

Retail, Food Service & Grocery Breakout Session

Monday, May 9th from 2:00 - 3:15 PM

Room: Columbia 09

Level: Terrace



Agenda

| 2:00 | Welcome & Introductions |
|------|---|
| 2:30 | Program Updates, New Resources & Activities |
| 2:45 | Sessions of Interest & Dinner |
| 2:50 | Sector Priorities |
| 2:55 | Partner Highlights: Havertys, Arby's |
| 3:05 | Group Discussion |





Welcome & Introductions



Holly Carr DOE, Partnerships, Retail Sector Lead



Zach AbramsICF, Retail Sector
Account Manager



Sara Lisauskas ICF, Retail Expert



Sultan Latif DOE, Food Service & Grocery Sector Lead



Nyla Khan ICF, Food Service & Grocery Sector Account Manager



Adam Spitz
ICF, Food Service
Expert





"Wish I Could"

For everyone:
 Please share your name and organization.

For building owners/ managers:

What efficiency measure do you wish you could implement?





Steering Committee Members (2014-2016)

- Kyle Wilkes JCPenney Chair
- Bill Balsamo Luxottica North America
- Mike Ellinger Whole Foods Market
- Pat Hagan Wawa
- David Harpring Yum! Brands
- Erin Hiatt Retail Industry Leaders Association (RILA)
- Frank Inoa Arby's
- David Oshinski The Home Depot, Inc.
- James P. McClendon Walmart Stores, Inc.
- Juliann Rogers CKE Restaurants
- Bob Valair Staples

2016-2018
Steering Committee
Nominations
can be submitted to
by June 15th

Program Updates



Better Buildings 2015 Snapshot

Better Buildings Challenge

| 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 C02e emissions (tons) | 10.1 million | |
| Funding Committed/Placed | \$5.5 billion / \$5.4 billion | |
| Water Savings (gallons) | 2.1 billion | |

Better Buildings Alliance

| Membership | |
|--|-------------|
| Number of Member Organizations | 202 |
| Square Feet Represented | 11+ billion |
| Percent of U.S. Commercial Buildings | 13% |
| New Partners and Affiliates in 2015 | 19 |
| New Resources Developed | |
| Business partners, technology and procurement specifications, user guides, rebate resources and case studies | 40+ |

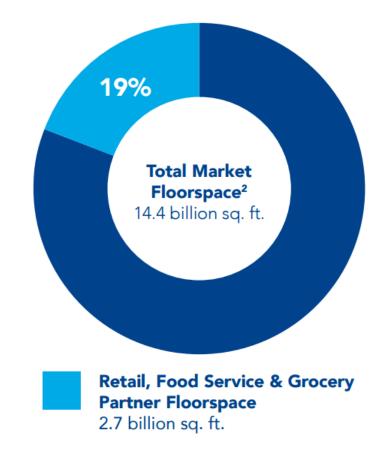




BBA Sector Snapshot

48 partners
who own or manage
2.7 billion
square feet
of commercial space

Retail, Food Service & Grocery Members as a Percent of Market Floorspace







New BBA Members in 2015







CAFE · PIES







BREAKTHROUGHS FOR LIFE'































New BBC Commercial Partners in 2015

































General Program Updates

- Annual Progress Update Reports
 - Better Buildings Alliance <u>2016 Winter Progress Update</u>
 - Better Building Challenge 2016 Progress Update
- New Better Buildings Challenge Implementation Models
 - RILA Retail Energy Management Program
 - adidas Group GreenENERGY Fund Invests \$5.5 Million in Energy
 Efficiency and Renewable Energy since 2012
 - Landlord-Retailer PPA
 - Havertys: Building Internal Support for Energy Efficiency Projects
- Retail, Food Service & Grocery LinkedIn Group
- Better Buildings Challenge SWAP





