



Better Buildings

U.S. DEPARTMENT OF ENERGY

Better Buildings Residential Network Peer Exchange Call Series:

**America's
got
Multifamily Talent** (201)

September 15, 2016

Call Slides and Discussion Summary

Agenda

- **Agenda Review and Ground Rules**
- **Opening Polls**
- **Brief Residential Network Overview**
- **Contestants:**
 - **Rebecca Schaaf**, Senior Vice President, Energy SAHF (***Network Member***)
 - **Ravi Malhotra**, Founder and President, ICAST USA (***Network Member***)
 - **Dan Teague**, Business Development, WegoWise
- **Discussion:**
 - *What is the biggest obstacle you would face in embracing (or expanding) data benchmarking in your program?*
 - *What is the biggest obstacle to getting multifamily property owners on board with energy efficiency upgrades?*
 - *What challenges would you face in implementing EZ-Retrofit or a similar energy audit tool?*
 - *What have YOU tried that has worked well, or has not worked, in getting multifamily property owners to try energy efficiency upgrades?*
- 2 ▪ **Closing Poll and Upcoming Call Schedule**

Better Buildings Residential Network

Better Buildings Residential Network: Connects energy efficiency programs and partners to share best practices and learn from one another to increase the number of homes that are energy efficient.

Membership: Open to organizations committed to accelerating the pace of home energy upgrades.

Benefits:

- Peer Exchange Calls 4x/month
- Tools, templates, & resources
- Recognition in media, materials
- Speaking opportunities
- Updates on latest trends
- Voluntary member initiatives
- Residential Program Solution Center guided tours

Commitment: Provide DOE with annual number of residential upgrades, and information about associated benefits.

For more information or to join, email bbresidentialnetwork@ee.doe.gov, or go to energy.gov/eere/bbrn and click Join



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PC INTELLIGENCE INTEGRITY WISDOM

Stewards of Affordable Housing for the Future

U.S. DEPARTMENT OF
ENERGY

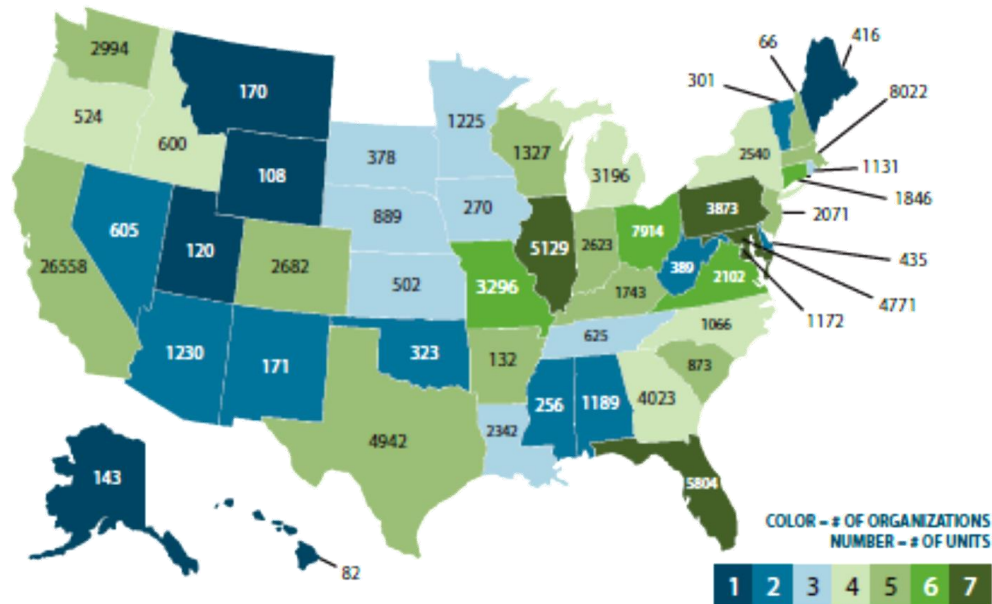
EZ Retrofit

A No-Cost Energy and Water Audit Tool for the
Multifamily Sector



Stewards of Affordable Housing for the Future

A collaborative of 11 exemplary multi-state non-profits
Provides more than 115,000 units of affordable housing



- BRIDGE Housing
- The Evangelical Lutheran Good Samaritan Society
- Homes for America
- Mercy Housing
- National Church Residences
- National Housing Trust/Enterprise
- The NHP Foundation
- Preservation of Affordable Housing
- Retirement Housing Foundation
- The Community Builders
- Volunteers of America

