

ENERGY STAR Energy Efficiency Competitions

Katy Hatcher

ENERGY STAR US EPA

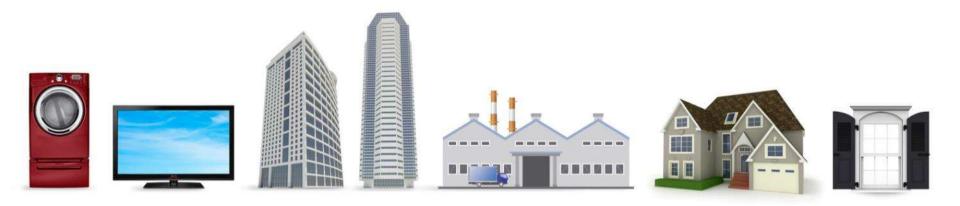
2018 NASEO Annual Meeting, September 24th

To date, the ENERGY STAR program has helped Americans:

- Save \$450 billion
- Save 3.5 trillion kWh of electricity
- Avoid **3.1 billion metric** tons of GHG emissions



The biggest little label in energy efficiency



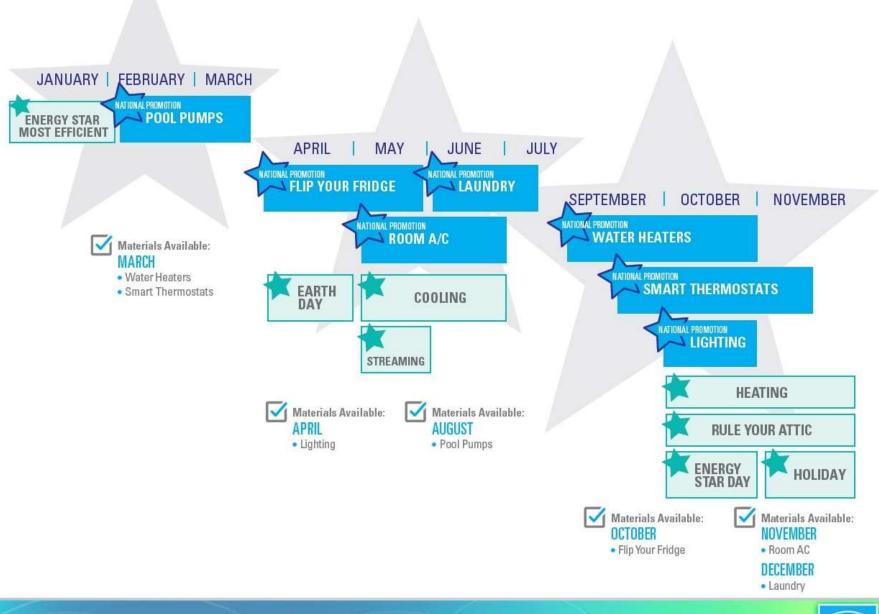
5.8 billion products

32,000 buildings

190 industrial plants

1.9 million homes







ENERGY STAR

ENERGY STAR for Buildings and Plants

Voluntary EPA program that delivers environmental benefits and financial value through superior energy efficiency.





SEPA ENERGY STAR. The simple choice for energy efficiency.



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- Hundreds of thousands of buildings
- Two dozen local benchmarking policies
- **One** foreign government (Canada)

Interactive map of policies and programs



www.energystar.gov/policiesandprograms

Can be hosted on your site!

ENERGY STA



Management Tool



Assess whole building energy and water consumption, plus waste



Track green power purchase



Share/report data with others



Track changes in energy, water, greenhouse gas emissions, and cost over time



Create custom reports



Apply for ENERGY STAR certification





Hundreds of metrics, including:





Energy use Source, site, weather normalized, demand Water use Water use intensity, Water Score (for Multifamily) Waste & Materials Waste intensity, diversion rate



