

ENERGY STAR Commercial Food ServiceWebinar Series

Discovering Energy and Cost Savings with ENERGY STAR Treasure Hunts



Tuesday, March 23, 2021



Introduction to Monthly CFS Webinar Series

Webinars are an opportunity for Partners/Stakeholders:

- To hear news on the latest CFS events, activities, and initiatives at ENERGY STAR
- To learn about program engagement resources and tips
- To engage with ENERGY STAR and each other on industry topics and energy-savings
- To provide feedback on any information gaps and inform the development of new resources





Near-Term ENERGY STAR CFS Activities

- Earth Day April 22, 2021
- Spring newsletter April 2021
- CFS equipment calculator updates coming soon!
- CFS utility midstream program resources coming soon!
- Active specification revisions:
 - Commercial Refrigerators and Freezers v5.0
 - Commercial Ovens v3.0
 - Commercial Electric Cooktops v1.0
- Webinar Series
 - Next webinar Tuesday, April 13 at 1 PM EST



Stakeholder Breakdown

- Registrations for today's webinar include:
 - 26 EEPS/Utilities
 - 21 Product Brand Owners
 - 14 Implementers
 - 13 Other
 - 2 Dealers/Distributors
 - 2 Associations





Polling Question #1

- Has your organization ever conducted an Energy Treasure Hunt?
 - Yes
 - No



Polling Question #2

- Are you familiar with the ENERGY STAR Commercial & Industrial program?
 - Yes
 - No





Energy Treasure Hunt Resources from ENERGY STAR

Walt Tunnessen, ENERGY STAR Industrial Jerry Lawson, ENERGY STAR Small Business





Agenda

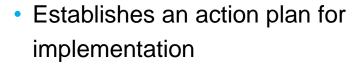
- Background on Energy Treasure Hunts
- Treasure Hunt Resources from ENERGY STAR
- Treasure Hunt Tips for Small Businesses
- Find the Treasure Campaign
- Questions / Discussion





What's an Energy Treasure Hunt?

- Process for finding no and low-cost energy savings opportunities at facilities
- Involves facility staff who work with energy team & outside experts
- Engages senior management / financial decision makers to authorize action on projects

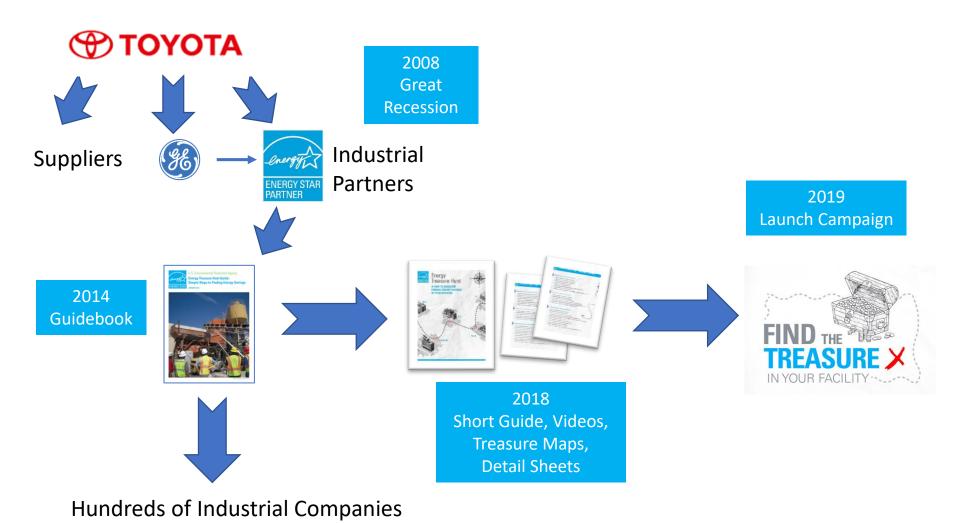








Background on Energy Treasure Hunts



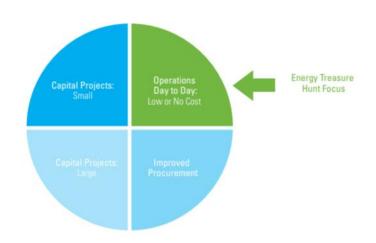




Treasure Hunts vs Audits

- TH are <u>less threatening</u> to employees than audits or assessments
 - Focus on "opportunities," not problems
 - Engage employees responsible for implementation
 - · Help build energy teams
- TH generally look for operational & behavioral opportunities
 - · Pick the low hanging fruit
 - Identify opportunities for further study (capital projects)
- TH get management approval to implement findings at the end of the event

TH can be expanded to address water, safety, and other issues.







