

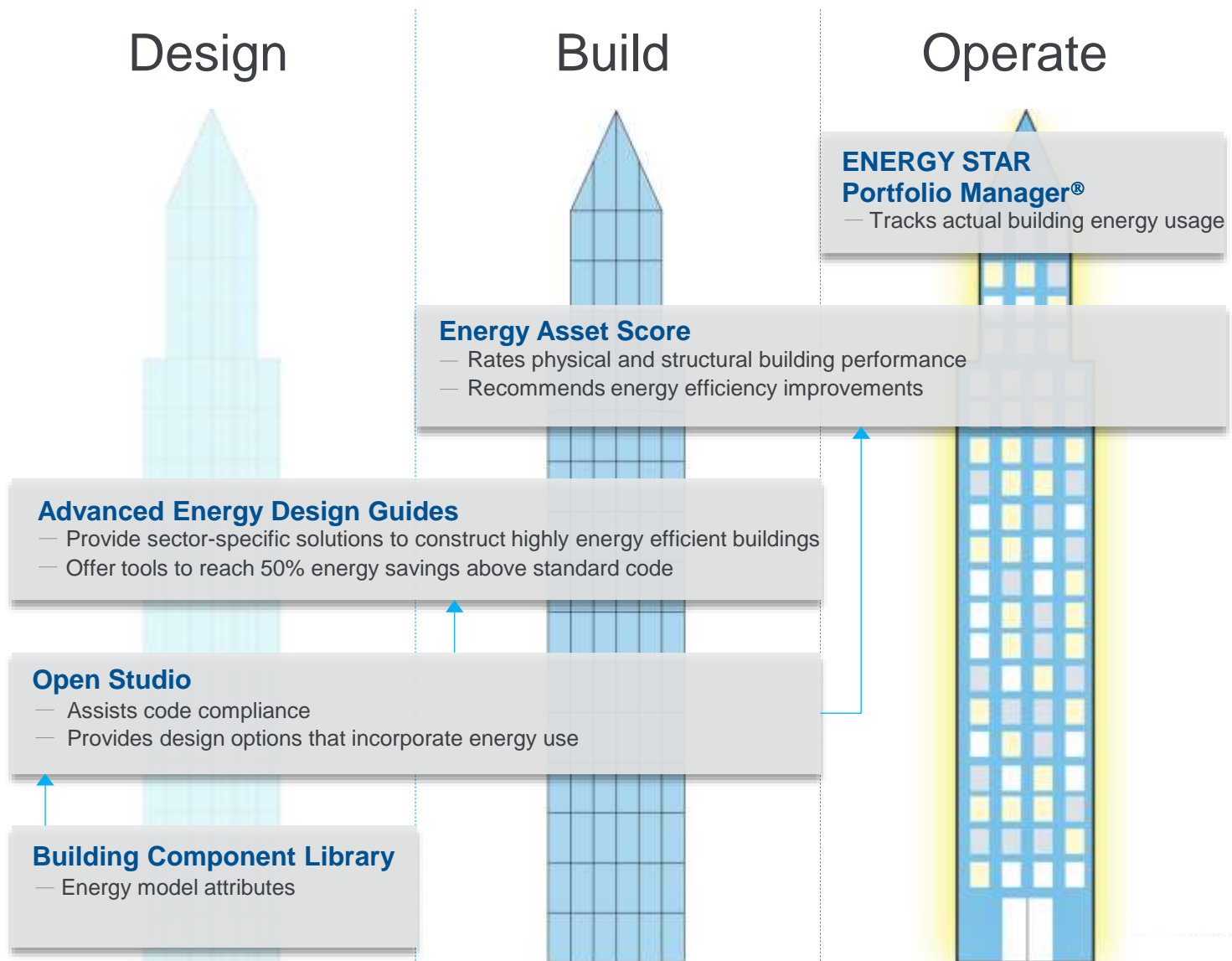


Building Energy Performance Data Tools Overview

September 2015

Building Technologies Office
U.S. Department of Energy

Goal: Integrate energy-related information throughout building lifecycle



Goal: Increase availability & consistency of energy-related information


Transmit

HPMXL Residential Audit


BUILDINGSYNC Commercial Audit

GREEN BUTTON Utility Energy Data

Harmonize

 **SEED** PLATFORM
Software that harmonize existing datasets into single platform designed for buildings

Compare

 **BPD**
BUILDING PERFORMANCE DATABASE
Public database of anonymized building energy performance

 **BEDES**
BUILDING ENERGY DATA EXCHANGE SPECIFICATION

Dictionary of common terms to ensure interoperability between data tools

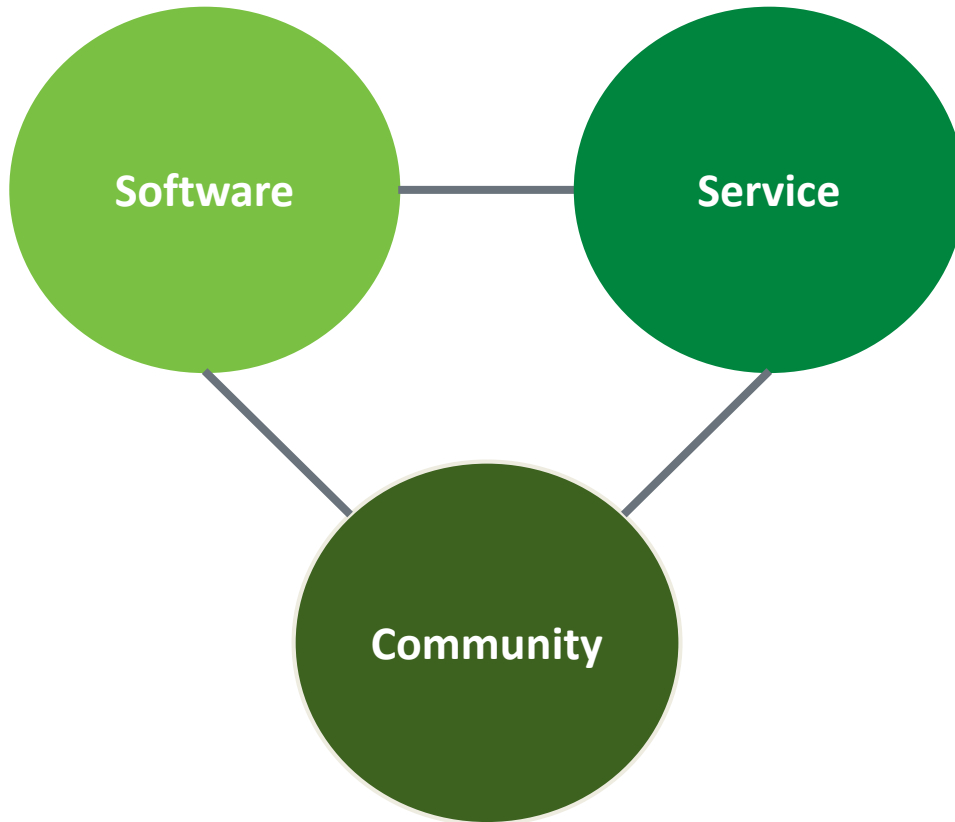
The Challenges of Data Management



Stats

\$.30 of every EE program dollar is spent on data collection, management, and verification.

Cities are spending 0.5-1.0 FTEs each year at a cost of \$50-100,000 on data needs related to energy benchmarking and compliance.



Standard Energy Efficiency Data Platform



- Helps cities/States streamline data management for building performance programs.
- Easily compile all information on the building stock in one place, match up and reconcile information from different sources, and determine compliance.
