



Energy Benchmarking with Xcel Energy

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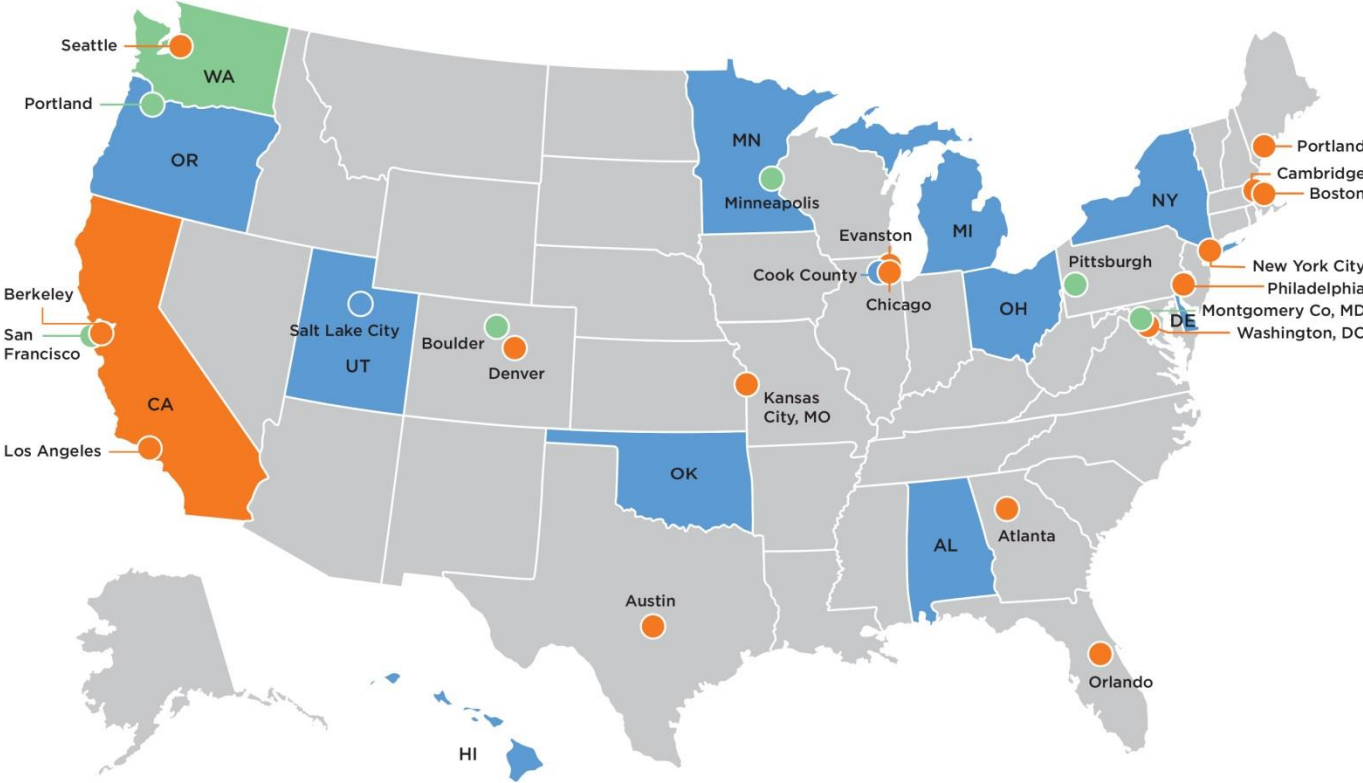


Agenda

- Overview of the benchmarking and transparency landscape across the United States
- Discussion of barriers involved in gaining access to energy utility data
- Best practice solutions for utility providers
- Preview to Xcel Energy's Energy Benchmarking system

Benchmarking & Transparency in the U.S.

