



Equitable Electric Vehicle Ready Parking in Columbus

Public Comment Period Webinar

May 3, 2022 and May 17, 2022

Welcome and logistics

- Attendees will be in 'listen-only' mode
- Use the chat box and Q&A to enter questions
 - Questions will be captured and responded to in this [FAQ document](#)
- This session will be recorded and slides posted on our [website](#)
- For additional questions, clarification, and discussion, join one of our upcoming Office Hours sessions:
 - May 10, 2022, 3:00 - 4:00pm: [Zoom link](#)
 - May 24, 2022, 3:00 - 4:00pm: [Zoom link](#)
- Use the [Ordinance Feedback Form](#) and [Community Impacts Survey](#) to provide input on the draft EV Ready Parking [Ordinance](#)

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American Cities Climate Challenge
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Agenda

- **The “What” and “Why” of EV Ready Parking**
- Equitable Engagement & Process to Date
- Policy Variables and Stakeholder Input
- Draft EV Ready Parking Ordinance
- Public Comment Period

What is EV Ready Parking?

Building to **EV Ready parking standards** enables newly constructed and significantly renovated parking spaces to include, or be easily and affordably converted to, EV charging stations in the future

Levels of EV Readiness:

EV Capable



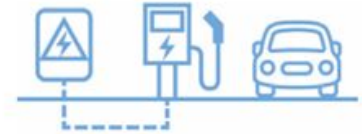
Install electrical panel capacity and run conduit to parking spaces

EV Ready



Run wiring through conduit ending with an outlet or terminal box

EVSE Installed



Install a minimum number of Level 2 EV charging stations

Level of impact and cost

Electric vehicle charging infrastructure provides widespread, equitable benefits

Who Benefits?

- **Multifamily tenants**, who gain access to convenient and affordable charging at home
- **Residents**, who feel reduced range anxiety by having access to charging at work and retail hubs
- **Community**, who breathe cleaner air in our neighborhoods from reduced pollution released from gas-powered vehicles
- **Developers**, who realize a 75% financial savings¹ in charging infrastructure installation during construction compared to retrofitting
- **Building owners**, who demonstrate their commitment to more affordable and environmentally-friendly transportation for residents



1. [Plug-In Electric Vehicle Infrastructure Cost-Effectiveness Report](#)

Electric vehicle adoption is critical to achieve Columbus' climate and equity goals



Transportation, mostly from vehicles, accounts for **38% of our community-wide GHG emissions**

Alignment with Climate Action Plan Electric Vehicle Adoption Goals



Reliable home and workplace charging infrastructure significantly increases the likelihood of widespread EV adoption

EV Charging Infrastructure Provides **Equitable Access** to Charging

Standardized requirements for EV charging infrastructure will **increase access to lower cost transportation** for those with disproportionately less access: residents in multifamily housing, low-income neighborhoods, and BIPOC communities

EV Ready Parking Ordinances help overcome barriers

- Limited access to EV charging is a significant barrier to EV adoption
- Increased access to charging accelerates climate and equity goals
- Garages can last over 50 years and parking lots over 20 years – investing at the time of construction is cost-effective and makes buildings future-ready
- To provide certainty, consistency, and standardization across the market



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Retrospective: Partners and Planning

Research and Analysis

- Analyzed anticipated costs to developers
- Researched current charger distribution
- Looked at policies in other cities

Local Ground-truthing

- Met with local developers to discuss EV charging priorities
- Identified interest in standardized approach to charging

Partner Identification

- Partnered with CommEN Strategies and IMPACT Community Action for equitable engagement

Equitable Engagement

- Launched equitable engagement with residents, CBOs, affordable housing, non-traditional partners, and developers

January through December 2021

Our Commitment to Equitable Engagement

Resident Focus Groups

November - December 2021

- CommEN Strategies led resident focus groups in low-income and BIPOC neighborhoods to understand community priorities and needs related to transportation options
- [Report download](#)