- The open source and extensible platform can support apps and connect to website and other software, such as CRM systems and public real estate listings.

512 Buildings										
Buildings List List Settings										
Building Actions ▾										
	ADDRESS LINE 1	ENERGY STAR SCORE		PM PROPERTY ID	PREMISES GROSS FLOOR AREA		PREMISES OCCUPANCY CLASSIFICATION	SITE EUI		TAX LOT ID
	Address Line 1	Min	Max	Pm Property Id	Min	Max	Premises Occupancy Classification	Min	Max	Tax Lot Id
<input type="checkbox"/>	198832 SE Arthur Loop		74	634829		68,177	COMMERCIAL		75	10101/132e1
<input type="checkbox"/>	90256 S Cantaloupe Court		86	413717		51,688	COMMERCIAL		62	10101/1f7f1
<input type="checkbox"/>	241773 W Apples Avenue		79	178388		59,341	COMMERCIAL		68	10101/230e0
<input type="checkbox"/>	4455 N Ash Lane			929775		330,369	COMMERCIAL		425	10101/2417d
<input type="checkbox"/>	162695 NW Monroe Alley		89	959006		323,725	COMMERCIAL		63	10101/25e4b
<input type="checkbox"/>	16643 W Ford Alley			956153		288,029	COMMERCIAL			10101/27d4b
<input type="checkbox"/>	181881 E Myrtle Street		79	451449		215,255	COMMERCIAL		77	10101/2b760
<input type="checkbox"/>	243909 SW Taft Boulevard		84	922911		234,831	COMMERCIAL		85	10101/2e66d
<input type="checkbox"/>	219222 SW Filbert Avenue		73	800676		142,331	COMMERCIAL		78	10101/34a5f
<input type="checkbox"/>	199110 W Myrtle Boulevard			391603		302,514	RESIDENTIAL-MULTI FAMILY		130	10101/36bfc

