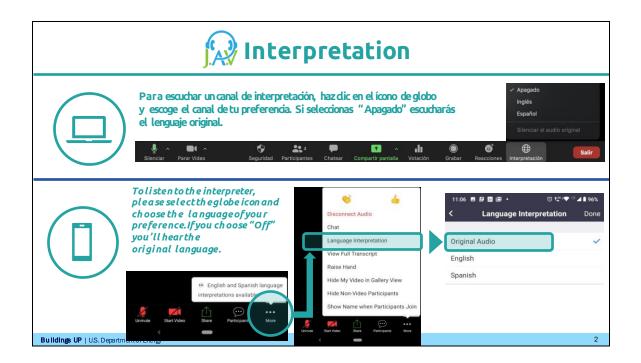


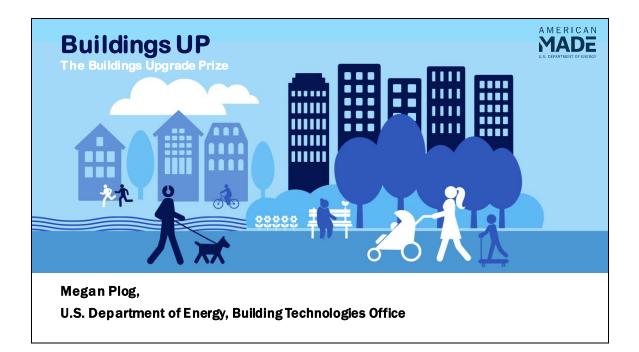
This webinar covers the fundamentals of energy efficiency programs. Attendees learn about the various factors and organizational practices that influence the success of pursuing energy efficiency upgrades in affordable housing and underserved commercial buildings. Speakers present the landscape of programs that teams might consider to advance energy efficiency and clean heating and cooling technologies in their communities, including their benefits and potential negative impacts. Lastly, we take a deep dive into one or two select program models (e.g., one-stop-shops) to understand what it takes to stand up and implement these initiatives.



Housekeeping Announcements

- We are recording this webinar and will be making it available to all registrants within a few business days.
- To ask a question during the webinar, please submit it via the Q&A button at the bottom of your screen.
- You can upvote questions in the Q&A box that you would like us to prioritize.
- Use the chat to engage in respectful and productive discussion with other participants.
- Code of conduct: R2E2 will not tolerate behaviors that cause harm or disrupt the learning environment. Please direct message Henry Love if you feel unsafe in this space. Disruptive participants may be removed from the webinar.

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The Buildings Upgrade Prize (Buildings UP)

Buildings UP is designed to rapidly scale <u>energy efficiency and efficient electrification building upgrades</u> in communities across the country. The prize is envisioned to consist of four phases over approximately five years.

Application support prizes available for new and under-resourced teams.



Phase 1: Concept

- \$22M+ in Prizes to Teams + Technical Assistance
- Applications due by July 18, 2023
- Seeking 20–60 teams to join the "coopetition."



www.heroX.com/buildingsUP

Buildings UP | U.S. Department of Energy

Prize Goals

Buildings UP aims to address persistent<u>non-technical</u> barriers to improving building energy efficiency and reducing on-site emissions (e.g., administrative, financial, social, and other barriers).

Buildings UP is a capacity-building prize to support teams with solutions that:

- Accelerate building upgrades for efficiency and on-site emissions reductions beyond current best practices in the applicant's identified area of focus
- Demonstrate scalability and replicability across building type(s), climate zone(s), and/or, community type(s)
- Advance holistic and lasting energy efficiency and efficient electrification initiative development
- Benefit underserved communities by ensuring that benefits accrue to equity-eligible buildings*, their occupants, and surrounding communities.

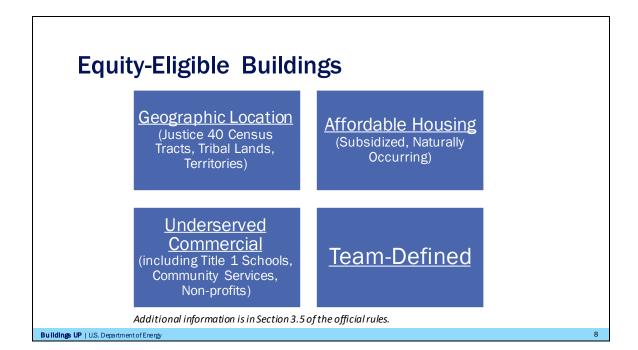
*Equity-eligible buildings include buildings in disadvantaged communities; low- and moderate-income (LMI) households; and underserved commercial, nonprofit, and public buildings.

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Example Projects*

A rural electric cooperative partners with a local CBO and the county to help LMI single-family hom e residents



transition from **propane heat** to **efficient electric heat pumps.**

A K-12 school district and an energy services company partner to electrify district buildings.



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A CBO in a midsized town in the southeast partners with the local government to bring heat pumps (and air conditioning!) to affordable housing buildings throughout the community.



A **national residential property owner** teams up with **multiple local governments** and



A business improvement district in a large city neighborhood partners with local houses of worship

.



to bring efficient electric heating and cooling equipment to small businesses.

+Innovations!

* Minimum technologies and strategies teams must include in their initiatives:

- Weatherization and envelope improvements (e.g., insulation, air sealing, window improvements) where needed to reduce energy costs
- Efficient electric heating and cooling equipment (e.g., heat pumps and/or heat pump water heaters).

