

Better Buildings Alliance Market Solutions Team Meeting

May 7, 2014 1:00 – 2:15 PM 2:30 – 3:45 PM

> Speakers: Andrew Schulte, ICF International Deb Cloutier, JDM Associates Patrick Finch, Waypoint Building Group Marta Milan, Waypoint Building Group



Agenda

- Welcome & Introductions
- Activity Updates
 - Leasing & Split Incentive
 - Financing & Appraisal/Valuation
 - Workforce Development/Building Re-Tuning
 - Data Access
 - Better Buildings Webinar Series
- Facilitated Discussion
- Adjourn





Overview

- The goal of the Market Solutions Teams is to help Better Buildings Alliance members identify barriers to energy efficiency and to develop resources for overcoming non-technical barriers to deploying energy efficiency in their building stock, quickly and at scale.
- Current Focus Areas
 - Leasing & Split Incentive
 - Financing / Appraisal and Valuation
 - Building Re-Tuning
 - Data Access





Green Leasing and Split Incentive

Deb Cloutier, JDM Associates



Green Lease Leaders

- Addressing the split incentive
- Set a standard for green leasing
- Expedite adoption of energy-aligned lease clauses
- Recognize success
- Transition to in standard lease form
- Application available year-round





Innovators creating sustainable landlord-tenant relationships





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Green Lease Leaders Coverage

NREI nreionline.com







ENERGY MANAGER TODAY

















2014 Green Lease Leaders

14 Companies...

...who own or manage over **400 million** square feet

National Retailers

Regency[•] Centers.

Flagship Buildings

EMPIRE STATE Bullitt Foundation





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2014 Green Lease Leaders







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Discoveries

- Many organizations don't know where to start.
- Those with green leasing best practices don't talk about them.
- Tenant demand is critical to success. When tenants demand green provisions in a lease, landlords and brokers more willingly offer them.





Driving Adoption of Green Leasing

Better Buildings Alliance is developing new tools:

- Fact sheets
- Best practices for Green Leasing
- Sample building rules & regulations
- Talking points describing the benefits of green leasing for engaging attorneys/counsel
- Pilot a new tenant sector of BBA
 - Engage and exert influence





For More Information

- Putting Green Leasing into Practice
- Thursday, May 8, 11:15 AM 12:30 PM
- Room: Columbia 3
- Presenters
 - Adam Sledd, Institute for Market Transformation
 - Will Teichman, Kimco Realty Corporation
 - Sally Wilson, Newmark Grubb Knight Frank





Topics for Further Discussion

- Driving tenant demand
- Broker education and engagement
- Broker selection and asset manager engagement
- Advisory services





Financing and Appraisal

Patrick Finch, Waypoint Building Group



BBA Finance and Appraisal Efforts

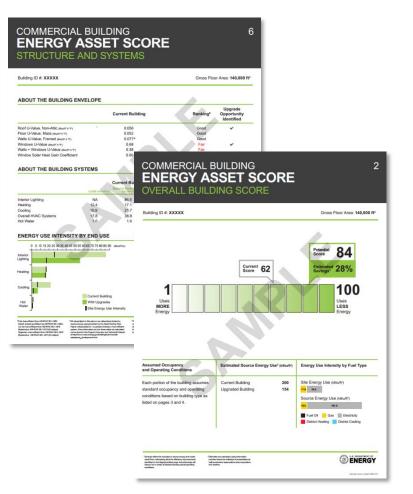
- Development of the Commercial Building Energy Asset Score Program
- Research review of green labels' impacts on building financial performance
- Coordination with the Appraisal Foundation: review of draft guidance on core competencies for appraisers to value green buildings





BBA Finance Efforts to Build Foundational Data to Evaluate Energy Efficient Buildings

