



**SUSTAINABLE
COLUMBUS**
ANDREW J. GINTHER, MAYOR

CCA Advisory Group Meeting #8

June 10, 2021

Welcome back!



A few Zoom reminders for today

Advisory Group Members:

- **Please mute** when not speaking
- Please *also* **use the chat function to react**, ask questions, and comment!
- Please **rename yourself with name and org** by right clicking on the 3 dots on your image
- **Please note**: this meeting is being recorded and will be shared publicly

Today we plan to reconnect, share updates, and discuss the plan to launch Clean Energy Columbus

- Briefly review what we discussed and heard from you in April
- Provide CCA updates and logistics of the aggregation program
- Share an emerging EE and workforce program design
- Get other advisory group reactions and feedback



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What we heard from you last meeting

Columbus' preliminary website design



In April we asked for your input on the website, and have made changes as a result

Feedback received	Changes we've made to website
<i>Page layout and presentation</i>	Pop up window to make opt-out ability exceedingly clear.
<i>Overall framing and wording</i>	"You Voted. We Listened."
<i>Visual representation of CCA concepts</i>	Clean Energy Columbus video, added City, AEP E, & Trebel logos to who we are section
<i>Other features of interest</i>	Translation on home page to call AEP E in Spanish & Somali



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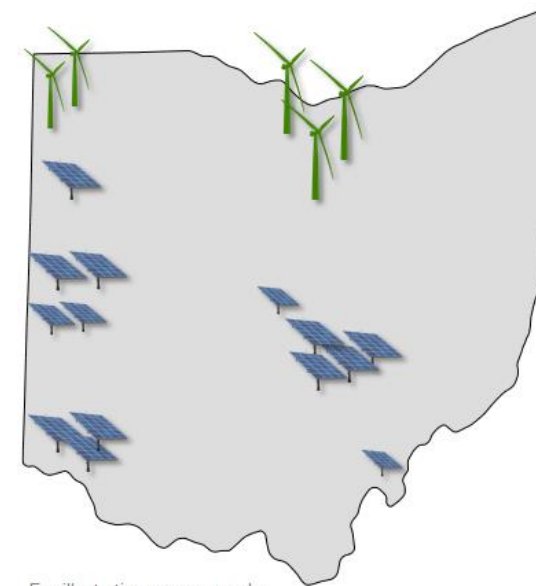
Updates on steps to establish Clean Energy Columbus

How will we achieve our goals?

Review: We will transition quickly to 100% local renewable energy, with a “bridge” phase



Building **new wind and solar generation in Ohio takes time**, especially to produce enough electricity to meet demand in Columbus. **RECs form a bridge** from today's grid mix to local renewables in 2023



Approximate locations of existing or potential AEP renewable installations under contract

For illustrative purposes only

CCA updates

- The **launch is official** as of June 1!
 - Participation reached ~228,298 meters as of early this week, with ~7% opt-out rate
- **Workforce** development committee
 - First meeting in July
 - Committee Co-Chairs: Erin Beck (City) and Frank Willson (AEP Energy)
- Setting up the **fund**
 - Working through logistics and putting together a budget
 - Funding is on a monthly basis

Opt-out process: What we're hearing

- We heard the group's **questions and input** about the opt-out letters and the process of sending them out
- Bimonthly **"Refreshes"** in the fall will send out additional communications



Has everyone received these communications?

CCA updates: Price to Compare of Clean Energy Columbus vs. AEP SSO (~\$1 per month difference)

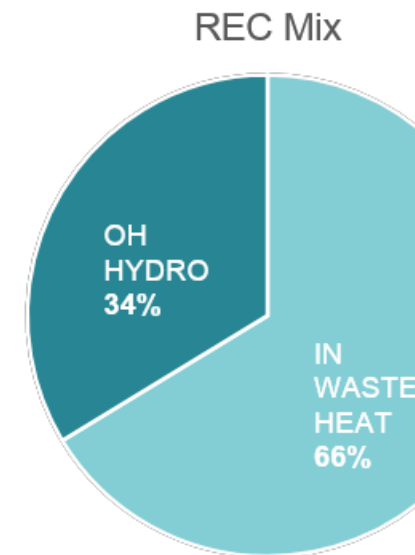
Clean Energy Columbus

- Price: \$.0549/kWh
- June 2021-June 2022
- 100% Clean Energy (Ohio wind & solar)
- Cleaner air, healthier community
- Includes Community Grant the City will use to reinvest in neighborhoods hit hardest by Climate Change
- Supports 4,500 Ohio jobs
- Supports Columbus clean energy jobs & workforce development

Standard Service Offer – AEP Ohio (Default)

- Price: \$.0536/kWh
- June 2021 (Beyond is unknown - fluctuates)
- Traditional grid power mix (mostly coal & natural gas – ie. Dirty power that pollutes)

Clean Energy Columbus– Year 1 REC MIX



Ohio Hydro- Hydro power generated from the Racine Hydro Plant in Meigs County, Ohio

Indiana Waste Heat- Waste Heat recovery RECs from repurposed heat output used to generate electricity

Differences between Solar United Neighbors and Clean Energy Columbus (note: you can do both!)

