

Arkansas Utility Kickoff Meeting Utility Baseline for State Agencies

December 14, 2010

AGENDA

- **Project Overview**

- Arkansas contract, interest in benchmarking. High-level support and mandate. Act 1494
- Highlights from some successful agency environmental initiatives
- Need for benchmarking to evaluate effect of measures
- Cadmus team and expertise, particularly with other states
- Benefits / thanks to agencies for participating

- **Group and Individual Introductions**

- **ENERGY STAR and benchmarking overview**

- Utility involvement with benchmarking
- Process and timeline
- Identifying key data contacts
- Utility Rate Review
- Automated benchmarking

- **Questions and Answers**

Arkansas Teams with ENERGY STAR

- ENERGY STAR is a government-backed, voluntary program that helps businesses and individuals protect the environment through superior energy performance by providing energy-efficient solutions for homes, businesses, and institutions.
- The national symbol for environmental protection through energy efficiency, recognized by more than 75% of all U.S. households.
- Known for products, homes and C&I facilities

Benchmarking with Portfolio Manager

➤ Anything with a meter attached can be benchmarked

- Compare facility energy use against its own baseline
- Compare facilities of a similar type to each other
- Compare facilities of a similar type to national metrics
- Set priorities for use of limited staff time and/or investment capital
- Prepare reports, assist with ASHRAE audits, more.
- More detailed reports possible for select buildings using EPA Score

Meeting Act 1494 of 2009

- Arkansas selects PM to benchmark the energy use of all of all Arkansas state facilities
 - Site and source energy use intensity (EUI), GHG emissions.
 - Many buildings, including office buildings can receive energy performance ratings on a 1-100 scale.
- Monitor changes in energy and water use over time in single buildings, groups of buildings, or entire portfolios.
- Report cost savings and CO₂ emissions.
- Get federal recognition with ENERGY STAR.
- More at www.energystar.gov/benchmark



Understanding the Project

- Advance AR EE programs, lead by example
- Protect financial & environmental resources
- Comply with Act 1494 of 2009
 - Reduce water, electricity, and natural gas usage
 - 20% by 2014
 - 30% by 2017



Role of The Cadmus Group

- Task 1
 - Establish Portfolio Manager accounts,
 - Verify account data in Portfolio Manager
 - Review rate tariffs
- Task 2
 - Keep it Going! Train trainers!
 - Provide technical support

Cadmus acts as facilitator, aiding state agencies harness the power of utility information

Utility Involvement

Agencies need information in database format

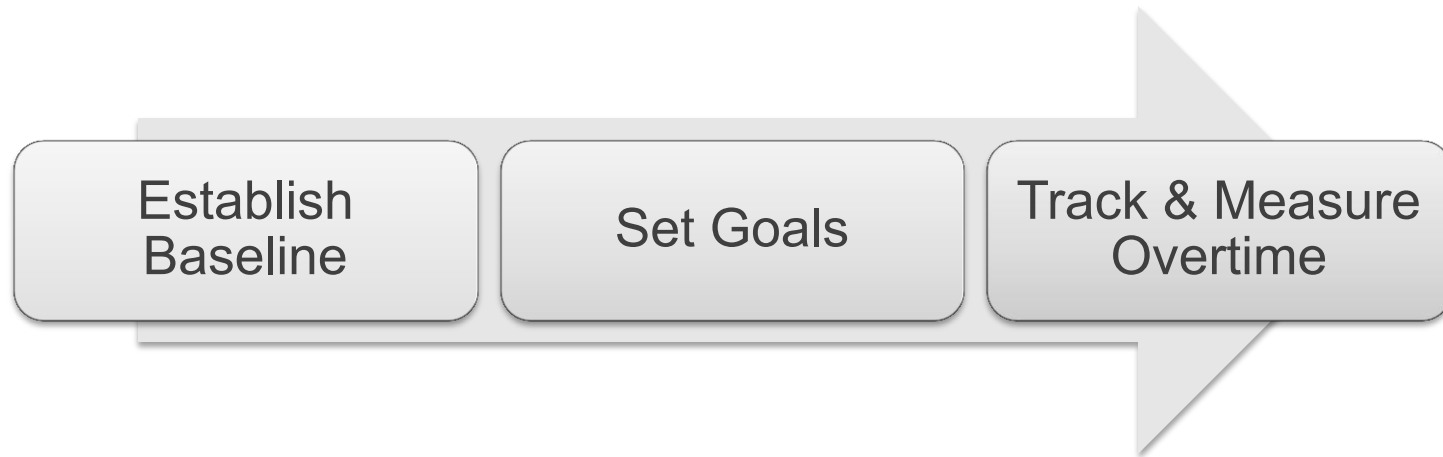
- **Utilities are the source of primary information**
 - Electric: Demand (kW or kVa); Energy (kWh)
 - Gas: Capacity Demand “CD” (MMBtu); Peak daily use; Annual volume limits; consumption (MMBtu)
 - Water: Consumption (1000 gallons)
- Rate schedule / tariff
- Costs

Other Required Information for Benchmarking in Portfolio Manager

- **Building Identifiers**
 - Name, street address, zip code for weather normalization
- **Space Type Data (office example)**
 - Square footage, hours of operation, Number of workers on main shift , # of PC's, Percent of gross floor area that is air conditioned, heated

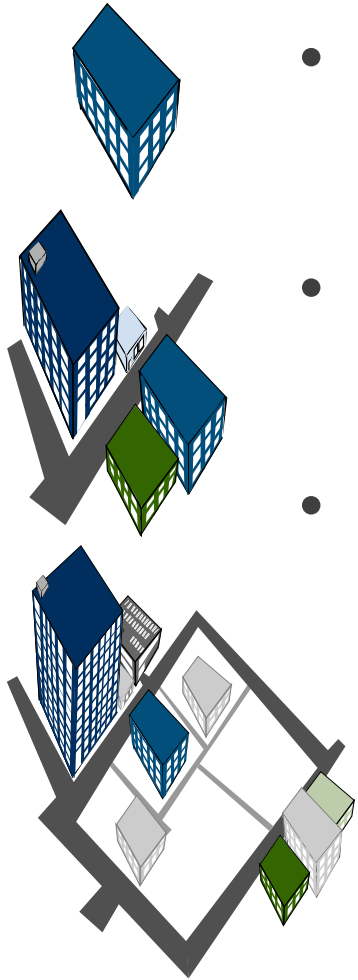
Arkansas benchmarking project may improve quality of data at the utilities, too!