U.S. Building Benchmarking and Transparency Policies



- Public, commercial, and multifamily building benchmarking policy adopted
- Public and commercial building benchmarking policy adopted
- Public buildings benchmarked



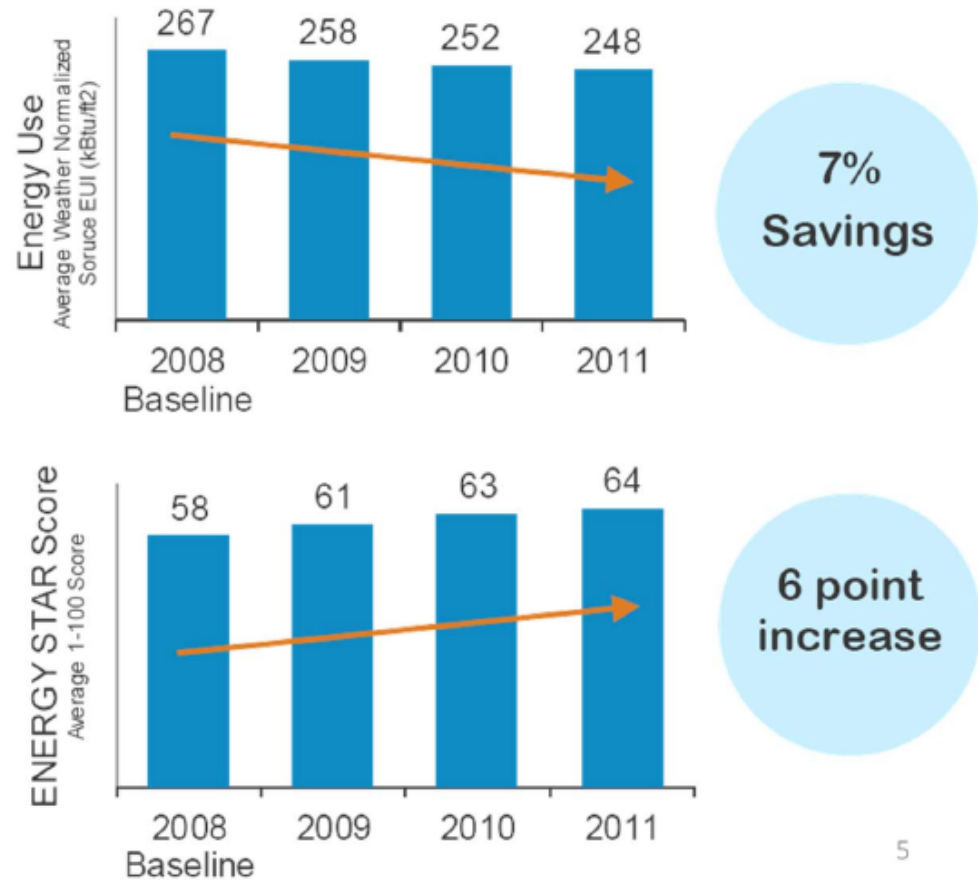
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Drivers – Energy Efficiency Potential

Consistent benchmarking in buildings results in energy savings and improved performance

Energy Savings in Portfolio Manager



Source:

