

Energy Efficiency &

Renewable Energy

ENERGY



Jason J. Powers

Project Officer – State Energy Program

May 22, 2013

Overview

- SEP & EECBG Recovery Act Successes
- Energy Data Initiative
- SEP Competitive Grants
- Better Buildings Challenge



Recovery Act: SEP and EECBG Success

Select achievements through December 31, 2012:

- Retrofit of 190,000 Buildings for Energy Efficiency (1.4 billion square feet)
- Installation of Renewable Energy Systems with a total capacity of 800,000 kilowatts
- Installation of 300,000 energy efficient traffic signals
- Installation of more than than 200,000 energy efficient streetlights
- More than 10,000 Jobs Created or Retained during a peak Recovery Act period (January 1 – March 30, 2011)



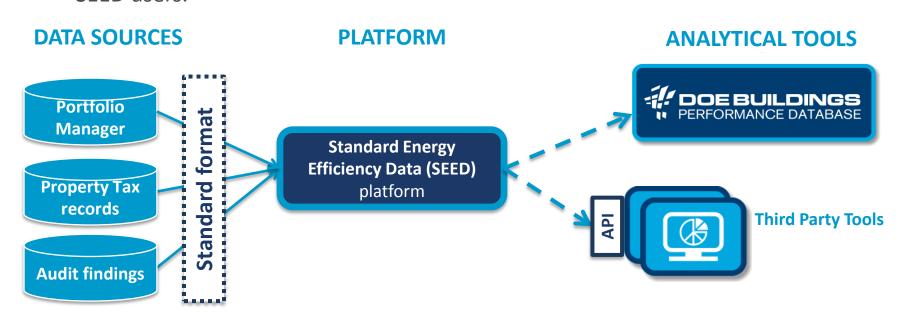
Energy Data Initiative

Led by the U.S. Department of Energy, the Energy Data Initiative seeks to:

- Work with data owners inside and outside of government to make energy-related data available, machine-readable, and accessible, while ensuring personal privacy is protected, and
- Collaborate with private-sector entrepreneurs and innovators to ensure they are aware of these existing and newly available digital assets and encourage them to include these data as inputs into their new products, services, and product features that improve our energy productivity and catalyze the transition to a clean energy economy.

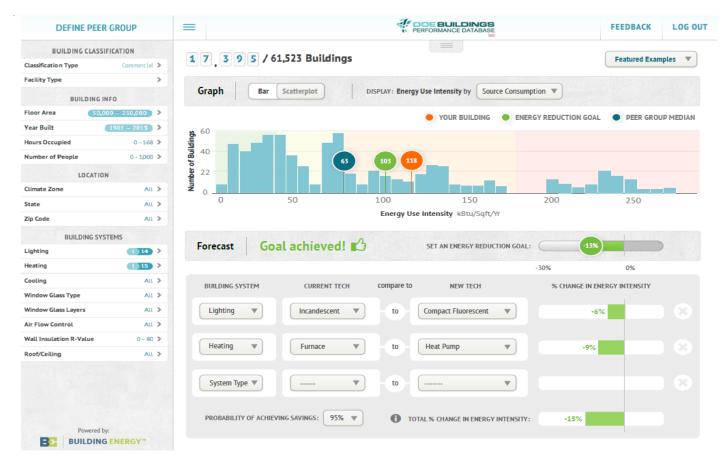
Standard Energy Efficiency Data (SEED) platform

- The SEED platform is a blank database structure. Each user can create their own "instance" of the platform.
- SEED enables users to import data from multiple sources about the same group of buildings, and conduct analysis and reporting of the information.
- The SEED platform utilizes a standard format.
- The owner of each SEED instance can choose which external parties can access the information, and what fields to share.
- An API will enable third-parties to develop additional tools that can be used by many SFFD users.



The Buildings Performance Database

- The BPD unlocks the power of building energy performance data. It contains actual data on >70,000 existing commercial and residential buildings.
- The BPD can statistically analyze trends in the energy performance and physical and operational characteristics of buildings across the country.
- An API will enable third parties to create applications using the database.



SEP Competitive - Advancing EE in Public Facilities

Develop holistic, whole-building, deep retrofit programs or strategies across as broad a segment of the state's public building portfolio as possible to achieve significant energy and cost savings.