Community Advocates

January - June 2022

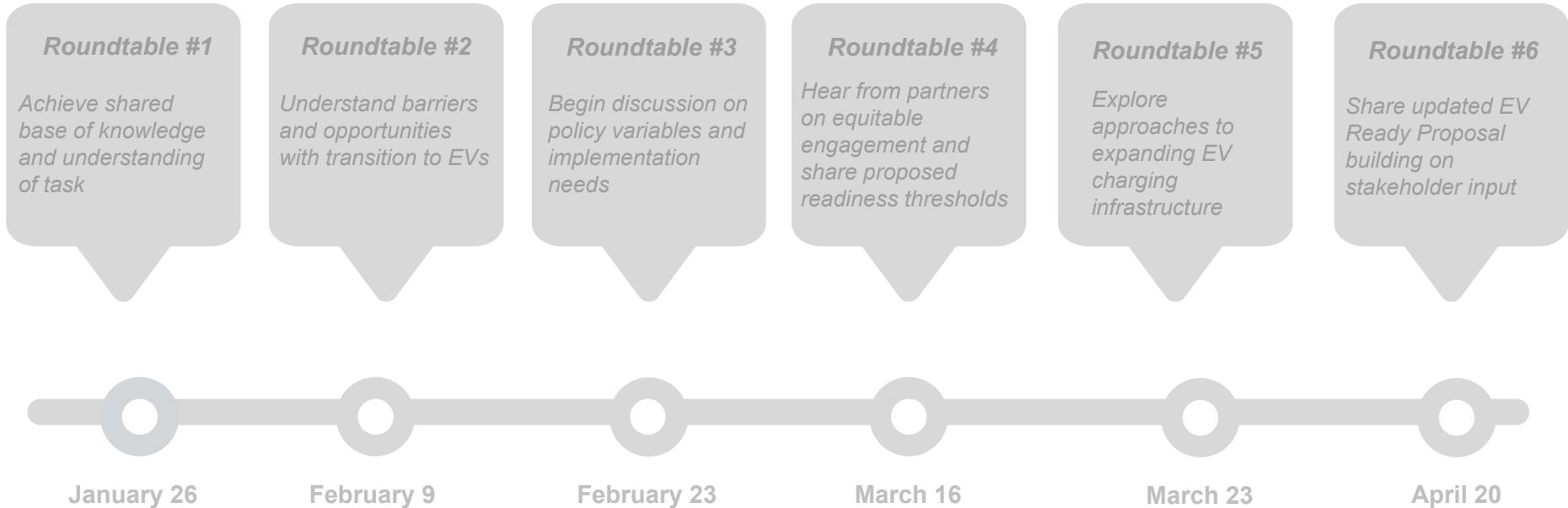
- Three community members hired by IMPACT Community Action to serve as community subject-matter experts and elevate community priorities in Sustainable Columbus work

Mobility Hubs

May - December 2022

- Conduct education and outreach about electric vehicles to residents and community organizations located in neighborhoods with Mobility Hubs

Equitable EV Ready co-creation process



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Bringing together stakeholder input and data

Stakeholder input and equity lens

- Feedback from roundtable meeting participants
- Focus on charging at home and at work



EV data inputs

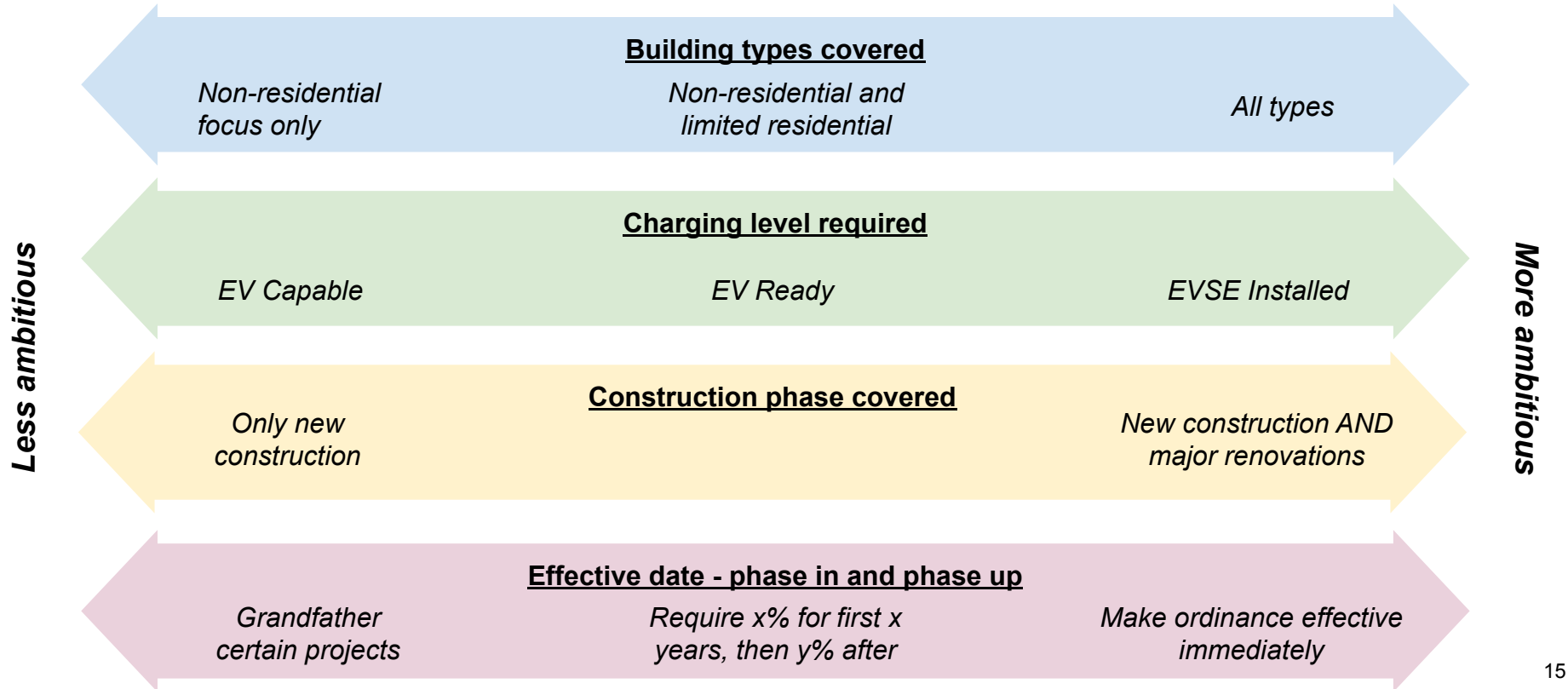
- Current and future EV adoption rate
- Current and future EV charger needs