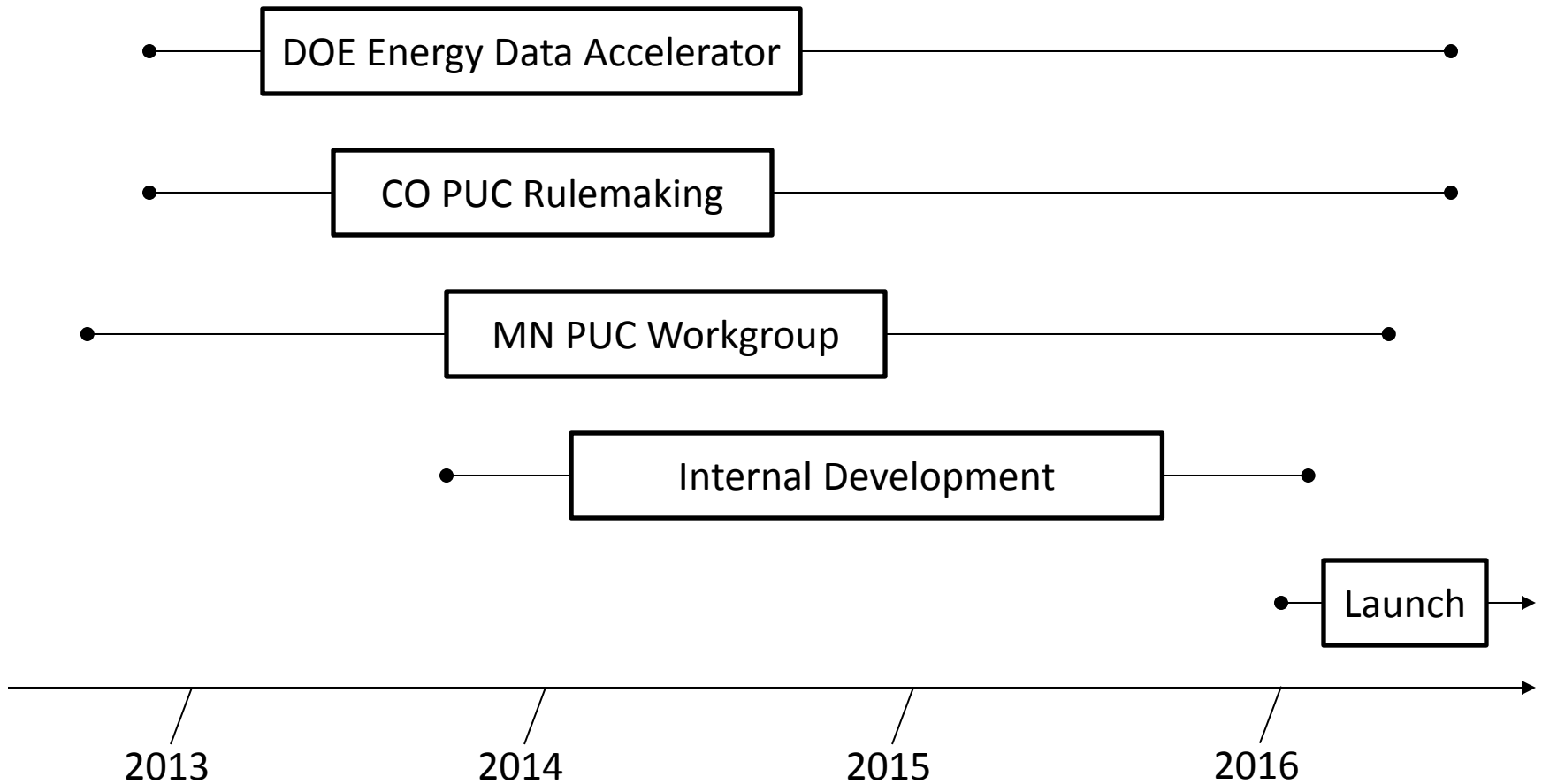
http://www.energystar.gov/ia/business/downloads/datatrends/DataTrends_Savings_20121002.pdf?8d81-8322



But barriers exist

- Data availability
- Protection of consumer privacy and confidentiality interests
- Data quality

