

## HVAC&R/Controls Supplier Summit: *Sustaining Our Future By Rebuilding Our Past*

Thursday, January 28, 2010 • The Rosen Shingle Creek Hotel • Orlando, FL

Please note that the agenda, including times and room assignments, may change. Any updates will be sent to all registrants.  
Please check [www.ashrae.org/suppliersummit](http://www.ashrae.org/suppliersummit) for updates.

<b>8:00-8:30</b>	<b>Registration and Coffee</b>	
<b>8:30-10:15</b>	<b>Plenary Session I</b>	
	Introduction:	Doug Brookman, Public Solutions
	Welcome:	Gordon Holness, ASHRAE President
	DOE's Commercial Building Energy Alliances (CBEAs):	Dru Crawley, DOE
	<i>The CBEAs are supporting a wide variety of retrofit and new construction projects in each alliance sector (e.g., retail, commercial real estate, and hospitals) in a time of increasing competition for and expectations of energy-efficient technology. Crawley, the leader of the Net-Zero Energy Commercial Building Initiative, will address the anticipated advancements in HVAC&amp;R and control systems over the next 10 to 20 years and will detail federal incentives, such as funding opportunities through the American Reinvestment and Recovery Act.</i>	
	Overview of Challenges Faced by Sector:	Doug Brookman
	<i>Brief presentations will be made by representatives from each of the four alliances, including case studies and expectations on getting to net-zero energy buildings—what do the alliance members need?</i>	
	• Retailer:	Kathy Loftus, Whole Foods Market Jim McClendon, Walmart
	• Commercial Real Estate:	Kevin Kampschroer, GSA
	• Hospital:	Jerry Arndt, Gundersen Lutheran
<b>10:15-10:40</b>	<b>Coffee Break</b>	

10:45-11:45

## Concurrent Breakout Sessions

*1 facilitator and 2–4 panelists per breakout*

Breakout sessions will begin with a brief overview and proceed to an open dialogue between alliance members and suppliers.

BREAKOUT SESSION	PANELISTS
<p><b>HVAC</b></p> <ul style="list-style-type: none"> <li>• Thermal comfort</li> <li>• Envelope</li> <li>• Waste Heat Opportunities</li> <li>• VFDs...everywhere</li> <li>• Dynamic reset...no cost, easy savings</li> <li>• Economizers: More harm than good?</li> <li>• Deferred maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• David Oshinski, The Home Depot (Leader)</li> <li>• Scott Williams, Target</li> <li>• Kevin Kampschroer, GSA</li> <li>• Neal Sivie, JCPenney</li> </ul>
<p><b>Refrigeration</b></p> <ul style="list-style-type: none"> <li>• Combining HVAC and refrigeration; integrating waste heat for optimum return</li> <li>• Thermal comfort; correct cold aisle and save energy</li> <li>• Secondary loops; LCGWP: The real game changer</li> <li>• Real CO<sub>2</sub> systems in action: What have we learned?</li> <li>• Secondary Systems: Does this change the alternative refrigerant issue?</li> <li>• Phase out of refrigerants</li> </ul>	<ul style="list-style-type: none"> <li>• Dave Harpring, Yum! Brands (Leader)</li> <li>• Neil Monson, Target</li> <li>• Jim McClendon, Walmart</li> </ul>
<p><b>Whole (Integrated) Building Design</b></p> <ul style="list-style-type: none"> <li>• Building energy modeling: The basic starting point; defining the boundaries</li> <li>• Daylighting: It's not an architectural element</li> <li>• Entry Vestibules: A multi-discipline requirement</li> <li>• LED: Truly an integrated design solution</li> <li>• Enterprise Energy and Maintenance Management Systems (Central Operations Center)</li> </ul>	<ul style="list-style-type: none"> <li>• Kathy Loftus, Whole Foods Market (Leader)</li> <li>• John Millard, Macy's</li> <li>• Corey Zarecki, Gundersen Lutheran</li> </ul>
<p><b>Measurement &amp; Verification:</b></p> <ul style="list-style-type: none"> <li>• Energy metering: Systems, approaches, diagnostics—the value proposition</li> <li>• Getting the most out of your EMS: Data rich &amp; information poor</li> <li>• "Ongoing Commissioning"</li> <li>• Analyzing your utility bill—the poor man's M&amp;V system</li> </ul>	<ul style="list-style-type: none"> <li>• Rob Keller, JCPenney (Leader)</li> <li>• Chris Longchamps, Partners Healthcare</li> <li>• Carlos Santamaria, Glenborough</li> <li>• Derek Johnson, Bank of America</li> </ul>

11:45-12:45

## Concurrent Breakout Sessions (repeat sessions from above)

12:45-1:45

## Lunch

**1:45-3:15**

**Speed-Dating**

*There will be approximately ten 5-minute one-on-one interviews between CBEA members and suppliers; a 2-minute transition time between dates; and a 15-minute break in the middle. Speed-dating sign-up will begin in early January.*

