

Thanks for tuning in to the webcast, we will begin shortly!

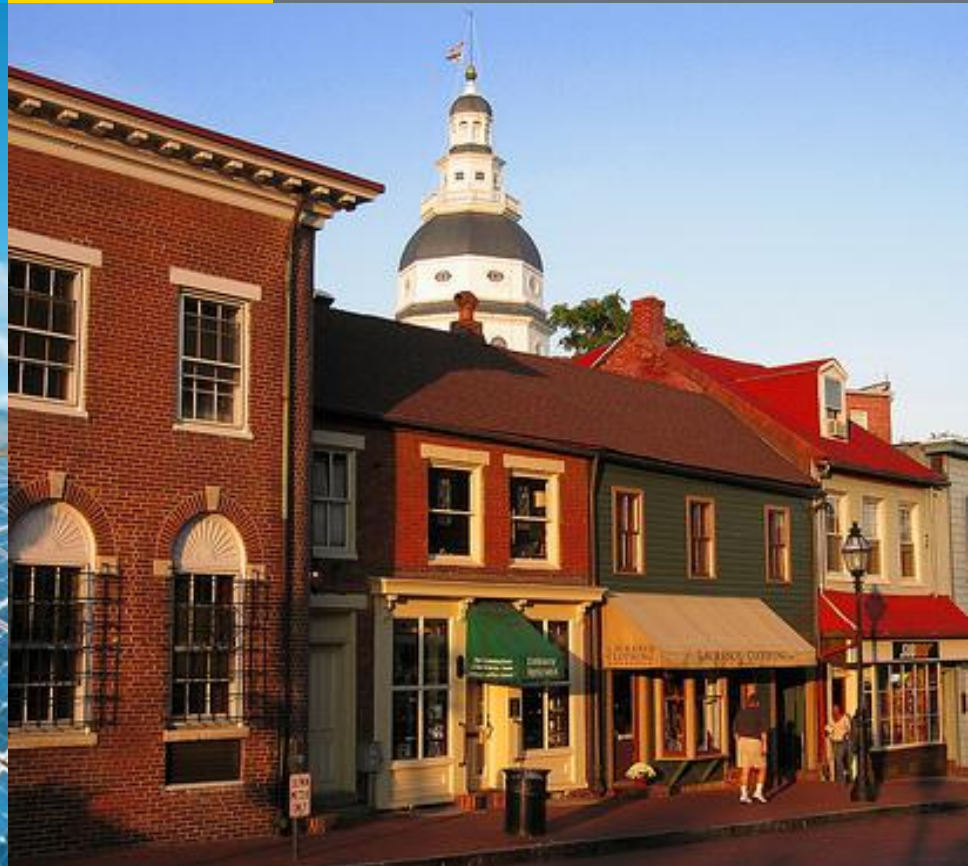
We recommend dialing in via phone, and selecting  
'telephone' in the Audio section of your controls

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Access Code: 410-207-662

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## Communicating Success: Measuring Improvements, Sharing Results

**October 25, 2011**

Joel Blaine, DOE

Leslie Cook, EPA

Stacey Baumgarn, Larimer County, CO

This presentation is brought to you by DOE's Technical Assistance Program (TAP) in collaboration with the Environmental Protection Agency.

TAP supports the Energy Efficiency and Conservation Block Grant Program (EECBG) and the State Energy Program (SEP) by providing state, local, and tribal officials the tools and resources needed to implement successful and sustainable clean energy programs.



Explore our online resources  
via the [Solution Center](#)

Ask questions via our call center at 1-877-337-3827 or email us at  
[solutioncenter@ee.doe.gov](mailto:solutioncenter@ee.doe.gov)

# Agenda

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- How does Portfolio Manager help you communicate the energy efficiency and financial success of your programs?
- Portfolio Manager and ENERGY STAR
  - ENERGY STAR overview
  - Communicating Results with Portfolio Manager
  - Leverage ENERGY STAR , EPA and DOE resources
- Community Example: Larimer County, CO

# Portfolio Manager and ENERGY STAR



- Portfolio Manager is one component of the ENERGY STAR program
  - Buildings and Plants
  - Recognized by more than 80 percent of all U.S. households as the symbol of superior energy performance and solutions for homes, businesses, and institutions
- More than 2,400 Partners
  - More than 14 billion square feet of space (nearly 20% of space in the U.S.)
  - More than 83,000 buildings measure and track their energy performance with ENERGY STAR.