Seeking Innovations to Address Non-Technical Challenges to Widespread Building Upgrades

- Lack of contractor and occupant familiarity with technologies
- High first costs for upgrades, limited short-term payback
- Lack of retrofit materials and equipment
- Insufficient workforce to complete upgrades
- Lack of reach of funding and incentive programs to historically underserved households and building owners
- Inconsistent quality of work and consumer mistrust.

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Application Support Prize Overview

The Application Support Prize is available for the first 50 winners.

Award Criteria for Application Support Prize

In addition to the <u>eligibility requirements of Phase 1</u>, applicants must:

- Confirm no organizations on their team have secured funding from DOE's Building Technologies Office in the past 5 years
- Ensure the lead organization represents a community with equity-eligible buildings or its mission is to serve communities with equity-eligible buildings
- Demonstrate that application support would allow them to develop a competitive Phase 1 submission and confirm an intent to apply.
- Confirm concept includes minimum techs and strategies

Application Support Prizes

- \$5,000 cash prize
- Up to 10 hours assistance

Support Provider

Elevate
<u>https://www.elevatenp.org/about/</u>

Rolling submission due dates*

11

- February 15
- March 15
- April 26

*Later submission due dates may be canceled if prize funds are exhausted in earlier rounds. Cancellations will be posted on HeroX.

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Next Steps for Competitors

- Follow the prize on HeroX.com, read the rules, and review the FAQs.
- Register for an Informational Webinar: May 4, 2023 (or see recording on HeroX.
- Create an account on HeroX and click on the "Solve this Challenge"
 button.
- Apply for application support (if eligible) by April 26 at 5 PM ET.
- Team up and submit a Phase 1 "Concept" application via HeroX by July 18, 5 PM ET.

Follow: www.HeroX.com/BuildingsUP Questions?: buildingsUP@nrel.gov

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Energy Efficiency Programs 101

Mary Jo Warskow Elevate Dave Ribeiro ACEEE

Residential Retrofits for Energy Equity

Buildings UP The Buildings Upgrade Prize

Meet Your Presenters



Mary Jo Warskow Associate Director, Municipal Technical Assistance & Consulting Elevate



Dave Ribeiro Director, Local Policy ACEEE



Residential Retrofits for Energy Equity (R2E2) is a new nationwide initiative that provides trainings to state, local, and tribal governments as well as community-based organizations and other partners to jumpstart energy upgrades for affordable housing that will lower utility bills, reduce greenhouse gas emissions, improve residents' health, create good-paying local jobs, and help advance racial equity. R2E2 is supporting the Buildings Upgrade Prize by providing training and technical assistance to applicants and awardees.



Learning Objective

Understand the key components of a successful buildings upgrade initiative and how you can apply them in in your Buildings UP concept plan in a way that provides the most benefit for your community.



Buildings UP Scoring Overview

Phase 1 Concept Plans (due July 18) are scored against scoring statements under each prize criterion.

One narrative is required for each criterion. The summation of narratives constitutes the Concept Plan.

Learn more details a bout the criteria and scoring at an upcoming Buildings UP Informational We binar: May 4, 11 a.m. ET

https://www.herox.com/BuildingsUP/229upcoming-webinars-recordings

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This webinar is most relevant to the following prize criteria:

- Buildings UP Phase 1 Scoring Criteria (equally weighted)
- 1. Assessing & Prioritizing Challenges
- 2. Addressing Challenges Through Innovation: Initiative Scope and Impacts
- 3. Scaling & Replicating Innovation through Community Involvement
- 4. Demonstrating Capabilities & Team Characteristics Critical for Success

5. Achieving Equitable Building Upgrade Strategies (additional criterion: Equity-Centered Innovation Pathw ay)

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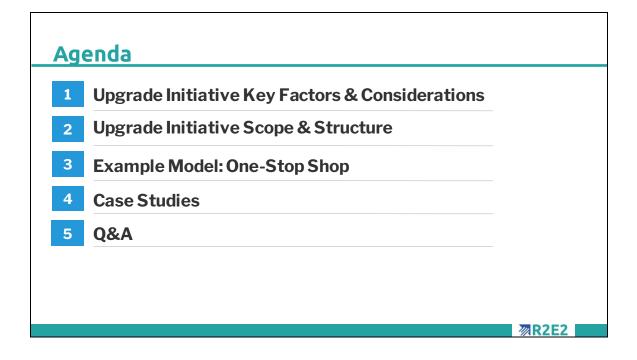
For the Buildings Upgrade Prize, teams will submit applications composed of narratives about their Concept Plans. Concept Plans are scored based on how strongly reviewers agree with scoring statements.

The relevant scoring statements to this training are criterion two, "Addressing Challenges through Innovation", and criterion 5: "Achieving Equitable Building Upgrade Strategies."

Some examples of specific areas of evaluation under these criteria include:

Criterion 2, Bullet 1: The building upgrade initiative addresses identified challenges with innovations that can deliver significant results, such as: o Scalable and replicable models that streamline implementation of upgrades

Criterion 2, Bullet 4: The team has identified potential negative impacts to residents/occupants and described preliminary plans to minimize negative impacts.