Why EZ Retrofit



EZ Retrofit Audit Tool



- ✓ Ten Systems
- ✓ Do-It-Yourself
- ✓ Freely Available
- ✓ Excel-based

Evolution of EZ Retrofit

June 2014
Version 1.0

- EZ and Advance Path
- 10 Building Systems
- Results

June 2015
Version 2.0

- Additional Systems
- Validation Screen
- Graphical Results

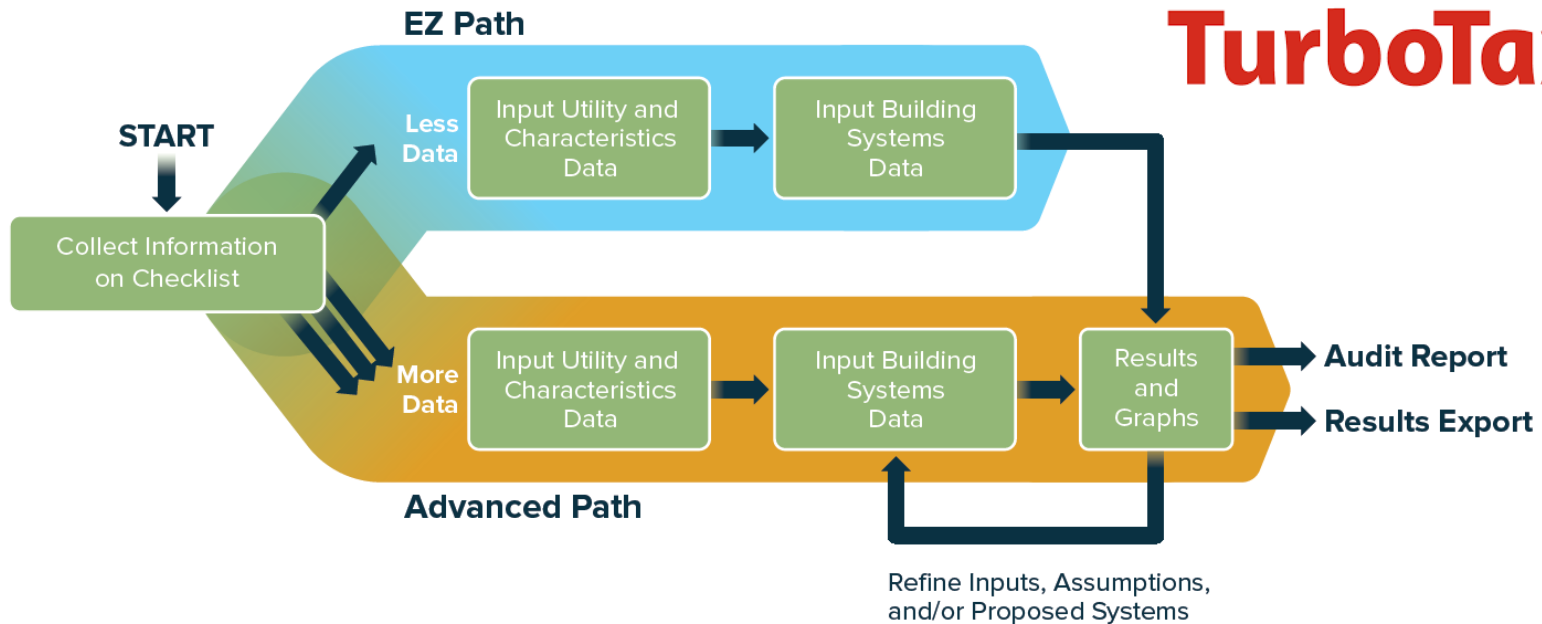
Jan. 2016
Version 3.0

- Path Switching
- Audit Report
- Custom Measure
- Combine Buildings
- Non-Energy Benefits



How EZ Retrofit Works?

EZ Retrofit—Choose Your Path to Savings



Collect Information: EZ Checklists

Welcome to EZ Retrofit!

Please read carefully before beginning.

Welcome to EZ Retrofit! EZ Retrofit gives you recommendations about energy and water efficiency measures that can help save you money based on information you enter about your multifamily building. Information you enter about your building's general characteristics, utility history, and existing systems allows the tool to provide tailored recommendations with estimated up-front costs, payback periods, and both consumption and cost savings. It even lets you adjust the tool's assumptions to more accurately reflect the changes you think fit best with your plans.

Before you start, take a little time to locate the information you're going to need. Use the EZ Retrofit Checklist Button at the bottom left of this screen to get a list of items to collect. If your property has more than one building, complete the analysis for each building separately. You may combine the EZ Retrofit results for multiple buildings and generate an audit report for your property once you have assessed all of the buildings.

EZ Retrofit provides two 'Pathways' to identify potential energy and water efficiency measures:

- The EZ Path guides you through a series of pop-up windows so you can input the Checklist information you collect about the building and its systems. The EZ Path is a more user-friendly way to input the requested information. It usually takes about 45 minutes to complete after the Checklist information has been collected.
- The Advanced Path lets you add more detailed information about your building and its systems to improve the accuracy of your results. Most people complete the EZ Path first, then make refinements using the Advanced Path. But you can start with the Advanced Path if you prefer.

If you are a new user, you should begin with the EZ Path – its estimates may give you exactly what you need with minimum effort. You can switch to the Advanced Path at any time. The data you entered in the EZ Path will appear in the Advanced Path.

Please choose the path you would like to use now:

EZ Path Advanced Path

Clear Prior Entries

EZ Retrofit Checklist

OK

Exit Application

SAHF
STEWARDS OF AFFORDABLE HOUSING FOR THE FUTURE

ICF
INTERNATIONAL

EZ
Retrofit

SAHF
STEWARDS OF AFFORDABLE HOUSING FOR THE FUTURE

Choose Your Path

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EZ Path Advanced Path

Clear Prior Entries

EZ Retrofit Checklist

OK

Exit Application



Input Screen 1 – General Characteristics

General Characteristics

Did You Know? Advanced Path Save

How Do I Do It? Exit Without Saving Save and Exit

Property Name	Aspen Place	Floors Above Ground	3
Building Name	Aspen Place	Floors Below Ground	0
Building Address	15351 E 12th Ave	Square Footage of Conditioned Area	46619
State	Colorado	Total Square Footage	56619
Nearest Airport	Denver Intl Ap	Average Ceiling Height	9
Zip Code	80011	Number of Apartment Units	58
		Year Building was Built	2001
		Space Heating Fuel Type	Natural Gas / Oil
		Water Heating Fuel Type	Natural Gas / Oil

Note: Airports have weather data that the tool uses to determine heating and cooling loads. If you don't know the closest airport, you can select one that is fairly close that you recognize.

Previous Screen - Welcome Screen Next Screen - Benchmarking



Input Screen 2 – Benchmarking

Owner and Tenant Paid Utilities

- Electricity
- Gas or Oil
- Water

General Characteristics and Benchmarking Results

Save Save and Exit

	Your Building	Benchmark Building
Site Energy Use Intensity	63 kbtu/sqft	57 kbtu/sqft
Site Water Use Intensity	38 gal/sqft	35 gal/sqft

Based on your building's energy and water use intensity relative to similar buildings, your building is a good candidate for significant efficiency upgrades. Please click on the "Envelope" button below to begin identifying a set of recommended improvements.