Clean Energy Columbus is good for:

- For renters or small business owners up to 700,000 kWh/year
- For anyone who does not have the capital to buy panels
- For anyone who does not want a long-term commitment to a project / additional investment to their property
- For a homeowner with an upcoming need for a roof replacement or shaded property

- AEP Ohio customers
- Homeowners

Solar Co-Op is good for:

- DOP customers
- Small business owners up to 30 kW
- You have access to capital and you like the idea of owning your own power generation
- You want battery backup during power outages, perhaps for essential medical equipment or to charge your electric vehicles
- You have a newer roof or ground space with good sun exposure (south or east/west)

Timeline

Q2 2021	Q3 2021	Beyond
<p>June:</p> <ul style="list-style-type: none">-Advisory Group Meeting (today)- Aggregation program began! (June 1)	<p>July:</p> <ul style="list-style-type: none">- Customers receive first electric bill with aggregation program	<ul style="list-style-type: none">- August, October, and December refreshes- Renewable projects come online- Aggregation-supported community programs launch

Temperature Check

- **What questions do you have at this point?**



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Building an Energy Efficiency + Workforce Program

Developing Columbus' EE workforce while driving climate outcomes

In February, we asked for your initial input around energy efficiency programming

Question posed	Advisory group response themes
<i>What type of incentives should be offered for what types of implementation?</i>	Financial rebates or possibly tax credits. Individual development accounts for energy efficiency upgrades. Measures with additional resiliency benefits (insulation, upgrades, etc.)
<i>How many households and what types of upgrades need to be made each year to achieve EE goals?</i>	Since this will largely go to working families, we need to focus not only homeowners but also renters . Many low income renters reside in the most inefficient buildings whose landlords are unlikely to upgrade equipment.
<i>How do we leverage funding / existing programs to expand reach?</i>	Opportunity with Biden administration focus on energy efficiency to have conversations about leveraging funding.
<i>How much would it cost?</i>	Others, including MORPC, can assist in calculating a rough estimate.
<i>Other questions?</i>	How to mitigate displacement caused by upgrades? What layers of assistance can be provided - lowest income, middle income and highest income? Should there be different programming focused on renters vs. homeowners?

We shared that we had worked with partners based on the following 4 ideas you prioritized in our fall 2020 meeting

A Implementation assistance for findings from residential & business energy audits

B Assessments of efficiency opportunities in residential and commercial settings

C Workforce-oriented programs

D Green Banks/loan loss reserve or other financing strategies (e.g. bond)

E Renewable energy opportunities in residential settings (e.g. Solarize programs)

F Incentives to reduce energy use in peak periods

Refresh: Our process for developing a program design by this summer with our partners



Data gathering

Stakeholder discussions

Strawman development and assessment

Refined program design and plan

Housing stock assessment:

- SF/MFB
- Own vs. rent
- % of homes in good repair
- Level of similarity
- Efficiency potential?
- Estimated cost to achieve 10% savings?

Outreach to key stakeholders

- Successful LMI EE programs?
- Potential partners?
- Workforce linkages?
- Additional funding streams to work with?

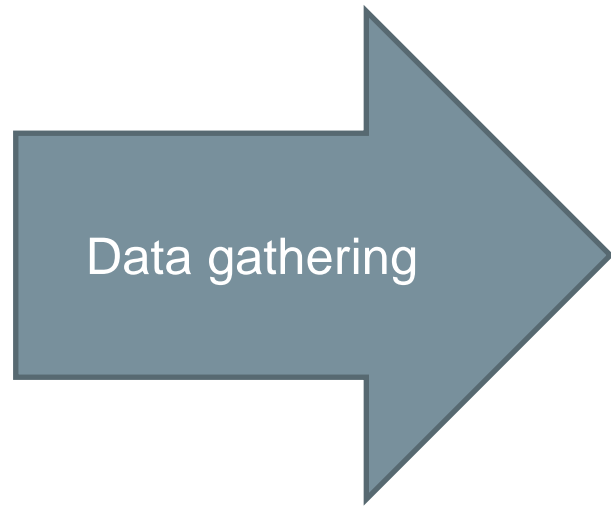
Develop 2-3 potential program design concepts