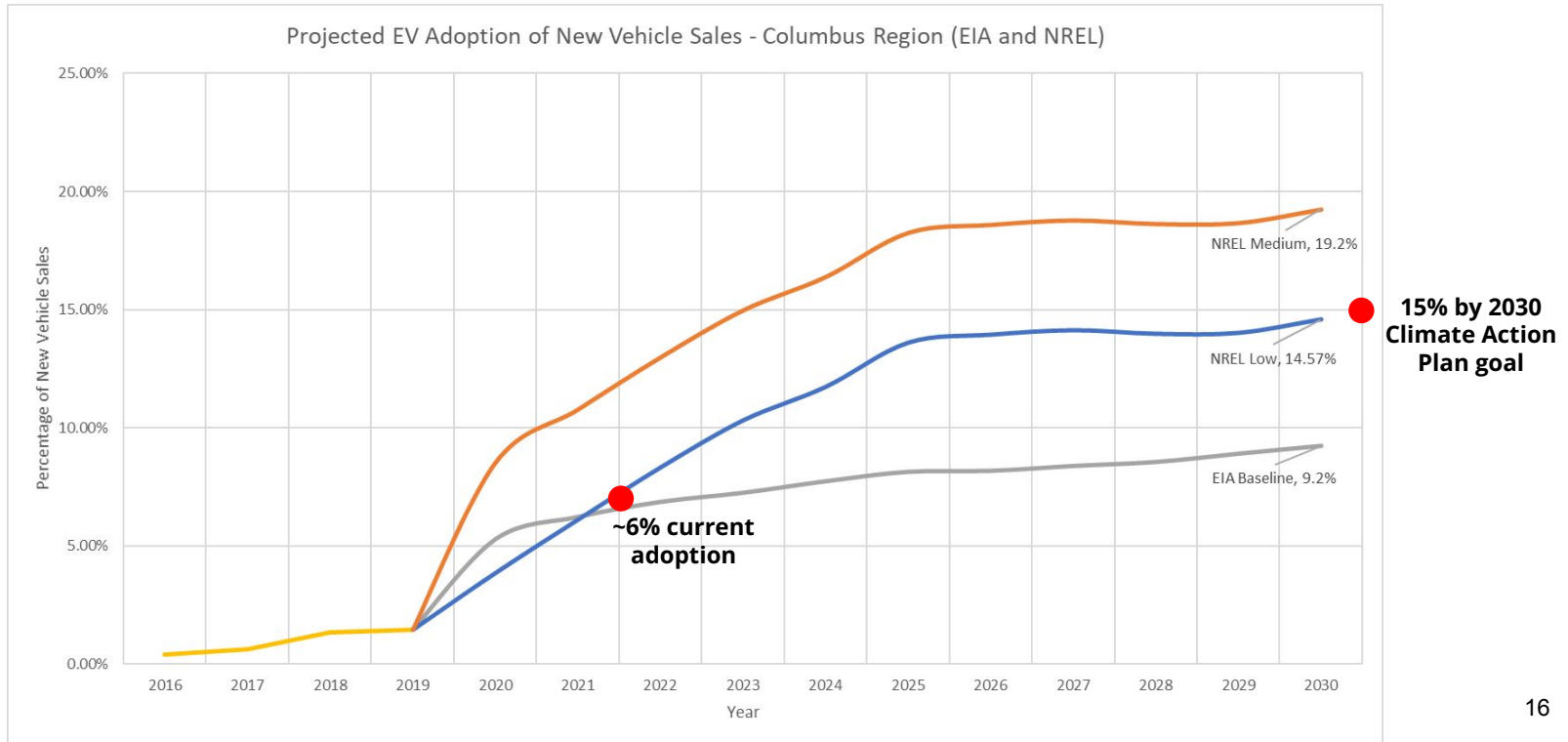
Proposed policy and implementation strategy

