Better Buildings, Better Plants
SUMMIT

Learn more: betterbuildingssolutioncenter.energy.gov/summit
Multifamily Sector Meet-up

Wednesday, May 18
9am ET
Agenda

1. Welcome and Introductions
2. Progress of the Multifamily Sector
3. Updates and Q & A with HUD
4. Goal Achiever Spotlight
5. Panel/Audience Discussion: Electrification Policy and Program Needs for Multifamily Housing
6. Closing
Don’t Miss the Summit’s Multifamily Events:

• Wednesday, May 18 from 11am – 12pm ET
  • Cutting Edge Retrofit Solutions in Multifamily Housing

• Wednesday, May 18 from 2 – 3:30pm ET
  • Electrification in Existing Multifamily Buildings: Challenges and Solutions

• Thursday, May 19 from 10:30am – 12pm ET
  • Multifamily Passive House 101: Key Pitfalls and Smart Strategies

RiseBoro Community Partnership’s Passive House certified Knickerbocker Commons property
Better Buildings Multifamily Sector
2021 Progress Report
Better Buildings Multifamily Sector Partners

91 Multifamily Partners
Multifamily Sector Housing Units by Subsector

708,000 housing units

- Public Housing Units: 45%
- Assisted Housing Units: 33%
- Market-Rate Housing Units: 22%
Better Buildings Challenge Multifamily Partnership Commitment

**Partner Commitment:**
Reduce energy use by 20% portfolio-wide over ten years, and share results

**Commit**
Senior Executive signs

**Report Data Results**
Annually share property level energy data

**Share Stories**
Showcase Project Implementation Model

**HUD/DOE Commitment:**

**Assist**
Provide technical assistance
Support case study development

**Connect**
Facilitate peer learning and exchange
Connect with subject matter experts

**Recognize**
National/local recognition
Showcase partners with innovative and cost-effective marketplace blueprints
Multifamily Sector Progress to Date

Across **708,000 housing units and 620 million square feet**, we’ve saved:

- **26 Trillion** Cumulative BTUs Saved
- **$247 Million** Cumulative Cost Savings
Multifamily Cumulative Cost Savings

Estimated Multifamily Cumulative Cost Savings, 2015 - 2021

<table>
<thead>
<tr>
<th>Year</th>
<th>Cost Savings (million dollars)</th>
</tr>
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<tbody>
<tr>
<td>2015</td>
<td>$1</td>
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<tr>
<td>2016</td>
<td>$16</td>
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<tr>
<td>2020</td>
<td>$199.9</td>
</tr>
<tr>
<td>2021</td>
<td>$246.7</td>
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</tbody>
</table>

Key:
- Public
- Mixed = Assisted/Market rate
- Assisted
Multifamily Energy Benchmarking

Multifamily Partners by Data Reporting Status, 2015 - 2021

- Total Partners
- Partners Meeting Data Reporting Commitment
Introducing: Better Climate Challenge

Goal: Portfolio-wide reduction in operational CO2 emissions of at least 50% within 10 years

- Reduction includes Scope 1 & 2 emissions
- Baseline up to 5-years back from join date
- Encouraged to establish an absolute target, but intensity-based targets will be accepted
- Includes an energy efficiency target/goal
- RECs included, but not offsets

Foundation Communities’ onsite Community Center at their Lakeline Station Apartments Complex
Better Climate Challenge Multifamily Sector

Partners (11)
- Arizona Housing
- Community Housing Partners
- Foundation Communities
- Homeowners Rehab
- King County Housing Authority
- Schochet Companies
- Seattle Housing Authority
- Standard Communities
- Tenderloin Neighborhood Development Corporation
- Veris Residential
- WinnCompanies

Allies (2)
- Elevate Energy
- Stewards of Affordable Housing for the Future
Multifamily Energy & Water Efficiency Resources at HUD Exchange

- Reducing Carbon Emissions
- Utility Benchmarking
- Building and Product Standards
- Retrofit Planning
- Operations and Maintenance
- Resident Engagement
- Retrofit Finance
Establishes a set of energy performance goals for achieving zero energy in multifamily residential buildings

The goals are provided for all ASHRAE climate zones, in both site and source energy

Strategies on how to achieve these energy targets are provided throughout the Guide

Now available for free download at https://www.ashrae.org
Largest Passive House project in North America to date

