

Welcome! The Arizona Electric Vehicle Infrastructure Deployment Plan Public Meeting will begin shortly.

While you wait, we invite you to complete a voluntary survey.

Mientras espera, lo invitamos a completar una encuesta voluntaria para ayudar.

English



https://azdot.gov/AZEVself_id

Español



https://azdot.gov/AZEVself_idspanish

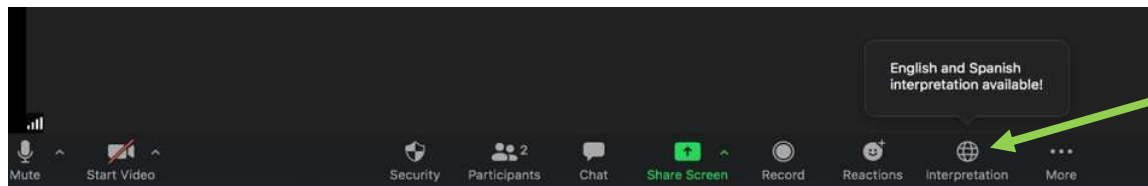


Electric Vehicle Infrastructure Deployment Plan

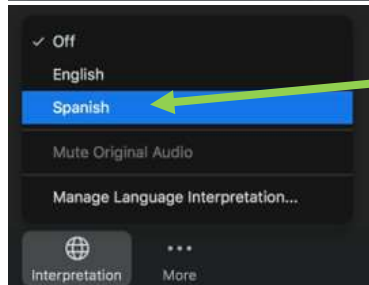
Meeting Interpretation Options

Meeting will be simultaneously translated into Spanish and Navajo.

Interpretation via Zoom



Click the globe icon
Haga click en el ícono del globo



Select your preferred language
Elija su idioma de preferencia



AZEVPLAN

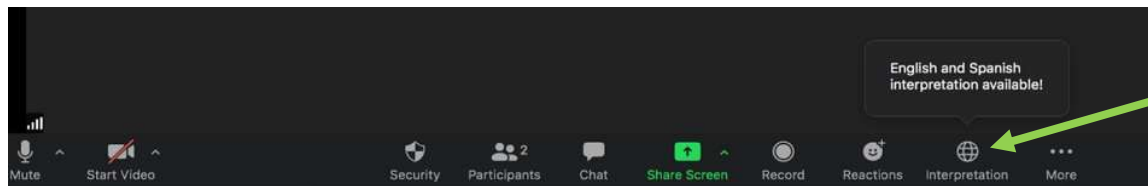
Electric Vehicle
Infrastructure
Deployment Plan

ADOT

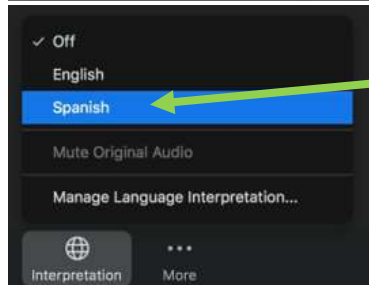
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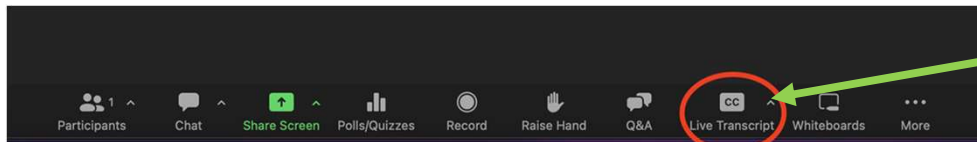


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Closed Captioning



Click the CC button to turn on English closed captioning

ADOT'S NONDISCRIMINATION NOTICE TO THE PUBLIC

The Arizona Department of Transportation (ADOT) hereby gives public notice that it is the Agency's policy to assure full compliance with Title VI of the Civil Rights Act of 1964, Title II of the Americans with Disabilities Act of 1990 (ADA), and other related authorities in all of its programs and activities.

ADOT's Title VI and ADA Programs require that no person shall, on the grounds of race, color, national origin, or disability, be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity.