Assess Performance for Smart Energy Management



- Verify gains from upgrade efforts
- Require specific rating gains from service providers in select building types such as office or warehouse
- Utility involvement helps agencies connects back to Act 1494

Transferring Data to Portfolio Manager

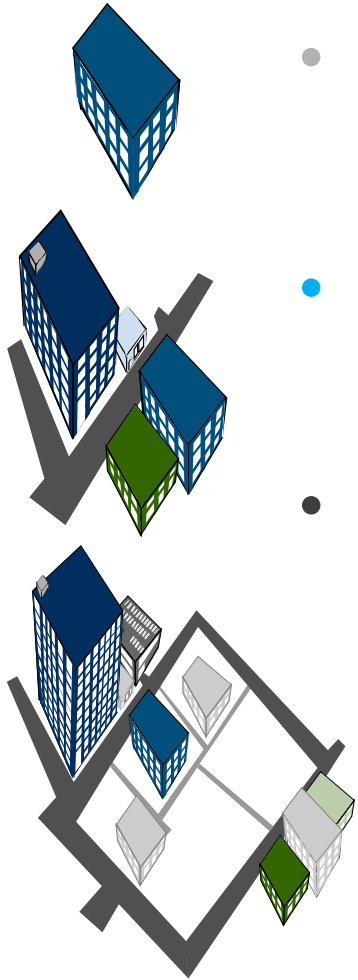


- **Single Building Manual Entry**
 - Enter building and energy consumption information into Portfolio Manager.
- **Bulk Data Upload**
 - Upload large sets of building data in Portfolio Manager using an Excel template.
- **Automated Benchmarking Services**
 - Use Service and Product Provider to have the rating automatically integrated into your energy information and bill handling system

Utility-based Automated Benchmarking

- Option 1: Provide utility data
- Option 2: Provide automated benchmarking services

Transferring Data to Portfolio Manager



- Single Building Manual Entry
 - Enter building and energy consumption information into Portfolio Manager.
 - Bulk Data Upload
 - Upload large sets of building data in Portfolio Manager using an Excel template.
 - Automated Benchmarking Services
 - Use Service and Product Provider to have the rating automatically integrated into your energy information and bill handling system
- ## Utility-based Automated Benchmarking
- Option 1: Provide utility data
 - Option 2: Provide automated benchmarking services

Benefits According to EPA

- Provide objective, standardized assessments of building performance.
- Tap into the ENERGY STAR program to motivate customers to adopt continuous energy management programs, reduce their carbon footprint, save energy and validate savings.
- Help achieve energy reduction goals in individual buildings or across their portfolio of buildings.
- Reduce the burden of ENERGY STAR partners interested in continuous energy management, but unable to manually input monthly energy data into Portfolio Manager.

Other Benefits to Utilities

- Agencies will request data to meet Act 1494.
- A planned process will ease burden on utility staff.
- Take credit for supporting superior energy performance and reducing energy waste
- Increase throughput, increase quality and reduce data production cost

Process and Time Line

- Agencies / AEO request data
- Cadmus facilitates process
 - Enters historic data on behalf of agencies
 - Performs quality assurance checks on utility and non-utility data
 - Trains state officials to keep system into future
 - Creates Act 1494 compliance reports
- Lead agencies start now through Feb 2011
- Other agencies follow through June 2011

Key Data Contacts

- IOUs (Investor Owned Utilities)
- Coops and Munis
- Water utilities
- Trade associations
- User groups
- Others? Please list

Contacts & Support

Toll-free support line: 1-855-266-9773
(9 am – 6 pm weekdays)

Arkansas@cadmusgroup.com
(24 hour turn around time)

Ed Ellis, CEM,
Arkansas Energy Office
(501) 682-7694
eellis@arkansasedc.com

Julio Rovi
The Cadmus Group, Inc.
703-247-6128
Julio.Rovi@cadmusgroup.com

Kudret Utebay
The Cadmus Group, Inc.
703-247-6138
Kudret.Utebay@cadmusgroup.com

Shubhada Kambli
The Cadmus Group, Inc.
Shubhada.Kambli@cadmusgroup.com

We are looking forward to start working with you!

Thank you!