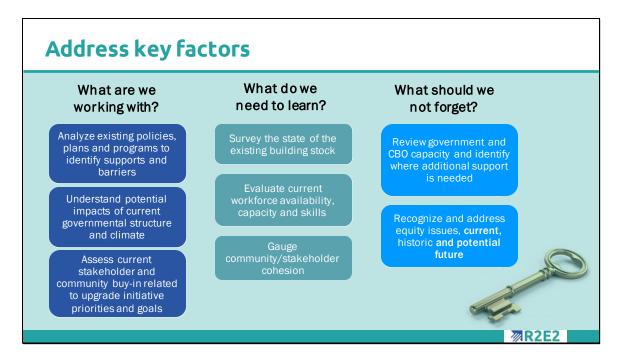


Poll Question

My experience with building upgrade programs is:

- a) None
- b) Participated in the planning stage
- c) Participated in the implementation stage
- d) Participated in both the planning and implementation stages

Upgrade Initiative Considerations & Best Practices



The key factors to be considered when designing a building upgrade initiative can be grouped into 3 categories:

What are we working with?

- Identify what policies, plans and programs currently exist regarding building upgrades, energy efficiency and the like and what impact they will have on your upgrade initiative design, either positive or potentially negative.
- Understand how the way the governmental entities you will need to work with are structured and any dynamics that will impact how you work with those entities.
- Think about stakeholders and the communities current attitudes towards building upgrades in general and specifically your initiative's goals.

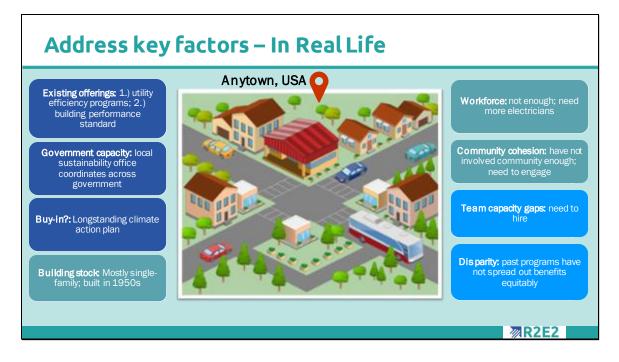
What do we need to learn?

- What types of buildings are in the community, how many of each, how efficient are they currently?
- In terms of contractors who can perform the upgrades you are planning, are there enough, do they have the right skills, do they have the capacity to take on additional projects?

• It is important for your team, stakeholders and the community to make decisions on goals, services, processes together. How well the stakeholders and the communities currently work together will have a big impact on your ability to achieve consensus and design a successful initiative.

What should we not forget?

- Designing, planning, implementing and monitoring an upgrade initiative takes time and effort. So you want to ensure that team members, including the government entities, have the staff and time available to work on the initiative. And if not, you discuss ways to increase capacity.
- Whether you are applying for the equity eligible buildings or the open innovation pathway, your upgrade initiative should be designed and implemented through the lens of equity and inclusion. Therefore, it is important to understand and address any historic, current or potential future equity issues.



The previous slide provides key steps to think through when considering an initiative.

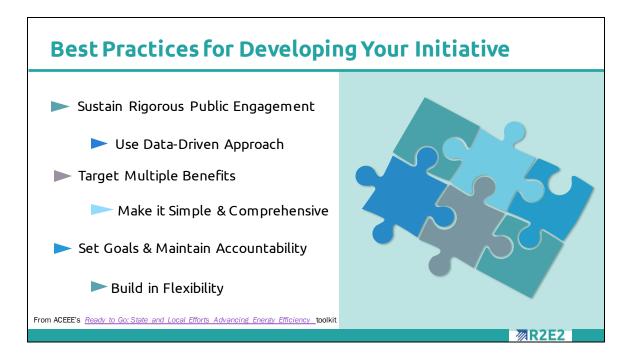
Here, we want to put it into practice.

Example Anytown USA

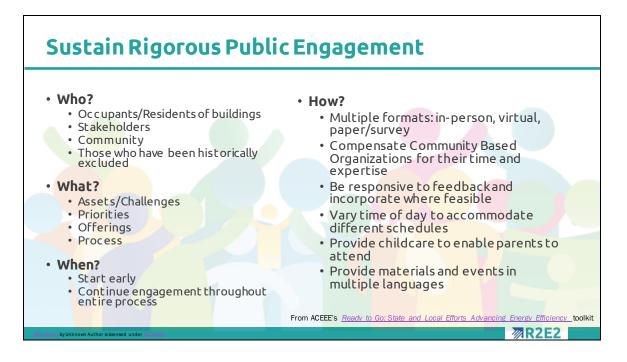
- Do other programs exist that you can take advantage of for resources? And/or do other related programs or policies exist that will limit what services can be offered or who they can be offered to or how they can be offered?
- Are the governmental structures complex and cumbersome which will add time to your planning and implementation? Is there one point of contact who can help gather and focus resources? Is the current government operating smoothly or are there issues that will cause bottlenecks in your planning and implementation?
- Is there resistance to climate change focused initiatives? Is there a big issue, e.g. education, policing, healthcare, that are consuming everyone's attention and time.
- Do you have a lot of small wood-framed townhome style homes or large brick

multistory buildings? What type of fuel is primarily used for heating and is it generally centralized, in-unit or mixed? Are there any unique building types that are a challenge?

- Are there sufficient number of contractors familiar with electric heat pumps and water heaters? If not, what training resources currently exist?
- Is there ill-will between different groups of people? Are certain stakeholders difficult to get to the table to listen to others' input?
- How many people can be dedicated to the initiative full-time? Is there sufficient resources to support the staff member?
- Are there historic practices that have negatively impacted a certain community or population of residents? Are those practices still in place in any way? How can those be addressed?

