>>> slipstream

Energy Treasure Hunts

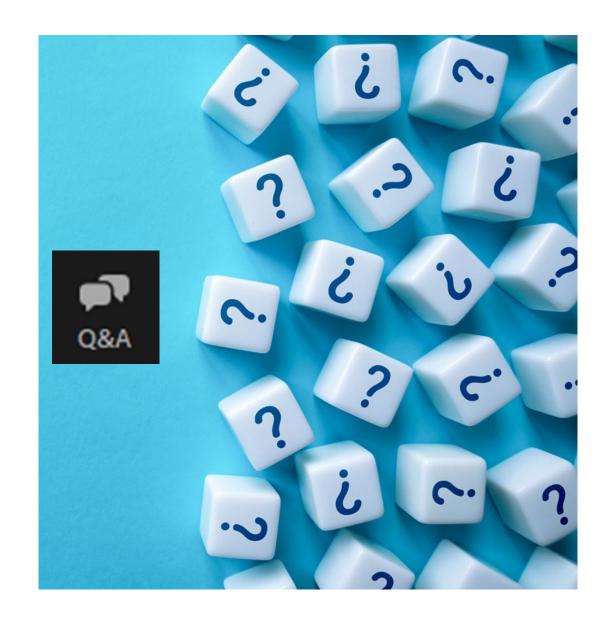






Housekeeping

- All attendees should be admitted with microphones muted
- Please ask questions in the Q & A
- Please complete the evaluation at the end of the session
- This webinar will be recorded



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ENERGY TREASURE HUNTS

Jerry Eaton Richard Feustel

WHAT IS AN ENERGY TREASURE HUNT?

- An effective tool (process) for finding no and lowcost energy savings opportunities throughout your organization.
 - Typically, a one-to-three-day event utilizing company employees.
 - Hunting and identifying energy reduction opportunities takes place during both business and non-business hours.
- 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?



Employees implement the Treasure Hunt process!

ANOTHER ENERGY AUDIT... NOPE

- An Energy Treasure Hunt differs from an energy audit and an energy assessment, both common practices in energy management.
 - Energy Audits take an in-depth look at an entire facility, focusing on major equipment modifications that usually requires <u>capital dollars</u> for implementation.
 - Energy Assessments focuses on a specific energy-using system (new chiller plant) in the facility requiring <u>capital dollars</u> for improvements.
 - Treasure Hunt focuses on improvements that often can be made immediately and with little to no cost utilizing teams of employees to identify these energy reduction opportunities.

COMPELLING BENEFITS

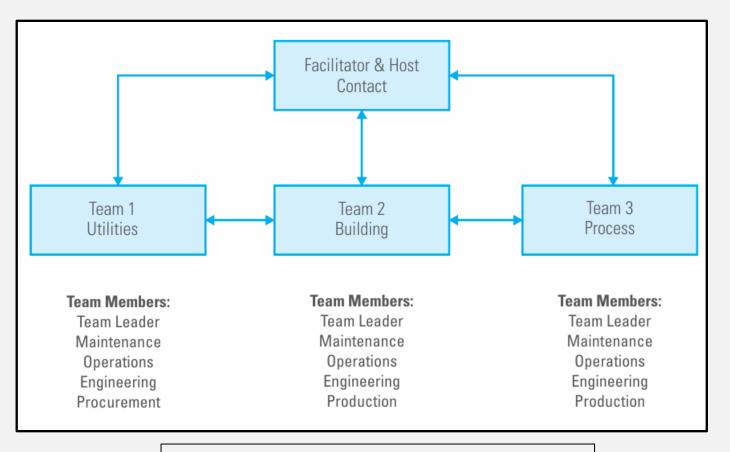
- Employee involvement and improving team skills
- Develops employees' energy knowledge
- Motivates employees to pursue energy innovations.
- Creates focus on low-cost operational improvements
- Establishes "energy culture" of continuous improvements
- Reduces overall energy use and cost
- Sparks employee ownership



