



**Better
Buildings**[®]
U.S. DEPARTMENT OF ENERGY

Hospitality Break-out Session

Monday, May 9th, 2:00 – 3:15 PM

Room: Holmead West

Level: Lobby

Agenda

- 2:00 Welcome & Introductions
- 2:15 Sector Priorities Discussion
- 2:30 Partner Highlights
- 2:55 Program Updates, New Resources & Activities
- 3:15 Adjourn

Welcome & Introductions

Better Buildings Team Members:



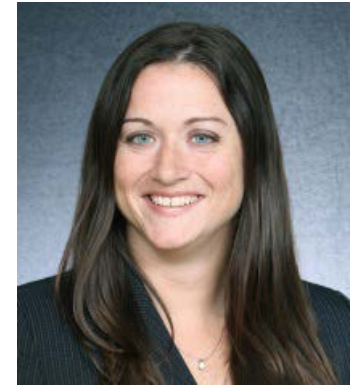
Holly Carr
DOE
Partnerships



Andy Mitchell
DOE
Tech Team and
Hospitality Lead



Samantha Stafford
JDM
Hospitality
Account Manager



Erin Richmond
JDM
Hospitality Subject
Matter Expert

Hospitality Partner Introductions

- Share:
 - Your Name
 - Your Organization
 - Your Role
 - What you wish you/your team could achieve in energy and/or water efficiency at your organization if given the opportunity

Steering Committee Members (2015-2017)

- Ray Hobbs, Kelco Hotels (Co-Chair)
- Chris Magee, MGM Resorts International, (Co-Chair)
- Randy Gaines, Hilton Worldwide
- Bob Holesko, The Kessler Collection
- Pat Maher, AH&LA
- Samantha Sorrin, Saunders Hotel Group
- Faith Taylor, Wyndham Worldwide

Thank you!

New nominations open at the
2017 Better Buildings Summit

Sector Priorities Discussion

Sector Priorities

- Priority 1: Evaluating offerings for building controls/analytics/EMIS and managing EMIS
 - **Resource:** [Primer on Organizational Use of EMIS](#)
 - **Webinar:** [Cutting Edge Building Technologies](#) (Building IQ Tech Demo)
 - **Summit Session:** From Numbers to Action: Using EMIS to Detect Problems and Fix Them, Tuesday, 2:00-3:15pm
 - **Upcoming:** ASHRAE Guideline 36 *High Performance Sequences of Operation for HVAC Systems* (out for public review in Q2 2016)
 - **In development:** Peer exchange on efficiency software for EMIS

Sector Priorities

- **Priority 2: Hospitality Industry Benchmarking**
 - **EPA ENERGY STAR Portfolio Manager:**
 - EPA is analyzing CBECS data to develop an updated Hotel score for Portfolio Manager.
 - AH&LA is hosting the AH&LA Hotel Energy Survey to collect additional space characteristic data for EPA to evaluate to identify other potential energy drivers.
 - AH&LA Hotel Energy Survey expected to be released in mid-May 2016. All responses are welcome!
 - **DOE Buildings Performance Database:** Largest database of energy-related characteristics of commercial and residential buildings that can be used for evaluation and comparison. <http://energy.gov/eere/buildings/building-performance-database>

Sector Priorities

- Priority 3: Evaluating and financing solar PV at hospitality properties
 - **Guide:** [On-Site Commercial Solar PV Decision Guide for the Hospitality Sector](#)
 - **Case Studies:**
 - [Installing Carport Solar Array](#) (see Presentation)
 - [Installing Hotel Rooftop Solar Array](#)
 - [Installing Ground-Mounted Solar Array](#)
 - **Presentation:** [Renewable Integration Tech Team/ Hospitality Team Call \(11/10/15\)](#) reviewed Solar PV Decision Guide, case studies, and hosted team profiled in the Carport Solar Array case study

Partner Highlights & Open Floor Discussion

Partner Highlights & Open Floor Discussion

- **Hilton Worldwide:** What was it like behind the scenes for SWAP?
- **IHG:** What have you learned since launching your portfolio-wide water stewardship plan in regards to value and best practices?
- **AH&LA:** What do Better Buildings partners need to know about the AH&LA Hotel Energy Survey and how can they participate?
- **Showcase Tours:** Did you attend? What did you learn?

