



Engaging Employees in Energy Reduction with Treasure Hunts

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Presenters and Moderator

- Paul Lemar, Jr
 - Oak Ridge National Laboratory
- Brion Hurley
 - Business Performance Improvement
- Justin Devoe
 - Casey's



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Collins Aerospace (formerly Rockwell Collins)

- Strong background in Lean principles (program started in 1997)
- Established carbon reduction goals in 2009
- Energy Treasure Hunts (Go and See) pilot was conducted in the circuit board shop (largest user, leadership, isolation), \$60,000 in opportunities
- Program expanded to 6 events over 2 years in four different facilities
- Identified over \$200,000 in opportunities, trained 50 employees

Table 2. Actions and estimated cost saving.

Actions	Cost saving per year
Shut off high pressure compressed air on third shift and weekends	\$35,000.00
Shut off one air scrubber	13,000.00
Shut off central vacuum on third shift during the week	6,500.00
Fix all air leaks	5,000.00
Install motion sensors in restrooms and conference rooms	745.00



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Better Buildings Challenge Swap



<https://www.youtube.com/watch?v=hY7pMaQZaDE> (3 mins)



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Better Buildings Challenge Swap

- Breakdown of 3-day challenge, based on Season 1 Swap between Hilton and Whole Foods (4-part video series)
 - The teams spent the first day and a half doing a full examination of the systems at Whole Foods Market.
 - They repeated the same activity at Hilton Union Square. (video #1 and #2)
 - The walk-throughs at each property reviewed everything from lighting, HVAC, and energy management systems, to customer and employee engagement.
 - They also included a “night walk” in each facility to uncover additional energy saving opportunities when operations are slowed down for the evening. (video #4)
 - Then at the end of Day 3, there was a “SWAP unveil” where each team discussed their SWAP observations and recommendations to their counterparts. (video #3)

<https://betterbuildingssolutioncenter.energy.gov/swap>



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Resources

- Better Climate Challenge: <https://betterbuildingssolutioncenter.energy.gov/climate-challenge>
- Better Buildings Challenge: <https://betterbuildingssolutioncenter.energy.gov/challenge>
- Energy Treasure Hunts
 - Energy Star: https://www.energystar.gov/industrial_plants/treasure_hunt
 - Better Buildings Energy Treasure Hunt Training: <https://bit.ly/energy-treasure-hunts>
- Energy Challenge SWAP page
 - About: <https://betterbuildingssolutioncenter.energy.gov/swap>
 - FAQ: <https://betterbuildingssolutioncenter.energy.gov/swap/better-buildings-challenge-swap-frequently-asked-questions>
- Case studies at Rockwell Collins
 - <https://www.tandfonline.com/doi/abs/10.1080/09537287.2018.1501808>
 - https://www.brionhurley.com/wp-content/uploads/2016/12/Continuously-improving-sustainability_IIE_Sept2014_PDFversion.pdf



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Questions?



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About me



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