ENERGY TREASURE HUNT 4-PHASE APPROACH

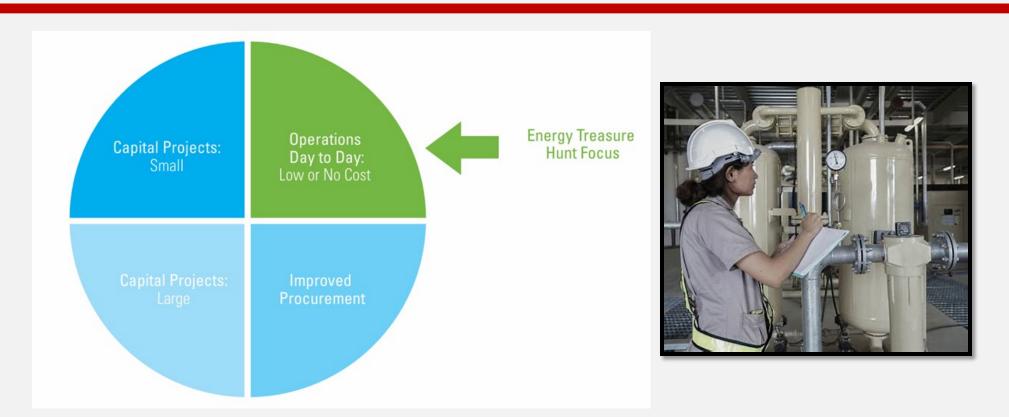
- 1. Preparation: Schedule discussions with your organizations or facility's leadership to obtain their support. Gather data on current energy usage and costs, equipment specifications, and operating parameters. Begin this phase at least six weeks before the planned onsite event. Identify team members and if outside experts are needed (vendors, utility reps, incentive program personnel, etc.)
- 2. Pre-Training: Meet with facility team leaders to confirm roles and responsibilities and Energy Treasure Hunt agenda. Pre-training should begin at least one week before the onsite event.
- **Three-day Onsite Event:** Teams identify and quantify energy-saving opportunities at an onsite three-day event. Summarize and present the results for management review.
- **4.** Follow-up: Develop a schedule for pursuing the energy reduction opportunities identified during the Energy Treasure Hunt. This should be completed one to four weeks after the onsite event

EXAMPLE OF TH TEAMS



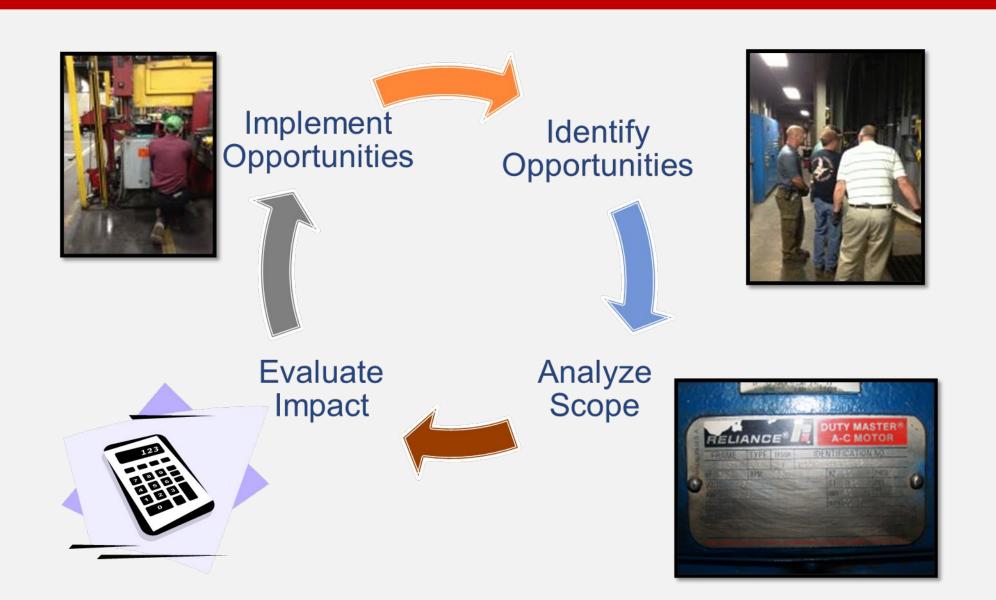
Assemble your teams (includes training)

TREASURE HUNT - FOCUS



Optimization and Reduction: Improving the operation and efficiency of existing equipment before considering equipment replacement. This is not only cost effective but also prompts employees to consistently think of the most efficient management practices.