# Opportunities in Buildings

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- Commercial buildings and industrial facilities generate about **50 percent** of U.S. carbon dioxide emissions
- **30 percent** of energy consumed in commercial and industrial buildings is wasted
- Reductions of **10 percent** in energy use can be possible with little or no cost

# Portfolio Manager



- Measure and track the energy use of all of your buildings – receive an energy use intensity (EUI). Many buildings, including office buildings can receive energy performance scores on a 1-100 scale.
- Track changes in energy and water use over time in single buildings, groups of buildings, or entire portfolios.
- Track and report cost savings and CO<sub>2</sub> emissions.
- Apply for the ENERGY STAR.
- [www.energystar.gov/benchmark](http://www.energystar.gov/benchmark)





# Document the savings

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- Did your upgrades yield the savings you expected?
- Verify the results based on actual meter data
- Use the data from a portfolio of buildings to target high impact savings opportunities
- Calculate the GHG emissions reduction from your energy efficiency projects



# Show me the money



- More and more, community leaders must demonstrate the financial viability of energy efficiency projects.
- Use the custom report section to quantify savings after retrofit
- Highlight potential budget savings with Cash Flow Opportunity calculator.

[www.energystar.gov/financialevaulation](http://www.energystar.gov/financialevaulation)

# Portfolio Manager Reports

- Use pre-defined report templates or customize your own!
- Filter by reporting period, facilities and groups, location, and facility type
- Export data in a variety of formats
  - MS Excel, XML, CSV, or PDF

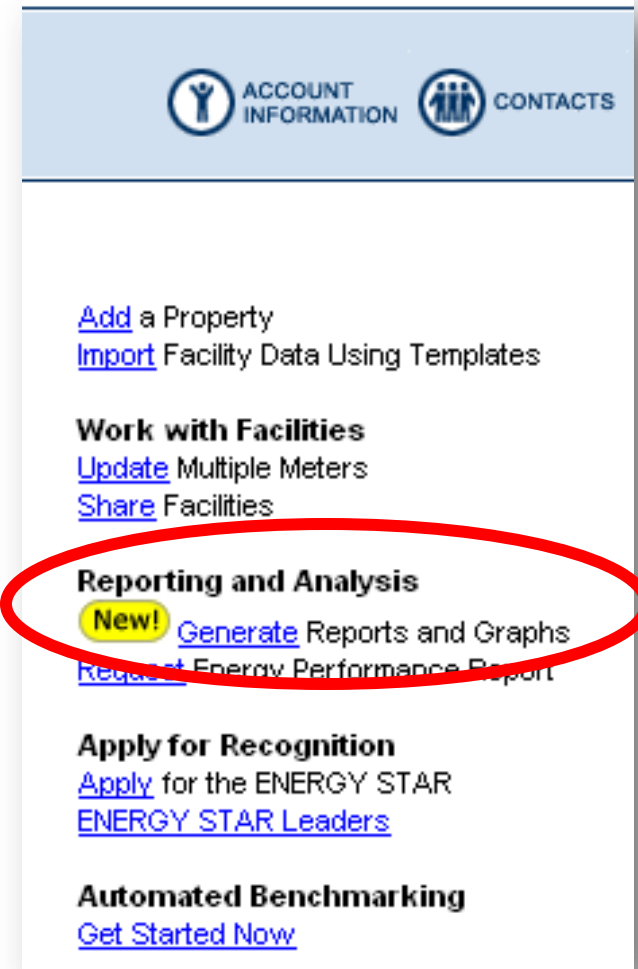
## Pre-defined Reports Include:

- Energy Performance
- Utility Cost Report
- Baseline Comparison
- Emissions Performance
- Water Performance Report
- Water/Wastewater Energy Performance

# Generating Portfolio Manager Reports



1. Sign into Portfolio Manager Account
2. Click “**Generate Reports and Graphs**”
3. Choose a report template
4. Click “**Custom Reports Home**”
5. Create a **New Custom Report Template**
6. Define **Metrics for Custom Report**
7. Generate Report, Share Template, or Request Data



# Generate a Custom Report



**PORTFOLIO MANAGER**

ACCOUNT INFORMATION CONTACTS FAQ FREQUENTLY ASKED QUESTIONS CONTACT US ? HELP X LOGOUT

Home > My Portfolio > Generate a Report > Custom Reports Templates > Create a Custom Template

## Create a Custom Report Template

Use custom templates to create your own reports in Portfolio Manager. Use the directional buttons below or simply "click and drag" to select the type of data you want to include.