Any person, who believes his/her Title VI or ADA rights have been violated, may file a complaint. Any such complaint must be in writing and filed with the ADOT Civil Rights Office within one hundred eighty (180) days following the date of the alleged discriminatory occurrence. For additional information about ADOT's Civil Rights programs and the procedures to file a complaint contact ADOT Civil Rights Office via the information listed below:

ADOT Civil Rights Office
206 S. 17th Avenue, Mail Drop 155-A
Phoenix, AZ 85007
602.712.8946 FAX 602.239.6257

Krystal Smith
Title VI/ADA Coordinator
KSmith2@azdot.gov
CivilRightsOffice@azdot.gov



AUXILIARY AIDS AND SERVICES

In compliance with Title II of the Americans with Disabilities Act (ADA), Section 504 of the Rehabilitation Act of 1973, the Arizona Department of Transportation (ADOT) does not discriminate against qualified individuals with disabilities on the basis of disability in its programs, services, and activities.

ADOT will make reasonable modifications to ensure that individuals with disabilities have an equal opportunity to enjoy ADOT's programs, services, and activities.

If you require an accommodation, please notify an ADOT staff member.

For additional information or questions about ADOT's External ADA Program, please contact the Civil Rights Office at 602.712.8946.



We Welcome Your Input! How to Participate

- All participants have been muted.
- We will address questions and comments after the presentation.
- Use the **Q&A function** to ask a question or make a comment.
- Participants on the phone will be able to ask questions verbally.
- We will provide instructions at the beginning of the Q&A session.



Introductions



**Arizona Department
of Transportation**

- Thor Anderson



AECOM

- Brendan Connelly
- Abby Tomlinson





AZEVPLAN

Project Background

ADOT

National Electric Vehicle Infrastructure (NEVI) Program Overview

- Infrastructure Investment and Jobs Act (IIJA) includes a total of **\$30.7 billion in EV investments nationwide** (charging infrastructure, clean vehicles, grid & battery investments, etc.)
- Made **\$5 billion available to states** under the NEVI program to **fund publicly accessible EV chargers** along **alternative fuel corridors**.
- Goals: **encourage EV adoption**, **reduce range anxiety**, and **advance equity**.



EV Benefits

Use of EVs can:

- Lower fuel and maintenance costs
- Reduce air pollution by eliminating tailpipe emissions
- Reduce greenhouse gasses
- Provide economic benefits



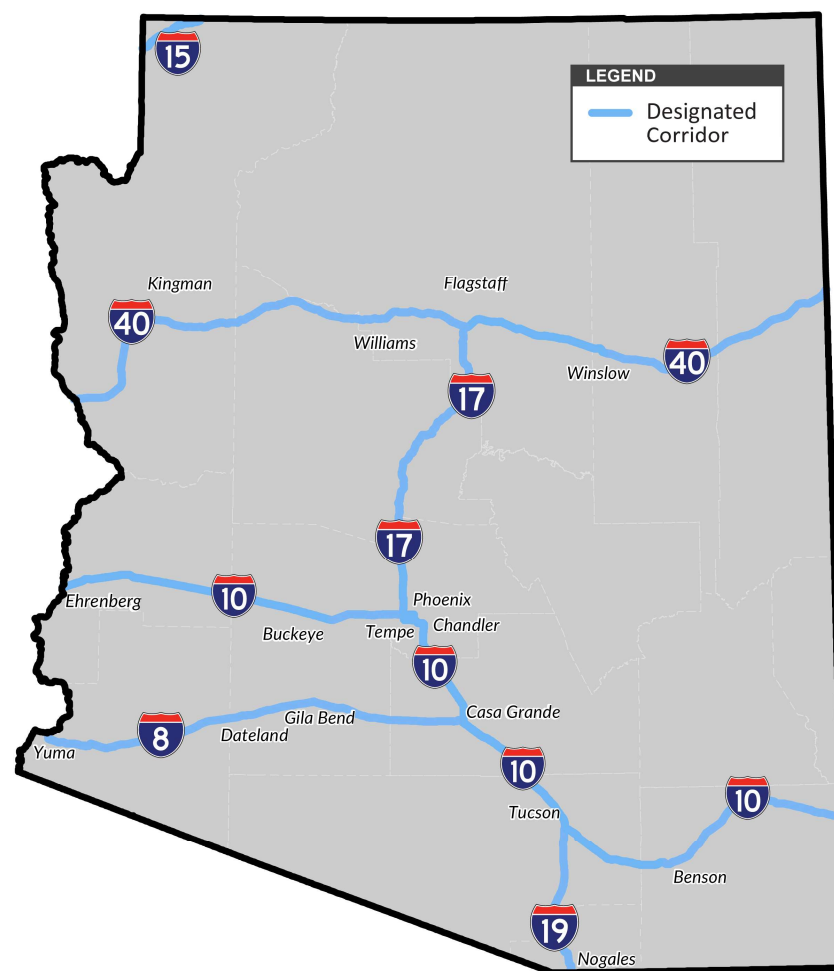
ADOT Electric Vehicle Infrastructure Deployment Plan