TREASURE HUNT PROCESS



TREASURE HUNTS

- Executing small but powerful changes to reduce cost and transform employee culture to enable continuous improvements in energy efficiency.
- Cross-functional employee teams scout for energy saving opportunities within their facilities.
- The initiative can save the company thousands in energy related operational costs.
- More importantly it teaches employees how to look at their processes differently and start asking questions about energy.
- It can spark the cultural change needed to sustain energy efficiency initiatives. (safety program)

TREASURE HUNT - SAVES ENERGY & MONEY

- GE's treasure hunt team went on a 3-day search for wasted energy at a healthcare plant and identified \$3 million in savings.
- Toyota Millions (The inventor/1st initiator of Treasure Hunts and Kaizens)
- Briggs & Stratton's first-ever one-day Kaizen Hunt identified \$62,000 in savings.
- Intertape Polymer Group \$450,000
- Oshkosh Corporation's first-ever one-day Treasure
 Hunt \$40,600 in savings

LENGTH OF TREASURE HUNT

- While a 3-day treasure hunts is ideal, 2-day is good and 1-day works, the INTERACTION with the employees is the key.
- Ideally, Utilize a Non-Operational Day
 - While this does not offer much interaction, it provides a unique perspective of the companies "operations."
 - If unable to do this, collect this non-operational day data, pictures, data logging, personal experiences that can attest to "non-operational day opportunities."
- Utilize an Operational Day
 - Require interaction with attendees and "working" people
 - While you may only have 20 attending, this interaction will multiply your training efforts.

THE PARTICIPANTS

Invite employees (participates) from a variety of work areas. This will provide the interaction needed during the hunt and the sustaining support after the hunt.

This cross-functional team may include:

- Building management
- Facilities engineering
- Energy management
- Maintenance
- Operations
- Process owners (those who know what work is done how each space is really used)
- Administrative assistants/office secretaries
- Plant personnel from a variety of production departments



EMPLOYEE INTERACTION

Both attending employees and observing employees...

This interaction should be through:

- Educating attendees of the saving opportunities (classroom)
 - What to look for? How much to be saved? How will changes occur?
- Attendees meets with plant management, so attendees understand there is senior level support / buy-in for their treasure hunts efforts both at kickoff and for the "outbrief"
- Getting attendees out of their normal element (when possible)
 - Office employees should be in the groups on the plant floor
 - Plant floor employees hunting in a different area of the plant
 - Involve outsiders: Other plants, companies, similar business-type companies, utility reps, etc.

TESTIMONIAL

"I think the more intrinsic benefit of a Treasure Hunt is...

We had the opportunity to go out in the shop with people. We had to teach people who were unfamiliar with their business. We got to learn about how to ask questions about energy and that starts a culture change. That's a powerful thing."

Quote from a GE employee participating in a Treasure Hunt

HOW HUNTERS INTERACT

- Educating Attendees:
 - This should be what the Treasure Hunt leaders provide
- Educating Observers:
 - This should be what the attendees provide. Encourage attendees to ask "workers" questions as well as inform workers/observers what they are doing and why.
 Include detail when possible; such as how much they can save at the observer's workstation.
- Demonstrated buy-in for participation and the Energy Treasure Hunt process – sets the stage for the positive results that will emerge from the event.