Select Cadmus Tech Support Team

Name, Role, Phone, email@cadmusgroup.com

Kudret Utebay, Project Manager, 703-247-6138, kudret.utebay

Shubhada Kambli, Deputy PM, (203) 770-3714, shubhada.kambli

Colin Dunn, (703) 247-6121, Data QA Lead, colin.dunn

Jake Demann, Data entry, 503-575-4575, jake.demann

John Burningham, Utilities Lead, (801) 641-3915, john.burningham

Matthew Tenney, (703) 247-6164, Rate Analysis, matthew.tenney

Rik Banerjee, Upload template specialist, 703-247-6142, rik.banerjee

Brian Hedman, Utility Rate Advisor, (503) 467-7125, brian.hedman

Julio Rovi, Practice Leader, 703-247-6128, julio.rovi

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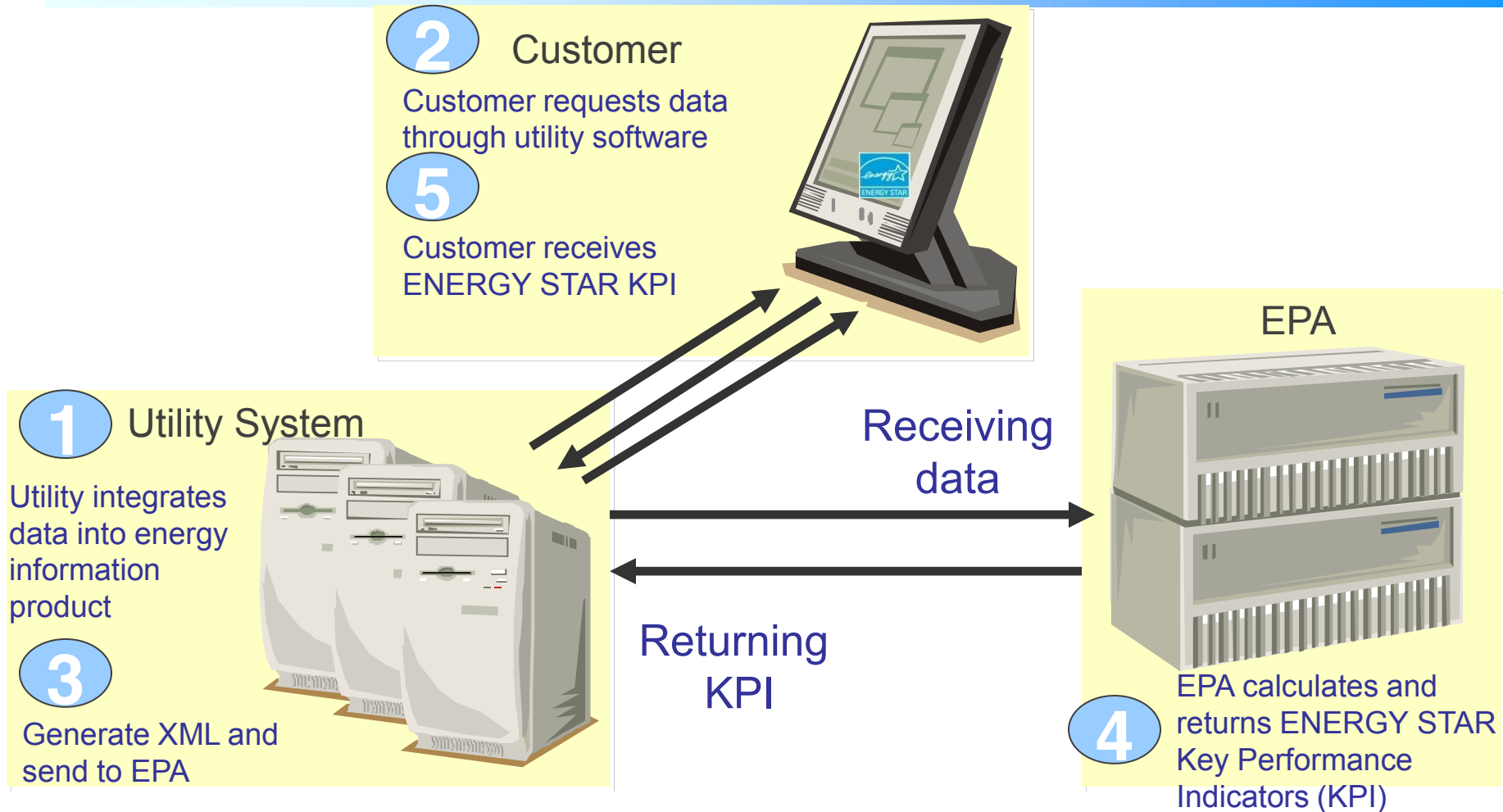
Automated Benchmarking

- Automated benchmarking allows service providers to transfer data into Portfolio Manager automatically
 - Facilitates easy initial upload of all building and energy data into Portfolio Manager
 - Can map to existing buildings already in Portfolio Manager
 - Updates energy performance scores with new utility energy data on an ongoing automated basis
 - Provides energy performance scores in provider's proprietary energy information products and Portfolio Manager

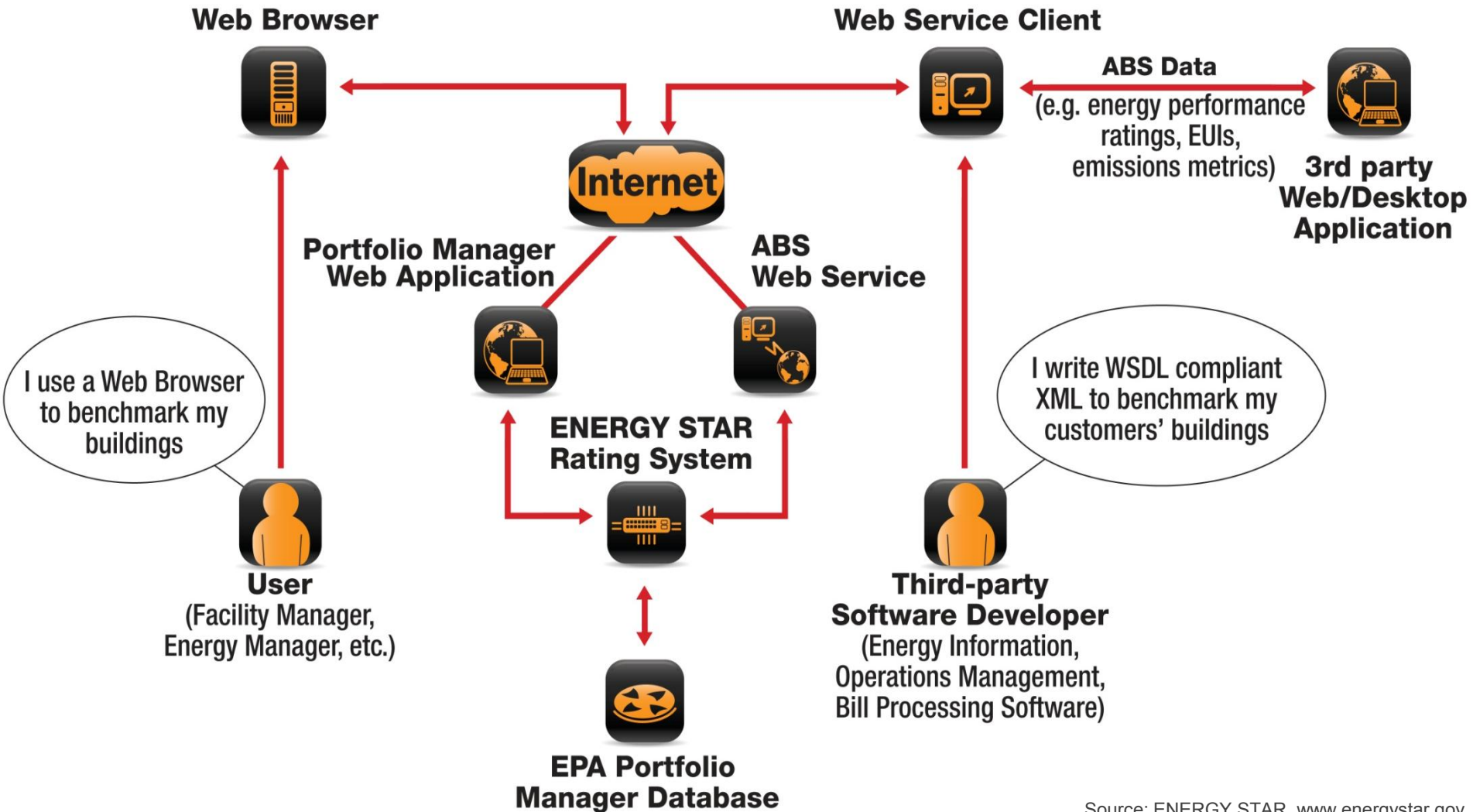
Service Providers Offering Automated Benchmarking

- Advantage IQ
- Angus Systems
- Avista Utilities
- **ComEd**
- EduCon
- ei3
- Energard Technologies
- Energy Print
- Energy Watchdog
- EnergyCAP, Inc.
- EnergySolve
- IBS, Inc.
- Johnson Controls
- LPB Energy Management
- New Energy Technology
- NISC
- NorthWrite
- **Pacific Gas & Electric**
- Performance Systems Development
- Planet Footprint
- Rapid Improvement
- **San Diego Gas & Electric**
- Siemens
- **Southern California Edison**
- **Southern California Gas Company**
- Summit Energy
- Sustainable Real Estate Manager
- The E Group
- UtilityAccounts.com

How Does a Utility Automate Benchmarking?