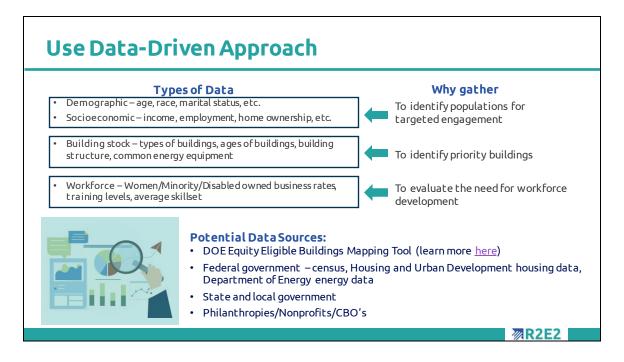


The Buildings Upgrade Prize is looking for innovative approaches, however best practices that have been tested and are successful should be employed.



To ensure you are designing an initiative that will be utilized and actually meets the needs of the community, broad and deep public engagement is critical.

Stakeholders are anyone who is impacted by the initiative, whether directly or indirectly, and anyone who has influence over the process or decisions.



The initiative should be appropriate for the population, building stock and current resources. Data analysis should be conducted in order to determine what those are for your community.

Use Data-Driven Approach

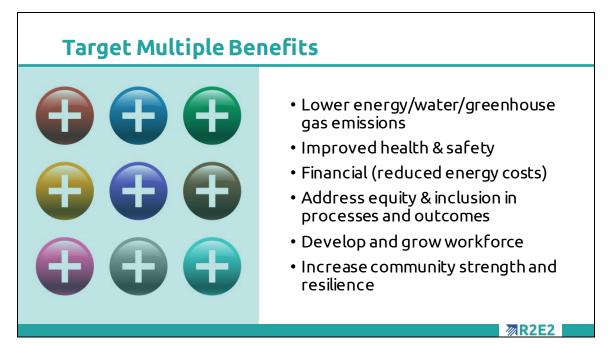
Recommendations:

- Don't overlook community sources of data
- Field test/truth quantitative datasets
- Use qualitative as well as quantitative data
- Keep data limitations in mind
- Utilize partner organizations and other governmental agencies
- Compensate for time and work
- Publish to build transparency and trust



- Large, national datasets are not always the best. Smaller, more local datasets can provide better insight.
- Just because a piece of data says something, doesn't necessarily make it true. Do observations and conduct surveys/interviews to ensure the data results are accurate.
- First-hand stories can inform just as well as numbers.
- The data may be specific to just a particular region or climate or technology or the dataset might have been very small. Be sure to understand why the data might not be 100% accurate for your situation.
- Reach out to the people who work with data frequently. They will have good suggestions on what data is available and how to get it.
- Whoever is performing the data analysis should be fairly compensated. Doesn't have to be financial, could be exchange for services, access to certain funding etc.

• Whatever data is used in designing your program, make the data publicly available so stakeholders can feel confident that your assumptions are based on good information.



The goal of the Buildings Upgrade Prize is to help address climate change by upgrading existing buildings to efficiently run on clean energy.

In addition to helping achieve that goal, upgrade initiatives can target other related benefits.



Keep in Mind Unintended Consequences

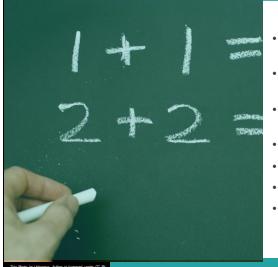
- Gentrification and displacement?
- Burdensome debt?
- Increased energy burden, especially if electrification is not strategic?
- Benefits accrue to building owners rather than tenants?
- Lack of backup power during long outages?
- Challenges for maintenance staff and occupants to use new technology?



While no one wishes for negative or unintended consequences as a result of their upgrade initiative, they nonetheless may happen. Therefore it is important to identify potential negative consequences and develop strategies for avoiding or minimizing their effects.

The issues listed on the slide can be very complicated and sensitive. Therefore, as much as we would like to provide a matching list of solutions, the best solution is to discuss these issues with stakeholders and the community and develop strategies that are best suited to your initiative and community.

Make It Simple, Accessible and Comprehensive



- Simplify access to information and application for resources
- Provide resources that are in clear, non-technical language and are easy to understand
- Provide resources and services in multiple languages
- Address health and safety as well as energy
- Include community engagement and education
- Coordinate with similar upgrade initiatives
- Provide free technical assistance for multiple services

R2E2

- If it is difficult to find information or to apply for the program then your are inadvertently limiting the reach of your initiative.
- Relate technical concepts to people's everyday lives or more easily understood concepts
- A building that has mold can't be made more air-tight until the underlying moisture issues are rectified
- Spread the word and explain the benefits so everyone can participate and reap the rewards.
- Don't re-invent the wheel. If there is an initiative that is already successfully addressing some of your priorities or goals, partner with that initiative.
- Many technologies require technical assistance to ensure that they operate efficiently, so offer technical assistance to achieve your goals.

Set Goals and Maintain Accountability

- Define objectives with clear and measurable metrics
- Look at every objective through an equity, inclusion and community benefits lens
- Provide transparency on program progress



- Goals should be identified upfront and a process for measuring progress to the goal should be created.
- Be sure that the goals and objectives take equity into account and are addressing the needs of the community.
- Report on progress toward the goals in a publicly accessible way.