Template Name:

Created By: N/A Last Updated By: N/A

**Just drag and drop!**

Select from Available Metrics

Building Information

Comparisons to Energy and Water Baselines

Data Center Metrics

ENERGY STAR Application Information

Financial Indicators

GHG Emissions

Period Ending Dates

Rating

Renewable Energy

Site Energy

Source Energy

Space Attributes (Time Weighted)

My Custom Template

Building ID (Required)

Facility Name (Required)

Period Ending Date (Required)

Rating (Required)

↑

↑

→

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# Distribute the Results



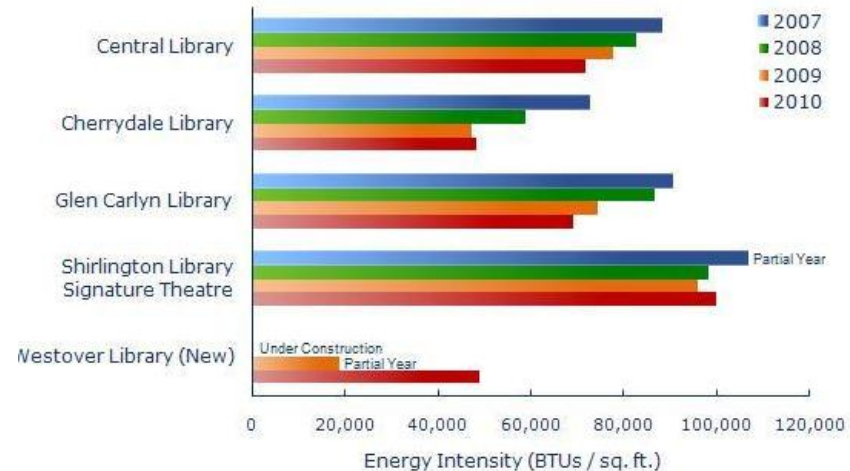
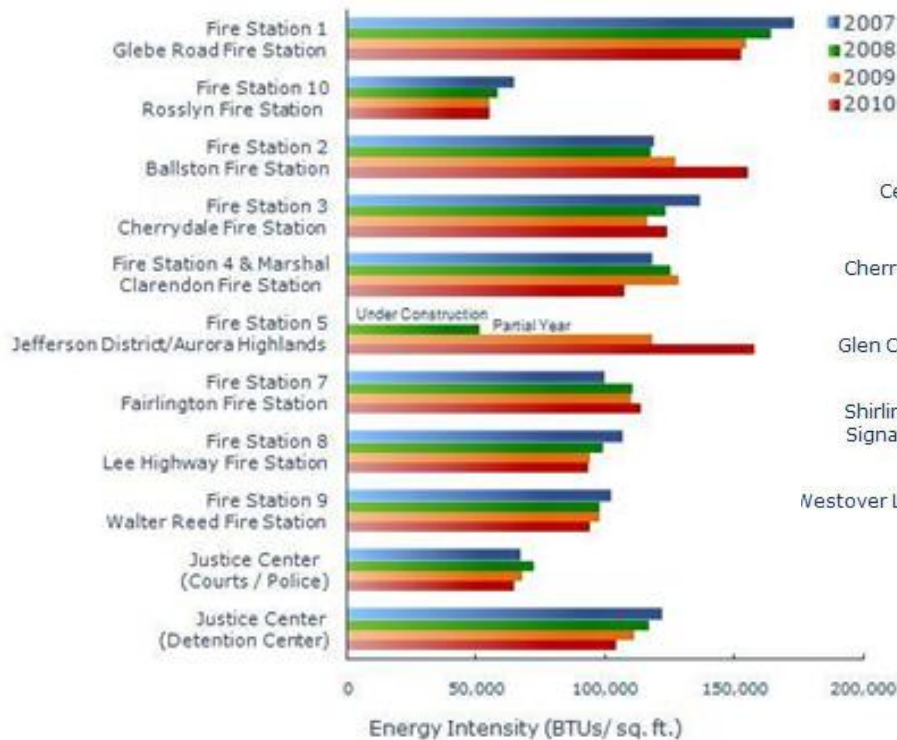
- Use your building data to prioritize opportunities to save money
- Share your building data with other users
- Encourage action by colleagues and management
  - Include in internal and external newsletters
  - Consider creating an energy or environment focused newsletter
  - Present the results in staff meetings or during proposals for new building projects