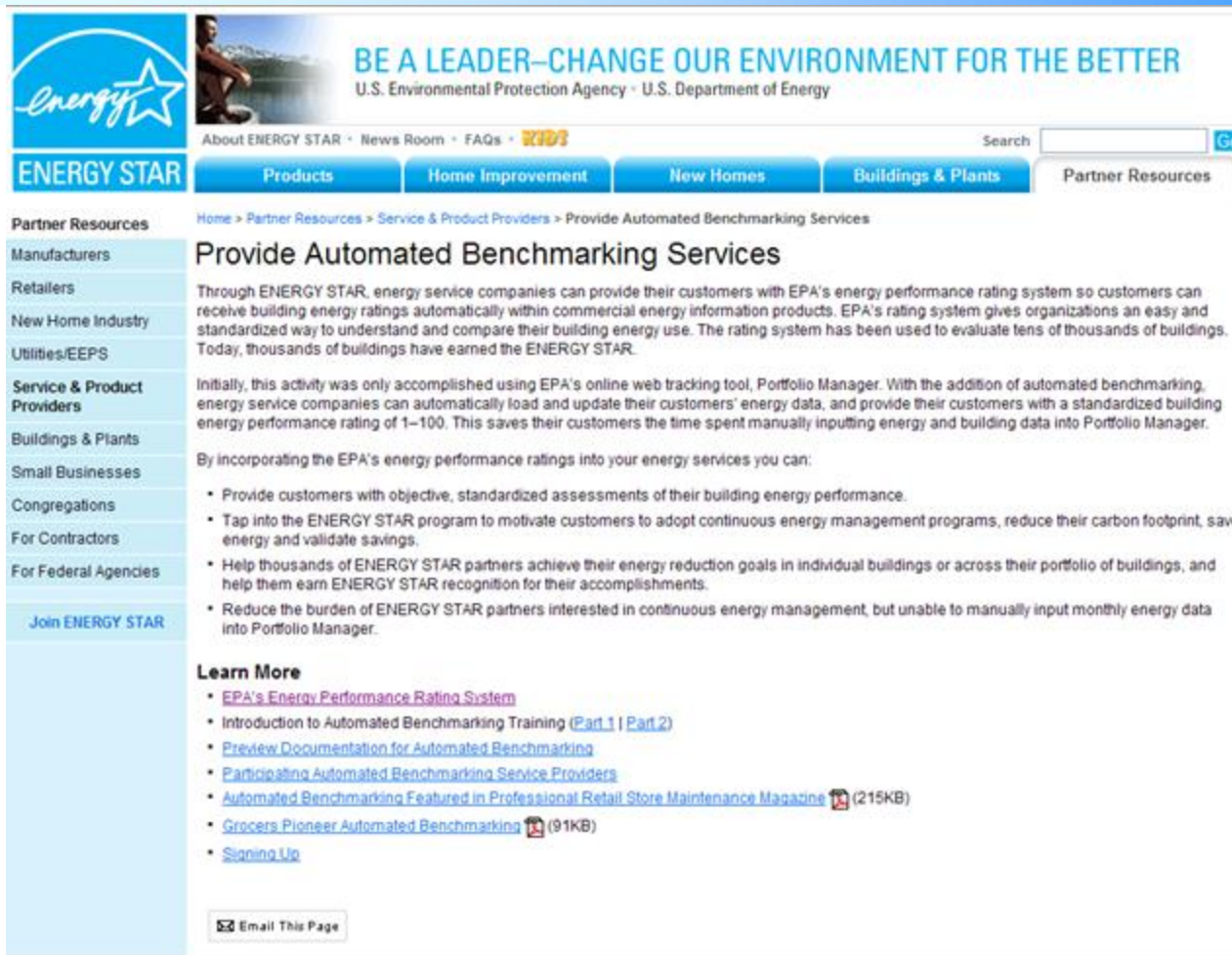
ENERGY STAR Benchmarking System Web Service Overview



ABS Resources

- Overview on ENERGY STAR [web site](#)
- Register for [ABS account](#)
- Download ABS Overview and Users Guide from ABS account Web site
- Email technical question to buildings@energystar.gov
- Request conference calls with EPA program and technical support teams

Automated Benchmarking Services



The screenshot shows the ENERGY STAR website. At the top, there is a banner with the text "BE A LEADER—CHANGE OUR ENVIRONMENT FOR THE BETTER" and "U.S. Environmental Protection Agency • U.S. Department of Energy". Below the banner, there is a navigation bar with links: "About ENERGY STAR", "News Room", "FAQs", "R101", "Search", and "Go". The main navigation bar includes "ENERGY STAR", "Products", "Home Improvement", "New Homes", "Buildings & Plants", and "Partner Resources".

The "Partner Resources" section is expanded, showing a list of links: "Manufacturers", "Retailers", "New Home Industry", "Utilities/EEPS", "Service & Product Providers", "Buildings & Plants", "Small Businesses", "Congregations", "For Contractors", and "For Federal Agencies". The "Join ENERGY STAR" link is also visible.

The "Provide Automated Benchmarking Services" page is displayed. It includes the following text:

Through ENERGY STAR, energy service companies can provide their customers with EPA's energy performance rating system so customers can receive building energy ratings automatically within commercial energy information products. EPA's rating system gives organizations an easy and standardized way to understand and compare their building energy use. The rating system has been used to evaluate tens of thousands of buildings. Today, thousands of buildings have earned the ENERGY STAR.

Initially, this activity was only accomplished using EPA's online web tracking tool, Portfolio Manager. With the addition of automated benchmarking, energy service companies can automatically load and update their customers' energy data, and provide their customers with a standardized building energy performance rating of 1–100. This saves their customers the time spent manually inputting energy and building data into Portfolio Manager.

By incorporating the EPA's energy performance ratings into your energy services you can:



- Provide customers with objective, standardized assessments of their building energy performance.
- Tap into the ENERGY STAR program to motivate customers to adopt continuous energy management programs, reduce their carbon footprint, save energy and validate savings.
- Help thousands of ENERGY STAR partners achieve their energy reduction goals in individual buildings or across their portfolio of buildings, and help them earn ENERGY STAR recognition for their accomplishments.
- Reduce the burden of ENERGY STAR partners interested in continuous energy management, but unable to manually input monthly energy data into Portfolio Manager.