- Arizona's share of NEVI funding is **\$76.5 million** over five years to develop statewide charging station network.
- ADOT is required to submit an initial deployment plan by **Aug. 1**.
- Final implementation plan due **Nov. 30**
- Charging stations will be developed using 80% federal funding and a 20% private match.
- ADOT will administer contracting the stations to be built, but no state monies will be used to install or maintain charging stations.



State of Arizona Electric Vehicle Corridors

- According to federal guidance, only designated alternative fuel vehicle/EV corridors are currently eligible for funding for charging stations.
- In AZ these corridors are along the interstates.
- Additional EV corridors in AZ can be considered along National Hwy System routes, once the initial EV corridors are built out.
- **ADOT is seeking public input to prioritize implementation of initial and future EV corridors.**



NEVI Station Requirements

- One station every 50 miles within one mile of freeway (exceptions can be granted).
- Minimum of four 150-kilowatt direct current fast chargers with combined charging system (CCS) ports per station.
- Minimum charging capacity of 600 KW per station and capability to charge four electric vehicles simultaneously.
- ADOT seeking public input to assist in determining criteria for siting potential station locations.



Justice40 Initiative

- ADOT's EV plan must be equitable for disadvantaged communities, follow Justice40 guidelines for recommended investments.
- Federal policy goal: **40% of federal investment in climate and clean energy benefits disadvantaged communities**
- Includes investment in sustainable transportation
- For USDOT purposes, disadvantaged communities include:
 - Census tracts identified as 'transportation disadvantaged' under any of six categories: transportation access, health, environmental, economic, resilience and equity
 - Any tribal lands



Justice40 and ADOT's EV Plan

Potential benefits to underserved communities include:

- Improving access to clean transportation options
- Decreasing consumer costs through access to affordable charging
- Reducing exposure to fossil fuel emissions by encouraging EV adoption and use
- Promoting equitable siting and installation of EV chargers
- Improving energy resilience by decreasing reliance on fossil fuels





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Existing Conditions

ADOT

EV Charging Technology

Level 1 Standard Outlet [SLOW]

- Plug into a standard wall outlet
- Connector provided with every EV

Level 2 [MEDIUM]

- Faster charging for longer drives
- For 100% electric vehicles, provides full charge (from empty) in 4-8 hours





Level 3 150 KW DC Fast Chargers [FAST]

- Fast charging at public locations
- 80% charge (from empty) in around 30 minutes or less
- **This is the charger type for the NEVI Program**



EV Connector Types

- The NEVI Plan requires CCS connectors
- CCS connectors are becoming the universal connector and will accommodate most vehicles
- Tesla has their own connector type but can also use CCS with an adaptor

	 J1772	 CCS	 CHAdeMO	 Tesla Combo
Level 1	X	X	X	X
Level 2		X	X	X
Level 3 (DCFC)		X	X	X