Previous Screen - Benchmarking Next Screen - Envelope

Input Screen for Building Systems

Kitchen Appliances

Did You Know? Advanced Path Save

How Do I Do It? Save and Exit

Who pays the utility bills? Owner

Appliance Type Refrigerator

Style of refrigerator / freezer OR the hot water system serving the dishwasher Auto-defrost refrigerator with or without top-mounted freezer

Quantity of Kitchen Appliances 58

System Age / Type NON-ENERGY STAR / 1996 - 2005

Previous Kitchen Appliances System 1 of 1 Add Another Kitchen Appliances System

Previous Measure Category - Clothes Washer Next Measure Category - Lighting

What will you get?

Detailed Results for System Improvements

1. Utility consumption and cost savings
2. Installation cost
3. Payback period
4. Expected useful life

Power to Customize

Flexible ways to review **results** include a range of **criteria**:

- Annual Cost Savings
- Annual Energy Savings
- Annual Water Savings
- Payback
- Total Install Cost
- Number of Measures

Printable Audit Report

EZ Dashboard

\$18,559

Annual Cost Savings
Potential

117

Annual CO₂e Reduction
Potential

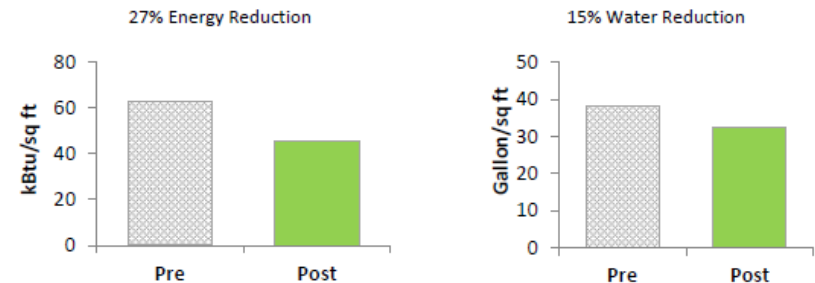
Annual Savings Opportunity

Energy (kBtu)	960,202	27%
Water (kGal)	328	15%

Emission Reductions are Equivalent to

Cars on the Road	25
Gallons of Gas Being Consumed	13,050
Energy Used by This Many Homes	11

Pre- vs. Post-Retrofit Use Intensity



Sunset Park – Case Study

Energy Star Refrigerators

Quantity: 128

Projected Annual Cost Savings: \$4,912

Projected Annual kWh Savings: 51,712

LED Lighting (Common Area & Exterior)

Quantity: 586

Projected Annual Cost Savings: \$12,905

Projected Annual kWh Savings: 135,837

Energy Efficient Boilers

Quantity: 2

Projected Annual Cost Savings: \$9,725

Projected Annual kWh Savings: 7,394

Projected Annual Therms Savings: 19,181

PROJECTED ANNUAL SAVINGS

Energy: 20% Cost: 22%



EZ Retrofit Resources

Learn more about EZ Retrofit and how efficiency upgrades can enhance tenant comfort and improve your bottom line.

- ✓ EZ Retrofit Tool
- ✓ The User Guide
- ✓ Data Collection Checklist
- ✓ Case Studies
- ✓ FAQs
- ✓ Videos
- ✓ Other Information

Visit www.sahfnet.org/ezretrofit.html



Discussion Highlights: Stewards of Affordable Housing for the Future

- **Goldilocks Effect:** Simple, quick audits often don't supply enough actionable information; detailed analysis audits are often too complex for homeowners.
- **The Right Fit:** EZ Retrofit limits the analysis to ten systems and cuts out measures, such as windows and attic insulation, that have longer payback periods to provide a clear path forward.
- **The Right Audience:** Users of the EZ Retrofit software fell into three primary categories:
 1. **Previously Audited:** Users turned to EZ Retrofit after they had conducted an audit to find information on additional upgrades.
 2. **Cash Flow Concerns:** Users saw benchmarking as an opportunity to cut down on their energy cost and stabilize their finances by reducing their use.
 3. **Old Equipment:** Users with old and inefficient equipment utilized the technology to determine what upgrades to undertake when the inevitable end of life came for their old equipment.



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iCast USA

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Green Rehabilitation for Multifamily Properties

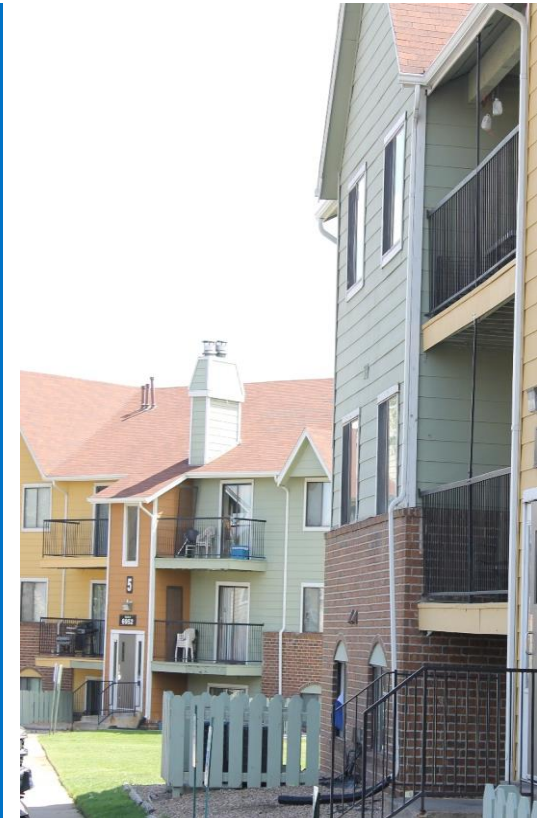
Ravi Malhotra
President, ICAST (International Center for
Appropriate & Sustainable Technology)



Triple
Bottom
Line
FOUNDATION

Multifamily (MF) Housing

- ❖ ~25% of residential market
 - Subsidized Affordable – HUD, LIHTC, USDA-RD
 - Naturally Affordable / Market Rate
- ❖ MF is an underserved and untapped market
 - Commercial Property but Residential Use
 - Complex Ownership / Management Structure
 - Split-Incentive hurdle – LPs, Agencies, Tenants
 - Utility Rebate programs driven by Meter/Utility Account Holders



Why aren't MF owners signing up?