The "Learn More" section includes links to:

- [EPA's Energy Performance Rating System](#)
- [Introduction to Automated Benchmarking Training \(Part 1 | Part 2\)](#)
- [Preview Documentation for Automated Benchmarking](#)
- [Participating Automated Benchmarking Service Providers](#)
- [Automated Benchmarking Featured in Professional Retail Store Maintenance Magazine](#) (215KB)
- [Grocers Pioneer Automated Benchmarking](#) (91KB)
- [Signing Up](#)

At the bottom of the page, there is a link to "Email This Page".

Automated Benchmarking Services

BE A LEADER—CHANGE OUR ENVIRONMENT FOR THE BETTER
U.S. Environmental Protection Agency • U.S. Department of Energy

About ENERGY STAR • News Room • FAQs • **KIDS**

Search **Go**

ENERGY STAR

Products **Home Improvement** **New Homes** **Buildings & Plants** **Partner Resources**

Partner Resources

Manufacturers

Retailers

New Home Industry

Utilities/EEPS

Service & Product Providers

Buildings & Plants

Small Businesses

Congregations

For Contractors

For Federal Agencies

Join ENERGY STAR

[Home](#) > [Partner Resources](#) > [Service & Product Providers](#) > [Service Providers Offer Automated Benchmarking](#)

Service Providers Offer Automated Benchmarking

To make it easier to assess and rate the energy performance of your building portfolio, EPA developed automated benchmarking to allow leading energy information service providers to provide EPA's 1–100 rating for eligible buildings directly within their products. Now you can obtain the ENERGY STAR energy performance rating and greenhouse gas emissions information from these companies in the same software and/or reporting that you routinely use for planning, tracking, and managing energy costs. Weather-normalized energy intensity and emissions inventories are also available for buildings that are not eligible for an ENERGY STAR rating to help you track the energy and environmental performance of all buildings in your portfolio. Automated benchmarking can save you time and improve your ability to continuously manage energy across your organization.

The following companies offer EPA's energy performance ratings through automated benchmarking as a part of their commercial energy information services. Service providers listed in bold won an [ENERGY STAR Partner of the Year Award](#).

Provider Name	Contact	Total Buildings Benchmarked (as of 10/31/10)
Advantage IQ EXIT ↕	Paige Kindell, 513-763-3129	42,455
Siemens EXIT ↕	Jim Mooney, 847-941-5887	7,039
The E Group EXIT ↕	Linda Turner, 330-315-6872	4,240
LPB Energy Management EXIT ↕	Jami Robinson, 972-383-5200 x282	4,157
EnergyCAP, Inc. EXIT ↕	John Heinz, 877-327-3702	3,777
Pacific Gas and Electric Company EXIT ↕	Andrea Thurston, 415-973-2910	2,960
TRC Energy Services EXIT ↕	Greg Coleman, 703-242-6082	1,070
New Energy Technology EXIT ↕	Sarah Faverman, 970-243-0255	1,012
San Diego Gas & Electric EXIT ↕	Ellery Stahler,	852

Automated Benchmarking Services

Automated Benchmarking System (ABS) USER'S GUIDE (version 2.3)

6/7/2010
U.S. Environmental Protection Agency
Climate Protection Partnership Division (CPPD)

Successful Large Portfolio Benchmarking Efforts

➤ Ohio

- Benchmarked 5,800 state buildings
- Helped K-12 sector benchmark 500 buildings
- Ohio Board of Regents helped benchmark 65 campuses

➤ Utah

- Benchmarked approximately 1,000 state buildings

➤ New York City

- Benchmarked over 4,000 buildings so far
- Expected 30,000 more

Benchmarking in California

- Governor's Executive Order S-20-04
 - Reduce energy use 20% by 2015 vs. 2003 in State Buildings
 - Energy Commission chose U.S. EPA's Portfolio Manager to track and measure progress
- AB 1103 Law
 - 2009 – Utilities provide data upload for ratings upon request
 - 2010 – Sellers/lessors required to disclose ratings for financial transactions
- CPUC sets budgets and benchmarking expectations for 2010-2012 (Sept. 24, 2009)

Case study: Utilities as data providers

Benchmarking in California

- **Governor's Executive Order S-20-04**
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- **AB 1103 Law**
 - 2009 – Utilities provide data upload for ratings upon request
 - 2010 – Sellers/lessors required to disclose ratings for financial transactions
- **CPUC sets budgets and benchmarking expectations for 2010-2012 (Sept. 24, 2009)**
 - California utilities to benchmark 120,000 buildings in three years

What's in it for the CA Utilities?

- **Valuable customer data**
 - Facility square footage
 - Occupancy
 - Space use
 - Total facility energy use (all fuels)
- **Product and service leads**
- **Savings goals**
- **Increase in customer satisfaction**

PG&E and Automated Benchmarking

Developed marketing plan:

- **ABS Factsheet**
- **How-to-Benchmark Guide**
- **Trouble-shooting Guide**
- **Benchmarking Training**

**Results: Benchmarked
+2000 buildings**



The screenshot shows the PG&E Benchmarking website. At the top is the PG&E logo and the URL www.pge.com/benchmarking. Below the URL is a navigation bar with four tabs: "MANAGE MY ACCOUNT", "CUSTOMER SERVICE", "ENERGY SAVINGS & REBATES", and "ENVIRONMENT". The "ENERGY SAVINGS & REBATES" tab is selected. On the left side, there is a vertical menu with two main sections. The first section, "Energy Analyzers & Audits", includes links for "Do-it-Yourself Online", "Analyzer en español", "By Mail", "By Phone", "CD-ROM", "On-Site Energy Audit", "Integrated Energy Audit", "Targeted Energy Audit", and "Retrocommissioning (RCx) Program". The second section, "Automated Benchmarking Service", includes links for "Rebates & Incentives", "Economic Development", "Incentives by Industry", "Solar Energy", "Energy Saving Tips", "Buyer's Guides", "Demand Response Programs", and "Self-Generation Incentive Program". The main content area on the right is titled "Benchmarking through ENERGY STAR® Portfolio Manager". It contains two paragraphs of text and two sections with bullet points. The first paragraph describes the ENERGY STAR Portfolio Manager as an EPA interactive tool for tracking energy and water consumption. The second paragraph describes PG&E's Automated Benchmarking Service (ABS) as a tool that provides monthly energy usage data and imports historical data. The "Why benchmark?" section lists three reasons: targeting buildings for improvement, tracking energy use and costs, and receiving a prestigious ENERGY STAR label. The "How do I get started?" section lists two steps: learning about the ENERGY STAR Portfolio Manager and registering for an account, and creating a facility profile for each building.

