Kentucky EV Charging Program Update

March 13, 2024











Agenda



01	02	03	04	05	06	07
Welcome and Introductions	Status Update: Awarded Sites	RFP #2 Overview	Updates to the EV Infrastructure Plan	Upcoming Outreach	Planning Build Out and Future Phases	Next Steps



Introduction





John Moore
Deputy State Highway
Engineer
NEVI Cabinet Lead
KYTC



Mikael Pelfrey
Director
Division of Planning
Deputy Project Manager
KYTC



Justin Harrod
EV Charging
Infrastructure Planning
and Deployment Lead
KYTC



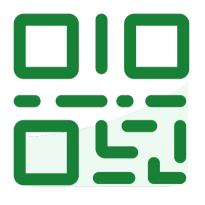
Robert Frazier
EV Charging Planning
Consultant Team
Project Manager
HDR



Mark Polston
EV Charging Procurement
Consultant Team
Project Manager
WSP



slido



Join at slido.com #5651720

slido



What type of organization do you represent?

What type of organization do you represent?



Electric Utility	21%
Consultant	14%
EV Owner	14%
Government Agency	14%
EV Equipment Manufacturer	10%
EV Equipment Service Provider	7%
Nonprofit	7%
Contractor	3%
EV Supply Equipment Installer	3%
Resident of Kentucky	3%
Trade Association	3%

Automotive Dealer	0
Business Owner	0
Elected Official	0
EV Charging Site Host	0
EV Manufacturer	0
Fleet Management Company	0
Gasoline Sales/Service	0
Industry Advocate or Lobbyist	0
Researcher	0
Shipping Company	0

29 responses



slido



Where in the commonwealth are you?

Where in the Commonwealth are you? KENTUC

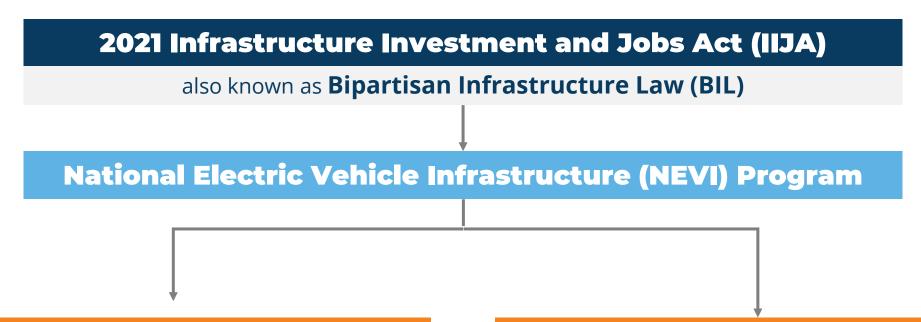


29 responses

Central Kentucky 41042 42003 South Shore, KY 41175 Paducah 42001 N/A 41143 Detroit 48208 hopkinsville 42240 Lexington 40502 **Russell 41169** Frankfort 40601 74103 **Greer 29650 Lexington 40511** Louisville 40217 Louisville 92612 Louisville 40222 **Campbellsville 42718**

Federal Funds for EV Infrastructure





NEVI Formula Funds

Kentucky's Share - \$69.5M \$5.0 Billion Nationally (over 5 years)

NEVI Discretionary Grant Funds

\$2.5B Available Nationally (over 5 years)
First Round Closed June 13, 2023



Federal Funds and Schedule





*All numbers in millions

	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	Totals
Federal Funds	\$10.3	\$14.8	\$14.8	\$14.8	\$14.8	-	\$69.5
Non-Federal Funds	\$2.6	\$3.7	\$3.7	\$3.7	\$3.7	-	\$17.4
Total Funds	\$12.9	\$18.5	\$18.5	\$18.5	\$18.5	-	\$86.9

EV Infrastructure Plan Elements Build-Out Interstates and Parkways (Phase 1 - Ongoing)

Other Priority Corridors (Phase 2)