How Xcel Energy approached these barriers

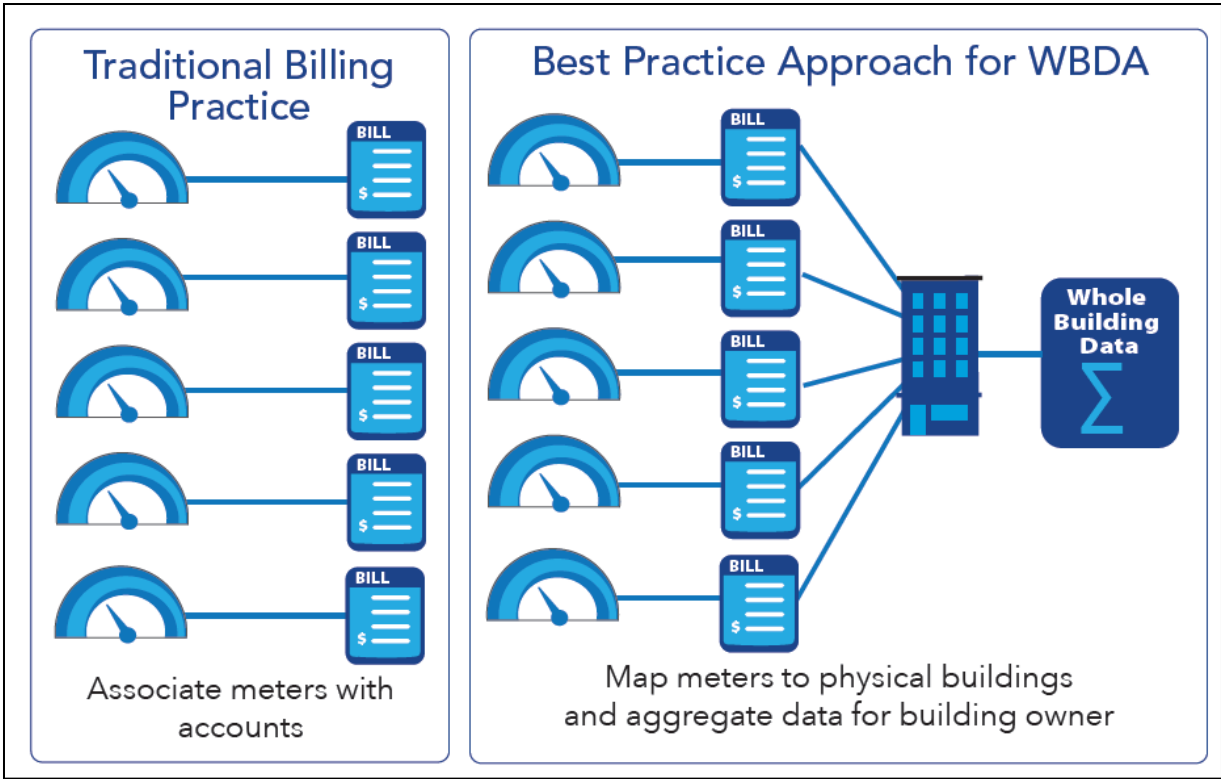


DOE Energy Data Accelerator

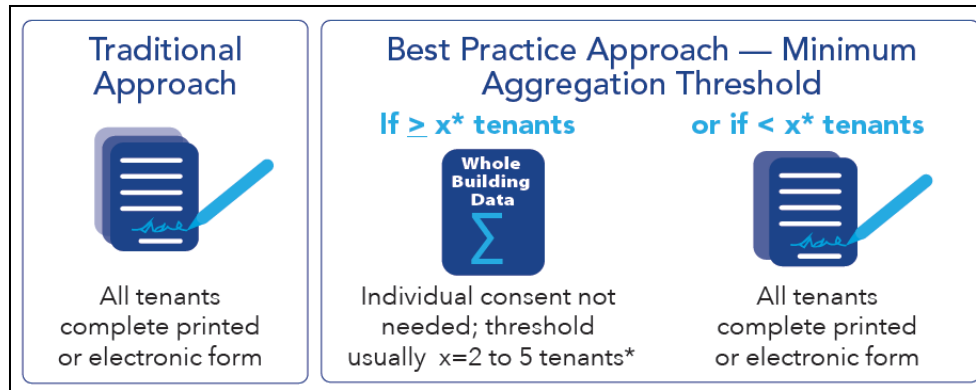
...DOE will accelerate the ability of building owners to gain access to whole-building data by working together with cities and utilities to:

- Demonstrate **low-cost, standardized approaches** for providing energy data for the purpose of whole-building energy performance benchmarking.
- Develop best practice approaches for **reliable and secure** utility aggregation of energy data from multiple accounts to facilitate whole-building benchmarking while **protecting privacy**.
- Demonstrate new tools to **streamline the transfer** of utility bill data to benchmarking tools, including standard data formats for ENERGY STAR® Portfolio Manager.