- DOE is Developing the Commercial Building Energy Asset Score Program
 - Includes a web-based tool to evaluate energy efficiency characteristics of buildings
 - Generates Energy Asset Scores that are nationally comparable and control for differences in building operations
 - Scoring system can help to inform real estate transactions by providing comparable transparent information on building energy performance
 - Find more information at the Asset Score website: <u>http://energy.gov/eere/buildings/commer</u> <u>cial-building-energy-asset-score</u>





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BBA Finance Efforts to Understand Value of Green Buildings on Financial Performance

- Review of Green Labeling and Building Financial Performance
 - DOE summarized existing market evidence on the impact of green labels and energy efficiency and on building financial performance.
 - Reviewed over 50 studies that demonstrate the connection between green labeled buildings and improved net operating income and asset value. Presents ranges of typical premiums associated with green labeled buildings.
 - Webinar to present findings will be held on May 21st. Register now at <u>https://attendee.gotowebinar.com/register/6967</u> 183330352158465
 - The review is now posted on the BBA website: <u>http://www4.eere.energy.gov/alliance/activities/</u> <u>market-solutions-teams/appraisals-</u> valuation/green-labels





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BBA Review Requested on Core Competencies for Appraisers to Value Green Buildings

- The Appraisal Foundation (TAF) has asked for feedback on its draft guidance document from commercial and residential BBA members
 - The Appraisal Practices Board of TAF has been developing guidance to assist real estate and appraisal professionals in building the competency and tools necessary to capture the value of green buildings
 - This document highlights the core skill sets and data necessary for appraisers to value green homes and commercial buildings properly, and provides guidance on how to obtain them
 - Webinar to review the draft guidance document will be held on May 14th. Register now at <u>https://attendee.gotowebinar.com/register/741</u>

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Valuation of Green Buildings: Background and Core Competency

	THE APPRAISAL FOUNDATION America's Valuation Resource
TO:	All Interested Parties
FROM:	Rick O. Baumgardner, Chair Appraisal Practices Board
RE:	Second Exposure Draft – Valuation of Green Buildings: Background and C Competency
DATE:	March 20, 2014
apply to al	s on July 1, 2010. The APB has been charged with the responsibility of identify g voluntary guidance on recognized valuation methods and techniques, which n l disciplines within the appraisal profession. The APB has prioritized topics to of memory and the approximation of the APB has prioritized topics to of the APB has prioritized topics.
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apply to al guidance in The Board comprised who resean APB then adopting g addresses to From the 2 However, ; appraisal s	z volumary guidance on recognized valuation methods and techniques, which in disciplings which the appraisal profession. The APB has prioritized topics to on a areas which appraisers and users of appraisal services feel are the most pressing. accomplishes its mission through the use of panels of Subject Matter Experts (SMI of widely recognized individuals with expertise in the specific topic being consider to and identify all pertures yources of existing information on the being consider (widance, which may include more than one recognized method or technique to utdance.

The First Exposure Draft of Valuation of Green Buildings: Background and Core Competency was issued on July 15, 2013, and the Board received several written comments, as well as oral comments at its public meetings. Each of these comments were reviewed and considered by the Subject Matter Expert (SME) panel and the Board. As a result, this Second Exposure Draft incorporates the revisions deemed appropriate to the proposed Valuation Advisory. In Addition

levant comment on this topic, it may vote to adopt the material as official guidance from the

Second Exposure Draft - Valuation of Green Buildings: Background and Core Competency



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For More Information

- Getting Traction in Market Transactions: A Conversation with the Appraisal, Brokerage, and Financial Communities
- Thursday, May 8, 3:30 5:00 PM
- Room: Fairchild
- Presenters
 - Theddi Wright-Chappell, Sustainable Values, Inc.
 - David Pogue, CBRE
 - Donna Varner, Multifamily Green Initiative at Fannie Mae





Topics for Further Discussion

Asset Score:

- Is incorporation of building system info into an "energy score" helpful in your decision-making processes?
- Under what conditions would you consider testing out DOE's asset score system?