❖ Time Constraint

- Complex Process
- Not High Priority

❖ Knowledge

- Regulatory
- Optimal Solutions
- Pace of Technology Change

❖ Financing

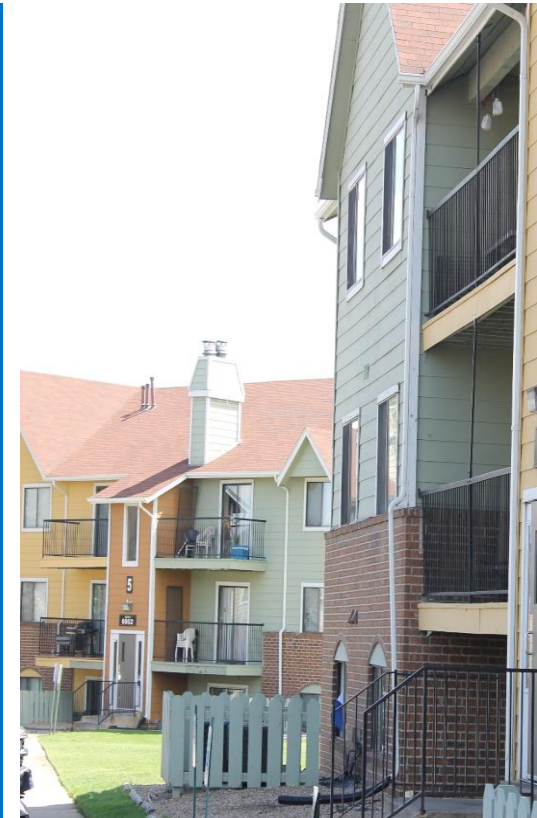
- Over ROI threshold
- Lack of Reserves
- Split Incentive
- Myth – Green is Expensive



Successful EE Programs

1. Free to MFAH owner
 - ✓ Grant Funded – WAP, State, Foundation, etc.
 - ✓ Utility - Direct Install Programs

2. General Contractors
 - ✓ **At time of major rehab**
 - Driver - Green certification
 - Oversees entire gut rehab
 - Refi of property
 - ✓ **New construction**
 - Driver - Green certification



Successful EE Programs

3. DIY

4. One-Stop-Shop

✓ **Make it hassle-free**

- Oversees entire green rehab

✓ **Provide relevant information**

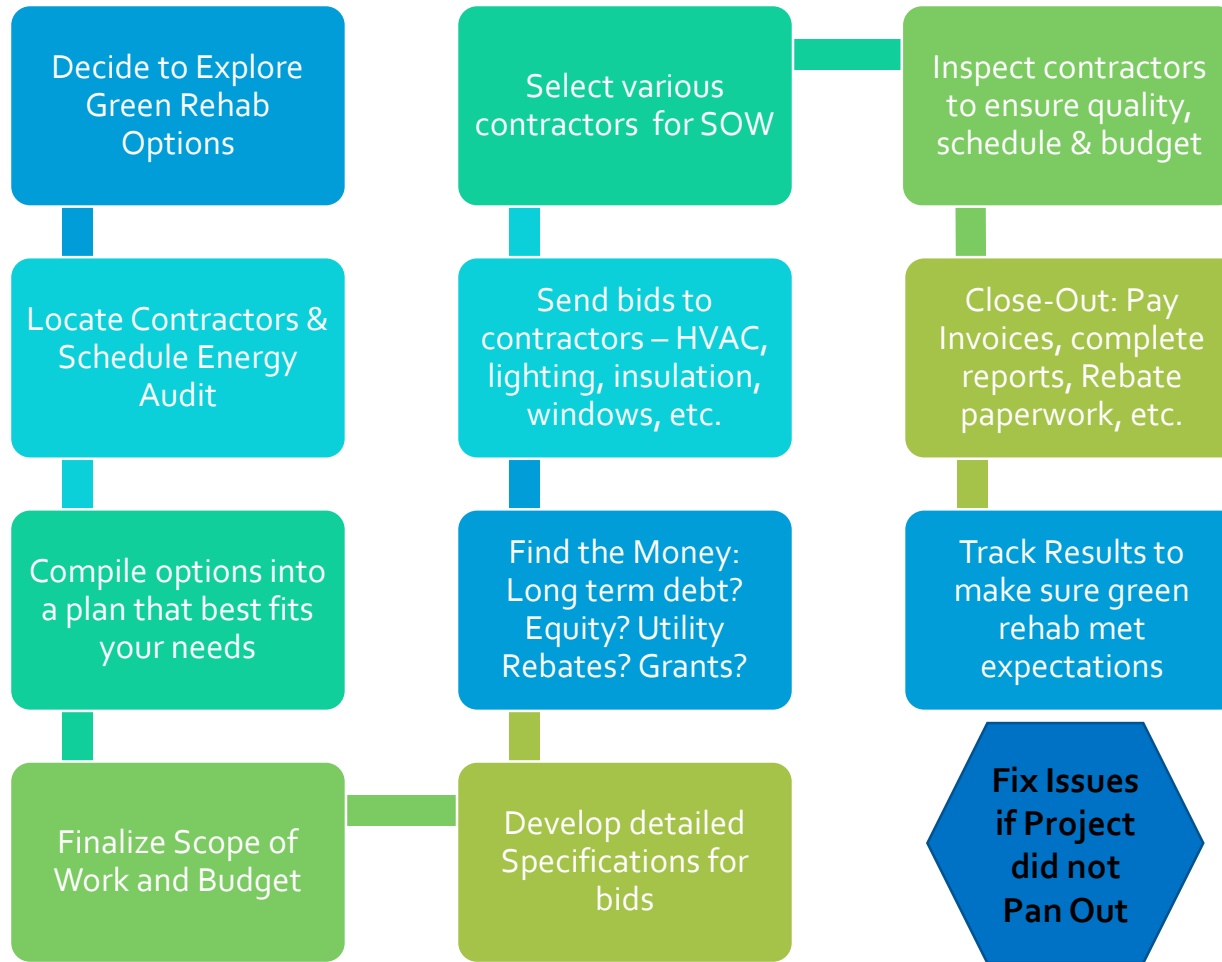
- Cost effective ECMs

✓ **Access to financing options**

- Rebates, Incentives, Grants
- Debt or Off-Balance Sheet (EPC, PACE, PFS)