1-100 ENERGY STAR score



GHG emissions Indirect, direct, total, avoided



NASEO ENERGY STAR Task Force

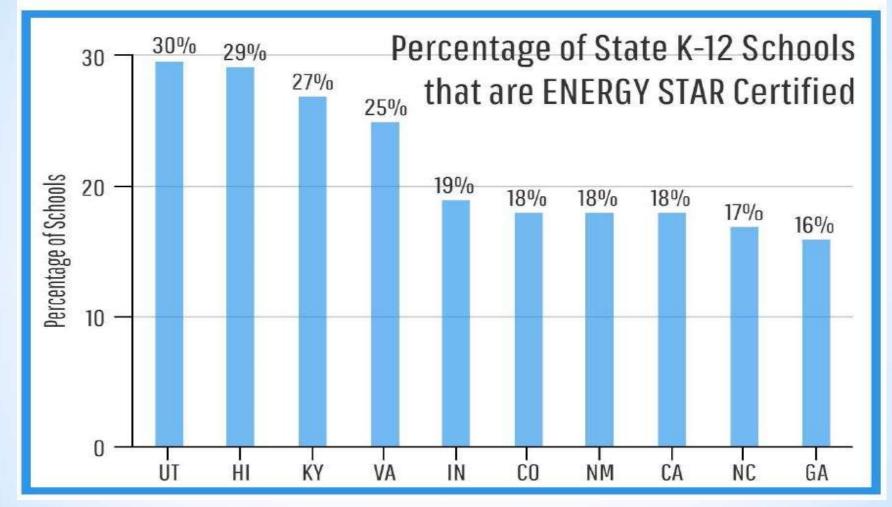


- Through the establishment of an ENERGY STAR Task Force, NASEO and EPA will work with key memberstates to develop policy and programmatic recommendations, resources, and best practices to be shared through the broader Buildings Committee and NASEO membership at-large.
 - Launch model state-wide ENERGY STAR programs that target sectors such as K-12, Industrial, Multifamily, CRE
 - Implement successful state-wide benchmarking programs
 - Leverage local benchmarking/transparency programs
 - Improve access to whole building energy data
 - ENERGY STAR "kit" for State Energy Plans

www.naseo.org/committee-buildings/energy-star-task-force



More than 11,000 ENERGY STAR Certified Schools



www.naseo.org/committee-buildings/energy-star-task-force



ENERGY STAR Battle of the Buildings

Ready to host your own competition?

We have the tools you need!



Everything you need to get started:

- Template rules, timeline, communications
- Competition Guide
- Data Management Guide and Template Data Tracker
- Activity kits
- ...and more!

www.energystar.gov/BattleoftheBuildings



EPA Resources

www.energystar.gov/battleofthebuildings



The Competition Guide The Data Management Guide + (Competitor Data Tracker Excel Template

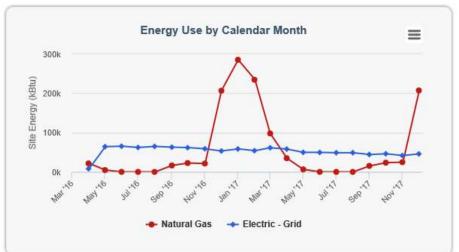
Communication Plans + Activity Kits



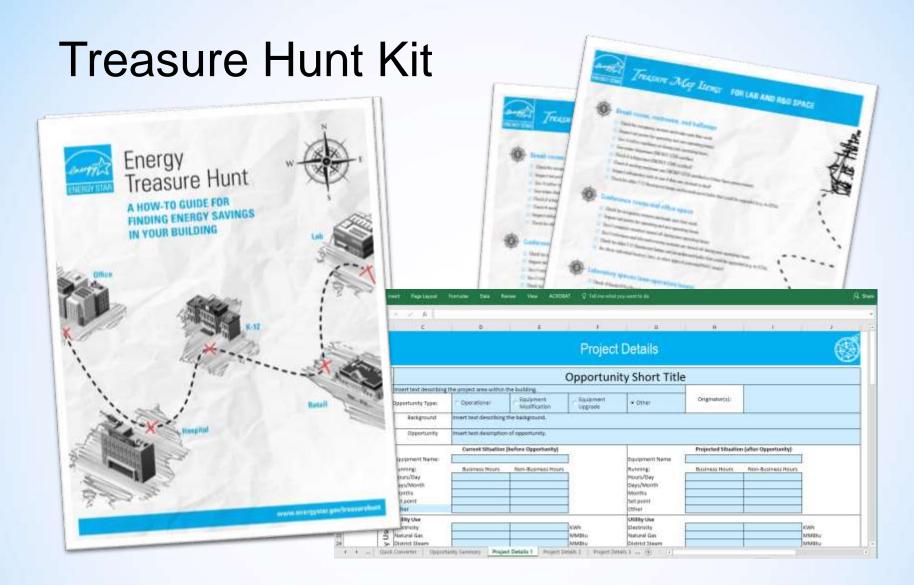
SEPA ENERGY STAR. The simple choice for energy efficiency.

