deputy Assistant Secretary for Energy Efficiency

May 30, 2013

Overview

- Importance of Energy Efficiency
- Progress
- Partnerships
- Recognizing Excellence

State of the Union

“ I’m also issuing a new goal for America: Let’s cut in half the energy wasted by our homes and businesses over the next 20 years.”



Official White House Photo by Chuck Kennedy

- President Obama, State of the Union
February 12, 2013

Importance of EE

Economy

- Savings
- Jobs
- Productivity

Energy Security

Cut Waste by 50%
Double Energy
Productivity

Environment

- Air pollution
- Climate change

Global Competitiveness

Energy Efficiency: Top Priority Energy Resource

Innovation:
Next Generation
Technology

Market Solutions:
Adopting
Technologies at
Scale

Cut Waste by 50%
Double Energy Productivity

Energy Savings
Domestic Jobs
Economic development
Global competitiveness
New clean energy markets
Energy security / resiliency
Environmental protection

Commercial Buildings Offer Large Opportunities



- Commercial buildings consume nearly 20% of all energy used in the United States – at a cost of \$200 billion annually
- Much of this energy and money is wasted:
 - Many commercial buildings could use 20% less energy through low cost commissioning of existing systems so they operate as intended
- Opportunities for
 - Savings
 - New products
 - New services / jobs
- Potential savings of \$40 billion/ year or more with other benefits
- 1/3 of nation's energy efficiency savings opportunity

Innovation

Buildings

- Lighting
- Space conditioning
- Water heating
- Windows / envelope
- Sensors and Controls



Efficient lighting

Double pane, low-e windows

Manufacturing

- Processes
- Materials
- Combined heat & power

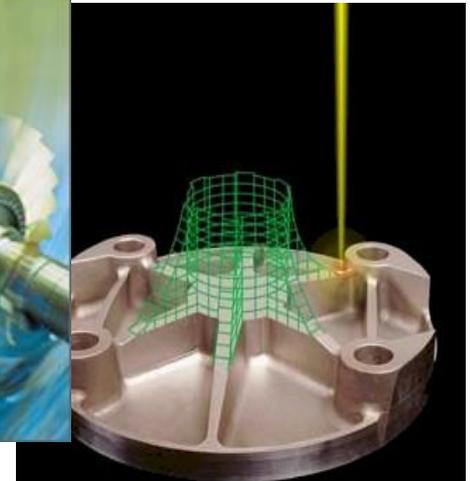
In 2030, solid-state lighting technology will cut energy consumption roughly in one-half and save about \$30 billion annually.



Geothermal heat pumps



Erosion-resistant nanocoatings



Additive manufacturing

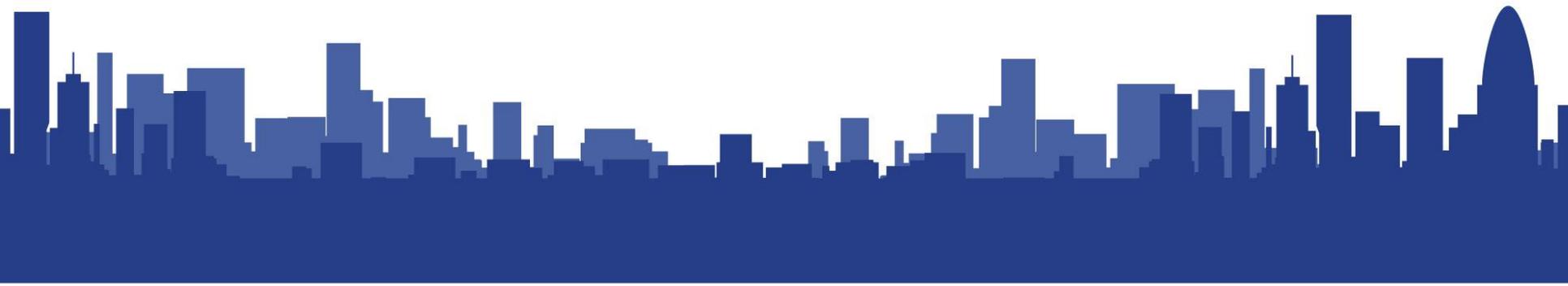
Appliance & Commercial Equipment Standards

- Standards issued to date expected to save 70 quads of energy by 2020 and 121 quads by 2030
- Cumulative utility bill savings to consumers estimated to be over \$950 billion by 2020 and over \$1.7 trillion through 2030
- Regulatory burden on appliance and equipment manufacturers is reduced by preempting potential patchwork of state standards with a single Federal standard
- Regulatory streamlining enhances industry competitiveness, profitability and its ability to protect and create jobs



But Persistent Barriers Exist...

- Energy efficiency not included as corporate decision making; not integrated into business planning
- Lack of senior management buy-in
- Lack of information; need for consistent unbiased information
- Upfront costs / High hurdle rates
- Difficulty accessing up front capital needed to invest in energy efficiency
- Tenant/employee behaviors at odds with efficiency goals
- Split incentives
- Not enough/qualified workforce



Better Buildings strategies to overcome barriers and drive action

Developing Innovative, Replicable Solutions with Market Leaders

Better Buildings Challenge

Better Buildings Alliance

Better Buildings, Better Plants

Better Buildings Case Competition

Better Buildings Neighborhood program

Developing a Skilled Clean Energy Workforce

Job/Task Analyses

Pilot program with NIST: Training and
education programs on Buildings Retuning

Making Energy Efficiency Investment Easier through Better Information:

Asset Rating

Buildings Performance Database

Green Button

Data Access Map

MOU with the Appraisal Foundation

Improving Effectiveness of Federal Incentives:

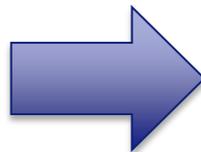
179d eligibility and tool

QECBs

Federal Leadership by Example

Better Buildings promotes energy efficiency as top priority energy resource

- ▶ Leverage American Recovery and Reinvestment Act
- ▶ Overcome Barriers
- ▶ Drive Action/Change
- ▶ Grow Partnerships