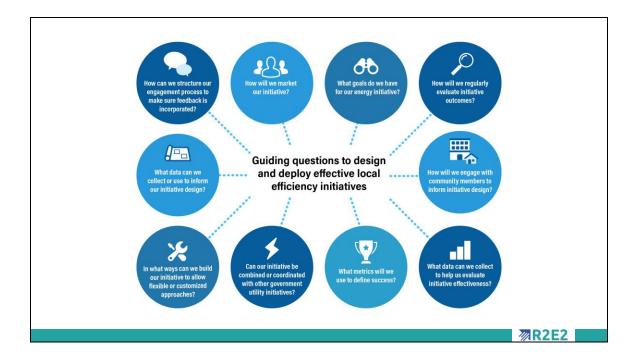
Build in Flexibility



- Targets, approaches, technologies should vary to meet different community needs and priorities.
- Be able to make changes in response to:
 - Community input/feedback
 - Issues arising during pilot or early implementation
 - Changes in underlying policy environment

R2E2

• The initiative will need a good structure to be successful, but the structure shouldn't be so rigid that it does not meet the needs of different populations or communities or can't change to address new requirements or challenges.



Poll Question

Which best practice would you like more information on (select all that apply):

- a) Conducting rigorous public engagement
- b) Using a data-driven approach
- c) Targeting multiple benefits
- d) Addressing unintended consequences
- e) Designing initiative to be simple, accessible and comprehensive
- f) Setting goals and maintaining accountability
- g) Building in flexibility



Policies vs. Programs

Policy

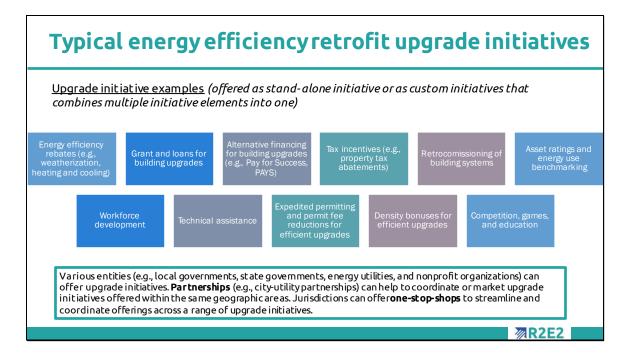
- Instituted bygovernmental bodies through legislation or regulation
- Provides standards for retrofits
- Many policies specific to certain aspects of retrofits
- Some policies provide an umbrella for not only retrofits but related aspects (e.g. workforce development)
- Are not required to be funded



Program

- Instituted by a variety of entities
- Concerted initiatives to undertake retrofits
- Must work within the standards set by policies
- Must be funded
- Can address specific retrofit areas or entire buildings or even related aspects (e.g. health & safety)





What does an initiative look like? This slide is a summary of different types of initiatives to advance retrofits. Each box represents a different initiative or an element of a custom initiative that combines multiple programmatic elements.

For example, take the example of energy efficiency rebates, one of the first boxes on the slide. In this case, a utility could offer energy efficiency rebates for heating and cooling equipment. That's a straightforward, simple program.

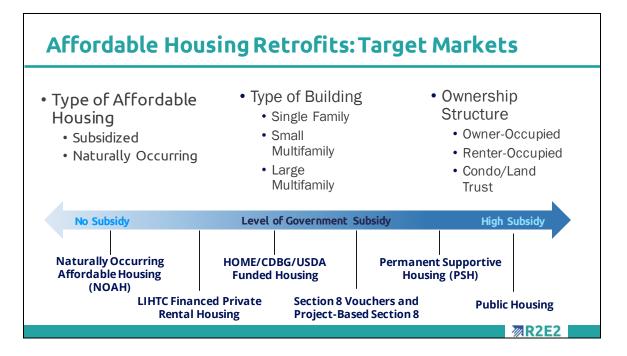
On the other hand, a custom program could combine rebates as an element within a larger program. For example, a city's voluntary benchmarking program could market energy efficiency rebates offered by the utility. In that case, the benchmarking element is combined with rebates. It's still a straightforward design but the combinations seeks to increase impact.

As this slide shows, there's lots of options for initiatives.

One takeaway is that there are lots of different building blocks to consider to advance retrofits. In fact, this list could be helpful to stakeholders in your community to figure out what type of program or combination of programs is best

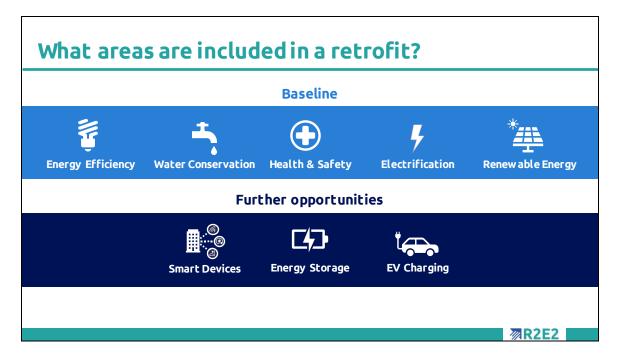
for your Buildings UP concept.

Also, as the bottom of the slide notes, there are different options are who administers these programs. One entity could manage the whole process. Different entities like cities and utilities could partner. And last, models like onestop-shops can streamline and coordinate offerings from a range of entities.