Open Floor Discussion

- New market trends?
- Utility engagement?
- New technologies?
- What is the next big thing?
- How have you been engaging staff, guests, franchisees, others?
- How have you been funding energy and water efficiency projects?

Seeking Another Conference for 2016

- The Lodging Conference, 9/26 Phoenix, 1700 attendees.
- Cornell University School of Hotel Administration professional development programs.
- Hotel Data Conference, 9/6-8 Nashville, appears to span all sorts of data related issues, why not energy?

Program Updates

Better Buildings 2015 Snapshot

Better Buildings Challenge Snapshot, 2015

Partnership	
Number of Partners and Allies	310+
Square Feet Represented	4.2 billion
New Partners in the past year	60+
Solutions	
Partner Solutions Available for Replication	400+
Results	
Energy Saved (Btus)	161 trillion
Dollars Saved	\$1.3 billion
Avoided CO ₂ e emissions (tons)	10.1 million
Funding Committed/Placed	\$5.5 billion / \$5.4 billion
Water Savings (gallons)	2.1 billion

Better Buildings Alliance Snapshot, 2015

Partnership	
Number of Member Organizations	202
Square Feet Represented	11+ billion
Percent of U.S. Commercial Buildings	13%
New Partners and Affiliates	19
New Resources Developed	
Business partners, technology and procurement specifications, user guides, rebate resources and case studies	40+

[Review the Better Buildings Alliance 2016 Winter Progress Update!](#)

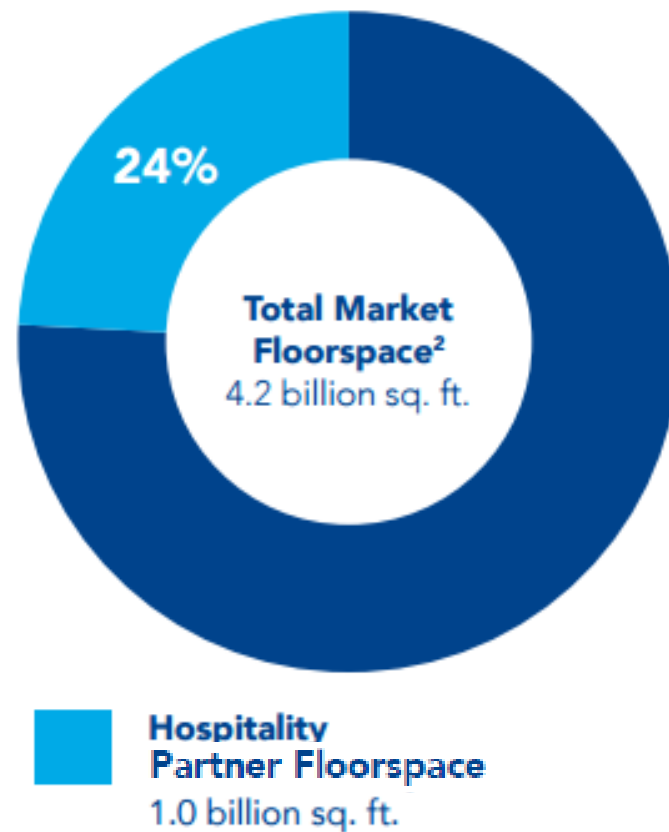
BBA Sector Snapshot

Membership

- HEI Hotels & Resorts*
- Hilton Worldwide*
- Hyatt Hotels Corporation
- IHG (InterContinental Hotels Group)*
- Kelco Management & Development
- The Kessler Collection
- Las Vegas Sands*
- Marriott International
- MGM Resorts International*
- Saunders Hotel Group*
- The Walt Disney Co.
- Wyndham Worldwide*