**DIY
Process**



One-Stop-Shop Model

- ✓ Portfolio & Property Assessments
- ✓ Design and Development
- ✓ Access to Financing
- ✓ Green Retrofit:
 1. Energy Efficiency and DSM
 2. Renewable Energy
 3. Water Conservation
 4. Health and Safety
- ✓ O&M Training
- ✓ Tenant Engagement

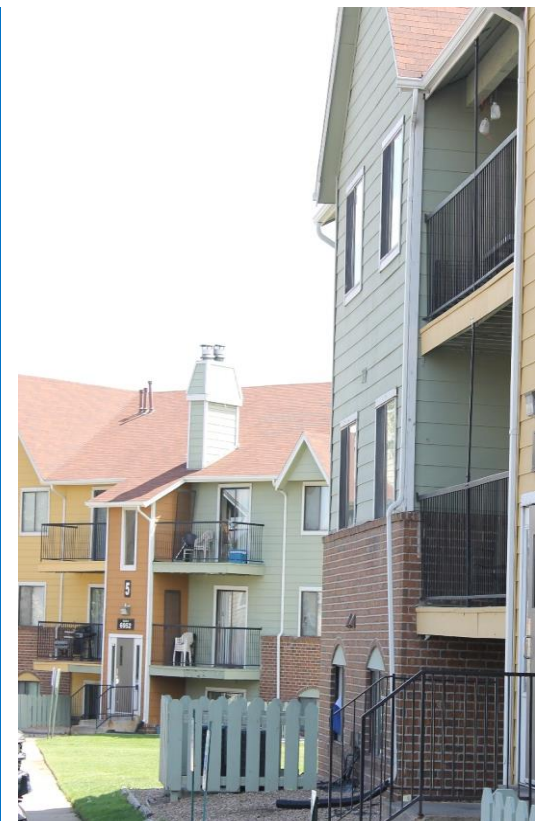


Lessons Learned

www.icastusa.org/resourceguide.aspx

Service Providers Perspective:

1. Financial viability of Green Retrofit is important
 - But take a holistic approach
2. Leverage utility rebates, grants and incentives
 - But owner “buy-in” is essential for sustainability
3. Offer a comprehensive, hassle-free, and cost-effective program
 - Keep it simple & make it easy for the owner/manager

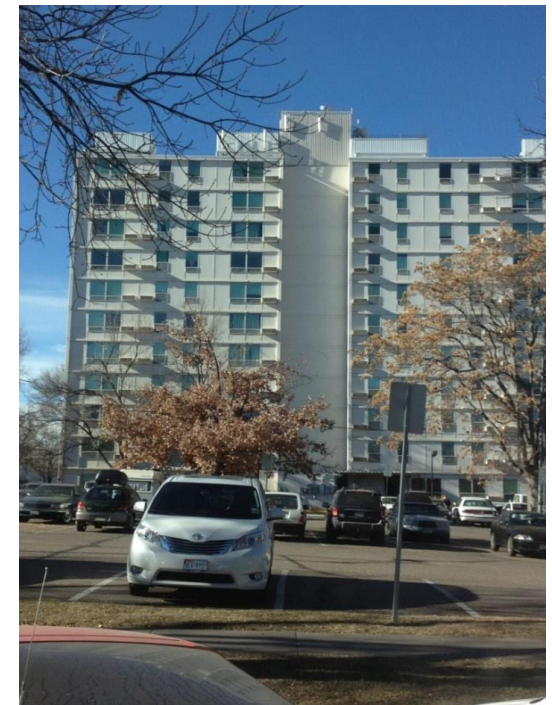


By the Numbers

Current annual utility cost	\$100,000
25% utility savings due to Green Rehab	\$25,000
Reductions in O&M costs from green rehab	\$9,000
Increase in profits due to higher occupancy & lower turnover due to green rehab	\$6,000
Total Savings/Year i.e. Increase in NOI	\$40,000

Cost of Capital	5% ←
Increase in value of property	\$800,000

Lifetime of Green Rehab (in years)	15 ←
Total Savings from Green Rehab	\$600,000





Thank you

www.icastusa.org/resourceguide.aspx

Ravi Malhotra
President, ICAST
www.icastusa.org



Triple
Bottom
Line
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Discussion Highlights: iCast

- **Market Barriers:** Barriers such as split incentive, lack of knowledge and resources, and small project size often delay or stop property managers from undertaking upgrades.
- **Solutions:** iCast evaluated the practices of successful retrofit programs, such as weatherization and contractor practices, that drive retrofits to develop solutions:
 - **Provide tenant and staff education:** Property owners may believe that green rehab is too expensive. Education is the first step to overcoming that myth.
 - **Incorporate green into design:** Model programs after general contractors, which include upgrades as standards in their rehab process.
 - **Make the business case:** The lifespan of a rehab project lasts far beyond one year. Show owners that the savings are extensive and multiyear as well.