INTERACTION OUT OF YOUR ELEMENT

- Do not be afraid to ask: WHY?
- You do not work in that area and are not expected to know. So ask! Your curiosity may be the beginning of a huge savings opportunity.
- People from the same company different plant, provide loyalty with experience... How things are done at their site. (Same management)
- People from similar business-types provide a different way of tackling the same task. (Management is different.)
- Visitors provide a specialized curiosity.

On average, a 4year-old child asks 437 questions a day.



SAMPLE 3-DAY AGENDA

Time Agenda Items Find opportunity ideas during non operation Host FAC 400 PM Team Performs Treasure Hunting Find opportunity ideas during non operation Host FAC 400 PM Agenda Items Comments / Expected Benefits Leader Supportunity Agenda Items Comments / Expected Benefits Host/FAC ALL 7.05 AM Meet in Conference Room and Welcome Statements Host/FAC ALL 7.05 AM Treasure Hunt Presentation Host Nebsites, Background and purpose Facilitator ALL 4.06 AM Agenda Items Background and purpose Facilitator ALL 8.15 AM Memory Stick Review, Past Kaizen Examples Background and purpose Facilitator ALL 8.15 AM Memory Stick Review, Past Kaizen Examples Background and purpose Facilitator ALL 9.15 AM Review current Energy Opportunities and Brainstorm Provide opportunity ideas Host/Fac ALL 12.00 PM Split into Teams for Go and See Identify good ideas in each area Team Leader ALL 12.00 PM Split into Teams for Go and See Combine ideas into a list of potential opportunities Team Leader ALL 4.00 PM Teams Summarize Questions & Opportunities, Group Review Select Items for further investigation and develop detail sheets Facilitator/TL ALL 4.30 PM Agenda Items Combine ideas into a list of potential opportunities Facilitator/TL ALL ADJOURN Teams Summarize Agenda Items Combine ideas into a list of potential opportunities Facilitator/TL ALL AJO PM Agenda Items Combine ideas into a list of potential opportunities Facilitator/TL ALL AJO PM Agenda Items Combine ideas into a list of potential opportunities Facilitator/TL ALL AJO PM Agenda Items Good PM Host Management Comments Host Management Comments Host AJL ALL ALL ALL AJL 7.30 AM Facilitator PM Agenda Items Good PM AJOUNN Host Management Comments Facilitator PM AJOUNN Facilitator PM Agenda Items Indicated Indicated PM AJOUNN Facilitator PM AJOUNN Wednesday Comments I Expected Benefits Facilitator/TL ALL AJL AJL AJL AJL AJL AJL AJL AJL AJ	Sunday Lead				
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12:00 PM	7:10 AM	Host Management Comments		Host	ALL
12:45 PM Teams Re-visit Assigned Areas and Work on Detail Sheets Develop opportunity list and possible savings Team Leader ALL 3:30 PM Reconvene in Conference Room Generate list of potential opportunities, select items for further investigation and develop detail sheets, identify top 3 further investigation and develop detail sheets, identify top 3 that Leader ALL 4:00 PM Teams Present Opportunity Summary with Top 3, Group Review Improve understanding-Provide top 3 picture and detail sheet Facilitator/TL ALL ADJOURN Wednesday Time Agenda Items Comments / Expected Benefits 7:00 AM Summarize Findings for Entire Trip Generate list of opportunities to be presented Team Leader ALL 11:00 AM Teams Present Opportunity Summary with Top 3, Group Review Improve understanding-Provide top 3 picture and detail sheet Facilitator/TL ALL 12:00 PM Summarize Findings for Entire Trip Final document for presentations Team Leader ALL 11:15 AM Provide to Facilitator all Completed Detail Sheets Final document for presentations Team Leader ALL 3:00 PM Teams Present summary to Mgrs and Upper Management Provide a List of energy opportunities to improve Facilitator/TL ALL 4:00 PM Closing Feedback Discussion Comments and opportunities to improve Facilitator ALL	7:30 AM	Team Performs Treasure Hunting During Production/Lunch/Breaks	Find opportunity ideas during operation	Team Leader	ALL
3:30 PM Reconvene in Conference Room Summarize all Findings further investigation and develop detail sheets, identify top 3 4:00 PM Teams Present Opportunity Summary with Top 3, Group Review Improve understanding-Provide top 3 picture and detail sheet Facilitator/TL ALL 4:30 PM Summarize Findings for Entire Trip Generate list of opportunities to be presented Team Leader ALL 11:00 AM Summarize Findings for Entire Trip Final document for presentations Team Leader ALL 12:45 AM Summarize Findings for Entire Trip Final document for presentations Team Leader ALL 3:00 PM Teams Present Summary to Mgrs and Upper Management Provide a List of energy opportunities to Evaluate Facilitator/TL ALL 4:00 PM Closing Feedback Discussion Comments and opportunities to improve Facilitator ALL	12:00 PM	LUNCH (Cafeteria)		Host	ALL
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4:30 PM ADJOURN	4:00 PM	Closing Feedback Discussion	Comments and opportunities to improve	Facilitator	ALL
	4:30 PM	ADJOURN			