Finance:

- What aspects of building financial value are most critical to your work? (e.g., Occupancy, Cap Rates, O&M costs)
- Where would you like to see additional research?

Appraisal:

- How much of an impact does potential impact on property value have on your investment decisions when it comes to efficiency?
- Have you had any success in getting efficiency measures incorporated into a building appraisal in the past?





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Workforce Development: Building Re-Tuning

Marta Milan, Waypoint Building Group



Framework for a Better Buildings Workforce

Technical Standards	Skills Standards	Curricula	Industry- Recognized Certifications	Third-Party Accreditation	Driving Market Demand
Standards, codes, and specifications defining safe, durable, high- quality work	Define the job tasks and the knowledge, skills and abilities workers need to perform them well		National, industry & government recognized certifications built on common blueprints when appropriate	Evaluation of program quality and alignment with industry- recognized content	Policy mechanisms and recognition of accredited workforce credentialing programs





Re-Tuning Offers Curricula and Training for Commercial Building Operational Professionals



- Re-tuning is a low-cost process to identify and correct building operational problems that lead to energy waste. To expand the practice of re-tuning, the Department of Energy (DOE), with support from the Pacific Northwest National Laboratory (PNNL), developed training curricula focused on re-tuning both large (with a building automation system, or BAS) and small (without a BAS) commercial buildings.
- DOE is utilizing a train-the-trainer approach to deliver the building re-tuning curricula, engaging its Better Buildings Alliance partners as well as setting up training centers in association with the National Institute of Science and Technology Manufacturing Extension Partnership (NIST MEP).





DOE Re-Tuning Collaboration with NIST MEPs BCTEP – Future Trainings

Funded by DOE in collaboration with NIST Manufacturing Extension Partnership (MEP), the Building Construction Technology Extension Program (BCTEP) pilot engages three MEP centers across the country to deliver re-tuning training using the extension program model, which has been tested and proven in the agricultural and manufacturing sectors. Each MEP center employed the core retraining material provided by DOE/PNNL and developed additional modules focused on the specific needs of their local market.

NIST MEP	Location	Partners
Manex	San Francisco	The Corporation for Manufacturing Excellence in California, partnering with Laney College and the International Union of Operating Engineers Local 39
DVIRC	Philadelphia	Delaware Valley Industrial Resource Center in Pennsylvania, partnering with Pennsylvania State University and Pennsylvania College of Technology
NY DED	NYC & Albany	New York State Department of Economic Development in New York, partnering with City University of New York and Rochester Institute of Technology





Re-Tuning Resources are Available Online

Re-Tuning Resources on CBRD

Visit the Commercial Buildings Resource Database (CBRD) for free Re-Tuning Resources (<u>https://buildingdata.energy.gov/cbrd/</u>)

- Small Commercial Building Re-Tuning Primer
- Large Building Re-Tuning Training
- Pre-Re-Tuning Trend Data
- ECAM BAS Data Analysis
- Vornado Re-Tuning 3-month Case Study
- Coming soon: Additional case study examples from re-tuning training participants

Online Re-Tuning Training Available

PNNL is offering two free interactive Re-Tuning e-learning courses to anyone interested in improving a building's energy performance and the comfort of the building's occupants (http://retuningtraining.labworks.org/trai ning/lms/)

- Re-tuning for Building with Building Automation Systems (CEUs available from the Building Operator Certification Program)
- Re-tuning for Buildings without Building Automation Systems





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For More Information

- Commercial Building Re-Tuning: No- to Low-Cost Measures to Significantly Reduce Energy Consumption
- Thursday, May 8, 9:45 11:00 AM
- Room: Jay
- Presenters
 - Susan Corry, University of Maryland College Park
 - Don Haas, Brandywine Realty Trust
 - John Healy, Aramark Tower
 - Scott Mitchell, BNY Mellon Bank Center





Topics for Further Discussion

- How often does your staff "re-tune" your building? Are they aware of the operational energy efficiency opportunities?
- What is the best way to bring the re-tuning knowledge to the broader commercial building market audience?