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PC INTUITIVE WINDAQA WSP



WegoWise



Achieving Efficiency in Multifamily Buildings through Benchmarking Data



Dan Teague
VP Business Development
WegoWise

September 15, 2016

wegowise

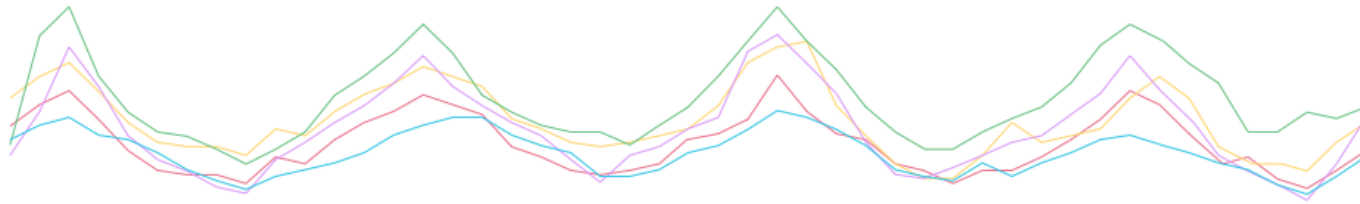
Today's Agenda

How to effectively use benchmarking data to:

- Identify opportunities for improvement
- Measure the success of building upgrades
- Increase NOI and utility savings
- *Plus*, best practices on energy data access and use in multifamily buildings

Why use benchmarking data?

Benchmarking energy and water usage provides the foundation for improving the efficiency of your buildings.



Benchmarking with data allows owners and managers to track and analyze building utility performance within a portfolio and against similar peers.

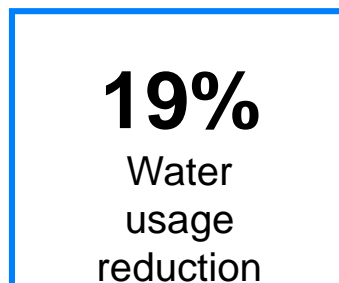
Identify opportunities for improvements

National CORE consolidated utility data to analyze water use across 6 properties, allowing them to identify opportunities to make improvements.

Opportunity: One property performed poorly when benchmarked alongside its peers.

Improvement: This property's water use was remedied through landscape watering modifications.

Result?



Measure the success of building upgrades

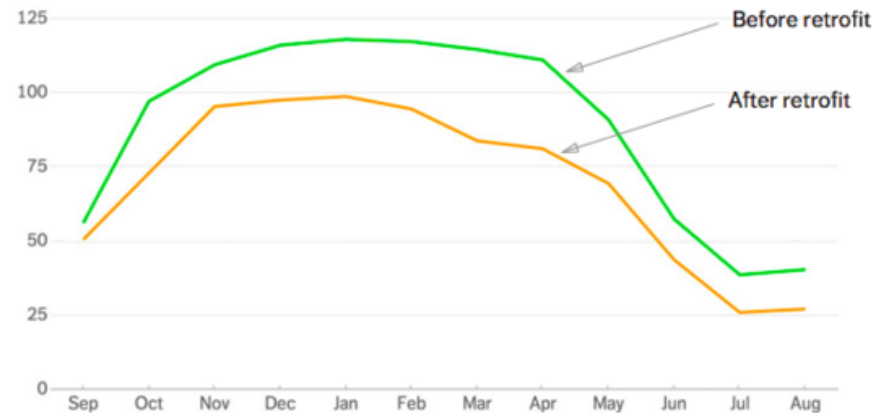
Homeowner's Rehab, used benchmarking data to measure and verify the success of building upgrades.

Upgrade: Replaced inefficient boilers with new condensing units and compared the post-upgrade energy use to benchmarks.

Result? When one building did not perform as expected, engineers found that it was not condensing properly and modified gas pressure, improving building performance.

Measure the success of building upgrades

Through benchmarks, HRI easily identified outliers in its portfolio, targeted those buildings for retrofits and measured the savings.

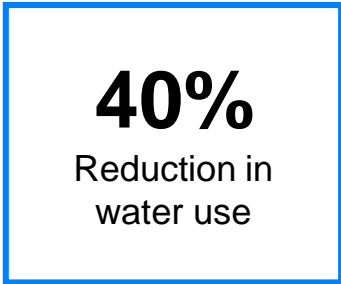
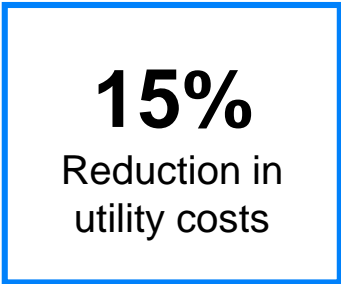


Increase NOI and utility savings

New Holland Residences increased net operating income (NOI) and utility savings by benchmarking buildings within their own portfolio, identifying outliers, and making improvements.

Improvement: Repaired window gaps, replaced water fixtures, and installed energy management systems across all buildings.

Result?



Best practices in energy data and use in multifamily

- Set energy efficiency goals
- Select a point person to focus on energy data management and determine how and when to share data across the organization
- Collect comprehensive utility information when setting up benchmarks to get the most out of your data
- Explore options for energy efficiency financial incentives, like Green Banks Fannie Mae, Freddie Mac, or HUD
- Explore integrating benchmarking data to site staff incentives

Thank you!

Discussion Highlights: WegoWise

As benchmarking becomes standard practice, managers and owners are struggling with how to obtain, interact with, and share data. What does benchmarking do?

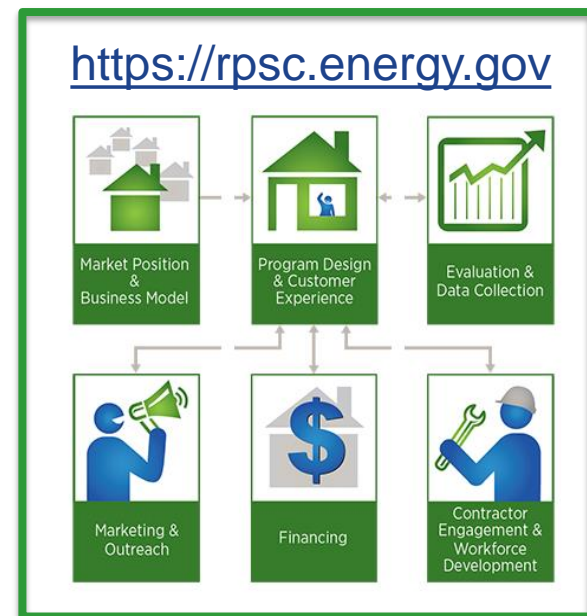
- **Baseline:** Benchmarking is the foundation for improving properties. You cannot manage what you cannot measure.
- **Feedback:** Benchmarking gives managers and owners the ability to evaluate current and past performance.
- **Opportunity:** Benchmarking can help owners and managers identify opportunities for upgrades and savings.
- **Comparison:** As more buildings benchmark, aggregate data can help compare how a building performs relative to others.
- **Lasting Savings:** Benchmarking can demonstrate savings after an upgrade, but it can also identify when equipment is not performing as it should five, ten years down the line as well.