Energy Treasure Hunt Benefits

- Develops employees' energy knowledge
- Motivates employees to pursue energy innovation
- Creates focus on low-cost operational improvements where results can be seen quickly
- Establishes culture of continuous improvement and cross-functional collaboration
- Reduces energy use, cost, and GHG emissions
- Sparks employee ownership of energy-saving strategies
- Helps to identify areas where more in-depth study may be needed







Hunting for Treasure

- The "Treasure Hunt" is usually a 1 to 3-day event depending on the facility size & complexity.
- Starts during a *non-operating period* (weekends, morning, between shifts, etc.) and continues through an *operating period*.
- Involves teams walking the site, making observations, and asking questions such as:
 - Can it be shut off?
 - Can it be tuned up?
 - Can it be done more efficiently?
 - Can it be upgraded?
- Requires time to estimate savings (Btu/\$) and prepare findings & recommendations for management









Treasure Hunt Planning

Phase 1: Preparation

- Select site
- Schedule event
- Identify team members
- Collect energy data and information on the site
- Gather resources & tools

Phase 2: Pretraining

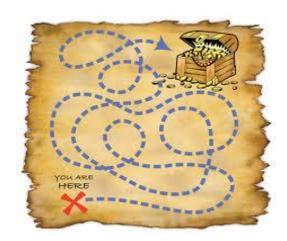
Train team members on the process and tools

Phase 3: Onsite Event

- Visit site and hunt for treasure
- Quantify and prioritize energy savings
- Present findings to management

Phase 4: Follow-up

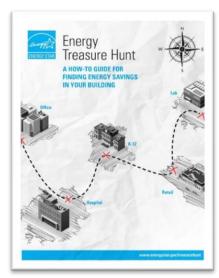
- Check with on-site team on implementation strategy
- Prioritize actions
- Monitor process and energy performance

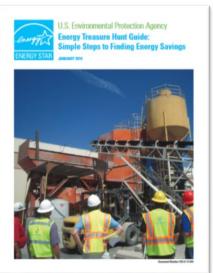






How to Guides





How to Guide For Commercial Buildings

- Short overview of the Treasure Hunt process
- 4 pages long
- Good to share with employees and managers who want more information but not a long read!

How to Guide For Industrial Plants

- Detailed discussion of the Treasure Hunt process
- 34 pages long
- Applicable to any type of facility.
- Share with those who need to know more about how treasure hunts are planned and implemented.





Small Business Action Workbooks





ENERGY STUR is a U.S. Environment Protection agency program helping organizations and front cust fight dimate change through superior energy efficiency. Learn more an energy stongor buildings.





NACS dvancing Convenience & Fuel Retailing

ENERGY STAR" a e U.S. Environmental Protection Agency program helping organizations and individual

General Small Business Workbook

- "How to" for general small business energy efficiency savings
- 98 pages long
- Available in Spanish, formatted for printing, PDF is compliant with Americans with Disabilities Act

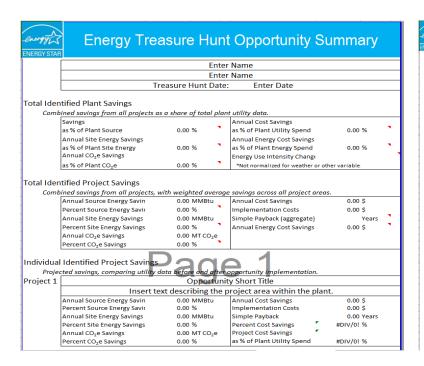
Trade Association "Co-branded" Workbooks and Treasure Maps

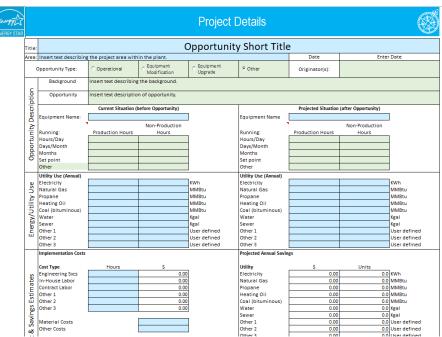
- Custom cover image(s)
- Inside open to open to association program information
- Full page letter on letterhead from CEO facing inside cover