# Verify Improvements... and Communicate Them!



## Arlington County's Building Energy Report Cards

Site Energy Intensity by Building

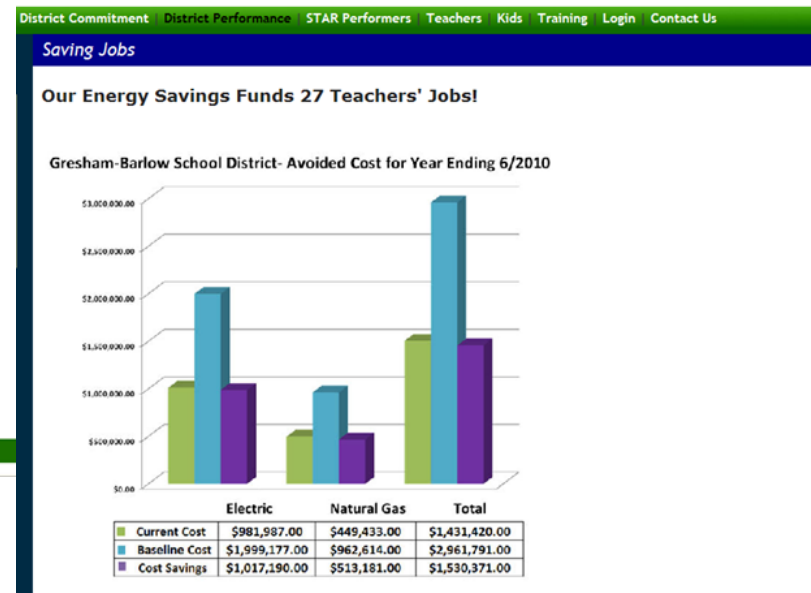


More about the Arlington County's Building Energy Report Cards:  
[www.arlingtonva.us/portals/topics/aire/page66219.aspx](http://www.arlingtonva.us/portals/topics/aire/page66219.aspx)

# Verify Improvements... and Communicate Them!



## Gresham-Barlow School District's "Energy Center"



More about Gresham-Barlow School District's "Energy Center":  
[www.gbsdenergycenter.com](http://www.gbsdenergycenter.com)



# Communications Strategy

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- **Outline Key Points and Define:**
  1. Strategic objectives
  2. Target audience(s)
  3. Key messages
  4. Key alliances and strategic partnerships
  5. Execution
  6. Evaluate results

# Earn the ENERGY STAR for Commercial Buildings



## Recognition for superior energy performance in a single building

- Earn a 75 or higher on EPA's 1-100 energy performance scale using Portfolio Manager
- Indicates that the facility performs better than at least 75% of similar buildings nationwide.



# Involve employees and tenants in achievements



# Engage Coworkers & Tenants with “Bring Your Green to Work”



## Outreach Toolkit:

4-minute video

Interactive cubicle

Energy quiz

Publications

Green Team checklist

Fast Facts

...and more!



# Engage Coworkers & Tenants with “Bring Your Green to Work”



**LEARN MORE AT** ENERGY STAR® is a U.S. Environmental Protection Agency program helping businesses and individuals fight global warming through superior energy efficiency.

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**LEARN MORE AT** [energystar.gov](http://energystar.gov) ENERGY STAR® is a U.S. Environmental Protection Agency program helping businesses and individuals fight global warming through superior energy efficiency.

**Bring Your Green to Work with ENERGY STAR®**  
Tips for Executives

Boost the energy efficiency of your business, save money, and fight global warming with EPA's ENERGY STAR program. The places where we work, shop, play, and learn spend \$200 billion on electricity and natural gas each year and contribute nearly half of our nation's greenhouse gas emissions. Get started with these tips from EPA to reduce energy waste in your buildings and facilities, lower energy costs, and protect the environment.

**Take It to Your Team**  
To get your organization started on the road to saving energy, EPA recommends a strategic approach that starts with you. Consider instituting an official energy policy, appointing an energy director, and establishing an energy team. For detailed suggestions, check out EPA's "Teaming Up to Save Energy"¹ guide, which describes the steps to creating a successful energy team and offers concrete examples from successful ENERGY STAR partners such as Toyota and 3M.

**Performance Matters**  
Understanding past and current energy use is how many organizations identify opportunities to improve energy performance and gain financial benefits. EPA offers free tools to help you gather and track your energy-related data, establish baseline information, benchmark your facilities against each other or your industry, analyze your energy use patterns and trends, and examine energy use to prioritize areas for improvement. EPA's ENERGY STAR Portfolio Manager tool for commercial buildings ([energystar.gov/benchmark](http://energystar.gov/benchmark)) and EPA's Energy Performance Indicators for industrial facilities ([energystar.gov/peis](http://energystar.gov/peis)) can help you get started.