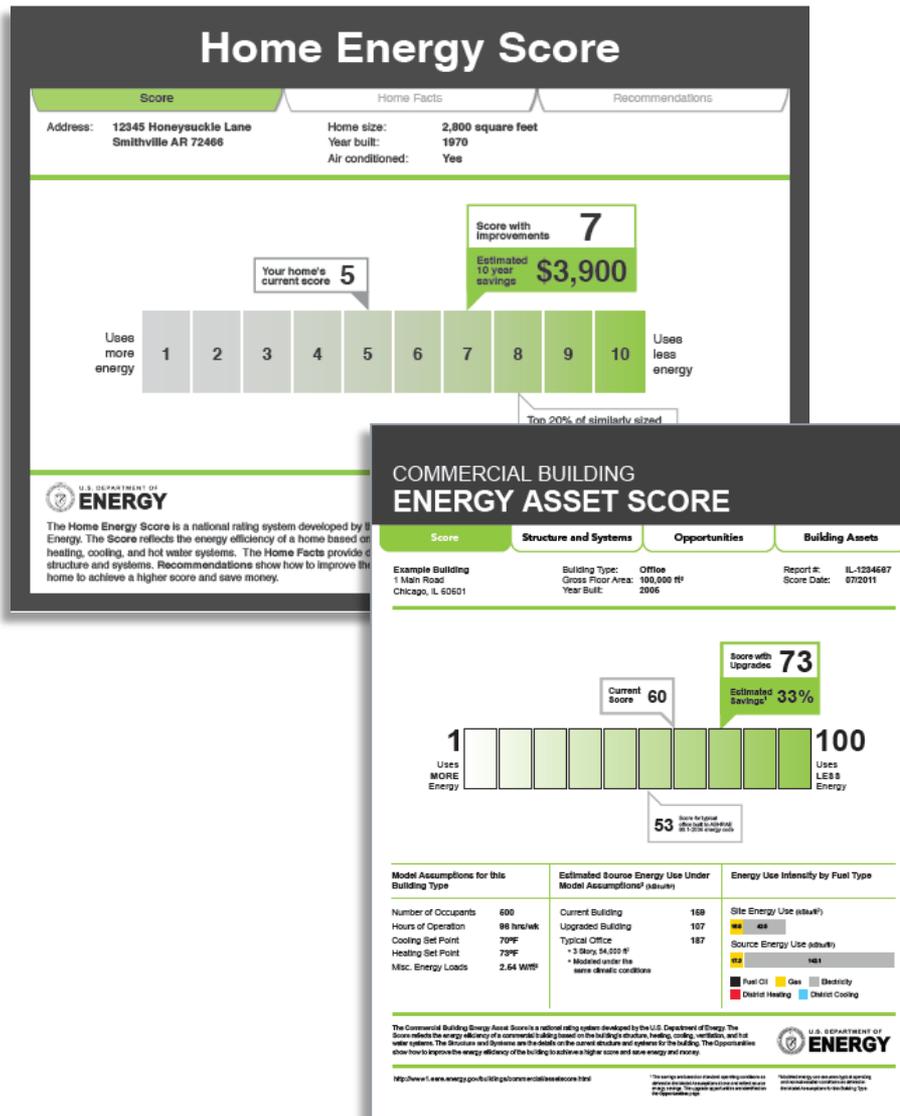


**Revolutionary
change in market**

**Robust energy
efficiency industry**

**Prime the market
for new technology**

Better Information: MPG Scores for Buildings



- **Residential**
 - Quick (1-hr), inexpensive (~\$100) web-based audit
 - Allows homeowners to compare the energy efficiency of their homes to other homes in their climate zone
 - Can be easily integrated into any utility's program
- **Commercial**
 - Evaluates physical characteristics and as-built energy efficiency of buildings
 - Helps commercial building owners/operators understand efficiency of building systems and identify potential upgrade areas
 - Seeking feedback on the development of the program from commercial building owners/managers/operators: asset.score@ee.doe.gov

Better Information: Comparing Data

- **Standard Energy Efficiency Data Platform (SEED)**
 - Cities can use SEED as their own database to merge, cleanse, track and store data from multiple sources about large groups of buildings
 - Cities have been involved in the beta testing and we expect the production-quality version of the tool by end of 2013
- **Buildings Performance Database (BPD)**
 - Largest publicly-available set of empirical data about buildings, their energy consumption, and their physical & operational characteristics
 - Launched in March, contains 70,000 buildings and growing
 - Includes commercial, single family, multifamily, and public buildings (not campuses or industrial)
 - BPD allows cities to unleash the power of all the data they are collecting to drive private sector activity, while protecting the privacy of sensitive information



Better Information: Access to Energy Bills

Data Access and Privacy – Voluntary Code of Conduct

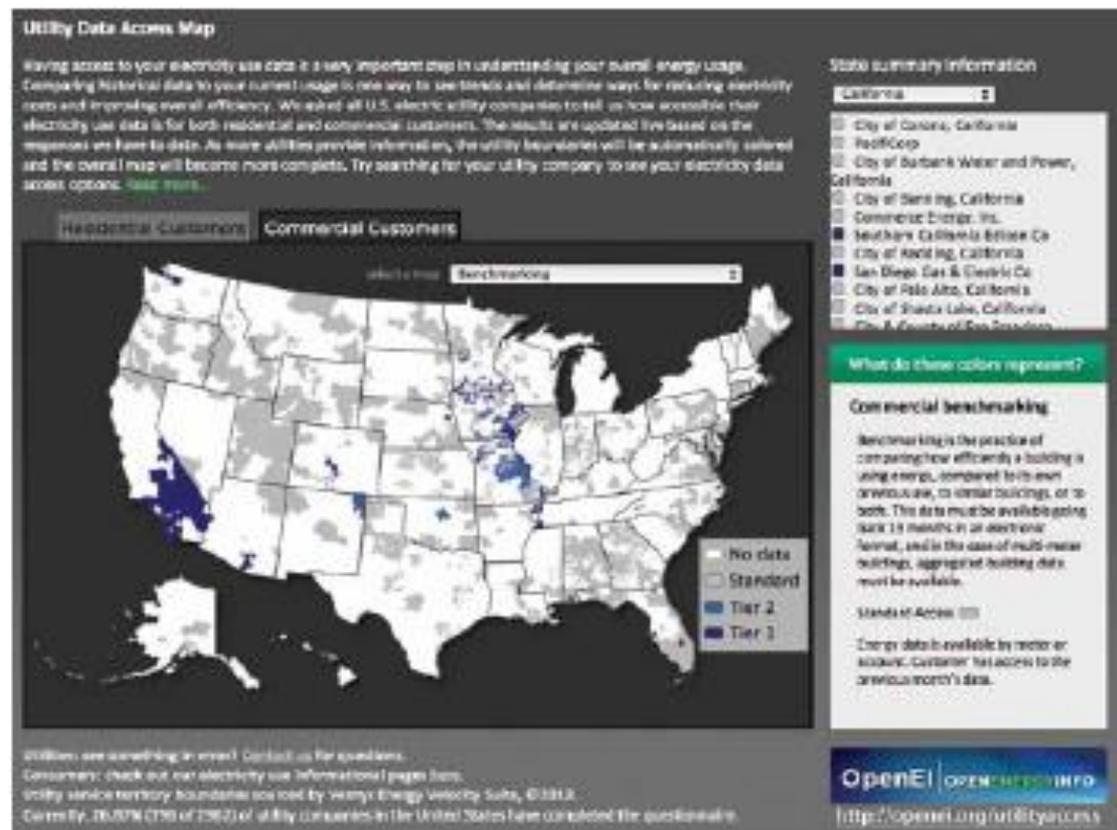
- A stakeholder-developed, transparent code that will address how entities manage customer data

Green Button

- Standardized data access
- Commitments from ~20 utilities representing ~30 million households

Utility Data Access Map

- Interactive Web platform that enables electric utilities to show customers, in a simple way, the data they can access on their electricity use
- Access it at:
www.openei.org/utilityaccess



Workforce Certification

- DOE is working with industry stakeholders to develop standardized definitions and guidelines for 6 different job categories
- Training and certification providers can align their programs to one common set of workforce standards
- States, cities, and other entities will be able to cite these standards and feel confident about the quality





Goals:

- Buildings and industrial plants 20% more efficient by 2020
- Save more than \$40 billion annually
- Create American jobs

How:

- Leadership
- Results
- Transparency
- Best Practice Models
- Recognition
- Catalyzing Action



Who has joined the Better Buildings Challenge?