Benchmarking through ENERGY STAR® Portfolio Manager

The ENERGY STAR Portfolio Manager is the Environmental Protection Agency's (EPA) interactive energy management tool that allows you to track and assess energy and water consumption of your buildings. It assigns large commercial buildings an energy performance score and intensity metric (Btu/sq. ft.) based on your previous 12 months of energy use.

PG&E's Automated Benchmarking Service (ABS) provides the ENERGY STAR Portfolio Manager with your monthly energy usage data so you don't have to manually enter the data yourself each month. Plus, ABS imports historical data, so you can see the effect of energy use changes over time. For more information, please read our [ABS Fact Sheet](#) (PDF, 188 KB).

Why benchmark?

- Target buildings for improvement
- Track energy use, costs, and greenhouse gases over time
- Receive a prestigious ENERGY STAR label with scores above 75

How do I get started?

1. Learn about [ENERGY STAR® Portfolio Manager](#) and register for an account. Find out if you are [eligible](#).
2. Create a facility profile for each building you wish to include. Enter basic building information, space use data, and energy meters. Owners of multiple buildings have the option of importing data to Portfolio Manager from a spreadsheet.

ComEd & Automated Benchmarking

Energy Usage Data Tool

Prior to June 2008, whole building energy usage data would be retrieved manually and customers would be charged for the service.

In June 2008, ComEd launched its Energy Usage Data system. The online system allowed customers to access whole building energy usage data themselves at no charge.

In August 2009, ComEd added ABS to the data system.

Innovation: ComEd helped building owners and managers obtain whole building energy data for buildings where tenants are directly billed.

<http://www.comed.com/sites/BusinessSavings/Pages/wholebuilding.aspx>

ComEd & Automated Benchmarking

TWO WAYS TO IMPROVE ENERGY EFFICIENCY

Energy Insights Online
(see reverse side)

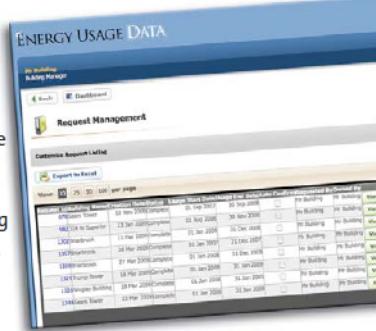
Energy Usage Data Tool

Benchmark your building with the Energy Usage Data tool – free!

Understanding your energy use can improve your energy performance

Access your multi-tenant commercial building energy usage data online to rate and compare your building(s) energy performance using ENERGY STAR® Portfolio Manager.

- Create one time and recurring requests
- Enter your portfolio of commercial buildings
- Learn how your building(s) can earn the ENERGY STAR label, the mark of excellence in energy performance
- Determine energy performance ratings
- Verify tenants that reside in the building
- View whole building energy usage data per month



For more information, contact your ComEd Account Manager or send an e-mail to energyusagedata@ComEd.com.

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- 250 building managers using the Energy Usage Data System for 650 buildings
- 2,500 individual data requests since the launch of the system. Prior to that time, ComEd processed 70 requests for data.
- ABS for 40 buildings

Option 2: Utilities as full-service automated benchmarking providers

- Utility programs integration between existing or new utility software (in-house or outsourced) and EPA's automated benchmarking system
- Customers use their account to opt into automated benchmarking and authorize utility to send data to EPA.
- Customer inputs facility attribute data and requests rating through utility software interface.
- Customer views rating and emissions data returned from EPA via ABS in utility software

Example: NYSERDA CRE Focus

Options: Apogee Interactive and Aclara Software

Energy Usage Data System

- ✓ Enter your Portfolio of Commercial Buildings
- ✓ Automated End to End Data Retrieval and Reporting
- ✓ Export Usage Data for input into Portfolio Manager
- ✓ Secure System and Data Transmission

Functionality Overview

- ✓ One Time and Recurring Data Requests
- ✓ Tenant Verification
- ✓ Whole Building Data Usage Totals per Month (kWh)
- ✓ *New!!* Automatically submit energy usage data to Portfolio Manager

Before

(Manual Process)

- Cost to Customer
- Cycle Time 10-12 Days
- Labor Intensive
- Limited Number of Requests
- Data Provided Quarterly and/or Annually
- Customer contacts ComEd to obtain data

After

(Automated Process)

- No Cost to Customer
- Cycle Time 1-2 Days
- Completely Automated
- Unlimited Number of Requests
- Monthly Data
- Customer empowered to obtain data whenever needed

ComEd EUDS* Promotions/Training

- ✓ Building Owners & Managers Association (BOMA)
 - ✓ Illinois Retail Merchants Association (IRMA)
 - ✓ EPA ENERGY STAR® Portfolio Manager Training Workshops
 - ✓ ComEd Bill Inserts - 350,000 inserts sent during three separate business billing cycles
 - ✓ Monthly Newsletters
 - ✓ Green Ribbon Workshops (1,400 business customers)
 - ✓ Event Marketing
 - ✓ Training Webinars - Next Webinar January 2010
 - ✓ LCS Account Managers (Customer meetings)
- (*) Energy Usage Data System from Commonwealth Edison

Bill Insert (Buckslip) Circ~350,000

TWO WAYS TO IMPROVE ENERGY EFFICIENCY

Energy Insights Online
(see reverse side)

Energy Usage Data Tool

Benchmark your building with the Energy Usage Data tool – free!

Understanding your energy use can improve your energy performance

Access your multi-tenant commercial building energy usage data online to rate and compare your buildings energy performance using the Energy Star Portfolio Manager.

- Create one time and recurring requests
- Enter your portfolio of commercial buildings
- Learn how you can earn the ENERGY STAR® label, the mark of excellence in energy performance
- Determine energy performance ratings
- Verify tenants that reside in the building
- View whole building energy usage data per month



For more information, contact your ComEd Account Manager or send an e-mail to energyusagedata@ComEd.com.

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The screenshot shows the 'ENERGY USAGE DATA' interface. It includes a 'Request Management' section with a 'Customize Request Listing' and an 'Export to Excel' button. Below this is a table with columns for 'Building Name', 'Creation Date', 'Status', 'Usage Start Date', 'Usage End Date', 'Confidence', 'Requested By', and 'Action'. The table lists several buildings, including '676Starr Tower', '982314 W Superior', '1307Marbrook', '1357Marbrook', '1399Marbrook', '1347Hunt Tower', '1326Wages Building', and '1345East Tower'. Each row shows the building name, creation date, status (e.g., 'Complete'), usage start and end dates, confidence level, and the user who requested the data.