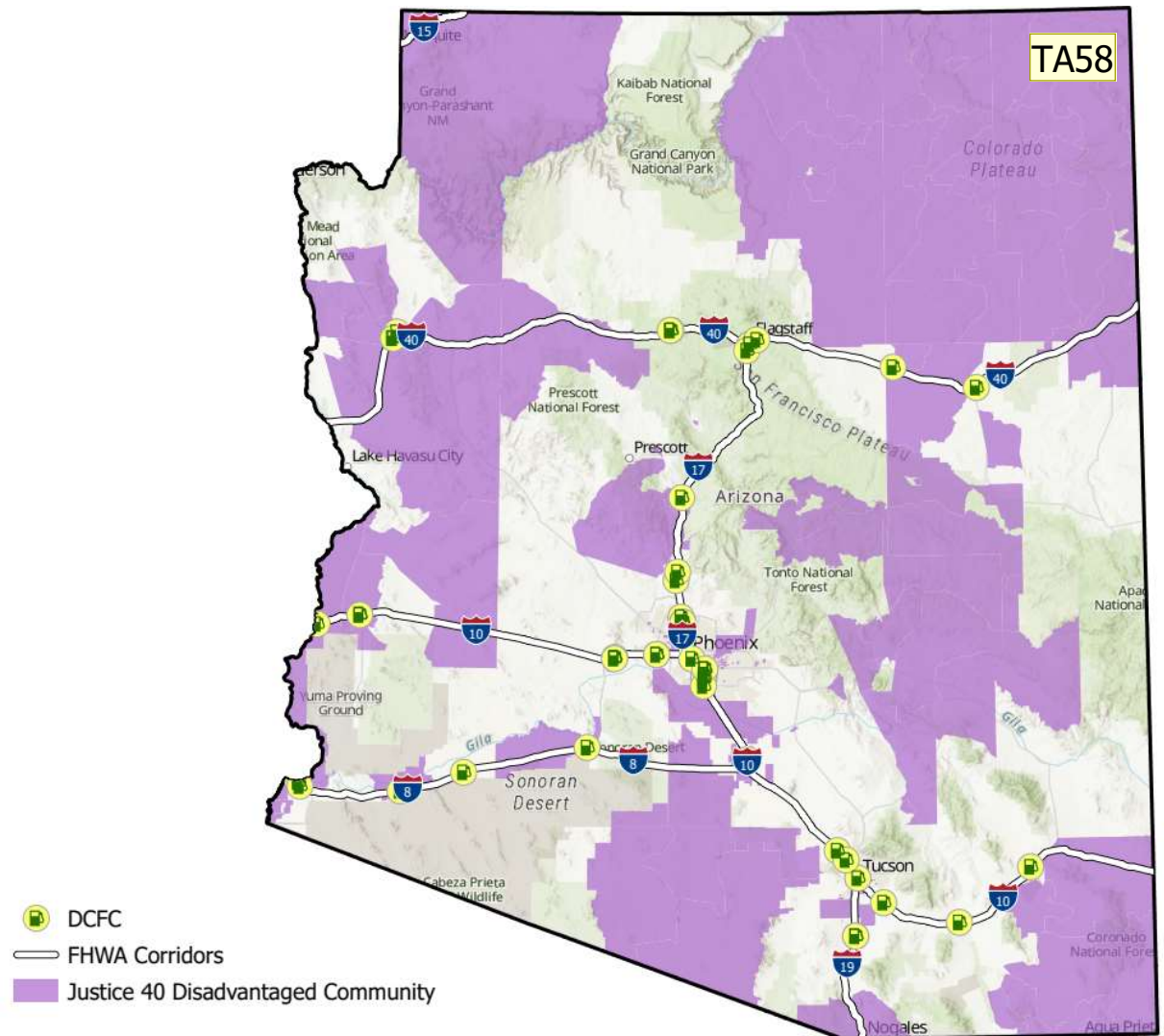
Criteria for Station Locations

- Traffic volumes (based on traffic counts)
- Amenities
- Along EV corridor, within one mile of exit
- Network connections
- Justice40 designation
- Tribal land
- Utility service availability/capacity
- Cost
- Other demographics