110+ public, private and non-profit organizations:

- ▶ 23 Commercial Businesses
- ▶ 10 Better Buildings, Better Plants
- ▶ 7 States
- ▶ 40 Communities
- ▶ 17 Educational Orgs
- ▶ 14 Financial Allies
- ▶ 3 Utilities



Together represent:

- ▶ ~2 billion square feet of commercial and industrial space committed
- ▶ 300 manufacturing plants
- ▶ ~\$2 billion in private sector financing

Better Buildings Challenge Partners



Driving Replicable Solutions

| Program Design | Barrier Breaking Strategies | Services/ Best Practices | Supporting Resources |
|---|--|--|---|
| <ul style="list-style-type: none"> • Lead by example • Continuous Improvement • Engaging the private sector • Balancing incentives and regulation | <ul style="list-style-type: none"> • Set-aside funds • Metering strategies • Executive compensation • Facility energy champions • Green Leasing • Setting savings targets • Energy management | <ul style="list-style-type: none"> • Performance contracting • RCx • Energy services • High efficiency retrofits • Lab savings program • Utility programs with data access | <ul style="list-style-type: none"> • Training materials • Professional certifications • Assessment tools • Building efficiency scoring tools • Design tools • Measurement protocols |

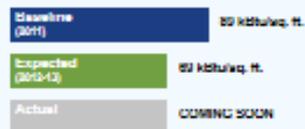


STAPLES ORLANDO FULFILLMENT CENTER #4895

Showcase Project: Staples

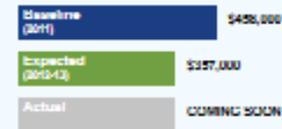
| | | |
|--------------------------------|--|---|
| LOCATION Orlando, FL | PROJECT SIZE 550,000 Square Feet | FINANCIAL OVERVIEW Project Cost \$265,000 |
|--------------------------------|--|---|

Annual Energy Use (Source: EUI)



Expected Energy Savings: **22%**

Annual Energy Cost



Expected Savings: **\$101,000**



BACKGROUND

By undertaking a comprehensive approach for identifying and implementing a host of energy efficiency measures, Staples was able to markedly improve the performance of its Orlando, FL Fulfillment Center through the GE eco-Treasure Hunt program. Annual savings are expected to result in a 22% energy cost reduction. Based on this success, Staples is implementing the program across its remaining fulfillment centers.

SOLUTIONS

A team of GE representatives, members of the Staples energy reduction team, and the on-site facilities team at the Orlando Fulfillment Center participated in the identification of energy reduction opportunities. Together, they focused on energy efficiency in the areas of lighting, battery chargers, conveyors, HVAC and the energy management system. The GE eco-Treasure Hunt program was educational and an inspiring experience for all participants.

OTHER BENEFITS

The Staples energy management team will continue to support the Orlando energy reduction team in implementing capital projects and finding new and continued ways of saving energy. In addition, the energy management team has supplied Orlando staff with associate communications to help engage the associates in energy efficiency efforts. Finally, Staples expects the Orlando Fulfillment Center's ENERGY STAR performance rating will move from 41 to 81.

[Learn more](#)

[Learn more](#)

KOHL'S

KOHL'S NILES, OH STORE Showcase Project: Kohl's Department Stores

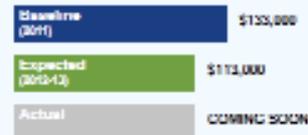
LOCATION: Warren, OH
PROJECT SIZE: 87,300 Square Feet

Annual Energy Use (Source EUI)



Expected Energy Savings: **20%**

Annual Energy Cost



Expected Savings: **\$20,000**

BACKGROUND

By conducting an ENERGY STAR rating analysis of its 1,100 locations, Kohl's has been able to identify and substantially improve the energy performance of its 10244 Niles, OH store as well as gain lessons learned that can be applied to similar stores. Kohl's estimates annual energy savings of 20% from the year-long project, which began in September 2011 and was completed in November 2012.

[Learn more](#)

SOLUTIONS

The Kohl's energy team felt that this project offered a unique opportunity to investigate the energy efficiency discrepancies between the two stores and improve the ENERGY STAR score at the Niles location. As a result, the team has methodically selected and implemented several energy reduction measures, including replacement of the Roof Top Units (RTUs), a lighting upgrade, and re-commissioning of the control systems.

[Learn more](#)

OTHER BENEFITS

Kohl's expects the Niles store to achieve an ENERGY STAR rating of 75 – a 12 point increase – and become eligible for the ENERGY STAR label with completion of the RTU replacement, re-commissioning, and lighting upgrade. Upon ENERGY STAR labeling, Kohl's will add the store to its Leadership in Energy and Environmental Design (LEED®) volume Rating Building (RB) program.

Better Buildings Challenge: 2013 & Beyond

- ▶ Hundreds of implementation models/replicable solutions linked to results will provide foundations for
 - Build Better Buildings Alliances
 - DOE Solution Center
- ▶ Recognition of partner success
 - Highlight BBC leaders in industry conferences, national media tour
 - Successful business strategies
- ▶ Expanding the Better Buildings Challenge: identifying under-represented sectors/barriers
- ▶ Expanding the impact; getting actionable solutions/models out
- ▶ Better Buildings Accelerators

How do we bring **solutions** to a wider audience?

How do we expand to a broader set of solutions?

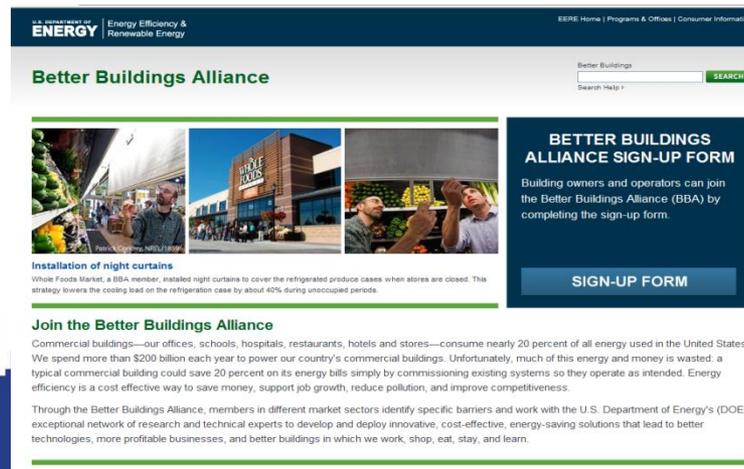
Better Buildings Alliance

Through the Better Buildings Alliance, Members in different market sectors **identify specific barriers to energy efficiency** and work with DOE to **deploy innovative, cost-effective solutions**



Installation of night curtains

Whole Foods Market, a BBA member, installed night curtains to cover the refrigerated produce cases when stores are closed. This strategy lowers the cooling load on the refrigeration case by about 40% during unoccupied periods.