**Earn the ENERGY STAR**  
Buildings that have earned the ENERGY STAR use nearly 40 percent less energy than average buildings and offer a significantly smaller carbon footprint. Consumers interested in being green can find the ENERGY STAR not only where they live but where they work, shop, play, and learn. Thousands of buildings and manufacturing plants have earned the EPA's ENERGY STAR for superior energy efficiency, including offices, hotels, hospitals, schools, auto assembly plants, supermarkets and more. Make your building an ENERGY STAR today. [energystar.gov/labeledbuildings](http://energystar.gov/labeledbuildings)

¹ [http://www.energystar.gov/index.cfm?c=workplace.teaming\\_up\\_to\\_save\\_energy](http://www.energystar.gov/index.cfm?c=workplace.teaming_up_to_save_energy)

**Bring Your GREEN TO WORK**  
with ENERGY STAR®

The small steps you take at work to save energy can make a big difference in the fight against global warming.

**monitor/computer**  
Enable power management settings so they automatically enter a low power mode when not in use.

**desk lamp**  
Replace the bulbs in desk lamps with ENERGY STAR qualified bulbs.

**power strip**  
Use a power strip as a central "turn off" point when you are done using office equipment to completely disconnect the power supply.

**cellphone**  
Unplug electronics when not in use.

**you**  
Create a green co-workers list and reduce energy waste.

**Bring Your GREEN TO WORK**  
with ENERGY STAR®

Learn how you can make many of the same green choices at work as you make at home to save energy and fight global warming with help from EPA's ENERGY STAR program.

- 1 Give It a Rest**  
Use the ENERGY STAR power management settings on your computer and monitor so they go into power save mode when not in use. Also use a power strip as a central "turn off" point when you are using equipment to completely disconnect the power supply.
- 2 Unplug It**  
Unplug electronics such as cell phones and laptops once they are charged. Adapters plugged into outlets use energy even if they are not charging.
- 3 Light Up Your Work Life**  
Replace the light bulbs in your desk lamp with an ENERGY STAR qualified bulb. It will last up to 10 times longer and use about 75 percent less energy. Turn off the lights when you leave, especially at the end of the day.
- 4 Let It Flow**  
Keep air vents clear of paper files, and office supplies. It takes as much as 25 percent more energy to pump air into the workspace if the vents are blocked.
- 5 Team Up**  
Create a Green Team with your co-workers, help build support for energy efficiency in your workplace, and reduce office waste. Set a goal to make your building an ENERGY STAR qualified building.

Learn More at [energystar.gov/work](http://energystar.gov/work)

ENERGY STAR® is a U.S. Environmental Protection Agency program helping businesses and individuals fight global warming through superior energy efficiency.

**EPA**

# Engage Coworkers & Tenants with “Bring Your Green to Work”



# Leverage Portfolio Manager in Your Local Recognition Efforts



Mayor Abramson and the Kentucky Office of Energy Policy recognize buildings that earn the ENERGY STAR in Louisville, Kentucky .





# Join Forces with Your State



**Office of the  
Lieutenant Governor**

JOIN OUR MAILING LIST  
  
Choose County

**"We have entered the new energy economy. Already in Wisconsin, energy efficiency and locally produced, renewable fuels are helping businesses grow and create new jobs."**  
*~ Lt. Governor Barbara Lawton*



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## Energy Star Schools Challenge News

Thursday, December 04, 2008

**5.27.09**

- [Lt. Governor Lawton to Make Major Announcement about Green Economy Agenda at Ashwaubenon High School](#)
- [Wausaukee School District Accepts Lt. Governor Lawton's Energy Star School Challenge](#)

**5.26.09**

- [Whitewater School District Accepts Lt. Governor Lawton's Energy Star School Challenge](#)

**5.14.09**

- [Richmond School District Accepts Lt. Governor Lawton's Energy Star School Challenge](#)

**5.13.09**

- [Merrill School District Accepts Lt. Governor Lawton's Energy Star School Challenge](#)

