
Partners in Energy

Louisville

Decarbonization Planning

Workshop 3

October 31, 2023



AGENDA

Time	Agenda Item
12:30 – 12:40 pm	Workshop 3 Grounding & Plan Vision
12:40 – 2:25 pm	Strategy Action Planning
2:25 – 2:30 pm	Wrap Up & Next Steps

Workshop 3 Objectives:

- Confirm vision statement & strategies
- Develop details for each strategy in the plan

PROJECT MANAGEMENT TEAM

Xcel Energy		Community Facilitators		City of Louisville
				
Sofia Troutman Partners in Energy Program Manager	Iffie Jennings Area Manager	Sarah Kaye Lead Facilitator	Terry Hatfield Facilitator	Kayla Betzold Sustainability Manager

STAKEHOLDER EXPECTATIONS



Actively participate and engage in process



Educate team members on related topics so we all can learn



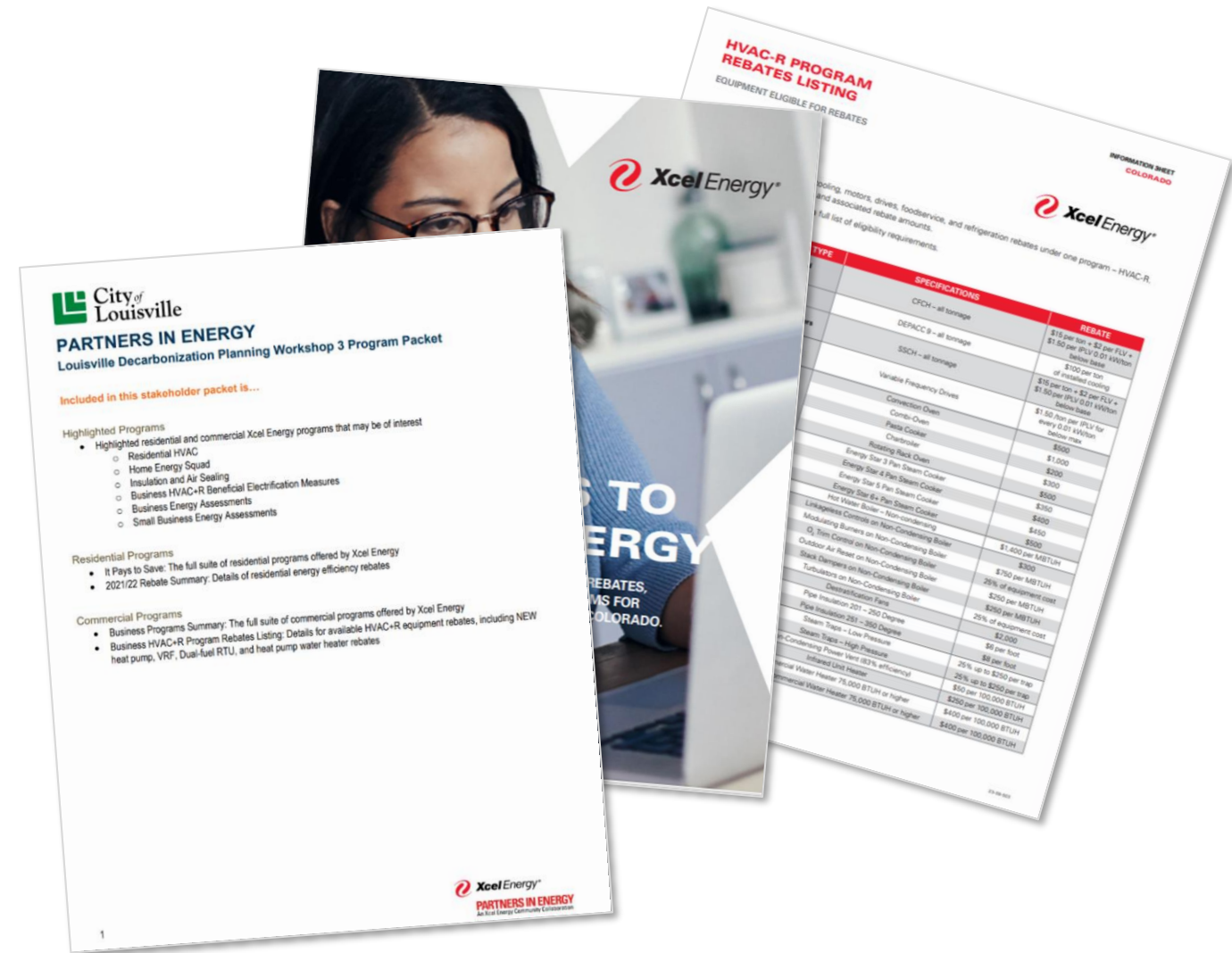
Represent your organization to share what's useful and what's not