**2:45-3:30**

**Open Coffee Break**

**3:30-4:30**

**Plenary Session II**

Facilitator:

Doug Brookman

Zero-Energy Commercial Building Consortium

CBEA Project Reports

- Technology Identification and Screening:
- Unitary Air Condition Units Working Group:

Dave Hunt, PNNL

Dave Hunt

Summary; Q&A; Path Forward:

Doug Brookman

*Questions will be solicited in advance (on forms provided). The cut-off for submitting questions will be before speed-dating starts.*

Closing:

Dru Crawley

**4:30-5:30**

**Reception**

## Commercial Building Energy Alliances

### *Retailer Energy Alliance*

#### *Retailers:*

A&P  
 Army & Air Force Exchange Service  
 Applebee's (Thomas and King franchisee)  
 Arby's/Wendy's  
 Bank of America  
 Belk  
 Best Buy \*  
 BJ's Wholesale Club, Inc.  
 Boston Market  
 Chipotle  
 CKE Restaurants (Carl's Jr./Hardee's)  
 Costco  
 Crate and Barrel  
 Food Lion \*  
 JCPenney \*  
 John Deere  
 Kohl's \*  
 Lamey-Wellehan Shoes  
 Lowe's \*  
 Macy's  
 McDonald's \*  
 Panda Restaurants  
 Petco  
 ProLogis  
 Publix  
 Rutter's Holdings, Inc.  
 Safeway  
 Sears  
 Sonic Drive-In  
 Staples \*  
 SUPERVALU  
 Target \*  
 The Home Depot \*  
 The Stop and Shop Supermarket Co., LLC  
 Toyota  
 Walmart \*  
 Wawa  
 Whole Foods Market \*  
 Yum! Brands (A&W, KFC, Long John Silver's, Pizza Hut, and Taco Bell) \*

#### *Associations:*

ASHRAE \*  
 IES \*  
 IFMA  
 National Association of Convenience Stores  
 Retail Industry Leaders Association  
 United Foodservice Purchasing Co-op

### *Commercial Real Estate Energy Alliance*

#### *Building Owners and Operators:*

AtSite  
 Bank of America  
 Big Rock Partners, LLC  
 Calvert  
 CB Richard Ellis \*  
 CORE Properties  
 Corporate Office Properties Trust  
 Cushman & Wakefield \*  
 Dacra Development  
 Edens&Avant  
 Forest City  
 Glenborough  
 Grubb & Ellis \*  
 HAL Real Estate Investments, Inc.  
 H&R Block  
 Hilton Hotels Corporation \*  
 Hines  
 Hyatt  
 IBM  
 InterContinental Hotels Group  
 Jones Lang LaSalle \*  
 Liberty Property Trust  
 MGM Mirage \*  
 Opus  
 PNC  
 Real Estate Round Table \*  
 Real Properties  
 Regency Centers  
 Related Companies  
 Ryan Companies, US  
 Schaad Companies  
 Simon  
 Stream Realty Partners, L.P.  
 Tishman Speyer  
 TransWestern  
 US General Services Administration (GSA) \*  
 USAA Real Estate Company \*  
 Vornado  
 Walt Disney \*  
 Westfield LLC  
 Wright Runstad  
 Wyndham Hotels and Resorts

#### *Associations:*

American Hotel & Lodging Association \*  
 ASHRAE \*  
 BOMA \*  
 IES \*  
 IFMA  
 International Council of Shopping Centers \*  
 NAIOP \*  
 National Multi-Housing Council  
 Sustainability Roundtable, Inc.

### *Hospital Energy Alliance*

#### *Hospitals/Healthcare Facilities*

Ascension Health  
 Boulder Community Hospital  
 Catholic Health Initiatives  
 Catholic Healthcare West \*  
 Cleveland Clinic \*  
 Dartmouth-Hitchcock Medical Center  
 Geisinger Health System  
 Gundersen Lutheran Health System \*  
 Hackensack University Medical Center  
 Health Care REIT  
 HealthSouth  
 Hospital Corporation of America \*  
 Inova Health System  
 Johns Hopkins Health System  
 Kaiser Permanente \*  
 Legacy Health System  
 Metro Health Hospital  
 NewYork-Presbyterian Hospital \*  
 Partners HealthCare  
 Providence Health & Services \*  
 Rush University Medical Center  
 San Luis Valley Regional Medical Center  
 Texas Children's Hospital  
 Texas Medical Center (TECO) \*  
 TRICARE Management Activity (TMA) \*  
 University of Pittsburgh Medical Center \*  
 U.S. Department of Veterans Affairs \*  
 Yale-New Haven Hospital

#### *Associations:*

ASHE \*  
 ASHRAE \*  
 GHSI \*  
 IES \*  
 IFMA  
 VHA