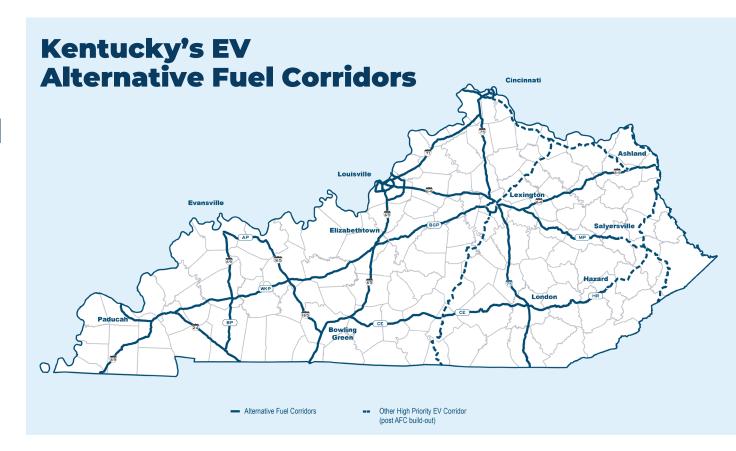
Community Charging (Phase 3)

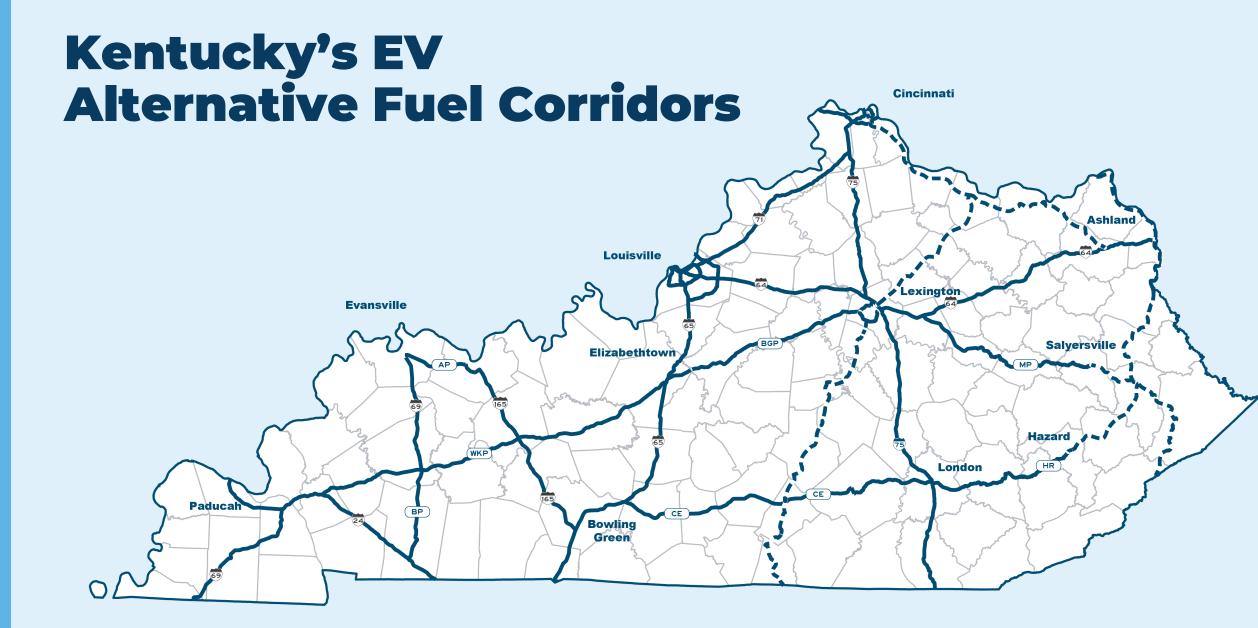


KY EV Charging Program



- 1. Funds must first be spent to build-out AFCs
- 2. After build-out, FHWA will allow more flexibility
 - + FHWA guidance expected later this year