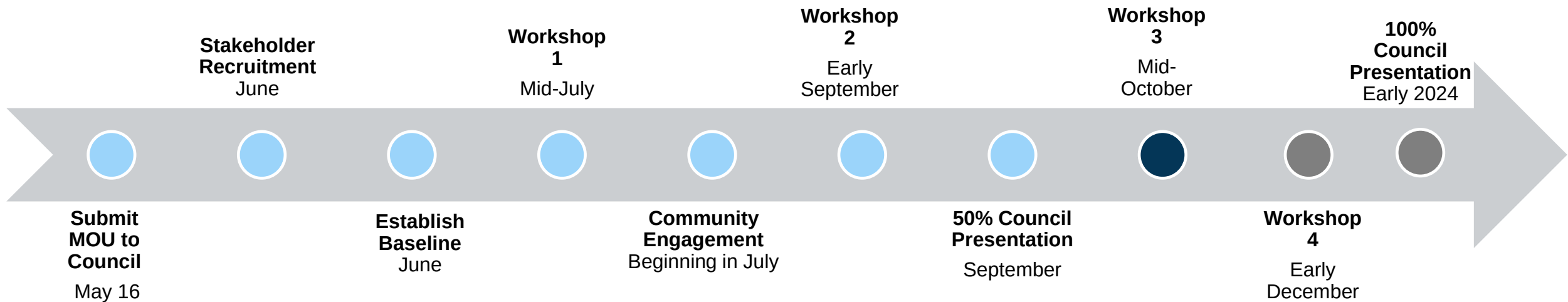
Be a critical eye for credibility, transparency, and accuracy

PROGRAM PACKET

- Contains residential and business program information from Xcel Energy
 - Highlighted programs of interest
 - Calling out heat pump rebates for both residential and commercial
 - Full listing of all rebates for residents/businesses



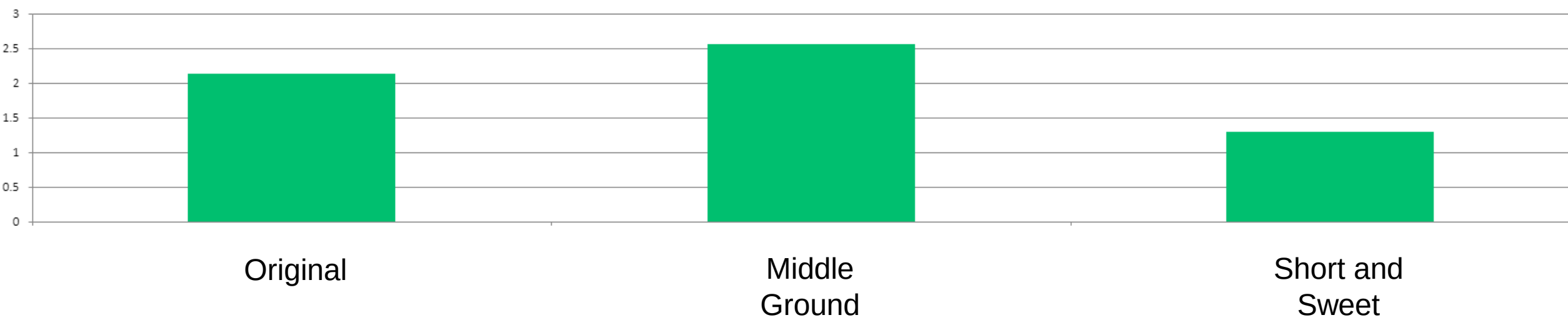
PLANNING TIMELINE



- Completed
- Current Stage
- Next Steps

VISION SURVEY RESULTS

Rank the following vision statements in order you like them most (with "1" being most liked).