• 26 story mixed-use with 277 permanently affordable units
• Implements high efficiency building systems with an air-tight building envelope, energy recovery ventilation, and sustainable features to significantly reduce heat loss and gain
• Consumes up to 70% less energy than conventional housing
• Features include: vegetated roof deck, robust detailing individual tenant controls, energy efficient appliances
2Life Communities Case Study: Covid-19 community response and infrastructure improvements

Worked to protect 1,500 senior residents from COVID-19

Community Response Improvements:
- Provided 3 meals/day for all residents to shelter in place
- Hired 50 “Helping Hands” workers for meal-delivery, trash pickup, cleaning, and companionship
- Partnered with Combined Jewish Philanthropies/MIT/Broad Institute to test all residents/staff every 2 weeks
- Hired on-site epidemiologist to organize safety protocols and interventions

Infrastructure Improvements:
- Doubled new office space’s air exchange
- Installed bipolar ionization equipment in HVAC makeup air units and some main air handlers; ran fans continuously instead of on a timed cycle
Lauren Ross
Senior Advisor for Housing and Sustainability
U.S. Department of Housing and Urban Development
Q & A
Celebrate the 2022 Multifamily Goal Achievers!
Better Buildings Challenge Multifamily Sector Past Goal Achievers

2021
• Cleveland Housing Authority (TN)
• BRIDGE Housing

2020
• Mercy Housing
• Preservation of Affordable Housing
• Corcoran Management
• Trinity Housing of Greeley

2019
• Cambridge Housing Authority
• Tenderloin Neighborhood Development Corporation (energy + water)
• Keene Housing (water)

2018
• Jersey City Housing Authority

2017
• 2LifeCommunities
2022 Goal Achiever: Minneapolis Public Housing Authority

- 4,500+ public housing units
- Achieved savings through Energy Performance Contracts that included LED upgrades, ENERGY STAR appliance replacements, insulation, and preventative maintenance program for HVAC equipment
- Employed resident engagement strategies

Achieved 20% energy savings
Mary Boler, Director of Operations
About MPHA

- Minnesota’s largest housing authority
- Serve about 26,000 individuals every day
- 42 High-rise Buildings
- Family Housing/Scatter Sites
- Section 8/Vouchers
Background

• Partnered with Honeywell on an Energy Performance Contract
• Installed efficient home devices in 5,000+ units
• Adjustments in mechanical rooms
• Establishment of agency-wide commitment to energy savings
Energy Reduction

**Robust Preventative Maintenance Program**
- Preforming tune-ups on equipment
- Ensuring equipment is running at optimal levels
- Use of technology to monitor equipment

**Appliances**
- Replacing old equipment with energy-efficient models
- Partnering with the Minnesota Department of Energy and Franklin Energy for funding
Energy Reduction

**LED Lighting**
- Replacing all lamps indoors
- Installing energy efficient lighting outdoors
- Utilizing rebates

**Tighter Building Envelope**
- Caulking and Sealing
- Rooftop Insulation
- Exterior Inspections

**Staff and Tenant Engagement**
- Educating Staff and Tenants
Thank you!
2022 Goal Achiever: District of Columbia Housing Authority

- 5,933 public housing units
- Served as its own Energy Services Company and funded a $26 million energy performance contract named the Energy Capital Improvement Program
- Targeted savings through HVAC, lighting, and water improvements

Achieved 21% energy savings
2022 Goal Achiever: Jamaica Plain Neighborhood Development Corporation

- 372 affordable housing units
- Partnered with Peabody Properties
- Implemented measures including LED upgrades, high-efficiency boilers, outdoor reset controls, and solar hot water
- Secured $1.3 million in grants for electrical retrofits and boiler upgrades.

Achieved 22% energy savings
Panel Discussion: Electrification Policy and Program Needs for Multifamily Housing
Today’s Panelists

• **Moderator: Ilene Mason, Founder and CEO**
  • Rethinking Power Management

• **Bomee Jung, Co-founder and Co-CEO**
  • Cadence OneFive

• **Ryan Freed, Senior Director for Policy & Regulatory Strategy**
  • Institute for Market Transformation

• **Ravi Malhotra, Founder & President**
  • ICAST
Question: What are the policies that you want our multifamily community to be advocating for in the context of electrification and decarbonization?

Answer the question above and provide feedback on this session in the Summit App!

1. Download the Whova app to your mobile device or use the QR code to access the web version.

2. Select the Multifamily Meet-up session and reply to the poll
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