Best Practice #1: Aggregate



Best Practice #2: Streamline Consent Process

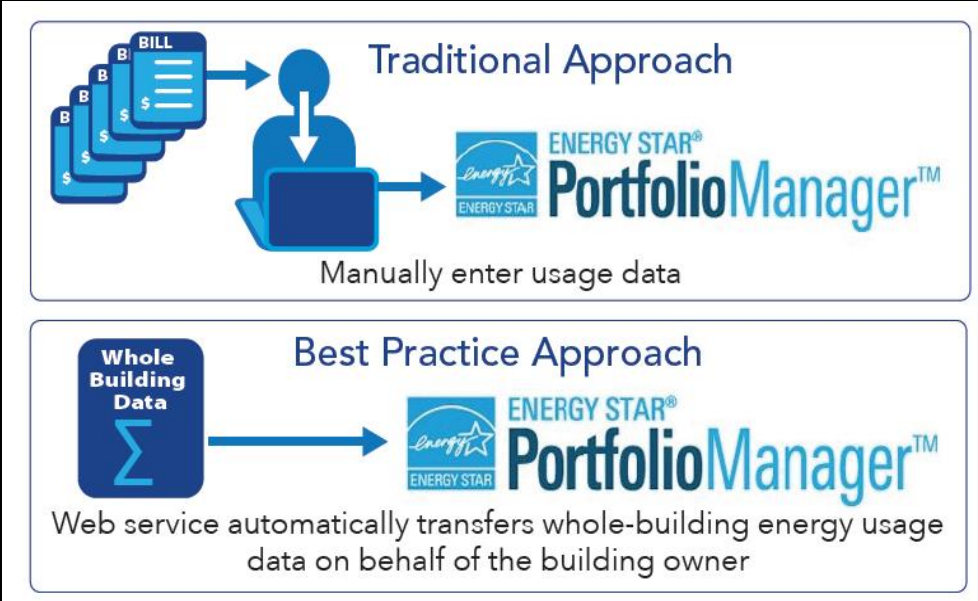


3034. Property Owner Request for Whole Building Energy Use Data from a Utility.

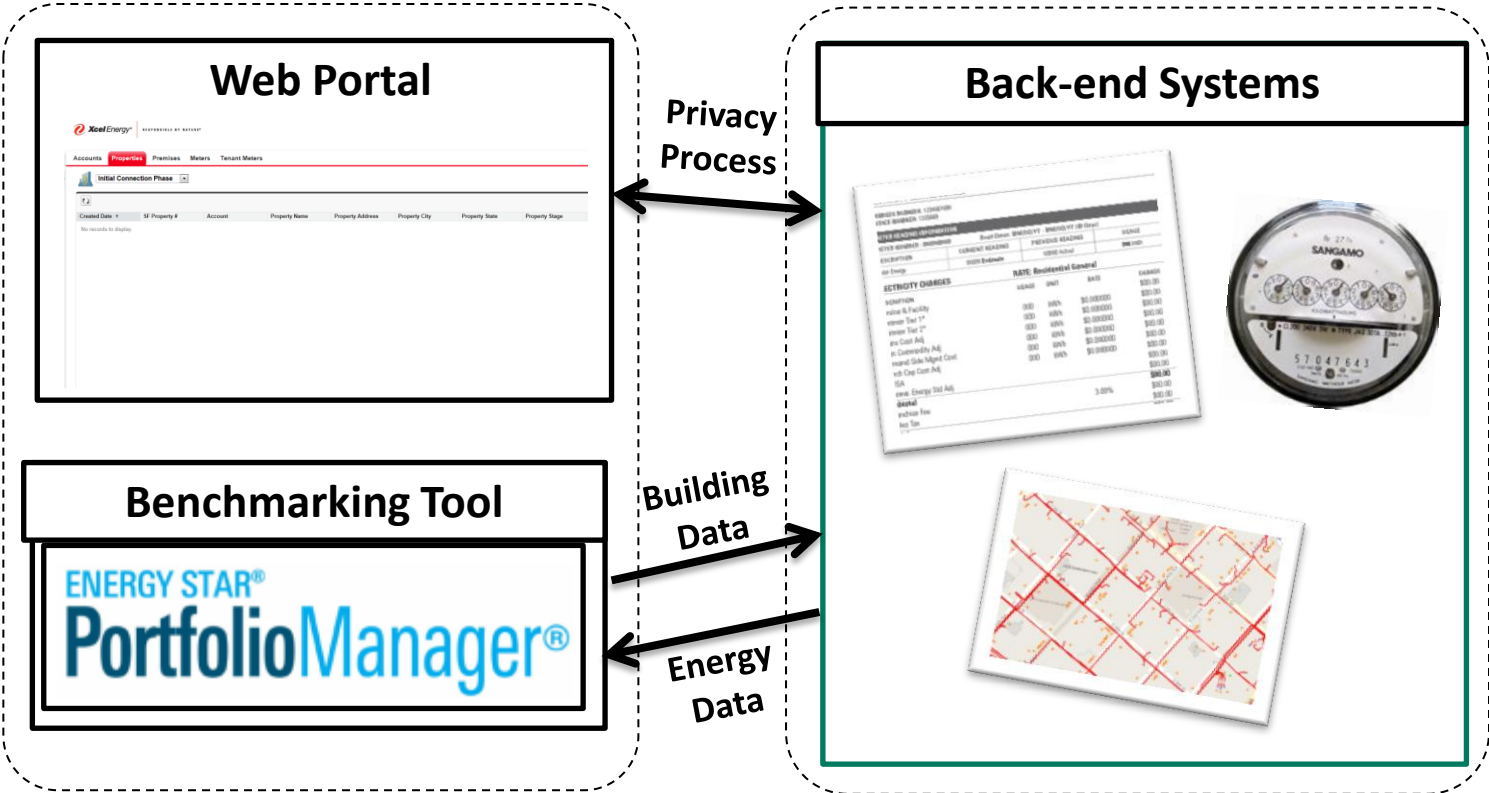
- (a) If requested by a property owner or its authorized agent, a Tier I utility shall provide whole building energy use data to the property owner or its authorized agent so long as:
- (I) the whole building energy use data contains at least four customers or tenants, which may include the property owner's own account; and no single customer's customer data, unless it is the property owner's, comprises more than 50 percent of the whole building energy use data used to generate the whole building energy use data report;
 - (II) the property owner agrees to not disclose the whole building energy use data except for the purposes of building benchmarking, identifying energy efficiency projects, and energy management; and