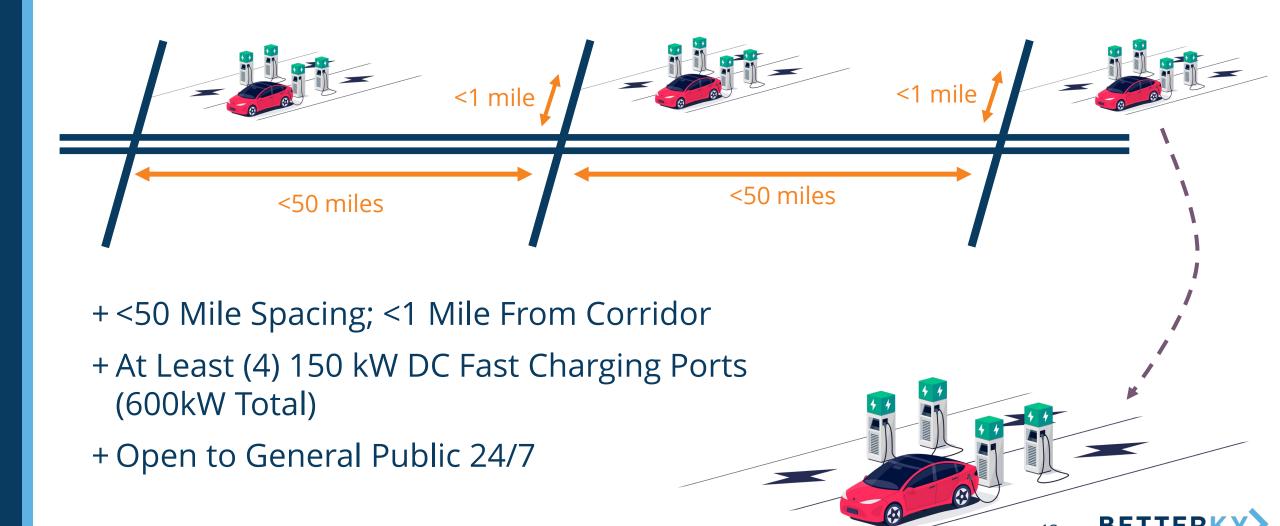


Alternative Fuel Corridors

Other High Priority EV Corridor (post AFC build-out)

Stations on Federally Designated EV Alternative Fuel Corridors



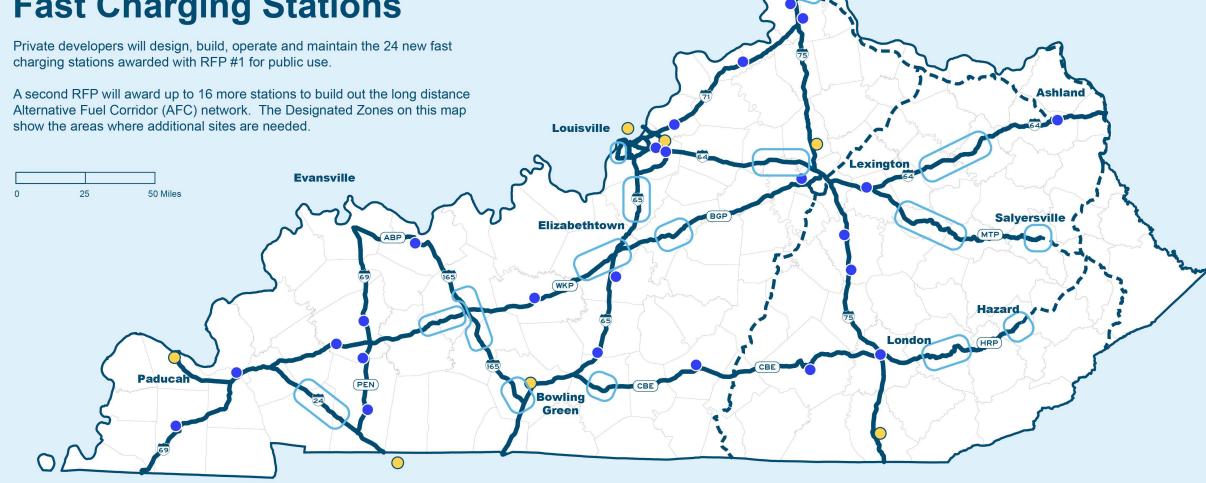




Awarded Sites Update



Kentucky's Awarded Sites for NEVI Program Funded Fast Charging Stations



Awarded Site

Existing Potentially NEVI-Compliant Fast Charging Site

Designated Zones

EV Alternative Fuel Corridors

Cincinnati

Other High Priority EV Corridors (post AFC build-out)