- Stakeholder and data informed readiness thresholds
- Implementation strategy that provides near-term certainty and flexibility for the future as technology and data evolve

Designing the right policy for Columbus



EV adoption in Columbus is outpacing projections



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Building categories included

Building Category	Building types included in category
1, 2, 3 family dwelling	Single family home, duplexes, and triplexes (<i>Zoning Code districts: R-rural, LRR, RRR, RR, SR, R-1, R-2, R-3, R-2F, R-4</i>)
4 or more family dwelling and office and workplace	Multifamily buildings, administrative offices, health care, financial offices, educational facilities, etc. (<i>Zoning Code districts: AR-12, ARLD, AR-1, AR-2, AR-3, AR-4, and C-2, including those in Special Parking Districts</i>)
All other commercial	Retail, grocery, restaurants, etc. (<i>Zoning Code districts: C-1, C-3, C-4, and standalone parking lots and garages, including those in Special Parking Districts</i>)
Affordable multifamily housing	Multifamily housing where 50% or more of the units have income and/or rent restrictions that are monitored by a government agency
City of Columbus	All parking constructed by the City of Columbus

Charging levels included

EV Capable



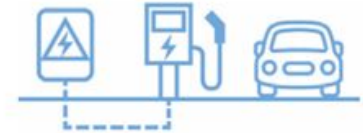
EV Capable threshold tracks with 2040 projected EV adoption rate of 30%

EV Ready



EV Ready threshold tracks with projected 2030 EV adoption rate of 20%

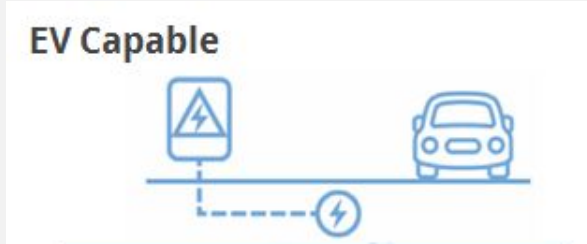
EVSE Installed



Level 2 installed chargers tracks with current and near-term projected EV adoption rate of 10%

EV Capable

Charging Level



- Lowest cost of readiness levels
- Long-term “insurance policy” to support cost-effective expansion of EV chargers

Elements Included



- Requires dedicated panel capacity and conduit run to parking spaces
- Estimated cost per space: \$500

EV Ready

Charging Level



- Tracks with estimated 2030 EV adoption
- If wiring is terminated at an outlet, EV Ready enables charging with onboard vehicle charger

Elements Included



- Requires dedicated panel capacity, conduit, and wiring with termination
- Estimated cost per space: \$1,200

EVSE Installed

Charging Level



- Enables immediate EV charging to meet current and future demand

Elements Included



- Requires installation of a Level 2 EV charger
- Estimated cost per space: \$5,000

Proposed EV Readiness Thresholds

Applies to newly constructed parking or the addition of 20 or more parking spaces to existing parking beginning January 1, 2024:

Building Type	EV Capable	EV Ready	Level 2 charger installed	Cumulative EV charging enabled
1, 2, 3 family dwelling	N/A	One EV ready space per dwelling unit	N/A	One EV ready space per dwelling unit
4 or more family dwelling, office, and workplace	20%	20%	10%	50%
All other commercial	15%	15%	5%	35%
Affordable multifamily	10%	10%	5% ¹	25%
City of Columbus	60%	25%	15%	100%

1. Contingent on availability of City funding

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Proposed Ordinance - public comment period

- Public comment period: April 25, 2022 - May 25, 2022
 - PDF Draft Ordinance [download](#)
 - Ordinance Feedback [Form](#)
 - EV Ready Parking in Columbus Memo [download](#)
- All feedback must be submitted through the public comment forum to support an equitable and transparent process
- In addition to collecting feedback on the proposed Ordinance, we're continue to collect input from community on their needs in the electric vehicle transition. A **Community Impacts [Survey](#)** will be open during the public comment period

Upcoming engagement opportunities

- **Two informational webinars - May 3 and May 17 from 3:00 - 3:30pm**
 - 30 minute presentation on EV Ready Parking Ordinance
 - Content will be the same at each meeting
 - *First session will be recorded and posted online with slides*
 - Q&A will not be held live
 - Zoom webinar [link](#)
- **Two virtual office hours sessions - May 10 and May 24 from 3:00 - 4:00pm**
 - Open meeting for Q&A on proposed Ordinance
 - Will not be recorded
 - Zoom meeting [link](#)
- All details are available: <https://www.columbus.gov/sustainable/evreadyparking/>

Thank you!