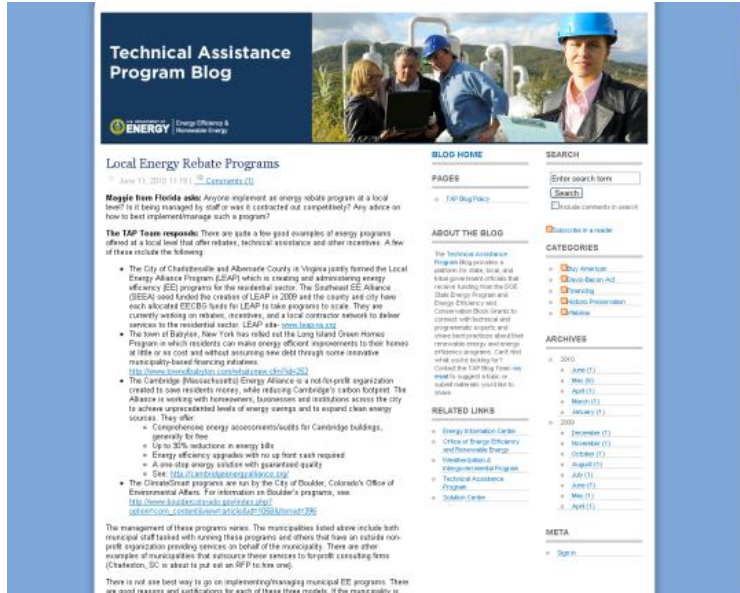
**5.11.09**

- [Lake Holcombe School District Accepts Lt. Governor Lawton's Energy Star School Challenge](#)



Wisconsin Lt. Governor Lawton presents the Energy Star plaque to Hale High School principal Kathy MacDonald.

- Post your own story to the DOE TAP blog
- Submit a press release or success story to your Project Officer for posting on the DOE Blog



Access the TAP Blog!  
<http://www.eereblogs.energy.gov/tap/>

Stacey Baumgarn  
Energy Conservation Specialist  
Larimer County



# LARIMER COUNTY JUSTICE CENTER

## FORT COLLINS, COLORADO

- Built in 2000
- 172,669 sf
- ~225 employees
- 3 distinct groups of State & County employees
  - Courts
  - Probation
  - District Attorney



2010 – Earned the first ENERGY STAR for a Larimer County Government building





# LARIMER COUNTY GOVERNMENT

- THANK YOU EECBG

- Larimer County projects funded through EECBG:
  - 12 projects in 5 EECBG Activity areas
    - Activity area 1
      - Develop and Energy Efficiency and Conservation Strategy
      - Hire and Energy Conservation Specialist
    - Activity area 2
      - Complete our first GHG inventory of Larimer County operations
    - Activity area 6
      - Develop employee engagement programs
      - Purchase energy management software
      - Establish account and utilize ENERGY STAR Portfolio Manager
      - Server virtualization
      - Write and implement first County Energy Policy and Energy Action Plan
      - Energy Performance Contract
      - Serve on design team for first County owned LEED certified building
    - Activity area 8
      - Adopt 2009 IECC and IRC building codes
    - Activity area 13
      - Install first solar PV array on a County building





# LARIMER COUNTY JUSTICE CENTER

## FORT COLLINS, COLORADO

- Continual improvements in energy efficiency
  - 2008 major HVAC upgrades

### Larimer County Justice Center, the history of highs and lows

<u>Month</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>2009</u>	<u>2010</u>	<u>2011</u>	<u>Lowest</u> <u>month</u>	<u>Highest</u> <u>month</u>	<u>Average</u> <u>month</u>
January	197,600	188,000	194,400	197,200	199,200	160,000	146,800	146,800	199,200	183,314
February	157,600	180,000	164,800	178,800	138,000	142,000	135,600	135,600	180,000	156,686
March	184,800	199,200	217,600	201,600	134,400	139,600	132,800	132,800	217,600	172,857
April	193,600	207,600	204,400	224,800	137,600	137,600	126,800	126,800	224,800	176,057
May	236,400	252,000	244,800	274,400	145,600	151,600	133,200	133,200	274,400	205,429
June	267,600	286,000	280,400	307,600	146,000	173,600	152,800	146,000	307,600	230,571
July	333,600	298,800	250,000	360,000	183,600	181,600	170,400	170,400	360,000	254,000
August	307,200	293,600	415,600	343,200	166,800	179,200	175,600	166,800	415,600	268,743
September	257,200	218,400	302,800	243,600	146,800	153,600		146,800	302,800	220,400
October	173,600	194,000	270,800	224,000	140,800	134,000		134,000	270,800	189,533
November	158,000	166,800	226,800	174,400	130,800	130,400		130,400	226,800	164,533
December	188,800	172,800	206,400	188,000	169,200	135,600		135,600	206,400	176,800
<b>Total:</b>	2,656,000	2,657,200	2,978,800	2,917,600	1,838,800	1,818,800				