Details Sheets

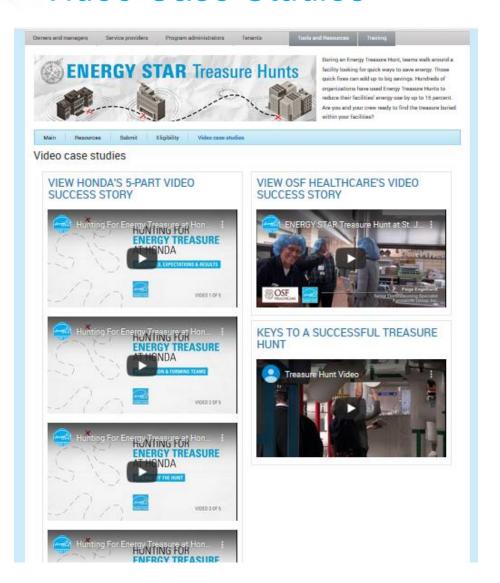




- Organize savings from projects & energy savings opportunities
- Available for industrials & commercial buildings



Video Case Studies



Short – YouTube-like videos on Treasure Hunts

Great for:

- Training teams
- Share with site management
- Learning more about treasure hunts



- Identify common energy savings opportunities
- Helpful for non-energy treasure hunt team members
- ▶ 14 buildings maps
- 3 industrial maps







Treasure Map FOR RESTAURANTS/COMMERCIAL KITCHENS

Grab a clipboard and take this map along on your treasure hunt. Focus on uncovering opportunities to save. When you find osmothing, make notes about location; tools, materials, or expertise needed; or further research required. Feel free to add to or modify this list to suit your own needs.

ility Namo Bor Date Team



Facility Management and Benchmarking

- Managing costs starts with knowing your baseline use, from which to track sovings. Start by printing the Data Collection Worksheet for "Restaurang/Bar" found under "Tood Sales & Service" on this menu. This Worksheet will list all you need to benchmark your properly in the free, online Portfolio Manager* tool for tracking energy, water and recycling/materials management.
- https://portfoliomanager.energystar.gov/pm/signup

 Learn more at https://www.energystar.gov/benchmark and find all Portfolio Manager training and tech support at

https://www.energystar.gov/buildings/training.

- Register for ENERGY STAR's live webinars and find recorded webinars on many sustainability tonics
- □ Portfolio Manager does not have a module to soon restaurants or commercial inchero on the 1-10 PEHGY STAR® 2-ale yet. However, national modian EU (Energy Use Intensity is approximately energy yes sqt 1) for Chief Service Restaurants is 88-6 for Source EU (eBurl⁶) and 427. She EU (Richyr). Median EU is is lower for other Restaurants/Cafeterias at 53.7 / Source EU (Richur)⁶ and 325.6 Site EU (Richur)⁶. You can do much botter than the EU.
- Use "start-up, shut-down" scheduling for house lights, kitchen equipment and heating/air-conditioning.
- Educate and encourage employees to report leaks, turn off lights not in use and to look for savings opportunities.
- Adopt a purchasing/procurement policy that specifies EPA's ENERGY STAR, WaterSense® and Safer Choice® labeled products when applicable. Customize ENERGY STAR's template procurement letter for

NOTES:

TIP

- Download the ENERGY STAR Action Workbook for Small Business (with restaurant appendices) for more strategies, action items, and ideas. See the 30-minute ENERGY STAR for Small Business recorded webinar. Start and support a Green learn of members and employees. Find resources to Build Your Own Competition for savings.
- Celebrate your success and recognize contributors.
 Help your customers and employees achieve savings at home and at guests' workplaces and Bring Your Green to Work.



www.energystar.gov/treasurehunt

TREASURE MAP FOR RESTAURANTS/COMMERCIAL KITCHENS | PAGE 1 OF 8





Treasure Maps



Treasure Map FOR RESTAURANTS/COMMERCIAL KITCHENS

Grab a clipboard and take this map along on your treasure hunt. Focus on uncovering opportunities to save. When you find something, make notes about location; tools, materials, or expertise needed; or further research required. Feel free to add to or modify this list to suit your own needs.

Facility	Name	Floor	Date	Team



Facility Management and Benchmarking

Managing costs starts with knowing your baseline use, from which to track savings. Start by printing the Data Collection Worksheet for "Restaurant/Bar" found under "Food Sales & Service" on this menu. This Worksheet will list all you need to benchmark your property in the free, online Portfolio Manager® tool for tracking energy, water and recycling/materials management.

https://esbuildings.webex.com/mw3300/mywebex/default.do?siteurl=esbuildings

Create your account at https://portfoliomanager.energystar.gov/pm/signup

Learn more at https://www.energyetar.gov/henchmark and find

NOTES:

TIP:

- Download the ENERGY STAR Action Workbook for Small Business (with restaurant appendices) for more strategies, action items, and ideas. See the 30-minute ENERGY STAR for Small Business recorded webinar. Start and support a Green Team of members and employees. Find resources to Build Your Own Competition for savings.
- Celebrate your success and recognize contributors.
 Help your customers and employees achieve savings





Treasure Maps



Treasure Map FOR SUPERMARKETS/GROCERY STORES

Grab a clipboard and take this map along on your treasure hunt. Focus on uncovering opportunities to save. When you find something, make notes about location; tools, materials, or expertise needed; or further research required. Feel free to add to or modify this list to suit your own needs.