NEVI = National Electric Vehicle Infrastructure

Request for Proposals











Round One: **16 Stations**Round Two: **8 Stations**



Groundbreaking in Richmond



- + Feb. 19, 2024
- + First EV charging station in the Southeast
- + Anticipated opening: April







Request for Proposals – Round 2



NEVI Funded DCFC Stations



- + KYTC will not own, operate, or maintain stations
- + Industry partners will be responsible for



Construction/ Installation



Ownership



Operations



Maintenance

Request for Proposals (RFP) #2



- + Issued Feb 19, 2024
- + Questions Due March 20
- + RFP Due April 19
- + Pre-bid and Networking meeting: March 5
- + **Pre-bid Meeting** Covered New and Important RFP Topics
- + **Networking Meeting** Gave nearly 20 firms/organizations the chance to network to build or join teams



REQUEST FOR PROPOSAL #2

Kentucky's Electric Vehicle Charging Program

Kentucky Transportation Cabinet

RFP Issue Date: February 19, 2024 RFP Proposal Due Date: April 19, 2024







KYTC Objectives



- 1. Attract multiple Proposers with proven knowledge and experience
- 2. Encourage self-sufficiency while meeting federal compliance/performance
- 3. Execute the EV network build-out per NEVI requirements
- 4. Achieve build-out on the Commonwealth's Federally designated AFCs
- 5. Select Projects / Proposers that are likely to remain viable beyond 5 years