Related Resources in the Residential Program Solution Center

Explore resources related to multifamily home upgrades:

- Explore the [Program Design & Customer Experience – Make Design Decisions](#) handbook to make sure your program is tailored to your specific market.
- Leverage practical policies and programs to improve building energy efficiency for more affordable and livable communities with [The 2020 Leadership Agenda for Existing Commercial and Multifamily Buildings](#).
- Check out the Multifamily Financing [Quick Link](#) for numerous resources on this topic.
- See the opportunities and resources available to capture energy savings within the southeast region's housing market: [The Southeast Multifamily Market Assessment](#).

- While you're there, see the latest [Proven Practices](#) post on [Contractor Financing Education](#).
- We regularly add new resources to the Solution Center. [Member ideas are wanted!](#)

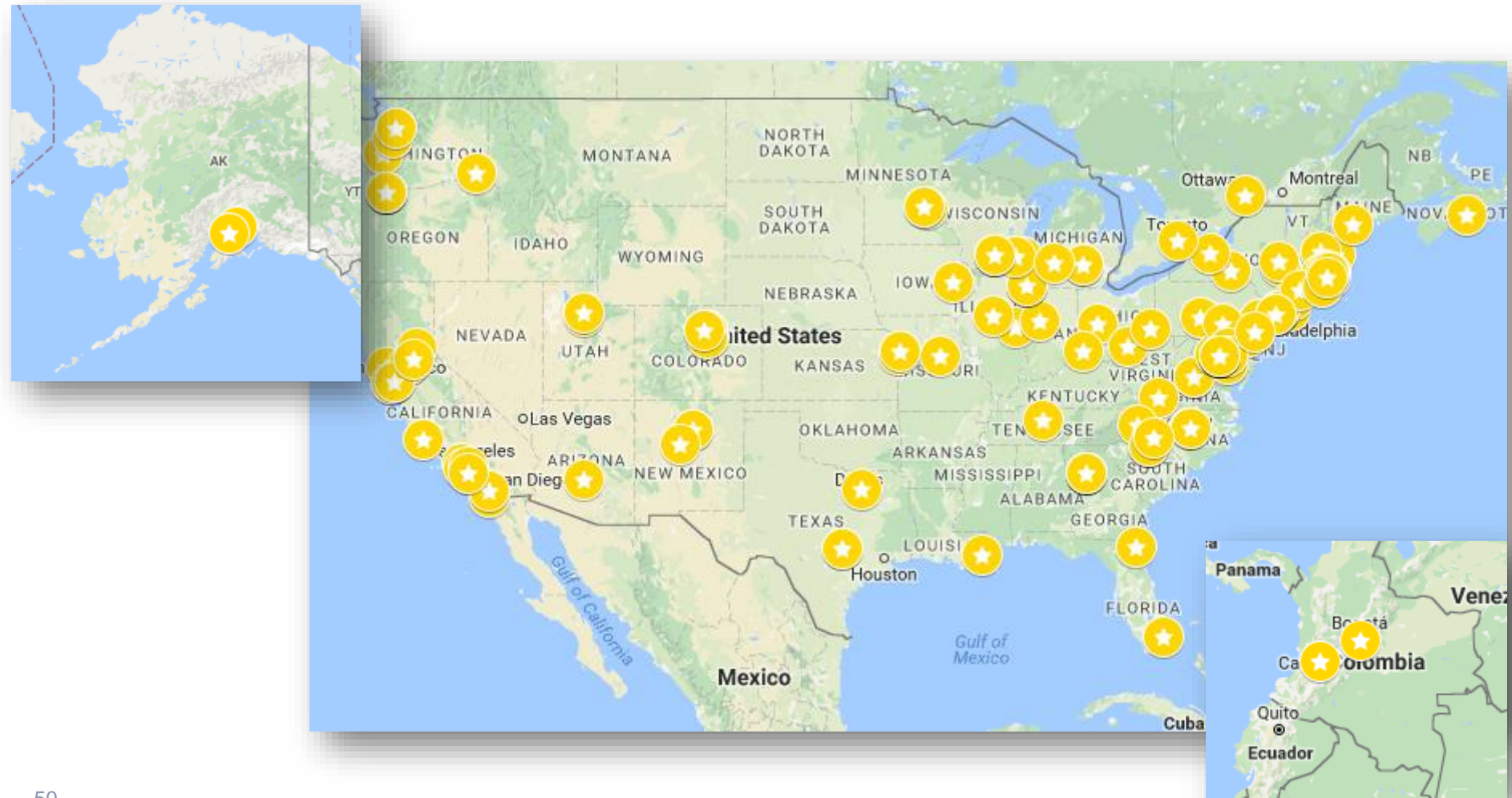


Golden Buzzer Discussion!