Technology Team Update

- New Resources Relevant to Sector:
 - Business Case for Proactive Advanced RTU Replacement
 - Decision Guides for Plug and Process Load Controls
 - Energy Management Systems (EMS) for Food Service Applications
 - Case Study: Implementing Solar Leased Retail Building
 - Green Leasing: Retail RTU Lease Language
- Interior Lighting Campaign (ILC)
 - Awards to be presented at BOMA national conference in June
- LEEP Campaign
 - Awards to be presented at Greenbuild conference in October
- Advanced Roof-top Unit (ARC) Campaign
 - Awards presented at PRSM national conference in April





Market Solutions Update

- Apply for Green Lease Leaders by May 18th! www.greenleaseleaders.com
- Financial Data Working Group
 - Objective: Catalyze further research on the relationship between sustainability, building performance, and financial returns
- Appraisal Working Group
 - Objective: Increase awareness, promote the exchange of information, and improve practices, Evaluate challenges and potential interventions in appraisal process, Develop resources to reduce barriers





Retail RTU Lease Language – Efficiency Considerations

- RTU Usage and Operations:
 Determination of tenant space usage, hours of operation, metering and sub-metering, temperature, humidity, ventilation requirements, and energy performance
- RTU Repairs, Maintenance, and Retrofits: Payment and responsibility for ongoing regular maintenance and repairs, as well as for advanced controls retrofit of existing units
- RTU Capital Replacement:
 Payment and responsibility for new equipment, when to replace early vs. upon failure, and who decides what efficiency level of replacement unit







Retail RTU Lease Language – Barriers to Address

- Landlord/Tenant Split Incentive
- RTU Service Book Life Compared to RTU Efficiency Service Life
- Recouping Costs for RTU Replacement
- Addressing RTUs at Time of Lease Start
- Enforcing Lease Provisions
- Sequencing Lease Language Finalization and TI Design Finalization





Retail RTU Lease Language – Solutions via Lease Clauses

- Monitoring Energy Consumption
- Determination of RTU End-Of-Useful-Service-Life
- Assigning Replacement Responsibility
- Cost-Share/ Cost-Pass-Through for RTU Capital Repairs
- Acquisition of New RTUs upon Lease Start
- Setting Efficiency Specifications for New Units
- RTU Usage and Operation

- Quality of Maintenance and Frequency of Inspections
- Improvements to RTU Efficiency Mid-Life
- Engineer Verification
- Fit-Out RTU Documentation
- Tenant Space Commissioning
- Aligning monetary incentives for RTU expenses with the investing party
- Communication and Flexibility between Brokers and Designers





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:

















New Webpage!













Alliance Home

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About

Better Buildings Initiative » Better Buildings Alliance » Retail, Food Service & Grocery

Sector: Retail, Food Service & Grocery



The Retail, Food Service and Grocery sectors spend over \$41 billion on energy costs a year, and represent 14 billion square feet of floorspace in the U.S. Collectively, Better Buildings Alliance sector members account for almost 3 billion square feet of building space, or 19% of retail floor space nationwide. Through their engagement with the program, these organizations share tips and strategies for overcoming energy efficiency barriers and meeting their organization's energy use reduction goals.





Summit Sessions of Interest & Networking Dinner



Summit Sessions of Interest

- Energy to Finance: Understanding the CFO & Translating Metrics
 - Workshop with Affiliate RILA
 - Part 1 Wednesday May 11th 9:45 to 11:00 AM
 - Part 2 Wednesday May 11th 11:15 AM to 12:30 PM
- Cleanup on Energy Savings on Aisle 7! Saving Energy in Supermarket Design and Operation
 - ASHRAE, Southeastern Grocers, Whole Foods Market
 - Monday, May 9th 3:45 to 5:00 PM
- How Can Brands Partner with Owners on Efficiency?
 - Wendy's, HEI Hotels & Resorts
 - Monday, May 9th 3:45 to 5:00 PM





Summit Sessions of Interest (continued)