***Challenge Partner!**

Hospitality Members as a Percent of Market Floorspace



New BBA Partners since May 2015



New BBC Commercial Partners Since May 2015



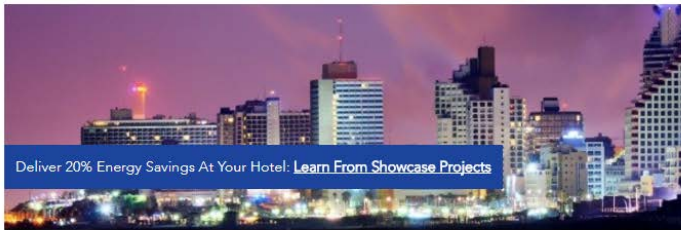
General Program Updates

- **Listen** to the [Downstream Savings: From Water Efficiency to Energy Savings](#) webinar with Maury Wolfe from Intercontinental Hotels Group (IHG)
- **Check out** the [Fab Four Energy Buddy Program & Checklists](#) from HEI Hotels & Resorts
- **View** the [Renewables Integration & Hospitality Team Meeting](#) Solar PV Guide Review and Case Study Deep Dive
- **Watch** the [Better Buildings Challenge SWAP](#)

New Webpage!



The Hospitality sector includes more than 4 billion square feet of floor area nationally, encompassing nearly 5 million guest rooms. Hospitality partners represent 1 billion square feet, or 24% of the hospitality sector's total market floorspace. Every year, the hospitality sector spends more than \$7 billion on energy. If every hospitality property in the US reduced energy cost by just 10%, the sector would save \$730 million annually.



Highlighted Sector Activities

View select opportunities available to Alliance partners. Sign up for a technology campaign, engage in peer-exchange call with experts, or adopt another partner's proven solution.

[Take Action](#)

Events Calendar

Better Buildings partners participate in webinars, peer-exchange calls, meetings, and industry workshops and conferences. Browse upcoming events and opportunities to participate by month.

[Get Involved](#)

Featured Solutions



[Hospitality Energy Resources and Tools](#) Fact Sheet

This factsheet features Better Buildings resources, tools, and programs designed to help the hospitality sector improve the energy efficiency of their buildings and facilities, including hotels, motels, and inns.

[View Related Solutions](#)



[Chasing Quarters With Energy Set-Points](#) Implementation Model

HEI devised an energy management tracking tool to overcome a lack of centralized information on energy and other key data at their hotel properties.

[View Related Solutions](#)



[Wyndham Vacation Ownership Green Certification Program](#) Implementation Model

Wyndham developed a timeshare-focused green certification program driven by strict adherence to quality assurance as a formal process for improving energy efficiency and implementing sustainable practices.

[View Related Solutions](#)



[Green Engage](#) Implementation Model

IHG developed a comprehensive online sustainability management system to manage hotel energy, water, and waste reduction efforts in a global, franchised business environment.

[View Related Solutions](#)



[Retrofits for Multiload Commercial Washers](#) Case Study

DOE funded an evaluation of both: a wastewater recycle system at the Grand Hyatt Seattle and evaluations of ozone systems at the Charleston Place Hotel and the Rogerson House Assisted Living Facility.

[View Related Solutions](#)

Other Resources

Technology Team Update

- **New Resources Relevant to Sector:**
 - [Solar Integration Case Studies for Hospitality](#)
 - [A Primer on Organizational Use of EMIS](#)
 - [Business Case for Proactive Advanced RTU Replacement](#)
 - [Decision Guides for Plug and Process Load Controls](#)
- **LEEP Campaign**
 - Awards to be presented at Greenbuild conference in October
 - New Hospitality sub-sector award!
- **Interior Lighting Campaign (ILC)**
 - Awards to be presented at BOMA national conference in June
- **Advanced Roof-top Unit (ARC) Campaign**
 - Awards presented at PRSM national conference in April

NEW! Smart Energy Analytics Campaign

The Smart Energy Analytics Campaign promotes the adoption of analytics software and ongoing monitoring.

Join the Campaign to receive

- Energy Management and Information Systems (EMIS) best practice resources and technical support
- Peer-to-peer learning network focusing on EMIS technology topic areas
- Recognition for exemplary performance

What does Campaign Participation look like?