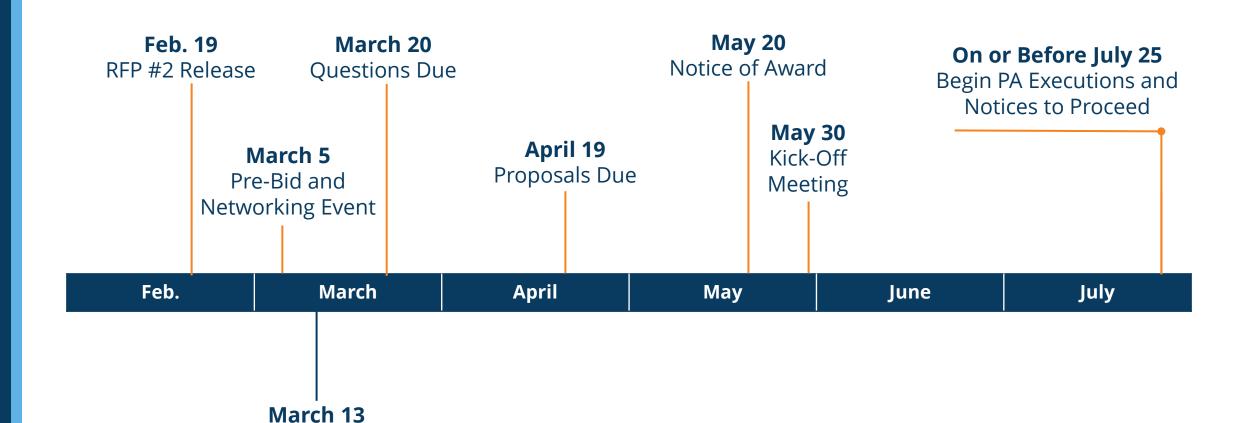


Procurement Schedule

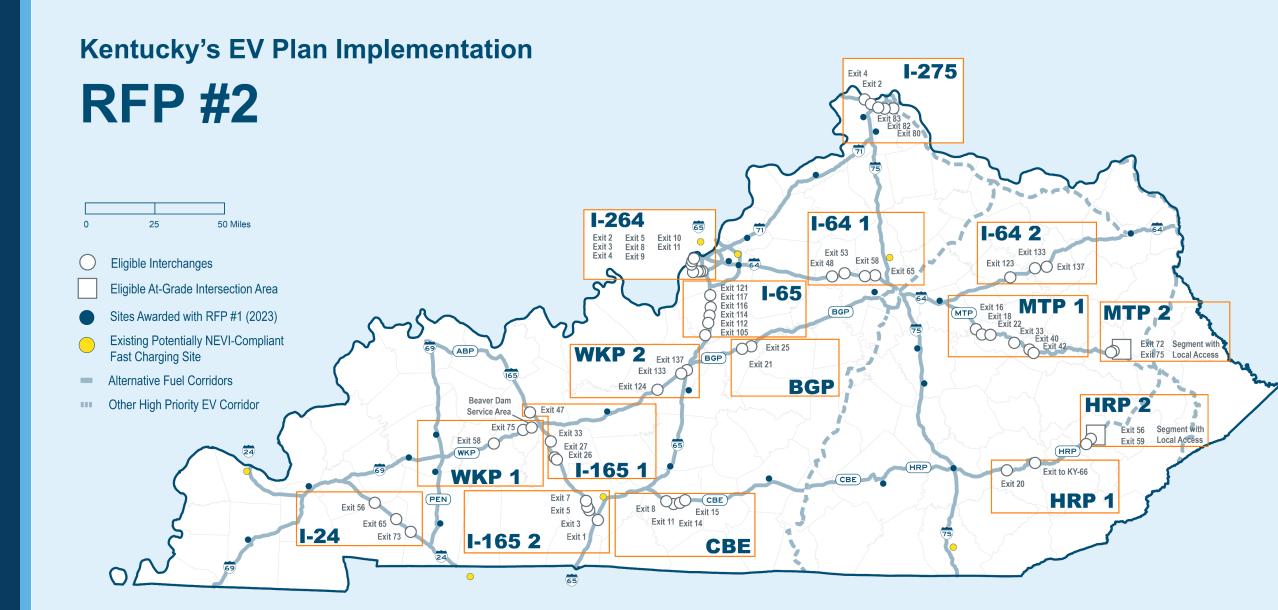
Stakeholder

Meeting











EV Infrastructure Plan Updates



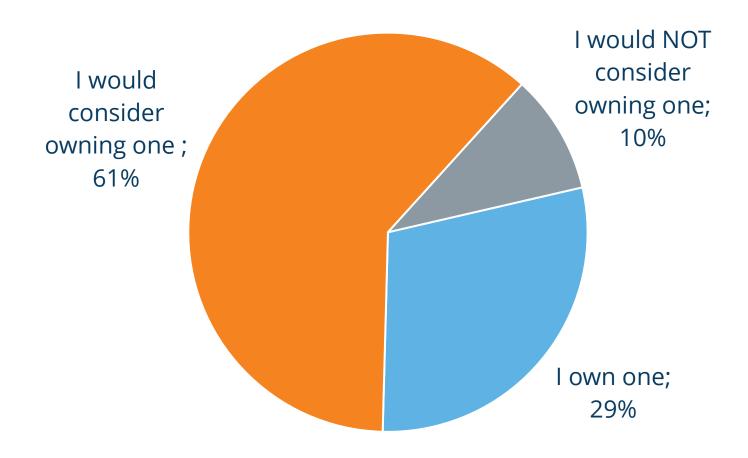
slido



What is your EV ownership status?

What is your EV ownership status?





31 responses

slido



If you own or are considering owning an EV, what do you see as barriers?