- Quantitative analysis
- Pros/cons
- Validate and discuss with key stakeholders and potential implementation partners

Develop final program design and scope planning

- Integrate feedback from discussions
- Develop budget and implementation plan
- Identify key milestones

We are now on last phase of refining program design and developing a roadmap



Housing stock assessment:

- SF/MFB
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Columbus' goals for a residential EE program

- Support city Climate Action Plan goal of **reducing residential energy consumption by 10%** by 2030
- Priority is **supporting low-income homes** to make needed retrofits
 - Likely to prioritize outreach to high-energy-burden areas
 - But also want to allow for citywide availability
- We will also include a **workforce training** component

Columbus will use its CCA funds to reduce low - income energy burden with 3-pronged strategy

High-Level Program Outline

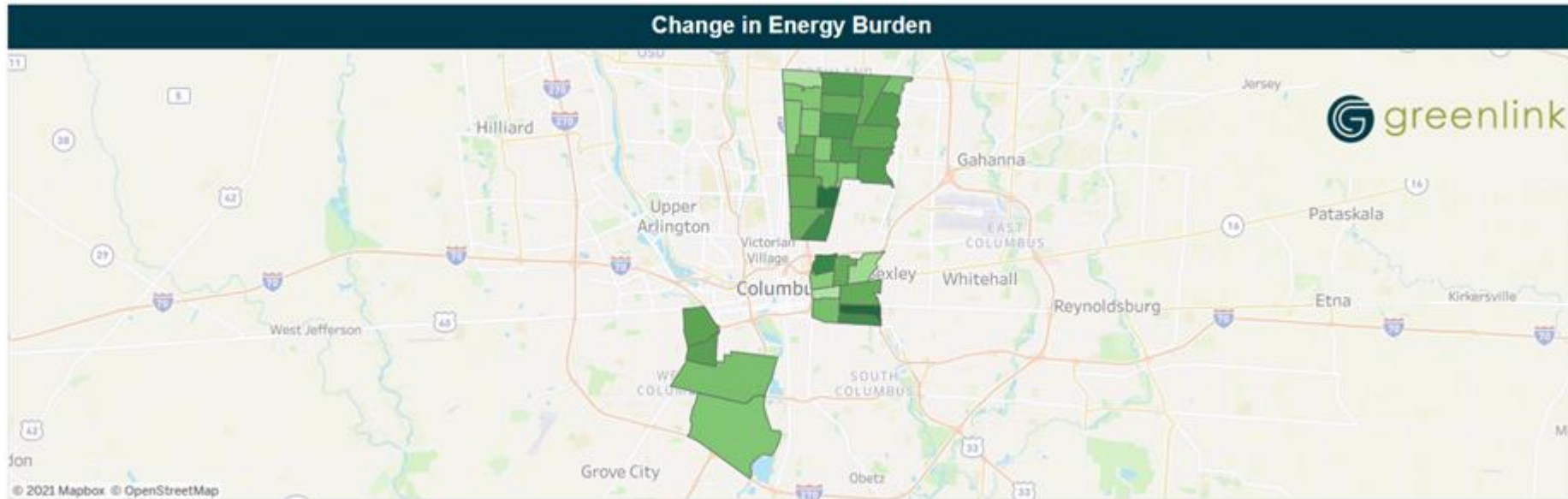
1. Fund **IMPACT and MORPC** to serve households above 200% FPL currently allowed
2. Fund the **replacement of old, inefficient appliances** in units being weatherized
3. Support the development of a **high-road workforce development strategy** that provides a more comprehensive and strategic process **for improving the diversity of the weatherization workforce**, and that also provides successful weatherization technicians with **access to a funded pre-apprenticeship program** in construction trades with partners.