- Participants pledge to install or use existing EMIS to analyze data and identify energy-saving improvements

www.smart-energy-analytics.org

Campaign is delivered in partnership with



Superior Energy Performance® (SEP™)

SEP is a DOE certification program that verifies energy management excellence and sustained energy savings.

SEP is ISO 50001 plus:

- **Deeper, sustained savings at less cost** through robust tracking and measurement with advanced tools
- **Credible, third-party verification** by ANSI-ANAB accredited entity that market can reward supply chains, utilities, and carbon trading
- **National recognition** by U.S. DOE identifying sustainability leaders



iStock photo: 16418416

SEP Certification



ISO 50001 certification



Verified energy performance improvement

SEP Hospitality Pilot

Objective:

Accelerate energy and cost savings and reduce GHG emissions in the hospitality sector through energy management training to implement ISO 50001 standards and Superior Energy Performance (SEP).

Pilot Program Approach

- **Hospitality Cohort**
 - Select 2-3 large companies with 2-3 sites participating (up to 6 sites total in pilot)
 - Maximum of 30 trainees
- **Three 2.5-day training sessions + coaching*** (June 2016-Nov 2017)
 - Training and coaching offered by EnMS experts;
 - Other costs borne by the company:
 - Travel costs for trainees attending cohort training
 - Implementation cost
 - ISO 50001 and SEP certification cost, estimate \$10K-20K
- **Disseminate success and exchange best practices and benchmarking**
 - Case studies for selected companies
 - Peer-learning networks

Resources Offered

Three 2.5-day workshops over 18 months: Training workshops to implement ISO 50001 and meet criteria for Superior Energy Performance® for up to three facilities and one-on-one monthly company coaching provided by certified energy consultants to one facility.

1. PLAN: First workshop defines key elements of planning:

- Understand facility's current energy management environment
- Develop energy policy and set organizational goals to adhere to it
- Establish a baseline of energy consumption
- Set performance indicators and review processes

2. DO: Second workshop focuses on successful tactical implementation:

- Use baselines to set targets and implement action plans
- Build energy awareness through the organization
- Advance energy management system competencies through training

3. CHECK/ACT: Third workshop measures your improvement curve:

- Use performance indicators to measure success
- Create corrective and preventive action processes
- Prioritize objectives

Resources Offered

Assigned coaching teams

Each partner company will be assigned an experienced EnMS coaching team for one of its facilities.

Monthly online training webinars and coaching calls

In addition to the three multi-day training workshops, training webinars and coaching calls with each Partner's implementation

Implementation tools

Topic-specific ISO 50001 implementation tools and related resources will be introduced in the face-to-face group training workshops for each phase and in the monthly webinars.

Defined deliverables (including homework)

A *Deliverables and Events Schedule* will guide the team activities in each phase of the EnMS implementation process.

Readiness Review

After the EnMS has been fully implemented and in operation for 30 to 60 days, an experienced audit team will conduct a "Readiness Review" of the entire EnMS.

Selection Criteria for Partner Companies

- Senior-level commitment to energy management and energy performance improvement
- Experience with energy management systems
- Desire to pursue ISO 50001 or Superior Energy Performance® certification
- Willingness to expand ISO 50001/SEP implementation to other buildings
- Interested companies can apply through your Better Buildings contact

Summit Sessions of Interest

- **How Can Brands Partners with Owners on Efficiency?**
 - Monday, May 9th – 3:45 to 5:00pm
 - Laura Troise, HEI Hotels & Resorts
- **The Business Value of Superior Energy Performance**
 - Tuesday, May 10th – 11:15am to 12:30pm
 - Maxime Verstraete, Hilton Worldwide
- **Looking Inside for Better Lighting Solutions**
 - Tuesday, May 10th – 2:00 to 3:15pm
 - Pranav Jampani, Las Vegas Sands

TONIGHT! Sector Networking Event

TONIGHT!

5:30pm

Roofers Union

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Washington, DC 20009

Thank you!

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