TEAM 2-TASKS FOR TODAY

Team Member	Work Area		
Mike	Get oven data		
Sue	Discuss oven operation with supervisor/operator		
Tracy	nt imber of fluorescent light fixtures		
Нао	Geriure of rolch a namer ies		

FINISHING THE HUNT



LAST DAY - PUTTING IT ALL TOGETHER

- Last Minute Analysis & Calculations
- Finalize Opportunities List highlighting the top 3
- Finalize Top 3
- Practice Presentations
- Present to Management/Groups
- Wrap-up



POST TREASURE HUNT

Act / Prioritize

- Which ones can be implemented right away (completed/scheduled)
- Determine which projects need a second look, additional research, and/or capital dollars for implementation.

Communicate Results

 Continue momentum and interest by sharing the results from project implementations.

Repeat

- The Treasure Hunt should <u>not</u> be a one-off endeavor! (Continuous Improvement)
- Are there areas/processes that weren't covered or looked at.?
- Are there other employees that we can involve/engage?

TREASURE FOUND - MIST COLLECTION

- Treasure Hunt Team found a mist collection system running on Sunday. Why, there was NO Production?
- Action: New shutdown procedures were implemented to ensure mist collection system only operated during production hours.

Energy Savings: 337,445 kWh/yr

Cost Savings: \$30,370/yr

Payback: Immediate

TREASURE HUNTS AS A BEST PRACTICE





Treasure Hunts strike a positive, optimistic tone, by focusing on bringing new perspectives to a facility and identifying quick fixes with a short payback period.

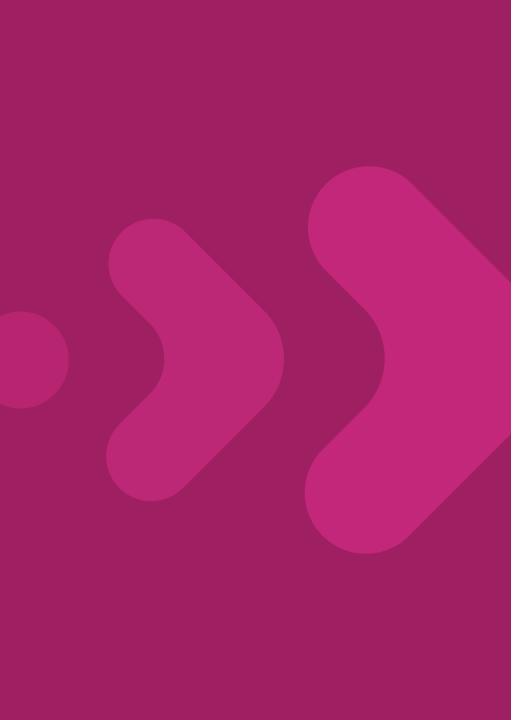




A VIABLE TOOL FOR YOUR BUSINESS?

JERRY EATON JERRYEATON1@OUTLOOK.COM

RICHARD FEUSTEL RICHARDFEUSTEL@GMAIL.COM



Question & Answer Time





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