Existing Conditions

DCFCs in Arizona within one mile of an EV corridor



Slide 22

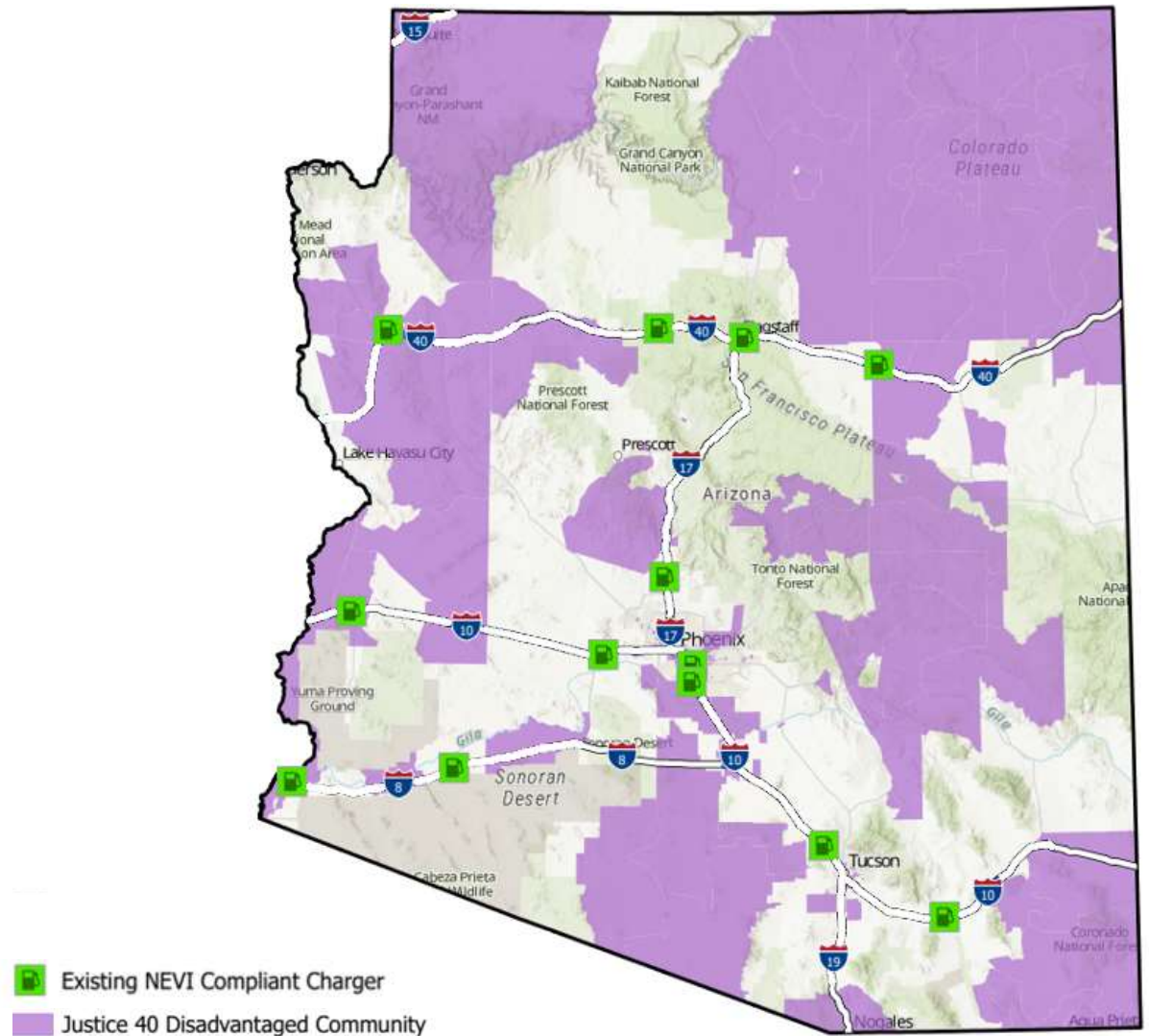
TA58

May require update

Tomlinson, Abby, 7/11/2022

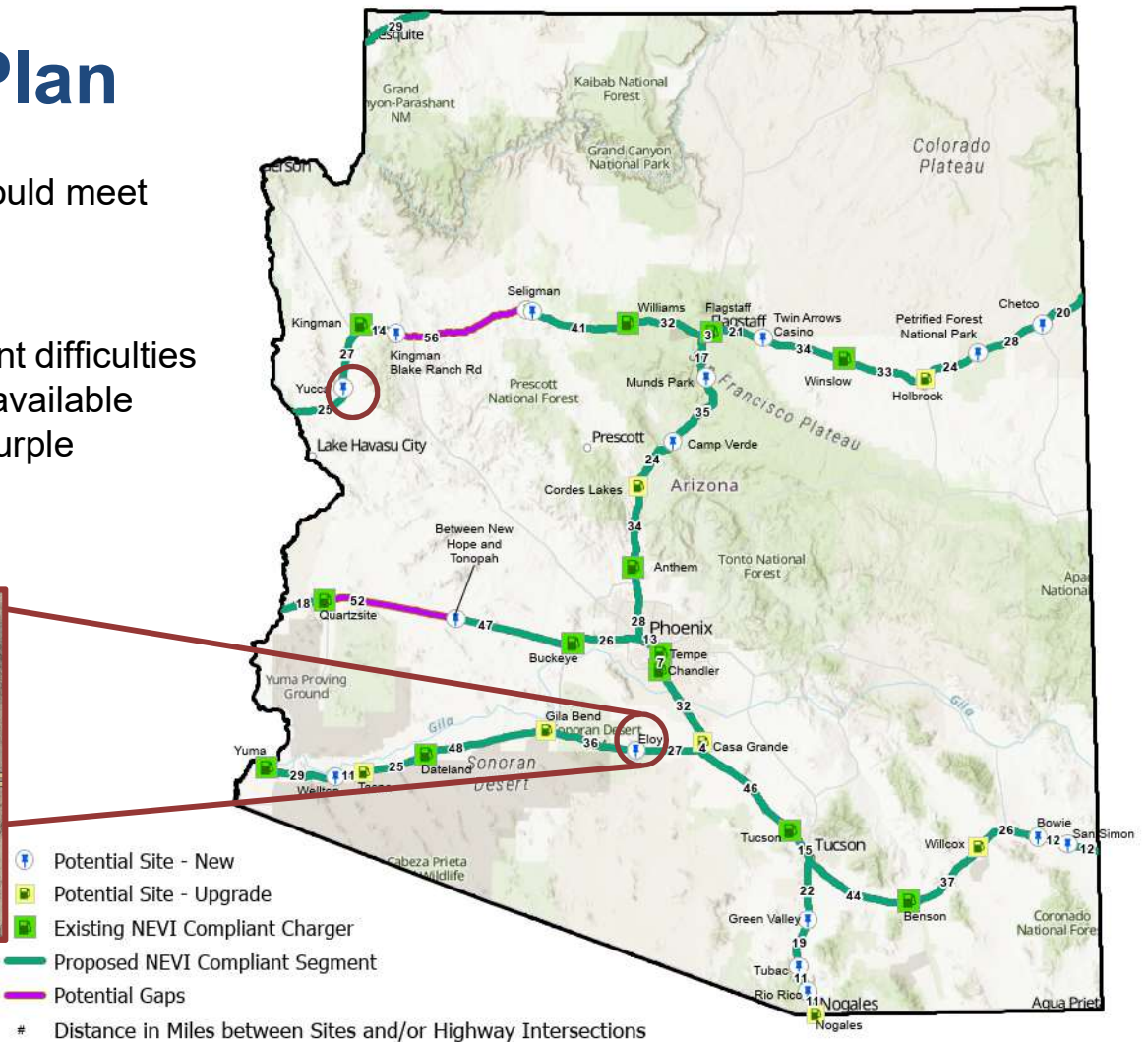
NEVI Compliant Chargers

- DCFC that did not meet NEVI requirements were filtered out.
- Still need confirmation on the existing charger power and capability to charge simultaneously to determine if upgrades needed.
- Identified gaps in network. Believe sites in neighboring states will meet NEVI requirements.