U.S. DEPARTMENT OF ENERGY | Energy Efficiency & Renewable Energy

BERE Home | Programs & Offices | Consumer Information

Better Buildings Alliance

Better Buildings
Search Help

BETTER BUILDINGS ALLIANCE SIGN-UP FORM
Building owners and operators can join the Better Buildings Alliance (BBA) by completing the sign-up form.

SIGN-UP FORM

Installation of night curtains
Whole Foods Market, a BBA member, installed night curtains to cover the refrigerated produce cases when stores are closed. This strategy lowers the cooling load on the refrigeration case by about 40% during unoccupied periods.

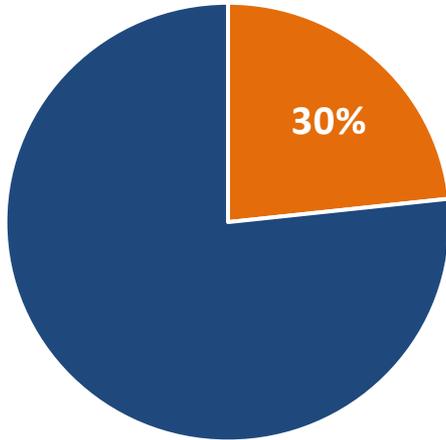
Join the Better Buildings Alliance
Commercial buildings—our offices, schools, hospitals, restaurants, hotels and stores—consume nearly 20 percent of all energy used in the United States. We spend more than \$200 billion each year to power our country's commercial buildings. Unfortunately, much of this energy and money is wasted: a typical commercial building could save 20 percent on its energy bills simply by commissioning existing systems so they operate as intended. Energy efficiency is a cost effective way to save money, support job growth, reduce pollution, and improve competitiveness.

Through the Better Buildings Alliance, members in different market sectors identify specific barriers and work with the U.S. Department of Energy's (DOE) exceptional network of research and technical experts to develop and deploy innovative, cost-effective, energy-saving solutions that lead to better technologies, more profitable businesses, and better buildings in which we work, shop, eat, stay, and learn.

Better Buildings Alliance: Overview

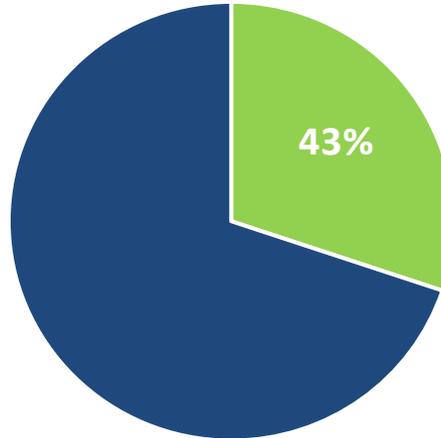
- ▶ Over 200 member organizations
- ▶ Members are asked to:
 - Share information about organization’s energy goals – encouraged to be multi-year goal of 2% annually
 - Participate in at least one Better Buildings Alliance activity per year, (test out a Challenge partner’s implementation model or replicate a strategy described in a showcase project; participate in a project team activity)
 - Share information on your successes to help other members replicate your results
- ▶ In return, DOE:
 - Supports members/assist in overcoming barriers through project teams.
 - Provides a neutral, third-party platform for sector peers to address common efficiency challenges

Better Buildings Alliance: Members



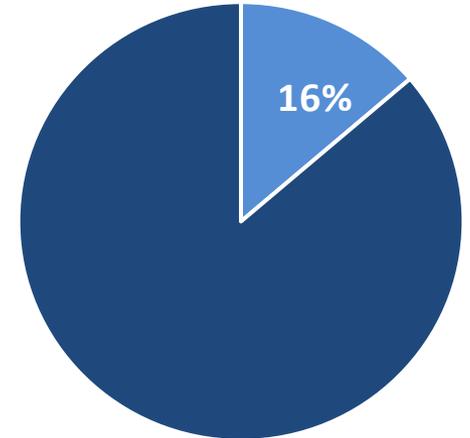
Commercial Real Estate & Hospitality

>75 members
> 8 billion sq ft



Healthcare

> 50 members
Nearly 1 billion sq ft



Retail

> 50 members
> 2 billion sq ft

Higher Ed – 22 members, 100 million + sq ft

>200 member organizations | >500 individual participants | >10 billion sq ft

Better Buildings Alliance: How is it Organized?



Commercial
Real Estate

Food
Service

Grocery

Healthcare

Hospitality

Higher
Education

Retail

Public
Buildings

Technology Solutions



Lighting



Space Conditioning



Plug & Process Loads



Laboratories



Refrigeration
Food Service Tech



Energy Information Systems

Market Solutions



Financing Strategies



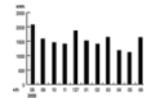
Leasing and Tenant
Engagement



Training / Workforce



Appraisals and Valuation

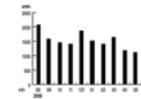


Data Access

Public Sector Solutions



Financing
Strategies



Data
Management



Strategic Energy
Planning



Energy Savings
Performance Contracts

Rooftop Unit Air Conditioner (RTU) Challenge

2011: RTU Challenge Announced with Support from the following organizations:



2012: DOE Announced the following Participating Manufacturers:



Congratulations on Meeting the RTU Challenge Specification!

Certificate of Recognition

Presented by the United States Department of Energy to

Carrier Corporation

Whose WeatherExpert commercial packaged rooftop system meets the 18 IEER performance requirement and key parameters outlined in DOE's Better Building Alliance Rooftop Unit Challenge.

May 2013

Thank you to our Better Buildings Alliance Steering Committee Members and Chairs

- ▶ Commercial Real Estate Chair: John K. Scott, Colliers International
- ▶ Retail Chair: James McClendon, Walmart Stores Inc.
- ▶ Healthcare Chair: John Krolicki, University of Pittsburgh Medical Center

Continuing our Partnership

Energy Saving HOMES, BUILDINGS, & MANUFACTURING



We look forward to continuing working together to:

- Develop and deploy advanced building technologies
- Make energy efficiency investment easier
- Develop replicable solutions with market leaders
- Meet the Administration's goals



energy.gov/BetterBuildings

Better Buildings Challenge: bbc@ee.doe.gov

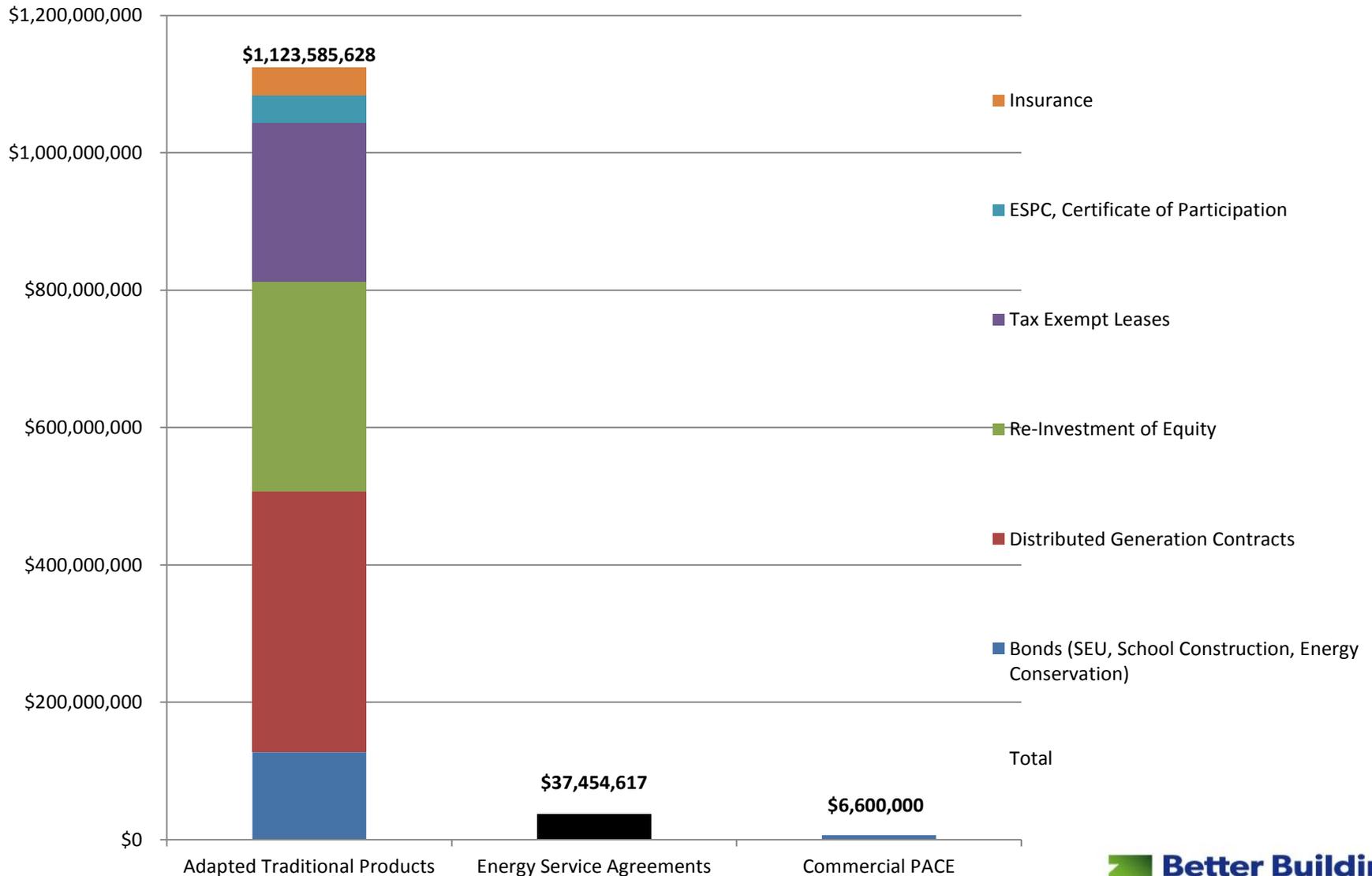
Better Buildings Alliance: bba@ee.doe.gov



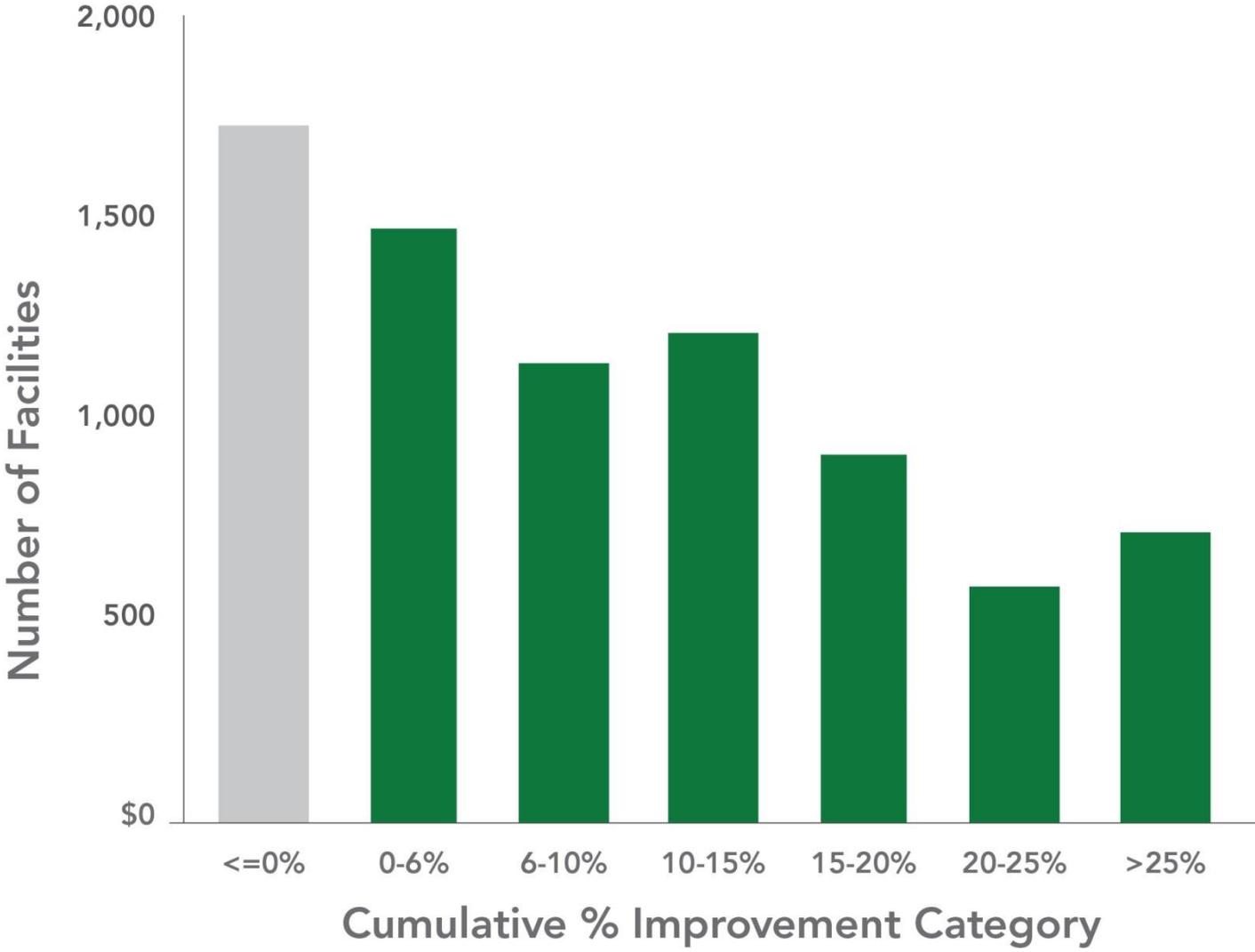
Significant progress in first year:

- More than 50 showcase projects
- Almost 40 implementation models underway or completed
- 2.5% average annual improvement in energy intensity
- Annual savings of \$58M
- Partners on track to meet goals