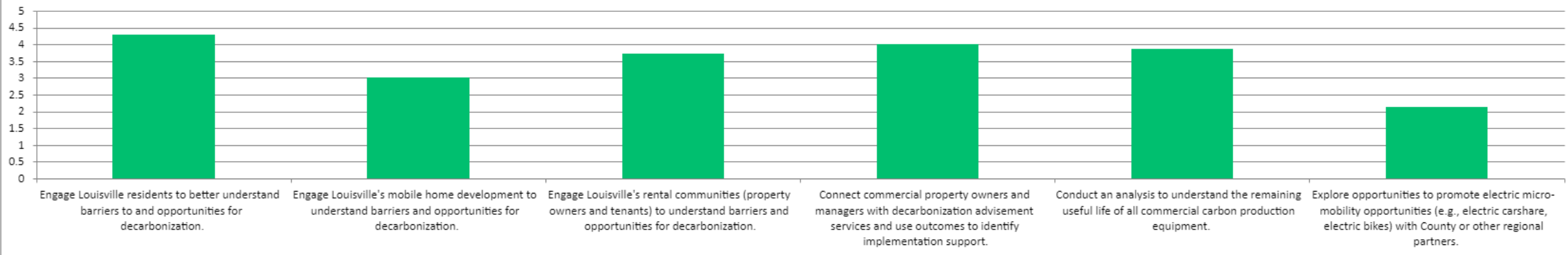


PROPOSED VISION

Louisville will take a **measured, equitable approach** to drawing down carbon from the **building, energy supply, and transportation** sectors.

STRATEGY SURVEY RESULTS

A revised list of strategies was developed and evaluated based on your feedback from Workshop 2. Rank the following strategies in order of importance with "1" being the most important to accomplish over the next 18 months.



General
Residential
Engagement

Mobile Home
Engagement

Renter
Engagement

Commercial
Property
Advisement

Commercial
Research

Micro-mobility

PROPOSED PLAN STRATEGIES

	Residential Engagement	Business Advisement	Commercial Sector Research
What	Bi-lateral information sharing about barriers and opportunities for residential decarbonization	Coordinate and build relationships between Boulder County & Xcel Energy assessors to support business engagement within Louisville	Conduct research for commercial carbon production equipment to inform program design for Louisville
Who	Single family homeowners, renters, rental and multifamily property owners, mobile home residents	Large energy users, districts/subdistricts, small to medium businesses	TBD
How	Build a foundation, first wave engagement, second wave engagement	Build a foundation, first wave engagement, second wave engagement	secondary research, primary research, program design support

Mobility: not called out specifically as a strategy, but may be wrapped into residential engagement

PROPOSED PLAN STRATEGIES

What goes into each strategy?

Strategy Description & Context

- Overview
- Target audience

Desired Outcomes

- How will we know we were successful

Scope & Timeline

- Key action steps by phase

Roles and Responsibilities

- City of Louisville
- Xcel Energy

Resources Available

- Channels
- City Staff

A REMINDER OF MODELED ANNUAL AVERAGE TARGETS TO REACH CARBON NEUTRALITY

**Louisville's Carbon
Neutrality Goal**

**60% below 2016
by 2030**

**Carbon neutrality
by 2050**

	Metric	Residential	Commercial	Total
Energy Efficiency	<i>Targeted DSM participation</i>	543	91	634
Building Electrification	<i>Premises electrified</i>	381 (2023-2030) 340 (2031-2050)	72 (2023-2030) 103 (2031-2050)	453 (2023-2030) 443 (2031-2050)
Transportation Electrification	<i>New EV's on the road</i>	~500 (2023-2032) and ~1,100 (2033-2050)		
Renewable Energy	<i>Participation in RE programs</i>	148 (new)	19 (new)	167 (new)

TRANSLATING MODELED TARGETS TO IMPLEMENTATION TRACKING

■ **DSM: Energy Efficiency & Building Electrification**

- Assume 100% of buildings electrified participated in Residential HVAC and Business HVAC+R programs for heat pump rebate
- Could include repeat customers: one customer completes insulation, heat pump, HPWH

Modeled

Demand Side Management Metric	Residential	Commercial
Energy Efficiency (non-BE Related)	543 per year	91 per year
Building Electrification – Space Heating	381 per year	72 per year
Building Electrification – Water Heating	381 per year	72 per year
Total DSM participation	1,305 per year	235 per year