- It's a Solar Panel!: Tenants and Owners Working Together to Get Solar on the Roof, Reduce Energy Costs
 - Kilroy Realty, Regency Centers, TJ Maxx
 - Monday, May 9th 3:45 to 5:00 PM
- Refrigeration Systems: How Smart is Yours?
 - Danfoss, Emerson Climate Technologies
 - Tuesday, May 10th 9:45 to 11:00 AM
- Making the Cut: Slicing Through Food Service Energy Costs with Cutting-Edge Technologies
 - ECOVA, Powerhouse Dynamics, The Food Service Technology Center
 - Tuesday, May 10th 11:15 AM to 12:30 PM
- Are You Forgetting About Rooftop Units? Efficiency for Packaged HVAC
 - Starbucks, Walmart
 - Wednesday, May 11th 2:00 to 3:15 PM





TONIGHT! Sector Networking Event

Monday, May 9th at 5:00 PM

Bistro Du Coin

1738 Connecticut Ave NW, Washington, DC 20009





Sector Priorities Discussion



Sector Priorities

- Priority 1: Green leasing for small box retail and restaurants in collaboration with RILA and ARC
 - Activity: Created RTU lease language document for the retail sector with example clauses, currently under review.
- Priority 2: Analysis Paralysis Making data actionable, what to do with the data retailers collect
 - Activity: Summit sessions, followed by a summer peer networking call on EMIS success stories
- Priority 3: Partnering with your utility on customized incentives/Technology Performance Exchange (TPex)
 - Activity: Seeking feedback on what would be most useful as an activity.





Partner Highlights



2016 RTU Efficiency Leaders









Congratulations to Better Buildings RTU Efficiency Leaders of the Advanced RTU Campaign





Sector Goal Achievers



HAVERTYS







Congratulations to Better Buildings
Challenge goal achievers





Partner Highlight: Havertys Furniture

HAVERTYS FURNITURE®



PROGRESS

22%



Cumulative (vs. Baseline)

CHALLENGE COMMITMENT

5.1

Million Square Feet





Havertys Playbook: Buy-in + Bright Inspirations

HAVERTYS



- Secure buy-in across organization
- Fold EE into store image upgrades
- Combine lighting/ RTU retrofits huge \$
- Havertys Showcase
- Havertys Implementation Model
- Havertys Better Buildings Challenge video





Havertys Virginia Beach Showroom

SECTOR TYPE

Commercial

LOCATION

Virginia Beach, Virginia

PROJECT SIZE

59,000 Square Feet

FINANCIAL OVERVIEW

Project Cost: \$394,000

Annual Energy Use

Baseline (2012)

Actual (2013)

172 kBtu/sq.ft

96 kBtu/sq.ft

Energy Savings:

44%

Annual Energy Cost

Baseline (2012)

1.0

Actual (2013)

.66

Cost Savings:

44%









Partner Highlight: Arby's





PROGRESS

24%



Cumulative (vs. Baseline)

CHALLENGE COMMITMENT

2.7

Million Square Feet





Arby's Recipe for Success





- Retrofit of existing store, will save 38% energy
- Exterior lighting alone saves \$2500/ yr
- LEEP campaign participant
- Arby's Showcase
- Key resource: <u>Exterior</u> <u>lighting specification</u>





Arby's 1751 Howell Mill Road

SECTOR TYPE

Commercial

LOCATION

Atlanta, Georgia

PROJECT SIZE

3,200 Square Feet

FINANCIAL OVERVIEW

Project Cost: \$80,000

Annual Energy Use

Baseline (2011)

Estimated (2015)

Actual

28 kBtu / transaction

18 kBtu / transaction

transaction

Coming Soon

Energy Savings:

38%

Annual Energy Cost

Baseline (2011)

Estimated (2015)

Actual

\$36,200

\$26,200

Coming Soon

Cost Savings:

\$10,000









Group Discussion



Thank You

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Appendix: Rooftop Units (RTUs)

- RTUs cool 60% of commercial building floor space nationwide
- State of the art RTUs are up to 50% more efficient than RTUs available ten years before
- RTUs can last up to 15-20 years depending on climate conditions, but lose ~1% efficiency annually







Appendix: Rooftop Units (RTUs)

Business Case for Proactive RTU Replacement