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Data Access

Andrew Schulte, ICF International



Resources

- Philadelphia Case Study
- Prologis Implementation Model
- The Data Access and Transparency Alliance (DATA)
- Energy Data Accelerator Website





Utilities and **local governments** partnering with DOE to commit to providing whole-building data to commercial building owners interested in benchmarking.

Accelerator Partners will:

- Demonstrate low-cost, standardized approaches for providing energy data for the purpose of whole building energy performance benchmarking.
- Develop best practice approaches for reliable and secure utility aggregation of energy data from multiple accounts to facilitate wholebuilding benchmarking while protecting privacy and
- Demonstrate new tools to streamline the transfer of utility bill data to benchmarking tools, including standard data formats for ENERGY STAR[®] Portfolio Manager.
- Opportunity for building owners and operators to communicate their data access needs to representatives of local jurisdictions and serving utilities





Energy Data Accelerator Partner Pairs

Local Governments

City of Atlanta, GA City of Austin, TX Cities of Boston and Cambridge, MA City of Chicago, IL City of Columbus, OH District of Columbia City of Houston, TX City of Kansas City, MO City of Los Angeles, CA City of Minneapolis, MN City of New York, NY City of Philadelphia, PA Cities of San Diego and Chula Vista, CA City of Salt Lake City, UT City of San Francisco, CA City of Santa Monica, CA City of Seattle, WA

Utilities

Atlanta Gas Light Company Austin Energy NSTAR/Northeast Utilities Commonwealth Edison **AEP** Ohio **PEPCO Holdings, Inc.** Reliant (an NRG Company) Kansas City Power & Light Company Los Angeles Department of Water and Power Southern California Gas Company Xcel Energy Inc. National Grid **PECO Energy Company** San Diego Gas & Electric Company **Rocky Mountain Power** Pacific Gas & Electric Company

Southern California Edison

Puget Sound Energy





For More Information

- Energy Data Access: Helping Building Owners Obtain Whole-Building Energy Data to Drive Performance Assessment and Improvements
- Thursday, May 8, 1:30 3:00 PM
- Room: Columbia 1-2
- Presenters
 - Nicole Ballinger, City of Seattle
 - Andrew Burr, Institute for Market Transformation
 - Will Teichman, Kimco Realty Corporation





Topics for Further Discussion

- How best to facilitate engagement of BBA members in the Accelerator stakeholder engagement processes?
- What if a city where you operate is not included in the list of Accelerator participants?
- What do you need, as building owners/operators, in order to most effectively articulate and communicate the importance of whole-building data access?
- What are your thoughts regarding the sensitivity of aggregated, whole-building energy consumption data (with respect to tenant privacy)





Better Buildings Webinar Series

Andrew Schulte, ICF International



Better Buildings Webinar Series

Almost 3,000 attendees across 9 sessions!

- August: Commercial Buildings Data Access: A Success Story
- September: Tying Energy Efficiency to Compensation and Performance Reviews
- October: Speaking the CFO Language: Building the Case for EE with Financial Decision Makers
- November: Fight Amongst Yourselves: Intra-Organization Energy Efficiency Competitions
- December: Deep Energy Retrofits
- January: Kick-Starting Your Energy Management Program
- February: Real-Time Energy Management
- March: Adding Solar to Your Building Portfolio
- April: Engaging Building Occupants to Reduce Energy Use





Topics for Further Discussion

- What subjects would you like to see covered in future webinars?
- Have you been able to implement or consider implementing – any of the strategies presented by webinar panelists?





Facilitated Discussion



Discussion Topics

- [See activity-specific discussion questions]
- What other non-technical barriers to energy efficiency should be considered for engagement via the Market Solutions team?
- What are the preferred mechanisms for keeping this group up-to-date and informed of activities?
 - Emails via listserv
 - Conference calls
 - Webinars
 - In-person meetings





Have Questions? Contact Us

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