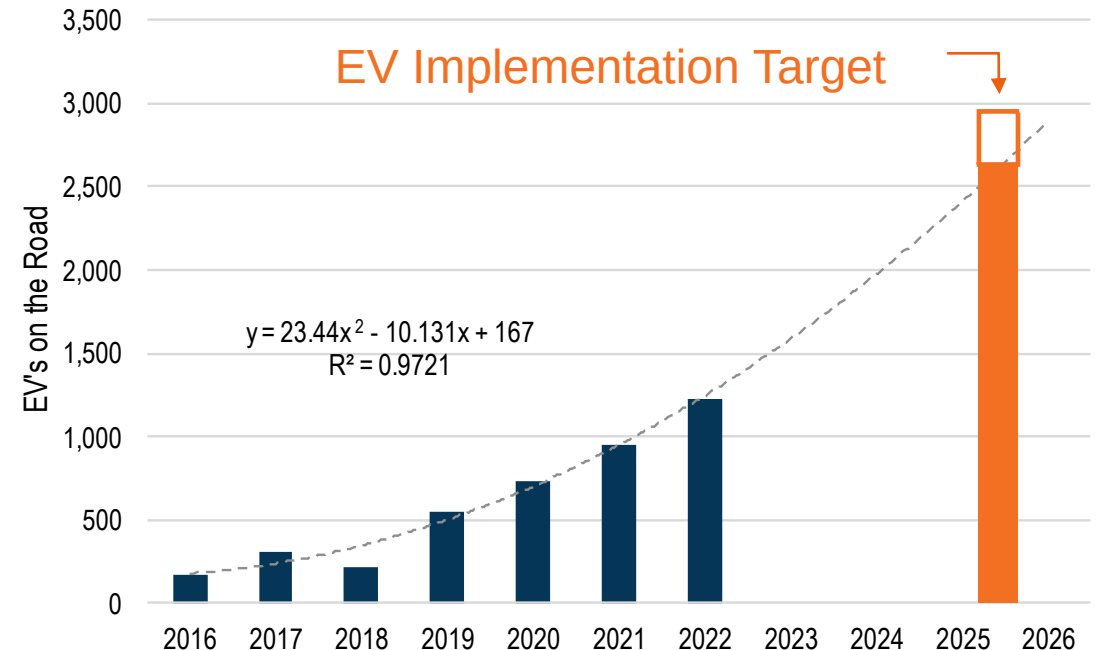
Implementation Target

Demand Side Management Metric	Residential	Commercial
DSM Participation	643 per year	135 per year

TRANSLATING MODELED TARGETS TO IMPLEMENTATION TRACKING

■ Transportation Electrification

- **Current Trending:** By 2025 Q2, anticipate 2,600 EV's on the road in Louisville
 - Average of 410 new EV's on the road annually
- **Implementation Target:** 10% increase in EV's on the road to achieve 2,900 EV's on the road by 2025 Q2
 - Average of 480 new EV's on the road annually



TRANSLATING MODELED TARGETS TO IMPLEMENTATION TRACKING

■ Renewable Energy

- **Current Trending:** By 2025 Q2, anticipate
 - 1,613 residential participants
 - 143 commercial participants

Modeled

Renewable Energy Metric	Residential	Commercial
New Renewable Energy participation	148 per year	19 per year
Total Renewable Energy participation	1,704	151

Implementation Target

Renewable Energy Metric	Residential	Commercial
New Renewable Energy participation	110 per year	14 per year
Total Renewable Energy participation	1,648	143

PROPOSED 18-MONTH IMPLEMENTATION TARGETS

Residential Engagement

- 200 new participants (964 total) in DSM programs
- 160 new participants (1,648 total) in renewable energy programs
- 2,900 EV's on the road by 2025 Q2

Business Advisement

- 75 new participants (202 total) in DSM programs
- 20 new participants (143 total) in renewable energy programs