Multiple benefits

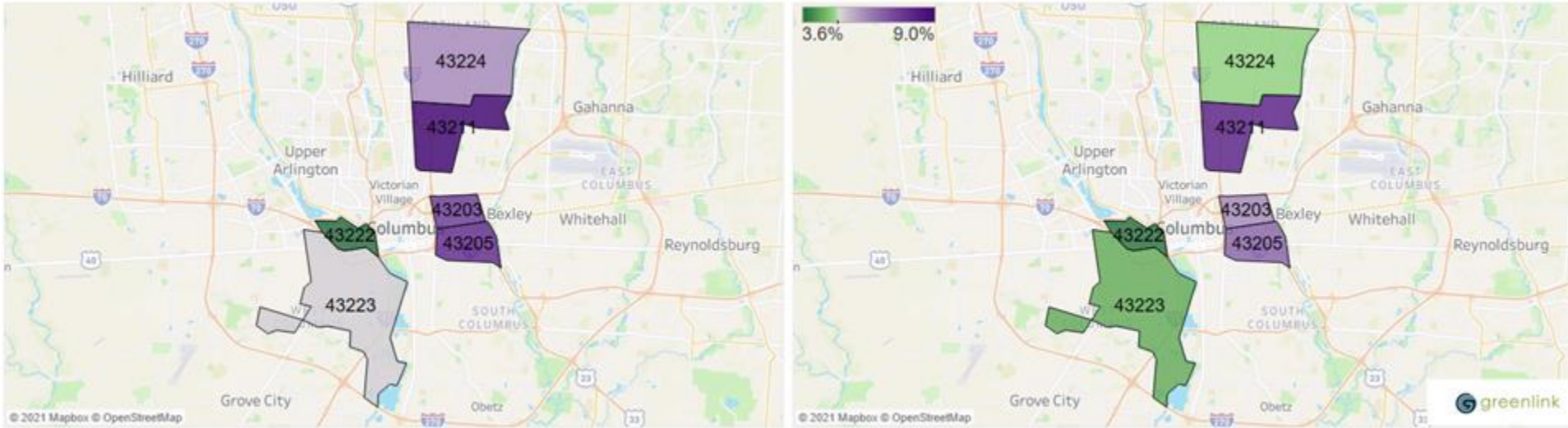
- **Climate:** Energy savings
- **Equity:** Number of energy burdened homes served, economic benefits of weatherization and appliance replacement
- **Job Quantity & Quality:** # of Jobs, Type of Jobs, Placement, Retention, Wages, etc.

Expanded energy efficiency programming will address Columbus' energy burden (no heat pump)



	Average Energy Bill Today	Average Energy Burden	Post-efficiency Energy Bill	Final Energy Burden
Average	\$2,086	7.01%	\$2,033 (-\$53)	6.83%
Minimum	\$845	1.79%	\$827 (-\$18)	1.75%
Maximum	\$3,371	16.2%	\$3,302 (-\$69)	15.89%

Expanded energy efficiency programming will address Columbus' energy burden (with heat pump)



	Average Energy Bill Today	Average Energy Burden	Post-efficiency Energy Bill	Final Energy Burden
Average	\$2,086	7.01%	\$1,896 (-\$190)	6.29%
Minimum	\$845	1.79%	\$750 (-\$95)	1.59%
Maximum	\$3,170	16.2%	\$2,800 (-\$370)	14.4%

Input on EE program rollout

Based on what you've heard, what input do you have for us on:

- **How we could best communicate this EE work** to the public and to potential participants?
- **How should we engage you** and others during rollout?



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Next steps

How do we engage moving forward?

Looking back on our meetings together

Meeting #1: Introductions and Aggregation 101 - September 10

Meeting #2: Aggregation in Action - Overview of Governance and Operation - September 24

Meeting #3: Columbus' Renewable Energy Future - October 8

Meeting #4: Community Priorities and Sustainability Goals - October 22

Meeting #5: Year end wrap-up and next steps after ballot initiative passage - December 11

Meeting #6: Initial scoping questions for programming - February 18

Meeting #7: Finalizing CCA logistics - April 15 (today)

Meeting #8: Present EE program design and CCA launch - June 10 (today)

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How does Clean Energy Columbus engage moving forward?

Please vote on the screen! *Choose all that apply -*

- Quarterly update notes
- Quarterly meetings similar to this one
- Monthly office hours (*e.g. one hour per month for drop-in comments & questions*)
- Online engagement portal or active email account & phone number
- Social media
- E-newsletter
- None - I don't need any further communication, but thank you anyway!
- Other (please drop into the chat)

Thank you for participating in our advisory group! Here's how to contact us moving forward

Erin Beck - ebbeck@columbus.gov - City of Columbus, Program Oversight/Manager

Scott Belcastro - scott@electricssuppliers.org - Trebel, Program Consultant

Frank Willson - fwillson@aepenergy.com - AEP Energy, Program Supplier

THANK YOU!