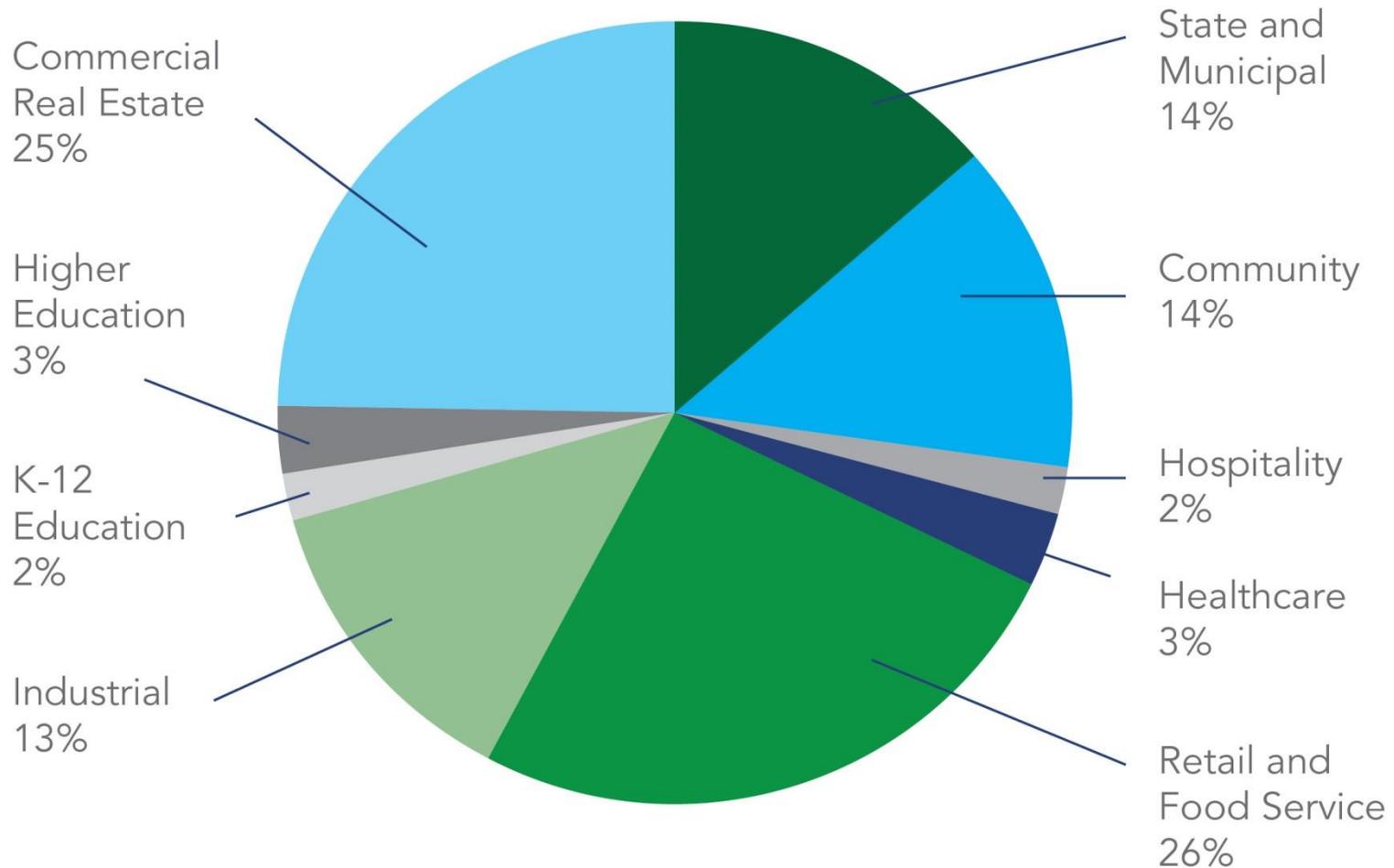
Financial Allies: Deals Closed in 2012



Facility Level Percent Improvements



Market Sectors Represented....



The Better Buildings Initiative announced by President Obama in December 2011 is a broad, multi-strategy initiative designed to reduce by 20% the energy intensity in the commercial and industrial sectors by 2020, catalyze revolutionary change in energy use, achieve billions in energy bill savings, and create high quality American jobs. A cornerstone of the initiative, the Better Buildings Challenge, is a public-private partnership program in which leading organizations commit to improve the energy intensity of their building portfolios by at least 20% over 10 years and share their strategies and results with the market. This Progress Update summarizes the significant progress being made by these market leaders.

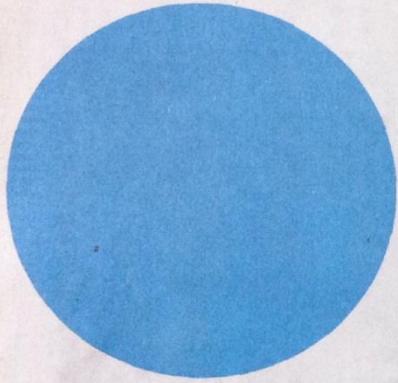
More than 110 organizations have taken the Better Buildings Challenge. Over half are Commercial and Industrial Partners that represent more than 2 billion square feet of real estate across diverse public and private sectors. Almost one-quarter are cities and counties who, as Community Partners, engage both publicly- and privately-owned facilities throughout their communities in their commitment. A network of Financial

and Utility Allies assist Partners in overcoming financial and data access barriers. The Federal Government is also meeting a challenge and demonstrating leadership, having met one-quarter of its \$2 billion goal in performance contracting by the spring of 2013.

The Better Buildings Challenge Partners and Allies have made significant progress in the first year of the program. More than 50 showcase projects and nearly 40 implementation models have been completed or are underway highlighting innovative, aggressive, and realistic strategies for realizing energy savings. More than \$1.1 billion, or two-thirds of committed financing has been extended to energy efficiency improvements. Partners are demonstrating that improvements in energy intensity of more than 2.5% per year across their broad portfolios are achievable and cost effective. Such improvements would total 5% over 2 years and 7.5% over 3 years, growing to more than 20% over 10 years. If all U.S. commercial and industrial buildings and facilities improve at this rate, savings would total more than \$80 billion per year, after 10 years.