EV ownership barriers



Aaccess to home charging Range while towing **Upfront costs Charger availability** charging infrastructure **Power source** Cost home charging Range concern **Range anxiety** nothing **Hidden cost Upfront cost** Range money Resale value **EV** depreciation Infrastructure

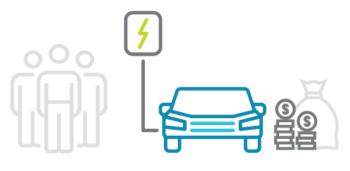
38 responses, 30 participants

Barriers to EV Adoption





Higher Vehicle Cost



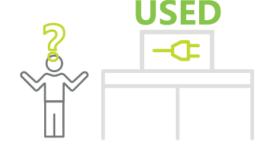
Lack of Awareness/ Inertia



Limited Model Types



Lack of Dealer Knowledge



Limited Used Vehicle Options



Barriers to EV Adoption

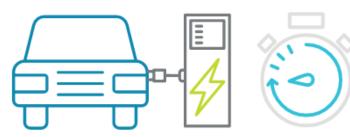








Range Anxiety for Long Trips



Long Recharging Times



Barriers to EV Infrastructure Deployment





Low Customer Base



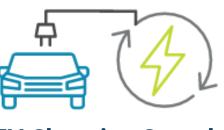
Lack of Utility Infrastructure



Awareness of Charging Locations



Utility Demand Charges



EV Charging Speed

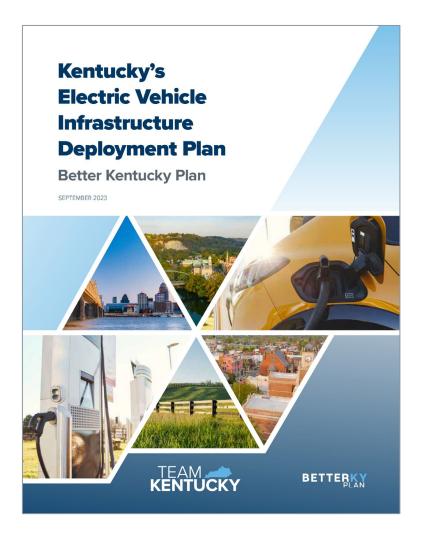


Rural/Underserved Infrastructure Gaps



KY EV Infrastructure Deployment Plan Update





- + Updated guidance is expected this spring
- + Update due to FHWA: Aug. 1, 2024
- + Several sections of the plan will need major updates as projects are now underway and the program is advancing
- + Will include updated outreach efforts

Demonstrating Build Out



- + Maps will show how Kentucky is building out the EV fast charging system
 - + Stations approx. every 50 miles or less
 - + Stations approx. 25 miles from AFC ends or state lines
- + Goal is to move to future phases as soon as:
 - + FHWA releases build out guidance (first half of 2024)
 - + FHWA approves Kentucky as built out







Other Key Updates



- + Public Engagement
- + Contracting
- + EV Charging Infrastructure Deployment
- + Implementation
- + Equity
- + Labor and Workforce
- + Physical Security and Cybersecurity
- + Program Evaluation



KYTC and other leading state agencies are forming workgroups on several of these topics.

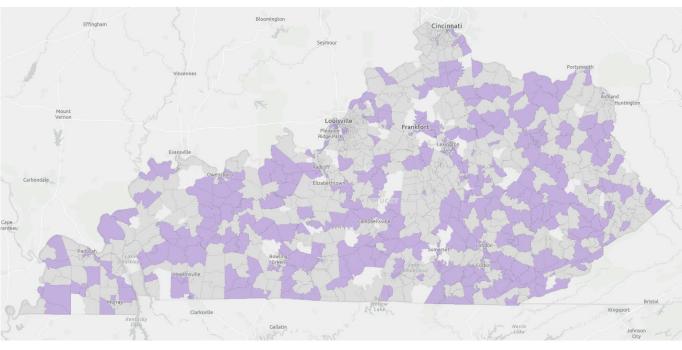


Equity



+ US DOT Equitable Transportation Community (ETC) Explorer

- + Five Measures of Transportation Underinvestment:
 - + Transportation Insecurity
 - + Climate and Disaster Risk Burden
 - + Environmental Burden
 - + Health Vulnerability
 - + Social Vulnerability



slido



What are some strategies for overcoming barriers to charger infrastructure in disadvantaged communities?