**CO PUC
Rule for
Whole
Building
Access**

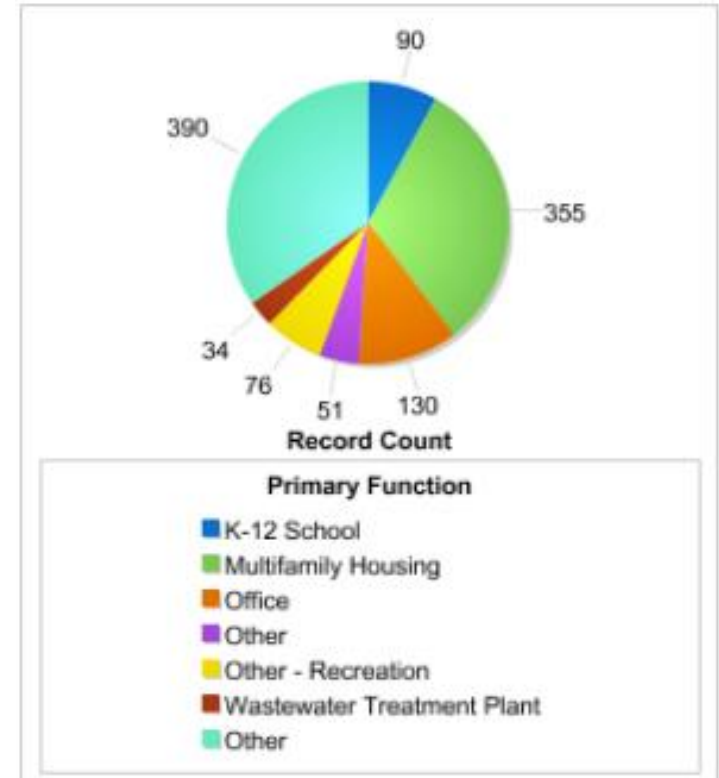
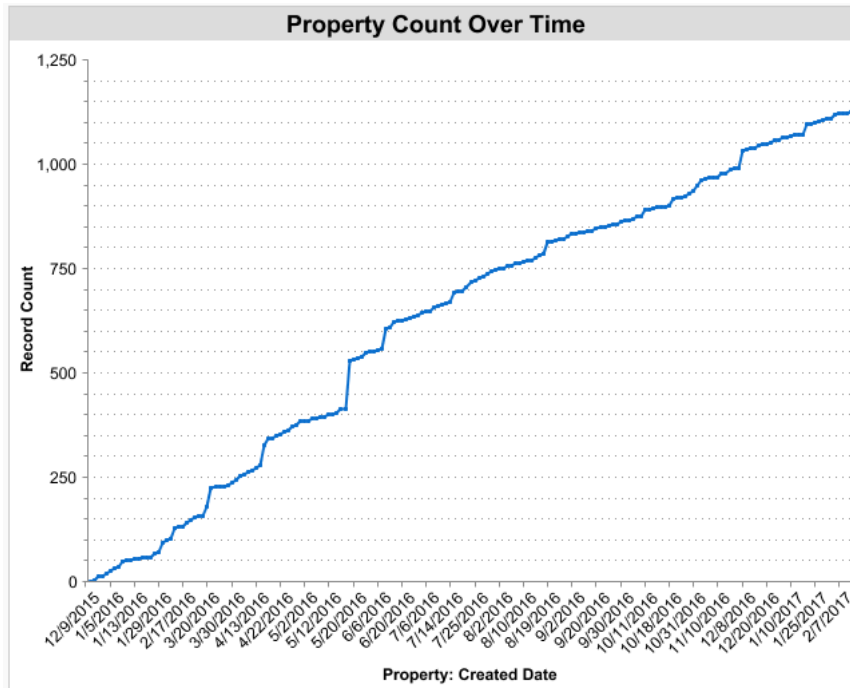
Best Practice #3: Utility Auto-Upload