Better Buildings Challenge Snapshot (Figure 1)

| Partners and Allies | Commitments | Progress | Average Annual Savings |
|---|--|---|---|
| Public and Private Commercial Partners 66 Commercial real estate, healthcare, hospitality, food service, retail organizations, state and municipal governments, K-12 schools, and higher education institutions | <ul style="list-style-type: none"> • 2+ billion square feet • 300+ manufacturing facilities • 25 communities engaging with business leaders | Showcase Projects: <ul style="list-style-type: none"> • 69 identified • 49 complete • 7 in development Implementation Models: <ul style="list-style-type: none"> • 65 identified • 17 complete • 9 in development | <ul style="list-style-type: none"> • 2.5% energy intensity • \$58 million |
| Industrial Partners 12 Energy-intensive to light manufacturing | | | |
| Community Partners 25 Municipalities working with their business communities | | | |
| Financial Allies 14 | <ul style="list-style-type: none"> • \$1.7 billion in financing | <ul style="list-style-type: none"> • \$1.1 billion extended • 2 implementation models complete • 2 in development | NA |
| Utility Allies 3 Investor-owned and public power | <ul style="list-style-type: none"> • Provide customers with easy access to energy bill data; help customers increase energy savings in millions of building square feet | <ul style="list-style-type: none"> • 5 implementation models complete | NA |
| Federal Agencies | <ul style="list-style-type: none"> • \$2 billion in performance contracting | <ul style="list-style-type: none"> • \$560 million awarded | NA |



USA TODAY
05.23.13
 A GANNETT COMPANY



TIGER WOODS BY USA TODAY SPORTS

CHRISTINE BRENNAN

When golf turns ugly

A racist remark, an illegal drop, a lawsuit. Guys, grow up, 6C



SERGIO GARCIA BY AP

Secret to saving energy? Tell everyone how

Partners in Better Building Challenge reveal strategies

Wendy Koch
 @wendykoch
 USA TODAY

When hotel guests leave their room during the day, a magnetic door sensor tells the thermostat to reduce the heating or cooling. When they come back, it has the temperature return to their selected degree.

The programmable thermostat is one of several energy-efficiency features installed last year at the Marriott La Jolla in La Jolla, Calif. The hotel also uses motion sensors on stairwells and vending machines to keep lighting dim when not in use.

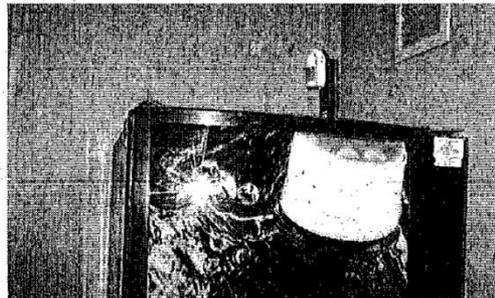
"We save \$5 million per year" on utility bills company-wide with such retrofits, says Bob Holesko, vice president of facilities at HEI Hotel & Resorts, which owns the La Jolla site and 40 others in 16 states. He says steps such as programmable thermo-

stats pay for themselves, by lowering energy use, within three years.

His company is one of three dozen — including Best Buy, General Electric, Macy's and Staples — that have pledged not only to cut energy use 20% by 2020 but also to share their secrets for success as part of a new federal program that released its first-year results Wednesday.

More than 110 partners — including schools, universities and cities, such as Atlanta, Chicago, Los Angeles and Seattle — have signed on to the voluntary Better Building Challenge, launched by President Obama in December 2011. They've created at least 50 projects to showcase their strategies, cut energy use per square foot more than 2.5% in the first year and lined up \$1.1 billion in private funds for efficiency upgrades.

"We waste a lot of the energy we use," says Maria Vargas, director of the program at the Department of Energy, which provides technical but no financial help to its partners. She says retrofits such as swapping out incandescent light bulbs for ultra-efficient LEDs (light-emitting diodes)



Marriott La Jolla in La Jolla, Calif., uses motion sensors on vending machines to keep lighting dim when not in use.

MARRIOTT

can cut energy use 20% to 30%, save money and reduce greenhouse gas emissions. In other words, she says, they're a win-win.

Unlike some aspects of Obama's "all-of-the-above" energy strategy, efficiency has garnered broad support. A bipartisan bill in Congress to improve the efficiency of appliances, buildings and corporate supply chains passed a Senate panel earlier this month on a 17-3 vote. It now moves to the Senate floor.

The legislation, proposed by Sen. Jeanne Shaheen, D-N.H., and Sen.

Bob Portman, R-Ohio, is backed by environmental groups, as well as the Chamber of Commerce and the National Association of Manufacturers.

Vargas says the DOE program aims to provide strategies, already proven by leaders in energy efficiency, that other organizations can follow. She says the trick was getting companies to share data and tips — a sort of playbook — for what works.

Holesko says HEI Hotels & Resorts initially hesitated to disclose details of its signature dashboards, which post energy usage in its build-

ings. "It's always been our baby," he says, noting it helped cut utility bills. Still, he says the company decided, "it's something we have to share."

In its hotel guest rooms, IHG (InterContinental Hotels Group) also uses LEDs, programmable thermostats, motion sensors and Energy-Star-certified microwaves, refrigerators and TVs. It's also taken steps that guests won't see, such as improving wall and water tank insulation.

A Walgreens in Goodyear, Ariz., installed 29 skylights last year with interior solar panels that track the sun's position and move mirrors to increase the natural light that enters the building. Walgreens is building a store in Evanston, Ill., scheduled to open around Thanksgiving, that aims to produce as much energy as it uses. It will have 250 rooftop solar panels, two wind turbines and geothermal wells for heating and cooling.

Some partners, including Alcoa and Kohl's, which has solar panels on many of its retail stores, have another strategy. For some employees, they tie performance reviews and pay increases to energy savings.



You are here: Home / Technology / Better Buildings Challenge Achieving Greater Commercial Building Energy Efficiency [Infographic]

Blogroll
These are the folks we love...

Friends and Supporters

- Best Green Blogs Directory
- Dancing Rabbit Ecovillage
- Global Warming Causes
- Online Latin Tutor

Better Buildings Challenge Achieving Greater Commercial Building Energy Efficiency [Infographic]

MAY 27, 2013 BY JEFF MCINTIRE-STRASBURG 2 COMMENTS

8 4 22

Like +1 Submit submit Tweet PinIt repost

Most of us associate "green building" with "energy-efficient homes"; when we think of buying energy, we immediately think of our own utility bills. But, as you might expect, commercial buildings and industrial facilities are huge users of energy, so President Obama and the Department of Energy launched the [Better Buildings Challenge](#) in 2011 to get more efficiency out of the \$400 billion spent each year to power these installations.



Hot Topics: 'School of Rock' | Jessie M. Chaney | No-call list | Andrew Quarless at OTA

Business

Home » Business

Buildings in efficiency challenge cut energy use, save \$58 million

By Thomas Content of the Journal Sentinel

May 23, 2013

Tweet 11 Recommend 0 SHARE

EMAIL PRINT (0) COMMENTS

Land and Space

Participants across the country in the Better Buildings Challenge reduced their energy intensity by 2.5% last year, achieving about \$58 million in annual energy savings.

PSD signs on to energy saving challenge

May 23, 2013 | 0 Comments

Recommend

Recommend 0 Tweet 0 +1 0 PinIt

EMAIL PRINT A A



Written by Madeline Novey

Poudre School District is among a list of cities, organizations and businesses U.S. Energy Secretary Ernest Moniz says are leading the way in using less energy.

FILED UNDER

SITE SEARCH:



SIGN IN | REGISTER



THIS WEEK'S ISSUE | NEWS | BLOGS | SHALE | CRAIN'S AWARDS | LISTS & DIRECTO

Tuesday, May 28, 2013



Home

Alcoa cuts energy use dramatically at Barberton recycling plant

By DAN SHINGLER
10:55 am, May 24, 2013

A new, \$21 million cast house expansion at the Alcoa Wheel and Transportation Products plant in Barberton is expected to cut in half the amount of energy used to recycle aluminum for forged wheels made by Alcoa.