This is a year-by-year and month-by-month look at the total kWh used in the Justice Center  
 Green highlight indicates the lowest usage during the period considered, red highlight indicates the highest usage

### Electricity usage



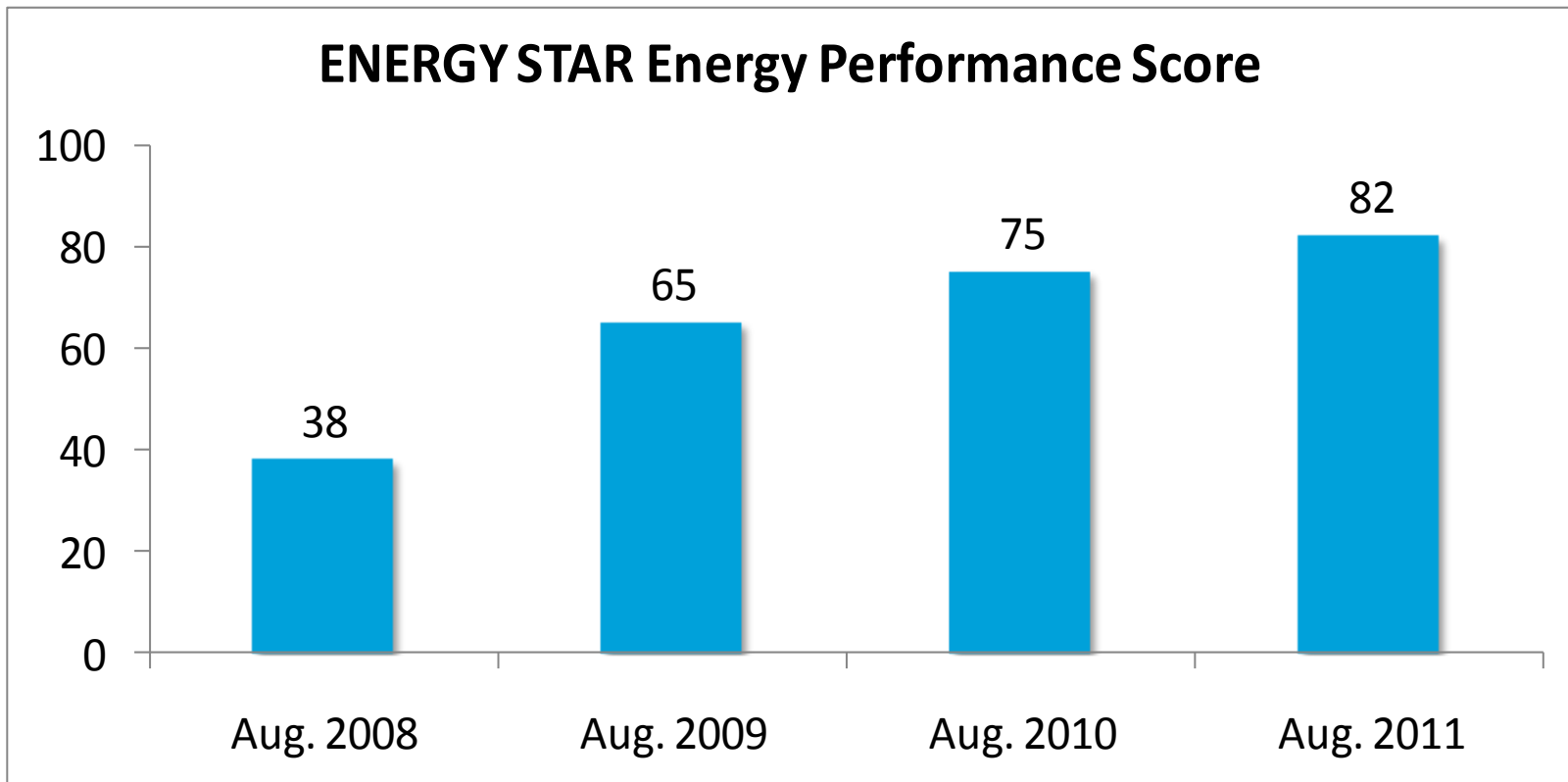




# LARIMER COUNTY JUSTICE CENTER

## FORT COLLINS, COLORADO

- Consistent annual improvement in the **ENERGY STAR** energy performance score







# LARIMER COUNTY JUSTICE CENTER FORT COLLINS, COLORADO

## Communicating success through press releases

**BATTLE OF THE BUILDINGS**  
EPA'S NATIONAL BUILDING COMPETITION  
MIDPOINT TOP CONTENDERS ANNOUNCED!

Home > Buildings & Plants > National Building Competition > Contestant Story Details  
[Back to The Stories Behind the Battle](#)

**Larimer County Justice Center - Fort Collins, CO**

Briefly describe 3 projects your organization has undertaken during the 2011 ENERGY STAR National Building Competition to improve your building's energy efficiency.