There are multiple types of affordable housing, building typologies, and ownership structures and each has its nuances in how they can engage in a retrofit program.

When designing your initiative, it's important to understand the need of your community. What building types are in greatest need of retrofit services? What's the ownership structure for them? What type of affordable housing has the greatest need, from naturally occurring to public housing (as the spectrum on the bottom shows). Getting a better handle will help in program design decisions.



Retrofit programs can include many different types of upgrades, depending on the scope and goals of what you are trying to accomplish.

The R2E2 team recommends a baseline retrofit of energy efficiency for example, with further opportunities such as EV charging and energy storage.

Please note though that the buildings UP minimum technologies are weatherization and energy efficiency to reduce costs and electrification of heating and cooling equipment.

What Else to Include in an Upgrade Initiative?



- Access to Capital
 - Grants
 - Incentives
 - Low-Cost Loans
 - Alternative Financing



- Economic Development
 Workforce Training
 - Contractor Support
 - Wealth Building
 - Community Ownership
 - Innovation



- Resilience
 - Critical Services
 - Mobility
 - Digital Access
 - Financial Literacy
 - Environmental Justice

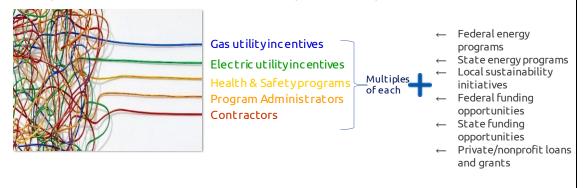
R2E2

This slide is another way to think about an approach to custom initiatives with multiple programmatic elements. As you saw on the slide a few back, there are simple straightforward initiatives with one programmatic element. However, other than rebates or efforts scoped to specific measures, you can consider ways to have broader impact by providing access to capital, advancing economic development goals (including health building in disinvested communities) and resilience and environmental justice considerations.

Example Upgrade Initiative Model: One-stop Shops

Why a One-Stop Shop Model?

Retrofits can be complicated. Often owners/occupants must navigate many programs with disparate requirements and multiple points of contact. The more comprehensive the retrofit, the more complicated the process.



Barriers to Retrofits



- Many fragmented programs
- Lack of targeted outreach efforts
- Disparate eligibility requirements across programs
- Administrative burden
- Costs not covered by existing energy efficiency programs
- Difficulty gaining access to funding



All these variables create complexity for building owners. Having a single point of contact helps to help guide and navigate all the available options to optimize for their desired outcomes.



A One-Stop-Shop can look very different based on what it is solving for, but there are consistent key features that characterize what they provide:

- Single Point of Contact Building owners have an individual who helps them find their way through the retrofit process and maximize the impacts for a positive experience
- Navigate Resources Connect building owners with all available resources and programs
- Technical Assistance Provide building assessments, modeling of possible upgrades and consulting on the final retrofit plan
- Financing Provide or assist in connecting with grants, incentives, and financing options
- Quality Assurance Oversee retrofit process to ensure desired outcomes from contractor work are achieved
- Resident Benefits Ensure the retrofit is providing tangible, meaningful benefits to the residents of the building



Creating a One-Stop Shop: First Steps Survey & Research •Existing and upcoming policies, •Existing and upcoming technology Existing building stock plans and programs and construction practices •Capacities – governmental •Community assets/challenges & agencies, CBOs, workforce needs/priorities Identify funding for capacity building and upgrade initiative design **Buildings UP** Prize Convene committee of stakeholders • Program/service organizations (e.g. utilities, nonprofits, etc.) Community-based organizations •Sustainability consultants •Relevant governmental agencies/departments Building owners

Discuss & obtain initial committee agreement

•Goals •Services to be offered •Target clients/buildings •Metrics to be tracked

Obtain community feedback and adjust accordingly

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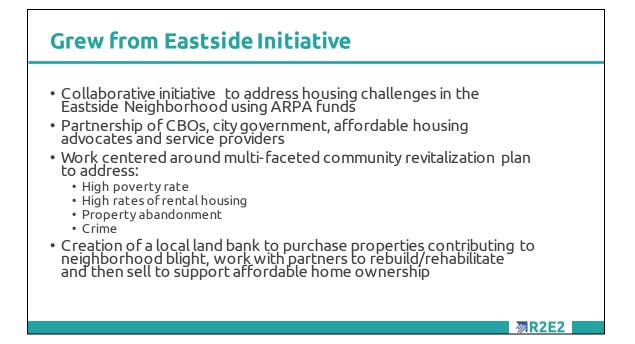
Poll question

In five words or less, tell us in the Chat a challenge you foresee in establishing a one-stop shop for your upgrade initiative.

Example Upgrade Initiatives



This is an excellent example of a one-stop shop that conducted extensive community engagement and included electrification and workforce development in their program goals.



The Climate Smart Homes program grew from an existing initiative with a cohesive group of stakeholders and a clear set of objectives.