- Data and benchmarking provide huge opportunities for upgrades, but there are still challenges to adoption in multifamily programs:
 - **Metering Structure:** Multifamily homes may have individual or shared meters. **Ask your utility for aggregated data to overcome this hurdle.**
 - **Technology Life Cycle:** Multifamily housing, particularly affordable housing, may be hesitant to invest when technology just keeps getting better. Technology always advances, but the **products on the market now are innovative and groundbreaking in their own right.**
 - **Projections:** Lack of monitoring and evaluation data leads to a lack of confidence in projected savings. **Approaches like EZ Retrofit and Wegowise's benchmarking aim to collect more data over time to make predictions more standard and accurate.**

Addenda: Attendee Information and Poll Results

Call Attendee Locations



Call Attendees: Network Members (1 of 2)

- Advanced Energy
- AE Building Systems
- Alaska Housing Finance Corporation
- All Elements Mechanical
- American Council for an Energy-Efficient Economy (ACEEE)
- AppleBlossom Energy Inc.
- BlueGreen Alliance Foundation
- Boulder County
- Bridging The Gap
- Build It Green
- California Energy Commission
- California Housing Partnership Corporation
- City of Cambridge
- City of Charlottesville
- City of Chula Vista Conservation Section
- City of Columbia
- City of Plano
- Clean Efficient Energy Company, LLC
- CLEARResult
- Efficiency Nova Scotia
- Elevate Energy
- Focus on Energy
- Greater Cincinnati Energy Alliance
- Horizon Residential Energy Services NH, LLC
- Institute for Market Transformation (IMT)
- Metropolitan Energy Center

Call Attendees: Network Members (2 of 2)

- Mitsubishi Electric Cooling and Heating
- National Grid
- National Housing Trust/Enterprise
- Northeast Energy Efficiency Partnerships (NEEP)
- Performance Systems Development (PSD)
- Southeast Energy Efficiency Alliance (SEEA)
- Stewards of Affordable Housing for the Future
- The Energy Conservatory (TEC)
- Waterbury Local Energy Action Partnership (LEAP)
- WattzOn
- Wisconsin Energy Conservation Corporation (WECC)

Call Attendees: Non-Members (1 of 3)

- AEG
- AjO
- American Economic Association
- Architectural Nexus
- Association for Energy Affordability
- Atlanta Mayor's Office
- BA Consult
- Bam Superior Solutions
- Blue Ridge EMC
- Bonneville Power Administration
- Boulder County EnergySmart
- Building Envelope Materials
- California Alternative Energy and Advanced Transportation Financing Authority
- California Public Utilities Commission
- Cambridge Community Development
- CHP Energy Solutions
- City of Philadelphia
- Codman Square NDC
- Corcoran Management
- Cornell Cooperative Extension
- County of Sonoma-Energy & Sustainability
- Craft3
- CT Green Bank
- Danville Development
- Emerald Impact
- Energy & Resources Group
- Energy Metering Technology Ltd

Call Attendees: Non-Members (2 of 3)

- Environmental Design / Build
- Eversource Energy
- Facility Solutions Group
- Facility Strategies Group
- Franklin Energy Services
- FS Energy
- GoodCents
- Greenergy Chicago, Inc.
- Groundswell
- Gunnison County Electric Association
- Holland Board of Public Works
- Home Performance Strategies
- ICAST
- ICF
- Independent Consultant
- LINC Housing
- Livable Buckhead
- MA Dept. of Energy Resources
- Minnesota Pollution Control Agency
- Natural Resources Canada
- Natural Resources Defense Council
- New Buildings Institute
- New Ecology
- New York State Energy Research and Development Authority
- Nexant
- NM State Energy Office
- Off The Grid Renovations
- Ohio Wind Working Group
- PA Public Utilities Commission
- Panasonic Eco Solutions
- People's Self Help Housing

Call Attendees: Non-Members (3 of 3)

- POCH
- Preservation of Affordable Housing
- Purdue university
- Salcido Solutions
- Seattle City Light
- Snohomish PUD
- SoundView Risk Advisors
- South-central Partnership for Energy Efficiency as a Resource
- Southface Energy Institute
- Southwest Energy Efficiency Project
- Stone Energy Associates
- Sustainable South Bronx
- TerraCel Energy
- The Association for Energy Affordability, Inc
- The Cadmus Group, Inc.
- The Renaissance Collaborative, Inc
- Thermostat Recycling Corporation
- TNDC
- TVA
- UAO
- UIL
- University of Illinois at Urbana-Champaign
- UpGrade Athens County
- US Dept of HUD
- US EPA
- USDA
- V3
- Washington State Department of Commerce

Closing Poll

- After today's call, what will you do?
 - Seek out additional information on one or more of the ideas – **67%**
 - Consider implementing one or more of the ideas discussed – **33%**
 - Make no changes to your current approach – **0%**
 - Other (please explain) – **0%**



Opening Poll

- Which of the following best describes your organization's experience working with multifamily programs?
 - Very experienced/familiar – **67%**
 - Some experience/familiarity – **16%**
 - Limited experience/familiarity – **11%**
 - No experience/familiarity – **6%**
 - Not applicable – **0%**



Wild Card Poll

What challenges would you face in implementing EZ-Retrofit or a similar energy audit tool?

Responses:

- Access to data
- Lack of in-person feedback
- Non-interactive savings between measures
- Determining which units use the most energy
- Industry recognition and use



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Wild Card Poll

What is the biggest obstacle to getting multifamily property owners on board with energy efficiency upgrades?

Responses:

- Money
- Low Incentives
- Funding Initial Audits
- Complex Ownership Structure
- Competing Priorities



50

Wild Card Poll

What is the biggest obstacle you would face in embracing (or expanding) data benchmarking in your program?

Responses:

- Data Access
- Access to Aggregate Utility Data
- Obtaining Tenant Utility Data
- Disruption to Tenants
- Initial Costs



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Peer Exchange Call Series

We hold one Peer Exchange call the first four Thursdays of each month from 1:00-2:30 pm ET

Calls cover a range of topics, including financing & revenue, data & evaluation, business partners, multifamily housing, and marketing & outreach for all stages of program development and implementation

Upcoming calls:

- September 22: Home Improvement Catalyst Quarterly Call (201)
- September 29: Highlights from ACEEE Summer Study Sessions (201)
- October 6: Secret Sauce: Recruiting and Retaining Qualified Contractors (101)
- October 13: Moving Beyond Split-Incentives: Engaging Rental Property Tenants and Owners in Energy Efficiency (301)

Send call topic ideas to peerexchange@rossstrategic.com

See the Better Buildings Residential Network Program [website](#) to register

Thank you!

America's
got Talent

Multifamily

Please send any follow-up questions or future call topic ideas to:
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