New! Monthly Usage Totals by Fuel Type

- New monthly metrics will be available in the Reporting tab to pull aggregated monthly consumption for:
 - Electricity
 - Natural Gas
- Will be calculated similarly to the values in the monthly chart exports on the Energy tab







www.energystar.gov/TreasureHunt

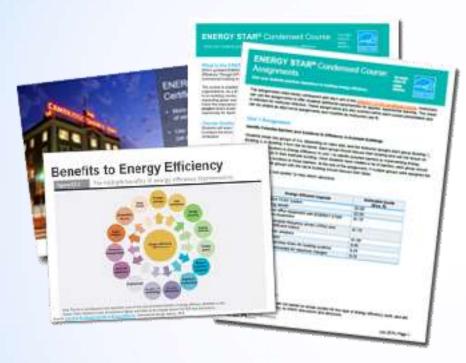






Three-Unit College Course

Includes slide decks, assignments, and other teaching aids



- Unit 1: Why Energy Efficiency Matters
- Unit 2: Strategies for Overcoming Barriers to Efficiency
- Unit 3: How to Benchmark a Building Using Portfolio Manager

www.energystar.gov/course





Michigan Battle of the Buildings



Michigan

Competition:

- Free and open to all buildings, except singlefamily residential, in Michigan
- Competition is run annually from April 1 through December 31.
- Buildings must have the previous year's energy data to use as baseline
- Winners recognized at the Michigan Energy Summit in April of the following year.



EPA resources used:

- Based off of the EPA model
- EPA webinars
- Customized graphics





Success to date:

191,979,708

 Square footage of Battle of the Buildings participants in 2018

137,355.2

 Total GHG emissions (Metric tons of CO2e) eliminated from battle competitors since 2014



7,600,000

 U.S. Dollars in utility costs avoided in 2017

Source: http://www.michiganbattleofthebuildings.org/



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The Boeing Company Battle of the Buildings

The Boeing Company

Competition:

- Boeing facilities
- 30 days (April); shorter approach
- Site level

EPA resources used:

- BoB mascot
- Activity Kits



Outcome:

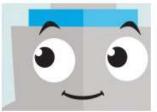
- 47 sites in six countries competed
- Represented 93% of Boeing's energy use
- 25 sites saw an overall reduction in electricity use
- Overall 1.6% reduction in energy use across all participating sites



The Boeing Company

Battle of the Buildings Energy Reduction Competition Toolkit

During April, Boeing facilities are encouraged to compete in an energy reduction competition as the company's key Earth Day activity. Explore the guidelines and resources below to get involved. Contact the Earth Day Focal for your site with questions.



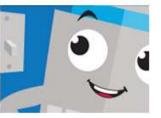
Planning

- Brief Overview
- Environment Tip
- Standard Presentation
- · Guidelines
- Newsletter Blurbs
- Printing Instructions
- BoB Wrap Up Plasma



We're Competing!

- We're Competing
- We're Competing Banner
- Custom: Conserve
- Custom: BoB
- · You Have the Power
- People Powered
- Generator
- Energy Pledge
- Energy Trivia
- Share Ideas, Help Needed



Turn it off!

- Turn off lights
- Task lighting
- Daylighting



Unplug!

- · Shut it down
- Unplug
- · Plug into power strips
- · Compressed air leaks
- Compressed air leaks
 Banner
- · Efficient ovens are hot



Conservation is hot and cool!

- · Skip the space heater
- · Tilt your blinds
- · Close the gap (doors)
- Don't blow it (paint booths)



QUESTIONS?

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Portfolio Manager or ENERGY STAR Buildings Questions: www.energystar.gov/buildingshelp