Building Name	Creation Date	Status	Usage Start Date	Usage End Date	Confidence	Requested By	Action
676Starr Tower	12 Nov 2008	Complete	01 Sep 2007	30 Sep 2008		Mr Building	View
982314 W Superior	23 Jan 2009	Complete	01 Aug 2008	30 Sep 2008		Mr Building	View
1307Marbrook	11 Mar 2009	Complete	01 Jan 2008	31 Dec 2008		Mr Building	View
1357Marbrook	16 Mar 2009	Complete	01 Jan 2007	31 Dec 2007		Mr Building	View
1399Marbrook	27 Mar 2009	Complete	01 Jan 2008	31 Dec 2008		Mr Building	View
1347Hunt Tower	18 Mar 2009	Complete	01 Jan 2008	31 Dec 2008		Mr Building	View
1326Wages Building	18 Mar 2009	Complete	01 Jan 2008	31 Dec 2008		Mr Building	View
1345East Tower	23 Mar 2009	Complete	01 Jan 2008	31 Dec 2008		Mr Building	View

ComEd®

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CADMUS
GROUP, INC.

Monthly Newsletter Circ~350,000

Ways to improve energy efficiency

Benchmark your building's energy usage – free!

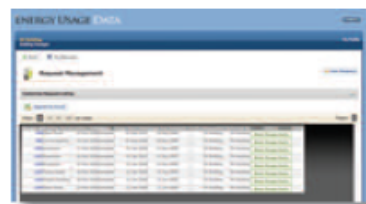


Owning and operating a business is more challenging than ever. ComEd's *Smart Ideas for Your Business*™ offers tools, tips and incentives that can show you not only how to contain energy costs but cut them.

Consider the **Energy Usage Data** tool, a free Web-based application that enables building managers to retrieve whole building energy usage data on multi-tenant commercial buildings.

With it you can:

- ❑ Create one-time and recurring usage data requests
- ❑ Determine energy performance ratings
- ❑ Compare your building's usage data to similar buildings using the ENERGY STAR® Portfolio Manager!



Knowing how your facility compares to top-performing buildings can help you control energy costs, and better assess upgrade investment opportunities.



You may also use this tool to earn an ENERGY STAR label, the mark of excellence in energy performance. Contact your ComEd account manager, or send an e-mail to EnergyUsageData@ComEd.com for more information. For additional information about ComEd's *Smart Ideas for Your Business*™ visit www.ComEd.com or call 1-888-806-2273.

Learn how your company uses energy

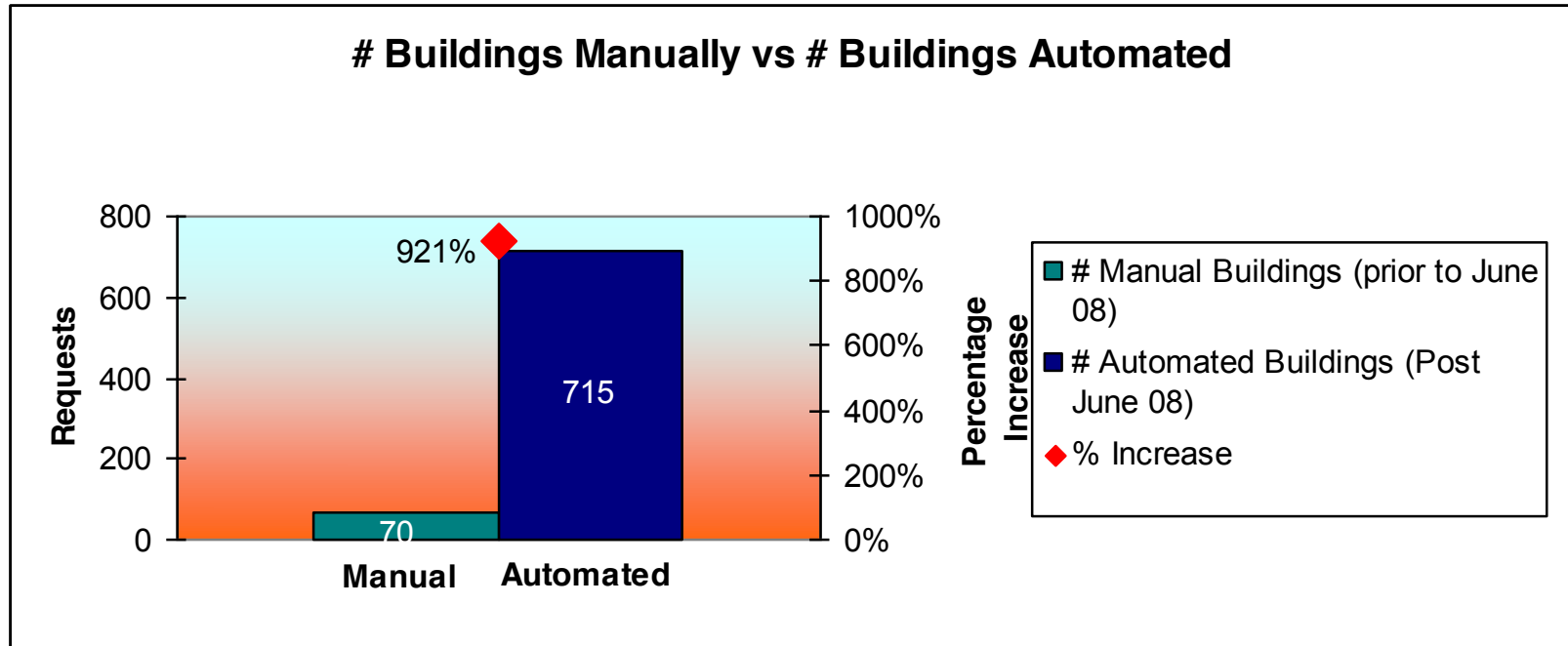


ComEd's **Energy Insights Online** is a free, online energy analysis service that monitors your company's electricity consumption through your recording meter. It then converts this data into simple, easy-to-understand usage graphs and reports accessible anywhere via the Internet.

By knowing how and when your business consumes energy, you can lower monthly demand charges, validate efficiency upgrades and examine your company's energy usage trends. It is the first step in developing an effective energy efficiency strategy and it's FREE!

To learn more about this Web-based tool, or to subscribe, contact your ComEd account manager, or send an e-mail to EnergyInsightsOnline@ComEd.com.