Potential Roll-out Plan

- Identified potential locations that would meet NEVI requirements.
- Some areas in the state may present difficulties in meeting NEVI guidelines due to available amenities and grid infrastructure (purple segments, red circles).





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Public and Stakeholder Outreach

ADOT

Key Stakeholder Engagement and Outreach

- **ADOT identified more than 400 key stakeholders to participate in the EV plan.**
 - Includes state agencies, local municipalities, tribes, metropolitan planning organizations, utility industry, EV industry, others with a “stake” in the plan.
- **Engaged stakeholders** to determine priorities and barriers to equitable electrification access.
 - June 30: Virtual stakeholder workshop
 - June 23-July 8: Stakeholder survey
- **Integrating input** into technical analysis
- **Stakeholder input will contribute to equitable and inclusive approaches** in developing ADOT’s electrification plan



Public Outreach

Multiple opportunities for the public to provide input on the plan.

- **July 14:** Virtual statewide public meeting
- **July 1 – July 21:** Public survey in English and Spanish
- **July 21:** Public comments due for the Aug. 1 plan submittal
- **Fall:** Draft EV plan available for public review/comment
- **Fall:** In-person public meetings statewide, public survey
 - Opportunity to comment on final implementation plan
- **Throughout:** Statewide tribal consultation





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Next Steps

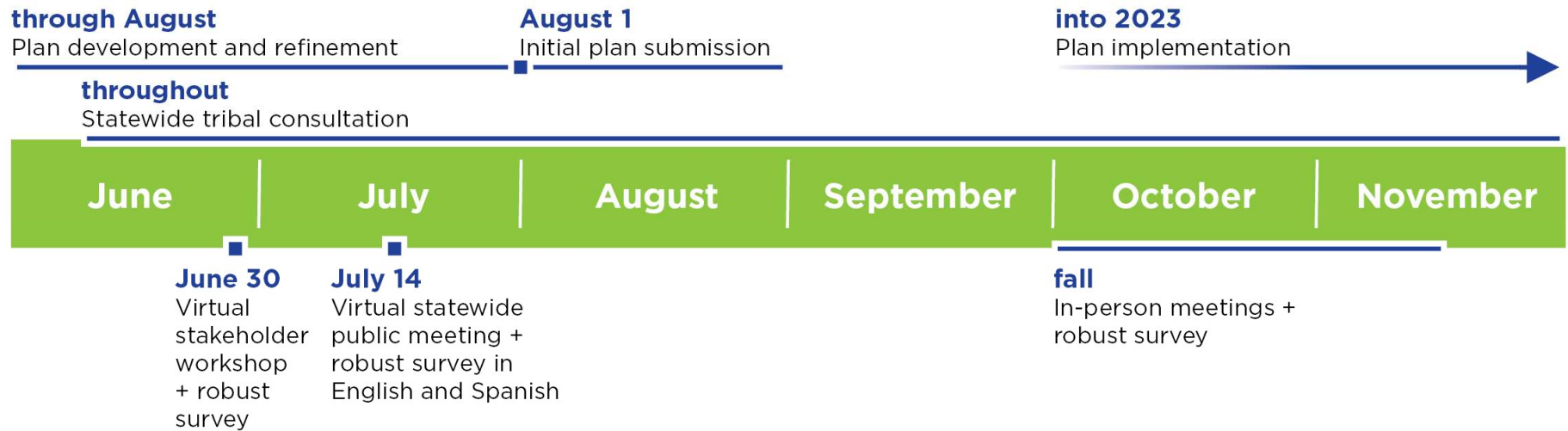
ADOT

ADOT's Initial EV Plan Will Include

- A proposed implementation plan
 - Number and locations of proposed EV charging stations
 - Proposed station amenities and installation standards
 - Funding sources
 - Identification labor, safety, training and workforce considerations
 - Operations, maintenance and security/cybersecurity plan
 - Environmental requirements
- Analysis to base recommendations
 - Low/medium/high EV adoption scenarios
 - Quantify benefits to disadvantaged communities
- Summary of public and stakeholder outreach conducted, and input received