Facility Name	Floor	Date	Team



Facility Management and Benchmarking

- Managing costs starts with knowing your baseline use, from which to track savings. Start by printing the Data Collection Worksheet for "Supermarket/Grocery" found under "Food Sales & Service" on the menu. This Worksheet will list all you need to benchmark your property in the free, online Portfolio Manager® tool for tracking energy, water and recycling/materials management.
 - ☐ Create your account at https://portfoliomanager.energystar.gov/pm/signup
 - ☐ Learn more at https://www.energystar.gov/benchmark and find

NOTES:

TIP:

- Download the ENERGY STAR Action Workbook for Small Business for more strategies, action items and ideas. Start and support an employee Green Team.
- Find resources to Build Your Own Competition for savings, celebrate your success and recognize contributors, and help your customers and employees achieve savings at home and at guests' workplaces and Bring Your Green to Work.





Treasure Maps



Treasure Map FOR CONVENIENCE STORES

Grab a clipboard and take this map along on your treasure hunt. Focus on uncovering opportunities to save. When you find something, make notes about location; tools, materials, or expertise needed; or further research required. Feel free to add to or modify this list to suit your own needs.

Facility	Name	Floor	Date	Team
	1101110			100111



Facility Management and Benchmarking

- Managing costs starts with knowing the baseline from which to track savings. Print the <u>Data Collection Worksheet for "Convenience Store"</u> <u>found under "Food Sales and Service"</u>. This Worksheet lists what you need to benchmark your property in the online Portfolio Manager® tool for tracking energy, water and recycling/materials management.
- Create your account, learn more, and find Portfolio Manager training and tech support.
- Portfolio Manager does not have a module to score Convenience Stores on the 1 -100 FNFRGY STAR® scale but is working with NACS

NOTES:

TIP:

- Enter your Zip Code in the rebate finders for ENERGY STAR® and WaterSense® labeled products to check on utility or retail vendor product rebates. Utilities may have pre-purchase application requirements.
- Download the <u>ENERGY STAR Action Workbook for</u>
 <u>Convenience Stores</u> for more strategies, action items,
 and ideas. Start and support an employee Green
 Team. Find resources to Build Your Own Competition
 for savings.





Treasure Hunts During COVID Tips



- Tips from companies that conducted treasure hunts during COVID-19
- Virtualization strategies for planning and implementing treasure hunts
- Creating on-site & off-site teams
- Deeper data analysis (aka virtual treasure hunting)
- Targeting facilities and systems

www.energystar.gov/treasurehunt



Energy Treasure Hunts During COVID-19

The global COVID-19 pandemic creates new challenges and complications for energy programs planning energy treasure husts. Safety precautions that limit access to facilities and social distancing requirements limit the teambuilding and group interactions that make treasure hunts unique. Non-normal operating and production schedules create new complications as well. Yet some organizations are finding ways to adapt their treasure hunts by:

- Utilizing virtual meeting platforms to conduct preparation activities, training, the opening presentation, team meetings, and the report out presentation;
- Using smaller teams to investigate target areas, equipment, or systems;
- ☐ Taking advantage of closed facilities to look more closely at specific systems;
- Conducting deeper remote analysis of facility energy use data, when possible; and
- Overall coordination of onsite event and report out meetings.

This tip sheet draws on insights from companies that have adapted their new methods of conducting energy treasure hunts. Every energy program will need to assess what is possible given their organizations new safety requirements. For more information and resources on energy treasure hunts, please visit is www.energystag.com/reasurehunt.



Determine Virtualization Strategy

Many of the phases and planning steps of the treasure hunt can be done remotely using virtual meeting platforms, as illustrated in the table below.

Phase	Step	Remotely	On-site
Preparation	Facility selection and scheduling		
	Identify and confirm team members	•	
	Data collection and analysis		
	Prepare detail sheets & calculators	•	
	Develop agenda and plan	•	
Pre-hunt training	Meet with team leaders	•	
	Train participants	•	
Treasure hunt event	Opening presentation	•	
	Go & see		•
	Team summaries / Detail sheet work	•	
Prioritize & follow-up	Create implementation plans	•	
	Check-ins / huddles		

Many organizations now have a preferred virtual meeting platform. It is important to understand the capabilities and limitations of the system. Additionally.