Strategies for overcoming barriers in disadvantaged communities



charging options for on-street parking evaluation communities additional EV show/charging percentage low **EVs** Host car workshops meetinngs) Safety provide direct zones profit connection support challenged vehicles end price lower centers process disadvantaged Free L2 charging economically **Working with partners like Evolve KY**

12 responses,12 participants



Upcoming Outreach & Engagement



EV Charging Program Engagement



- + Four large group virtual meetings scheduled for 2024
- + In-person meetings are being planned
- + Engagement Goals
 - + Input on EV program implementation
 - + Educate the public about the EV program
 - + Provide information about funding opportunities





Potential Engagement Topics





National Drive Electric Week



Training to use public EV Charging Stations



First responders training for EV emergencies



Futureproofing and technology integrations



Community charger location considerations



Opportunities for additional chargers



Implementation success stories



Post-award compliance reporting



Outreach and Engagement Tools



- + Large and small stakeholder meetings
- + Coordination with MPOs and ADDs
- + Steering Committee
- + Speaking engagements
- + RFP networking
- + Website
- + Videos
- + Surveys





Which forms of engagement would you prefer for upcoming outreach efforts?

Which forms of engagement would you prefer for upcoming efforts?



Coordination with Municipal Planning Organizations (MPO) and Area Development Districts (ADD)	52%
Large and small stakeholder meetings	48%
Surveys	35%
Steering Committees	26%
Speaking Engagements	26%
Website	26%
RFP Networking	22%
Videos	13%
Other - type in chat	0%

23 participants

Percent indicates the percent of the 23 selecting that response





Planning For Build Out & Future Phases



2024 NEVI Project Schedule (tentative)



	Jan	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
RFP #1 Contracts & Groundbreaking												
RFP #2 Released												
RFP #2 Proposals Due												
CFI Grants & AFC Round 8?												
RFP #2 Notice of Award												
EV Plan Update												
Plan Updates due to FHWA							*					
Stakeholder Meetings			*			*			*			*
Public Engagement & Outreach												



Once KYTC receives build out approval for the AFCs and can proceed to Phase 2 (new EV corridors) and Phase 3 (community charging), where should sites be focused?



Where should sites be focused for Phases 2 and 3 of build out?

Off the AFC network, within community locations on public roads, schools, parks and in publicly accessible parking facilities	48%		
Along the most traveled AFCs to increase charging site frequency (e.g. a charging site every 25 miles)	35%		
Off the AFC network, along other corridors	13%		
Other- type in the chat	4%		

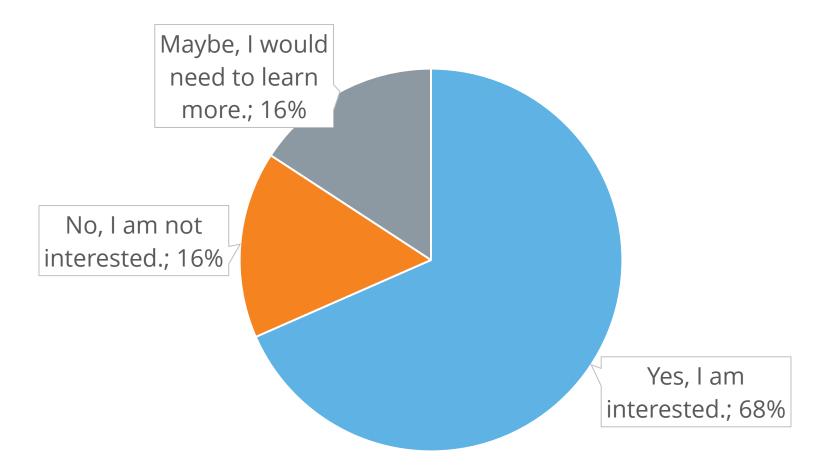




The FHWA intends to advance medium-duty (MD) and heavy-duty (HD) charging infrastructure in the future. Are you interested in KYTC installing MD and HD charging infrastructure?

Are you interested in KYTC installing MD and HD charging infrastructure?







Next Steps





How can we improve?

How can we improve?



- "More connection sessions"
- Looking forward to in person, meetings and opportunity to be a part of work groups
- This team is doing great!

For More Information



EV Program Email Address:

EVChargingProgram@ky.gov

Program Website:

EVCharging.KY.gov





Adjourn