Home News Voices Calendar Green Jobs Resources SB
Local news National news Archives

Date: Thursday, May 23, 2013, 8:48am PDT

'Better' get on it: Oregon buildings on track to meet DOE's goals

By Andy Glegertch
Sustainable Business Oregon editor



Two area jurisdictions and a schools district received shout-outs from the Department of Energy for their involvement with a federal building initiative.

The cities of Beaverton and Hillsboro, along with the Portland Public Schools district, contributed to the \$68 million in annual energy savings recorded by participants in the DOE's [Better Building Challenge](#). The drive hopes to slash energy use in commercial and industrial buildings by 20 percent by the year 2020.



Enlarge Image
Retrofits to the Beaverton Library will help save 20 percent in energy costs by the year 2020.

News Sports Business Opinion Entertainment Lifestyles Media Jobs Homes Cars Classified
Today Local Weather Obituaries Community Archives

knoxnews.com blogs » Frank Munger's Atomic City Underground



Knoxville part of Better Buildings Challenge

Newly sworn-in Energy Secretary Ernest Moniz has been busy in his first few days in office, including setting up his [Facebook page](#) -- where he announced the first year's progress in the Better Buildings Challenge program.

Knoxville is a part of that program and is reporting some progress.

State Farm™

Switch to State Farm and you could save up to \$480* on auto insurance.

[Get A Quote ▶](#)

*Legal



Better Buildings
CHALLENGE
U.S. DEPARTMENT OF ENERGY





- 10% EUI improvement in 30M square feet since 2008
- Established a Facilities Infrastructure Pool (FIP) to provide capital for energy efficiency improvements, maintain facility infrastructure



Cleveland Clinic

- New Tomsich Pathology Laboratories designed to save 27% over ASHRAE Standard 90.1

FORESTCITY

- Shared energy data for over 13M square feet
- 20% reduction in energy use /operating costs expected in South Bay Galleria Mall in Redondo Beach, CA
- Created an Energy and Sustainability Group; developed energy action plans (EAPs) for key projects



- 9% reduction in EUI in 7M square feet since 2008
- 27% & \$200K saved annually at San Diego Marriott La Jolla
- Energy Looking Glass Dashboard tool provides centralized view of energy use and savings opportunities



InterContinental Hotels Group

- 12M square feet of energy use data
- 20% savings/yr Holiday Inn Express: Atlanta Airport - College Park
- Communicates with hotel guests through the online Innovation Hotel

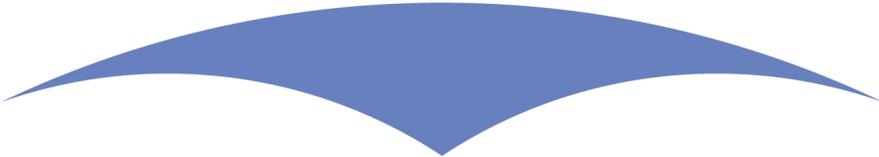


JONES LANG
LASALLE®

- 30% savings at the Moscone Convention Center in San Francisco, CA

KOHL'S

- 7% improvement in EUI in 110M square feet since 2008
- 20% savings at Niles store in Warren, OH
- Partnership between the Finance and the Energy teams improves communication for energy efficiency projects



Lend Lease

- 39% savings in residential homes at the Laurel Bay Marine Corps housing community in Beaufort, SC



- 15% reduction in energy intensity since 2009; nearly 600 buildings achieved reductions of between 10-30%
- 27% annual savings at Metro Center in Washington, DC



PNC

- Achieved average annual savings of 4% across 15M square feet



PROLOGIS

- Demonstrated the viability of Property Assessed Clean Energy (PACE) at Pier 1 in San Francisco, CA, and 32% savings expected



S H O R E N S T E I N

- 14% reduction in energy use intensity across nearly 15M square feet since 2008
- 19% annual energy savings at Palisades Office Park in Atlanta, GA



that was easy.®

- 11% improvement in EUI across more than 45M square feet since 2008
- 22% savings at its Orlando, FL Fulfillment Center through participation in GE eco-Treasure Hunt program and subsequent retrofits



Financial Services

- 15% improvement in EUI across 24M square feet since its 2008 baseline
- 27% savings following the retrofit of a suburban office building at 811 Barton Springs road in Austin, TX
- Added sustainability metrics to formal performance assessment of third-party property managers



TRANSWESTERN[®]

- 19% and 45% annual energy savings at Pennzoil Place in Houston, TX and 815 Connecticut Avenue in Washington, DC
- Developed Good, Better... BEST Standards of Sustainability



USAA Real Estate Company

- 20% improvement in EUI across more than 11M square feet since 2008

Walgreens

- 45% savings at new pharmacy in Goodyear, AZ

WYNDHAM WORLDWIDE

- 5% improvement in EUI in 7M square feet since 2008
- Requires minimum basic certification under Wyndham Vacation Ownership (WVO) Green Certification Program for all Wyndham timeshare properties
- 13% annual savings at Super 8 Ukiah Hotel in Ukiah, CA



ALLEGHENY COLLEGE

- 23% savings at the Richard J. Cook Center for Environmental Science

MICHIGAN STATE UNIVERSITY

- 10% improvement in EUI in 19M square feet since 2010
- Expects 34% annual energy savings following implementation of five-step existing building commissioning process at Anthony Hall in East Lansing, MI



UNIVERSITY *of* CALIFORNIA • IRVINE

- 51% savings in Natural Sciences II building
- Shared “Smart Lab” approach to drive a paradigm shift for laboratory energy use without compromising safety



- 22% annual energy savings the Dumke Health Professions Education Building in Salt Lake City UT through HVAC system upgrades

Welcome New Partners



THE TOWER COMPANIES
Transcend.

 **NewYork-Presbyterian**
The University Hospital of Columbia and Cornell

UPMC LIFE
CHANGING
MEDICINE



Walgreens

THE UNIVERSITY OF UTAH®

STAPLES®



USAA®

ASCENSION HEALTH

Cleveland Clinic

that was easy.®

USAA Real Estate Company

macy's inc

THE TOWER COMPANIES
Transcend.

GREEN SPORTS ALLIANCE

FORESTCITY

TRANSWESTERN®

JONES LANG LASALLE®

WYNDHAM WORLDWIDE

HEI HOTELS & RESORTS

PARMENTER REALTY PARTNERS



CBRE

Lend Lease

PROLOGIS

PNC



RREEF

MICHIGAN STATE UNIVERSITY

ALLEGHENY COLLEGE

KCTCS

BEST BUY

SHORENSTEIN

IHG InterContinental Hotels Group

TIAA CREF Financial Services

KOHL'S

NewYork-Presbyterian The University Hospital of Columbia and Cornell

Sprint

UPMC LIFE CHANGING MEDICINE

Delaware State University Making our mark on the world



UNIVERSITY of CALIFORNIA · IRVINE

Better Buildings CHALLENGE U.S. DEPARTMENT OF ENERGY