Solution Overview

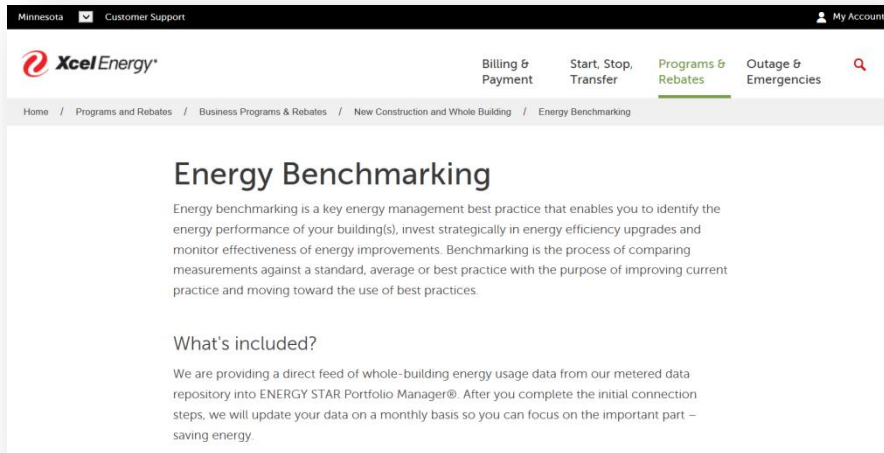


Current Participation Statistics

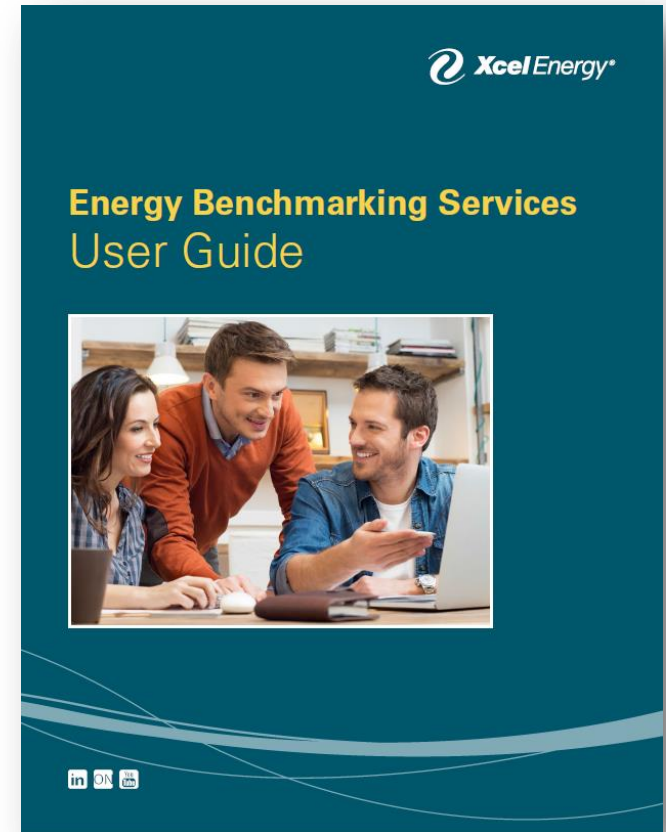


More Information

www.xcelenergy.com/energybenchmarking



Questions? Email us at
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Xcel Energy | Responsible By Nature

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