- Cohort Based Management
 - Peer exchange groups
- > Deliverables:
 - Showcase Project within 9 months of grant initiation
 - Annual Energy Data Sharing
 - Implementation Model (Playbook)



Implementation Models - Approaches to Overcome Barriers

An "implementation model" is a **replicable pathway** for the deployment of energy efficiency in an organization.

The solution should address a **key barrier** to energy efficiency and provide details to the approach an organization took to create a **sustainable solution**, including:

- policies
- processes
- outreach efforts
- tools/resources



Better Buildings Challenge

Launched by President Obama in December of 2011, the goal of the Better Buildings Challenge is to improve the efficiency of American commercial and institutional buildings, industrial plants and public facilities by 20 percent or more by 2020.





CHALLENGE PARTNERS & ALLIES REPRESENT

2 Billion

Square Feet Committed

\$2 Billion

in Financing through Allies

+300

Manufacturing Facilities

BBC Partners & Allies Agreement

Partner Agrees to:

Commit

- Assign Senior Executive signature
- Entire building portfolio

Take Action

- Community outreach
- Showcase project

Report Results

- Share portfolio-wide, facility-level energy performance twice a year
- Share playbooks and solutions
- Provide quarterly updates on progress

Utility Allies Agree to:

- Provide commercial EE multi-measure programs that save 5% across a customer class by 2015
- Provide customers with their energy usage data electronically in a format compatible to Portfolio Manger

Financial Allies Agree to:

- Invest or lend at least \$50M for commercial building EE projects
- Share all of the information about their projects that will drive more market participants to upgrade energy performance

DOE Agrees to:

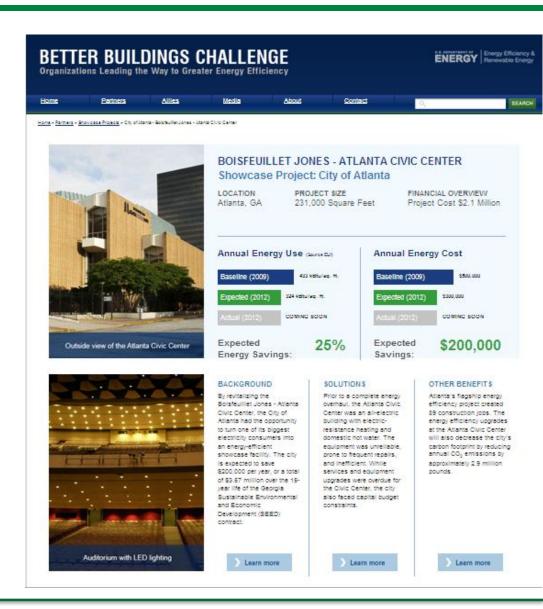
Provide TA, National Recognition & Opportunities to Meet Committed & Vetted Partners

DOE will highlight actions of Challenge Partners

BBC Website

www.betterbuildingsenergy.gov/ challenge

- Highlights partners' commitment and progress
- Includes showcase projects and implementation models



BETTER BUILDINGS CHALLENGE

Partners and Allies:

As of 6/19/12













































PROLOGIS











Cleveland Clinic











CENSION































that was easy.®











Walgreens















SCHOOL DISTRICT OF





Beaverton





FORESTCITY





MINNESOTA











BBC Alliance Agreement

Alliance Member Agrees to:

Commit

- Assign company representative
- Multi-year savings of 2% annually

Take Action

- Utilize tools like Portfolio Manager
- Participate in BBA workgroups

Report Results

- Share your success, help other BBA members replicate your results
- Provide annual updates on energy savings & progress toward your goals

DOE Agrees to:

Assist

- Provide technical assistance
- Share BBC Partner Playbooks

Connect

- Opportunities through Financial Allies
- Peer exchange forums

Inform

- Keep members informed thru regular BBA communications and webinars
- Provide Access to DOE & trusted third party information and technical resources

BBC – Partner Map

PARTNER MAP

Use the interactive map to select a Partner or Ally, and learn more about the Better Buildings Challenge participants in your area.













<u>Municipal</u>



Thank You

2NDAnnual Better Buildings Summit STATE & LOCAL LEADERS UNLOCKING THE CLEAN ECONOMY

> May 30-31, 2013 Renaissance Hotel Washington, DC