Wilmington, DE: Climate Smart Homes

Goals:

- Support community revitalization with highperformance, climate-ready, healthy housing
 - Affordable housing for households <80% of the AMI (homeownership or rentals)
- Deliver all-electric homes to low- to moderateincome owners and renters
- Support workforce development through training and exposure to new materials and approaches
- Transform the residential construction market



Retrofit Opportunity

Need: Capital constraints of affordable housing development limited efficiency to code compliance with gas-fueled equipment

Opportunity: Increase efficiency and eliminate gas-fueled equipment

Climate Smart Homes offering:

- Air sealing & insulation
- Windows
- Heat pumps
- Ventilation (Energy Recovery Ventilator)
- Heat pump waterheater
- Basement Water/Moisture Management
- Meet Energy Star and/or DOE Zero Energy Ready Home standards



R2E2

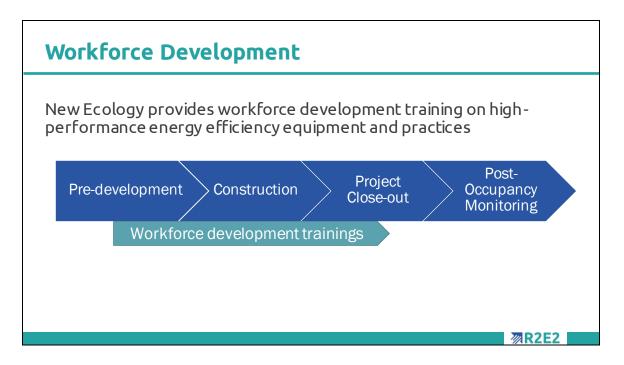
The program was addressing a specific barrier to building upgrades within Wilmington.

One-Stop Shop Model

- Technical Assistance provided by New Ecology from project conception through construction and occupancy
- Individual attention for intake and alignment of owner needs with efficiency measures
- Efficiency assessment and roadmap to help understand efficiency potential
- Contractor coordination and upgrade implementation support
- Incentives and financing coordination
- Tenant engagement at the beginning on goals/priorities and at the end to educate on green practices

R2E2

The services and assistance were bundled so that there was one point of contact who was able to provide multiple resources to each building project.

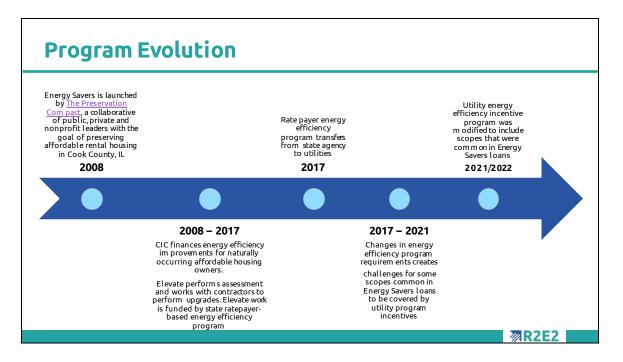


To address a shortage of contractors and energy efficiency workers, the program included a workforce development component that gave contractors and workers first-hand experience in the building upgrade process.

Chicago, IL: Energy Savers

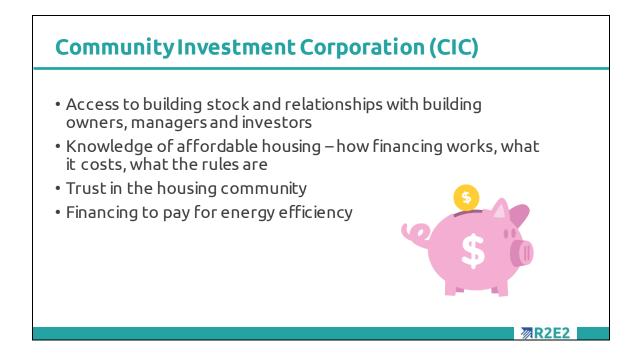


The Energy Savers program in Chicago IL is a good example of a program that utilized a one-stop shop model to provide building upgrades along with funding options for property owners and piggybacked on existing utility energy efficiency programs.



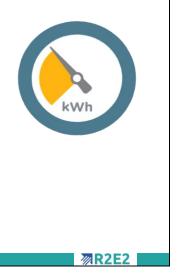
The evolution of the Energy Savers program speaks to the need for program flexibility.

When the administration of the ratepayer energy efficiency incentive programs changes from a state agency to the utilities the program worked with the utilities to adapt program requirements to the meet the scope of a common Energy Savers project.



Elevate

- Building science and engineering expertise
- Knowledge of the energy efficiency retrofit process
- Trusting relationships with energy efficiency contractors
- Access to free energy assessments and efficiency programs and incentives

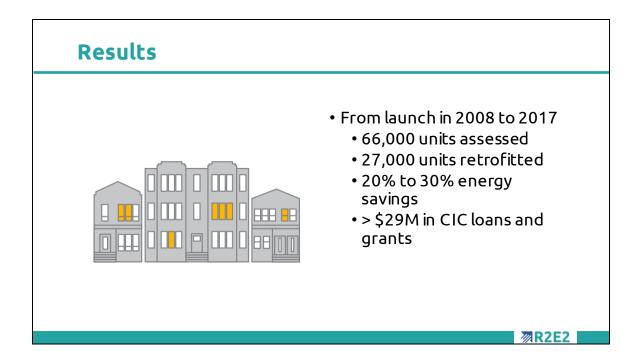


Utilities

- Community outreach and marketing
- Program administration
- Requirement setting
- Contractor management
- Incentives