- Ensure all team members have access to, and are familiar with, your organization's virtual meeting platform
- Set up a file-sharing platform that can be accessed by all participants
- Use shorter but more frequent meetings to help keep members more engaged
- ☐ Make sure the treasure hunt facilitator has access or is invited to all team meetings and breakout session



www.anargystac.gov/transurabunt

ENERGY TREASURE HUNTS DURING COVID-19 | PAGE 1 O





Energy Treasure Hunt Campaign









Find the Treasure Campaign

GOAL:

- Raise awareness of energy efficiency savings potential
- Increase adoption of the use of "treasure hunts" particularly in the commercial building markets
- Engage new audiences and organizations
- Provide more ways for organizations to participate and earn recognition from ENERGY STAR



Find the Treasure Campaign

1. Conduct an Energy Treasure Hunt

- Organize treasure hunts
- Identify potential savings

2. Add your energy savings to the Treasure Chest!

Share your savings through an on-line form at: www.enegystar.gov/treasurehunt

Get EPA Recognition for participating

- Be featured on www.energystar.gov/treasurehunt
- Receive a printable certificate noting your contributions
- Receive EPA communications about the campaign



During an Energy Treasure Hunt, teams walk around a facility looking for quick ways to save energy. Those quick fixes can add up to big savings. Hundreds of organizations have used Energy Treasure Hunts to reduce their facilities' energy use by up to 15 percent. Are you and your crew ready to find the treasure buried within your facilities?

Resources

Find the Treasure Campaign

What others have done

Share your treasure

8,381,804.62

Potential energy savings found (MMBtu)

44.2

Potential cost savings (millions of dollars)

443,953.13

Potential emissions avoided (metric tons CO2e)



Name: Amcor Type: Pharmaceutical, food, and home-care products packaging supplier Potential Savings: 2020: 5%

More >

Colgate'

Name: Colgate-Palmolive Type: Consumer products Potential Savings: 2020: 5%; 2019: 9.6%, 3.4%, 6.8%...

More:



Name: Sherwood Cass R-VIII School District Type: High School

More >



Name: Allergan Type: Pharmaceutical manufacturing company Potential Savings: 21%, 50%

More



Name: Columbia Association Type: Property management organization Total Treasure Hunts: 2020: 1; 2019: 1

More >



Name: The Boeing Company Type: Aircraft, satellite, and telecommunications manufacturing Potential Savings: 2020: 10%; 2019: 6.3%, 7.3%, 7.4%, 10.4%, 17.9%....

More



Name: Kilroy Realty Corporation Type: Real Estate Investment Trust

Potential Savings: \$20,300

More >



Name: Lockheed Martin Type: Aerospace, defense, and advanced technologies Potential Savings: 12%, 5%, 17%, 3%, 19%, 5%

More >





Name: Nissan North America Type: Automotive manufacturing and production Potential Savings: 2.9%

More >



Name: Marathon Petroleum Corporation Type: Petroleum refining, marketing, and transportation Potential Savings: 12%

More >



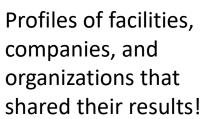
Name: General Motors Type: Automotive manufacturing and production Potential Savings: 2020: 4.0%, 5.0%, 7.0%, etc.; 2019: 10%, 9%, 18%, etc.

More >



Name: Raytheon Company Type: Defense and cybersecurity Potential Savings: 2.7%, 3%, 4.7%, 10%

More >



Profiles of organizations and companies that promoted treasure hunts coming in 2021!



Challenge for Industry



Recognition opportunity for industrial plants:

- Plants pledge to reduce energy intensity by 10% within 5 years or less.
- Any type of manufacturing plant can participate
- Reduction calculated from baseline registered with ENERGY STAR
- Sets a goal for implementing savings opportunities found during Treasure Hunts



energystar.gov/industrychallenge



Summary

Energy treasure hunts offer:

- Process to find energy saving opportunities
- Training facility staff on basic energy management skills
- Engage customers with a value-added service
- Opportunity for recognition



Questions / Comments ?

- ► Walt Tunnessen: <u>Tunnessen.Walt@epa.gov</u>
- ► Jerry Lawson: <u>Lawson.Jerry@epa.gov</u>
- <u>www.energystar.gov/treasurehunts</u>



Save the Date for the Next Webinar!

Leveraging U.S. Environmental Protection Agency's Green Power Partnership Program

Tuesday April 13, at 1 PM EST



More information will be sent through a mass mailer! Email cfs@energystar.gov to confirm you are on the distribution list!