Expected Timeline





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Question-and-Answer

ADOT

Q&A

Two ways to ask a question or make a comment at this meeting:

- In writing through the Q&A feature
- Verbally by dialing *9 (phone-in participants only)
- Verbally, by virtually raising your hand to be unmuted

Due to time constraints, to allow others time to comment:

- Please limit verbal question to no more than 30 seconds
- We may consolidate similar comments/questions
- We may not have time to address all questions/comments tonight, but welcome questions/comments via survey, email, phone, mail



Public Comments on EV Plan due July 21

Public Survey

English: www.surveymonkey.com/r/AZEVPlan

Español: www.surveymonkey.com/r/AZEVPlanEspanol



Email us at AZEVPan@azdot.gov



Call our voicemail line at
800-915-4301



Mail us at:

Attn: ADOT EV Plan, 1655
W. Jackson St., MD 126F,
Phoenix AZ 85007

Reminder to take self ID survey

English: https://azdot.gov/AZEVself_id

Español: https://azdot.gov/AZEVself_idspanish

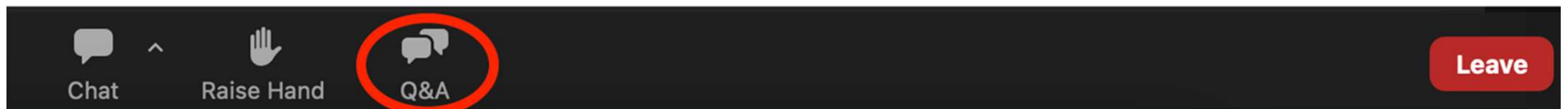
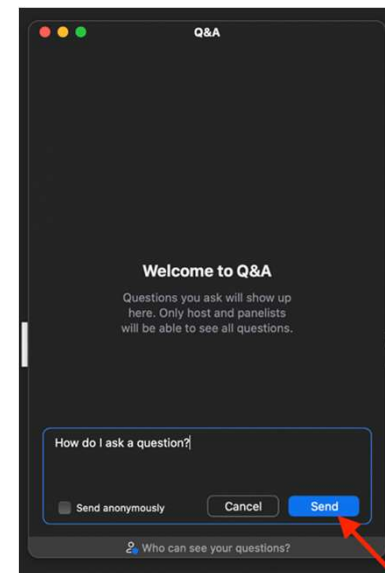
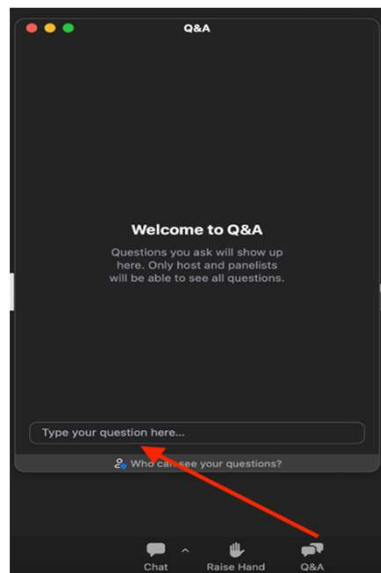


Visit the website at
azdot.gov/EVplan and
sign up for the mailing list



Electric Vehicle Infrastructure Deployment Plan

Write in Your Questions



Share your Questions Verbally

Phone-only Participants

- On your phone's keypad, press ***9** to request control
- This raises your hand and allows the moderator to give you control
- When the operator tells you that can unmute, press ***6** to unmute
- After that, you'll be able to be speak to all participants

Webinar Participants

- Raise your hand
- Moderator will unmute you in the order hands were raised; notifying you verbally that you'll be unmuted
- Once unmuted, you'll be able to speak to all participants



Public Comments on EV Plan due July 21

Public Survey

English: www.surveymonkey.com/r/AZEVPlan

Español: www.surveymonkey.com/r/AZEVPlanEspanol



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Electric Vehicle Infrastructure Deployment Plan



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Thank you!

ADOT