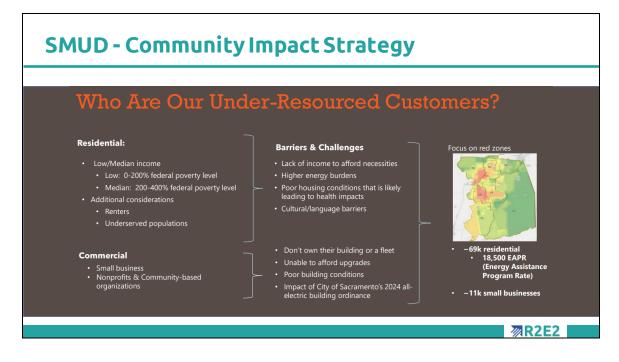
Model	
Utility Companies + + + + + + + + + + + + + + + + + + +	 Property Owner ↓ Vacancy rates and tenant complaints ↓ Utility costs ↑ Tenant comfort, health, and safety ↑ Rental income ↑ Cash for capital improvements ↑ Net operating income (NOI)
Source: https://www.cicchicago.com/programs/energy-savers/	R2E2



SMUD – Community Impact Strategy



The Sacramento Municipal Utility District example demonstrates a thoughtful process that utilized community engagement and a data driven approach.



They took the time to gather data from multiple sources to understand who their under-resourced customers are.



They used what they learned from their data gathering and community engagement to design programs and offerings that met the community where it was at.

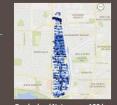
SMUD – Community Impact Strategy

Neighborhood Approach



Potential neighborhoods • Avondale • Parkway • Meadowview Fruitridge Manor • Lawrence Park • North Highlands • Gardenland

Select a group of homes in a red zone: • Age of home • % Energy Assistance Program Rate • % inefficient cooling



Gardenland Natomas: <100 homes

- · Assign contractors to perform direct installation of equipment;
 - Measures may include 1 or more:
 - Heat Pump Space Heating
 - Heat Pump Water Heater
 - Induction Stove/ commercial cooking equipment

 - Solar (<10% of customers)
- Address urban heat through tree planting
- Educate community on climate change impacts, monitoring energy usage, the benefits of electrification;
- In-language and translation support provided as applicable

SMUD – Community Impact Strategy

Convening Partners

Assist in community and consensus building, create and shape policy and work with stakeholders to move projects and initiatives forward. This partnership is ideal for:

- Government agencies
- Community groups and neighborhood associations
- Places of worship
- · Business improvement districts and regional leadership organizations

Implementation Partners

These partners are doing work on the ground in communities where additional need and support exist. They're our day to day connection with the community, alming to improve the area we live in. This partnership is ideal for:

- Community organizations and non-profits
- Chambers of commerce

Alignment Partners

Support projects with resources, funding, intellectual and research capacity and other support. This partnership is ideal for:

- · Banks, credit unions and insurance companies
- Universities
- Health systems
 Private industry partners
- Grants and foundations

Summary

- Do thorough homework utilizing community input and qualitative/quantitative data resources
- Take time to analyze, understand and incorporate key factors
- Employ program development best practices
- Build on existing community assets, partnerships and programs
- Learn from others, but don't just replicate... innovate!

Upcoming Webinars

- April 26- Training Webinar, 1:30 pm ET
 - Considerations for Underserved Commercial Buildings
- April 28- Training Webinar, 1 pm ET
 Drivers of Energy Efficiency in Affordable Housing
- May 4- Informational Webinar, 11 am ET
- May 10- Training Webinar, 1:30 pm ET • Choosing your Building Upgrade Zone
- May 11- Training Webinar, 12 pm ET
 - Building Upgrades: An Opportunity for Workforce
 Development and Economic Inclusion



Scan to view additional details and register for training webinars.

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Office Hours

- April 20- 1:00 pm ET
 - Topics covered:
 - Engaging Stakeholders Across Sectors
 - · Introduction to Comprehensive Retrofits
 - Prize and application questions
- May 2-12:30 pm ET
 - Topics covered:
 - Introduction to Community-Driven Planning
 - Accessing Funding Sources for Building Upgrades
 - Energy Efficiency Programs 101
 - Prize and application questions
- May 15-2:30pm ET
 - Topics covered:
 - Considerations for Underserved Commercial Buildings
 - Drivers of Energy Effiency in Affordable Housing
 - Prize and application questions

Scan to view additional details and register for training webinars.

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Resources

UpgradeInitiatives:

- Elevate and New Ecology's <u>Making Naturally Occurring Affordable Housing More Efficient: Outreach to</u> <u>Upgrade</u> paper on Wilmington, DE program
- CIC Energy Savers program
- SMUD's presentation on their Community Impact Strategy

Toolkits:

- ACEEE's <u>Ready to Go: State and Local Efforts Advancing Energy Efficiency</u>
- ACEEE's *Energy Equity for Renters*

Papers:

- ACEEE's Building Decarbonization Solutions for the Affordable Housing Sector
- ACEEE's <u>Closing the Gap in Energy Efficiency Programs for Affordable Multifamily Housing</u>
- ACEEE's Meeting the Challenge: A Review of Energy Efficiency Program Offerings for Low-Income Households
- ACEEE's A New Lease on Energy: Guidance for Improving Rental Housing Efficiency at the Local Level
- Energy Efficiency for All's <u>One-Stop Shops for the Multifamily Sector</u>

Poll Question

What would you be most interested in exploring more of at an office hours session on this topic?

- a. Key factors to consider for your upgrade initiative
- b. Building upgrade initiative design best practices
- c. One-stop shop model
- d. Case studies
- e. Potential next steps and action items for planning upgrade initiatives