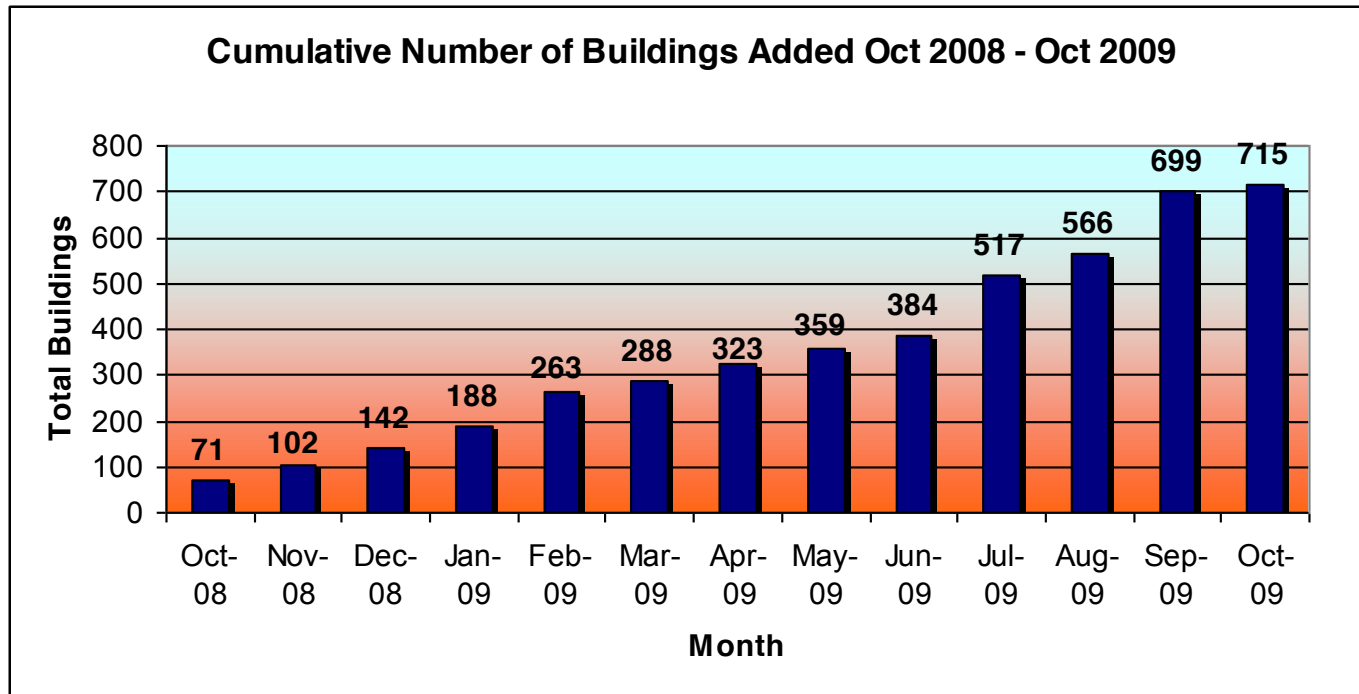
Results:



Manual Buildings (<June 2008) vs Automated Buildings (>June 2008)

Over 8,800 months of data requests since June 2008

Results:



Buildings Added Oct 2008 - Oct 2009

Demonstration:



The image shows a web form titled "ENERGY USAGE DATA" with a header image of wind turbines and solar panels. Below the title is a "User Authentication" section with two input fields: "Username" and "Password". A "Login" button is positioned below the password field, and a "Forgot Password?" link is located at the bottom right of the authentication area.

ENERGY USAGE DATA

User Authentication

Username

Password

Login

[Forgot Password?](#)



Invaluable Technologies
ENERGY CONSULTING
www.it-all.com



Energy Usage Data System 2.0

Account Manager - Energy Usage Data - Windows Internet Explorer

http://www.energyusagedata.com/AMDashBoard.aspx

Google

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Account Manager - Energy Usage Data

ENERGY USAGE DATA

You last visited on Sep 02 2008 14:24 CST Logout

Ms Practice Account Manager My Profile

Building Manager List(3)

Name	Email	Address	City	No.of Buildings
Jesse Deli	jesse.delvalle@exeloncorp.com	1234 corner	Chicago	1
Shannon Vrbancic	kevin.bricknell@comed.com	1234 Walkup Lane	Cabery	1
Richard Blake	kevin.bricknell@comed.com	100 N. Riverside	Chicago	0

Request Summary

Requests Completed

This Year:	0
This Month:	0
Previous Month:	0
Pending	0
Awaiting Verification	2
Complete	0

Building Summary

Active Buildings:	2
New buildings this month:	0

Internet 100%

EUDS 2.0 Enhancements, July 2009:

Usage Details		
Jan 2008	995	
Feb 2008	880	
Mar 2008	804	
Apr 2008	507	
May 2008	647	
Jun 2008	904	
Jul 2008	1,187	
Aug 2008	1,843	
Sep 2008	888	
Oct 2008	1,315	
Nov 2008	909	
Dec 2008	1,311	
Jan 2009	230	
Total	12,420	

Submit to ENERGY STAR

New Feature - Submit Usage Data Directly to ENERGY STAR Portfolio Manager!

Portfolio Manager- Automatic Feed!

[Add Meter Entries](#)

Remove Entry	Start Date (MM/DD/YYYY)	End Date (MM/DD/YYYY)	Energy Use (kWh (thousand Watt-hours))	Cost - US Dollars (optional)	Last Updated
<input type="checkbox"/>	01/01/2009	01/31/2009	230.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	12/01/2008	12/31/2008	1311.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	11/01/2008	11/30/2008	909.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	10/01/2008	10/31/2008	1315.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	09/01/2008	09/30/2008	888.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	08/01/2008	08/31/2008	1843.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	07/01/2008	07/31/2008	1187.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	06/01/2008	06/30/2008	904.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	05/01/2008	05/31/2008	647.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	04/01/2008	04/30/2008	507.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	03/01/2008	03/31/2008	804.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	02/01/2008	02/29/2008	880.00	\$0.00	08/28/2009 by COMEDABS
<input type="checkbox"/>	01/01/2008	01/31/2008	995.00	\$0.00	08/28/2009 by COMEDABS

Additional Information

For more information on Energy Star Benchmarking:
<https://www.energystar.gov/istar/pmpam/>

To access the energy usage data system:
www.energyusagedata.com

Energy Usage Data System:
energyusagedata@comed.com or go to:
www.comed.com/energyusagedata for training materials

Chicago Green Office Challenge
www.chicagogreenofficechallenge.org

Additional Webinars:
January 2010 - email **energyusagedata@comed.com**

For More Information

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