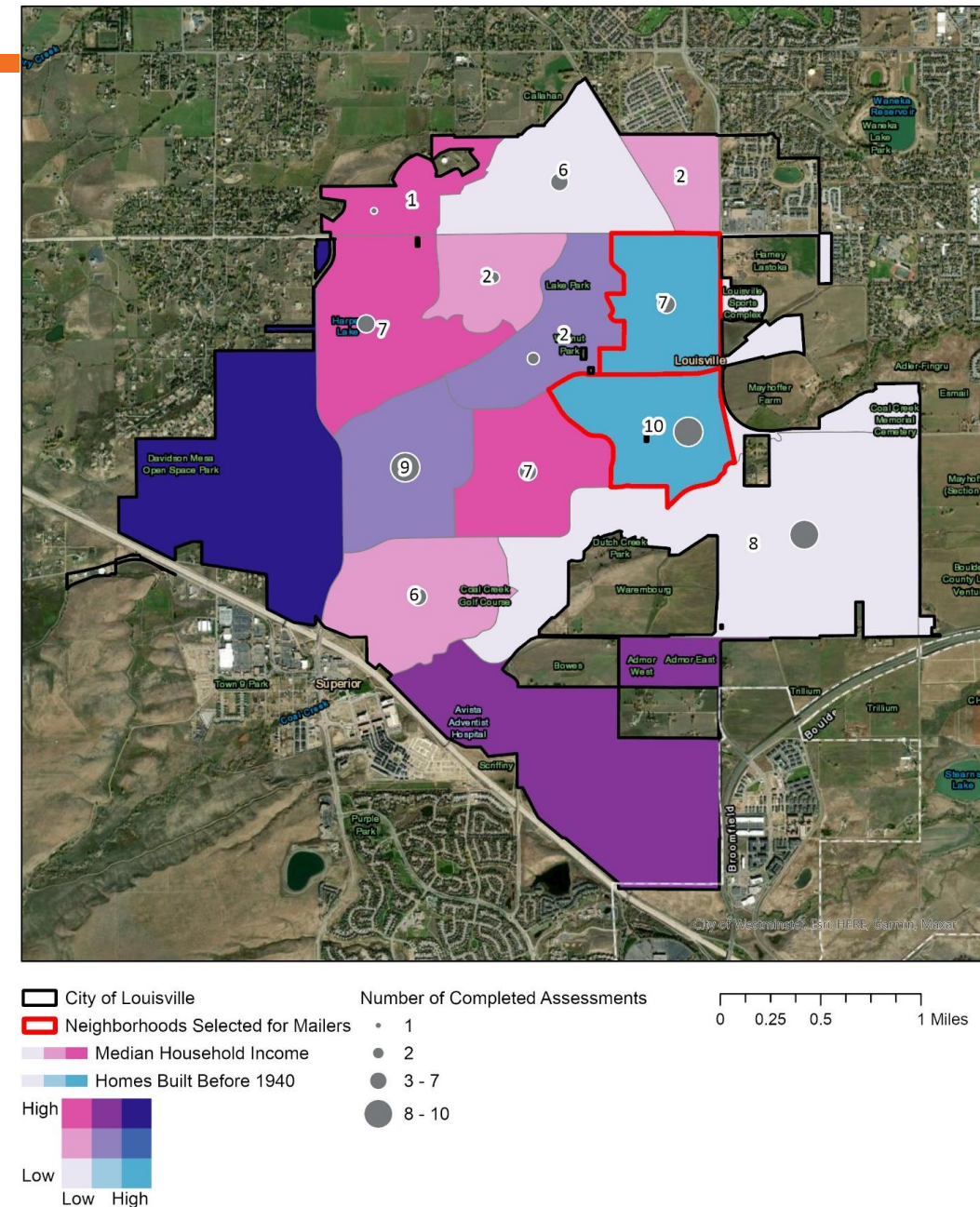
Commercial Sector Research

- Complete and administer 1 survey (or equivalent method)

Are these targets right-sized, given the foundational nature of the strategies?

EXAMPLE IMPLEMENTATION ACTIVITY

- Identified areas in Louisville that have lower income and older homes (relative to the rest of the City).
- Sent post cards to homes eligible for Home Energy Squad assessments promoting discounted visits
- Promoted discounted visits through general channels
- Results
 - 25% of participants during study period were within our targeted neighborhood, a typically harder to engage population
 - 425% increase in program participation during study period compared to 2021 participation
 - Analysis of recommendations by home age can help inform residential engagement strategy for this plan



ACTIVITY: STRATEGY ACTION PLANNING

Instructions

- Select Group 1 or Group 2
- Reviewing the strategy in your group, **discuss the following topics:**
 - **Key implementation steps:** What is missing?
 - **Roles & responsibilities:** Who will help to achieve the implementation steps?
 - **Funding/Resource needs:** Is additional funding needed for the strategy?
 - Discuss appropriate strategy targets
- **Answer the specific questions called out by strategy**

BREAKOUT GROUPS

Round 1: *30 minute discussion*

Group 1: Business Advisement

Group 2: Business Research

Report Out: 15 minutes

Round 2: *30 minute discussion*

Group 1: General Residential Engagement

Group 2: Mobile Home / Renter Residential Engagement

Report Out: 15 minutes



WRAP UP AND NEXT STEPS

NEXT STEPS

- Workshop 4: early-December
 - Revisit modeling
 - Discuss potential financing mechanisms
- Plan drafting

**Keep on the lookout for a
calendar invitation:**

**Potential dates include
Mon 12/11, Tue 12/12, Thu 12/14**



PARTNERS IN ENERGY
An Xcel Energy Community Collaboration