Display: buildings Showing 1 to 10 of 512 buildings [« Previous](#) [Next »](#)

Cities participating in the SEED Platform Project

Washington
DC

New York
City

Philadelphia

Berkeley

Orlando

Atlanta

Kansas City

Salt Lake City

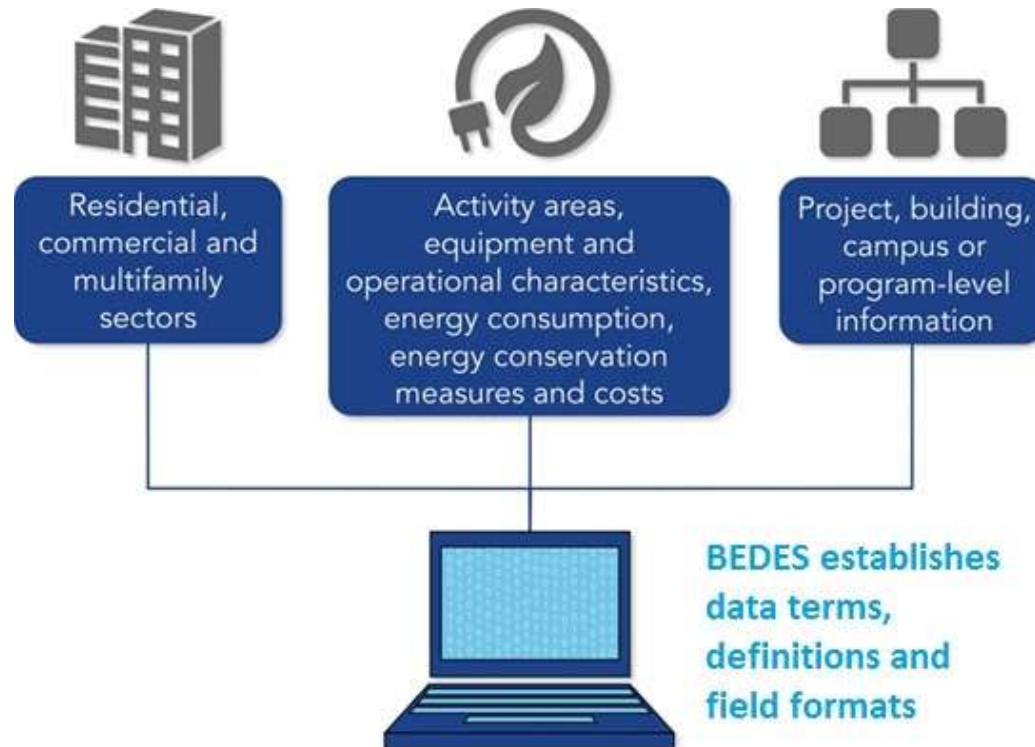
Cambridge

Minneapolis

Montgomery
County

Building Energy Data Exchange Specification

- Dictionary of terms, definitions, and field formats to facilitate the exchange of information on building characteristics and energy use
- Industry-wide standardization increases the efficiency of business processes and helps grow the market of products and services that utilize energy data



Use the BEDES to:

- Improve data quality and decrease the cost and time involved in aggregating and sharing data
- Exchange data more easily and at lower cost, while increasing data quality by reducing potential translation errors

Green Button

Portfolio
Manager

California
Standard Data
Dictionary

GRESB

Real Estate
Standards
Organization

Home
Performance
XML

EcoPros

EnergySavvy

FS Residential

AIA 2030
Design Data
Exchange

E-Project
Builder

Buildings Performance Database

- The BPD is the largest publicly-accessible dataset of information about the physical and operational characteristics of real buildings
- >850,000 buildings and >9,000 users



Contact

Elena Alschuler

Elena.Alschuler@ee.doe.gov