The Larimer County Energy Conservation Specialist has given several presentations to various groups, including the Larimer County Board of County Commissioners, Probation Department staff, and the 8th Judicial District Green Team, regarding the organization's participation in the competition. Outreach and engagement is ongoing.

The energy team has been busy sending out e-mails to building occupants, which remind them of the benefits of saving energy in the places where they work, play, and learn.

Recent improvements to the HVAC equipment significantly improved the building's energy efficiency from the mechanical perspective; the National Building Competition is a great opportunity to focus on the ways the building occupants can also contribute to further energy savings.

How has the 2011 ENERGY STAR National Building Competition made a difference in your organization's efforts to save energy?

Since the official announcement of its participation in the National Building Competition, Larimer County has received a great deal of press coverage. The excitement around the competition has helped to increase awareness, motivation, and employee interaction and engagement in saving energy. Efforts include simply working to share with building occupants the ways they can contribute to energy savings, with the approach that we all want to work together to be good stewards. Since this is the just second large energy challenge that the competitor has held in the Larimer County Government facilities, they continue to learn the most effective ways to communicate and increase awareness. It is exciting for the Larimer County Justice Center to be a part of the National Building Competition; the competition has been a great opportunity to educate and demonstrate long-term energy savings through building energy efficiency.

Briefly describe ways y Competition (e.g. event

Judicial Green Team members were given to elected officials Justice Center, which was univ to building occupants to inform increase awareness and partici

## Larimer County

The Official Website of Larimer County, Colorado

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» News & Community Info > News Releases > Energy Star Award at Larimer County Justice Center

## News Release

### Energy Star Award at Larimer County Justice Center

**Department:** Board of County Commissioners

**Release Date:** May 10, 2011

#### Contact Information:

Stacey Baumgarn, Energy Conservation Specialist, (970) 498-5917, [sbaumgarn@larimer.org](mailto:sbaumgarn@larimer.org)

Michael Kirk, Facilities Director, (970) 498-5911, [mkirk@larimer.org](mailto:mkirk@larimer.org)

Larimer County, Colorado – Larimer County Energy Conservation Specialist Stacey Baumgarn today presented the Board of Larimer County Commissioners with a plaque awarding an 'Energy Star' label for 2010 to the Larimer County Justice Center, 201 LaPorte Ave. in Fort Collins. The plaque, awarded by the Environmental Protection Agency (EPA) Energy Star program, will hang in the Justice Center lobby. According to Baumgarn recent improvement in HVAC (Heating, Ventilating, and Air Conditioning) equipment has improved energy efficiency in the building. "This is our first building to earn the Energy Star label for superior building performance."

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## County lauded for energy savings

By Jackie Hutchins, 2011 Loveland Reporter-Herald  
Posted: 05/11/2011 07:09:41 PM MDT

FORT COLLINS Larimer County commissioners learned Tuesday that energy saving efforts at buildings in the county reduced at least 159,000 kilowatt hours of power usage for a savings of \$9,500 in 2010. The county staff also diverted 283,000 pounds of material from the landfill through recycling, proper handling and 100 miles of vehicle travel and eliminated 864 tons of emissions of carbon

level Climate Wise designation from the city of Fort Collins and recognition by Energy Star program for the Justice Center.

A specialist for the county, said some of the energy savings came from server servers with two virtual servers for a savings of 90,419 kilowatt hours, office building, for a savings of 39,000 kilowatt hours, and rebalancing the system at the Sheriff's Administration Building, which is anticipated to save ar.

day lighting during nonbusiness hours and installing solar panels at the

ed transportation costs included use of video arraignments that allow rather than transporting them to the Justice Center for arraignments, and a give up their parking passes in favor of bus passes or riding bikes to work.

2 Comments »



# LARIMER COUNTY JUSTICE CENTER FORT COLLINS, COLORADO

## EPA's 2011 National Building Competition “Battle of the Buildings”

- What my building can do for me vs.  
What can I do for my building?
- Judicial Green Team
- Staff meeting presentations
- Press releases
- Targeted email
- ENERGY STAR
- Build on enthusiasm



# Thanks you for participating!

We appreciate your feedback from the poll provided here at the end of the presentation.