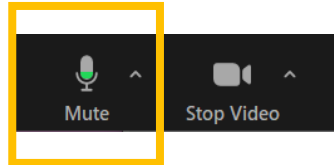


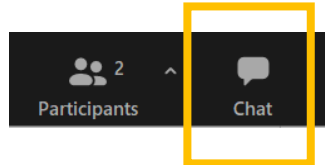
# Oklahoma Electric Vehicle Infrastructure Deployment Program



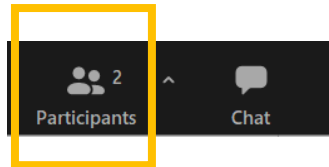
## Welcome



Please remain on **MUTE**. If you have question, please raise your hand or take yourself off mute and ask.



Use the **CHAT BOX** to ask questions anytime during the presentation.



**Need to change your NAME?**

RENAME yourself using the Participants Tab, click “More.”

# Agenda

- Welcome and Overview
  - Jared Schwennesen, ODOT
- ODOT NEVI Program Update
  - Jared Schwennesen
- Request for Proposals (RFP) Draft Overview
  - ODOT and HNTB

## Why is EV infrastructure important for Oklahoma?

- The electric vehicle industry is rapidly growing and the number of electric vehicles on the road is increasing.
- Electric vehicles are better for the environment, will result in less greenhouse gas emissions, less air pollution, and healthier outcomes for everyone.
- Oklahoma is part of a national network of charging stations to support EV travel across the country.
- The construction and maintenance of EV infrastructure will create new job opportunities.



# What is Electric Vehicle (EV) Infrastructure?

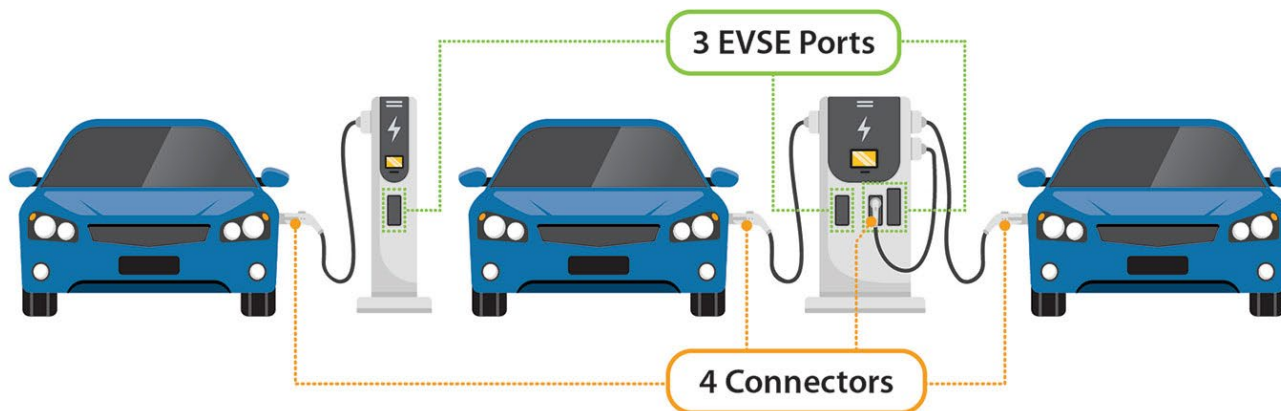
- All equipment, utilities, connections, and a supportive power network that allows people driving electric vehicles to charge their vehicle's battery.



# Charging Infrastructure Terminology

- **Station Location:** A station location is a site with one or more EVSE ports at the same address, such as a mall parking lot or a parking garage.
- **Electric Vehicle Supply Equipment (EVSE) Port:** An EVSE port provides power to charge only one vehicle at a time even though it may have multiple connectors.
- **Connector:** A connector is what is plugged into a vehicle to charge it. Multiple connectors and connector types can be available on one EVSE port, but only one vehicle will charge at a time. Connectors are sometimes called plugs.

## 1 Station Location



More information can be found at the Alternative Fuels Data Center website:

[https://afdc.energy.gov/fuels/electricity\\_infrastructure.html](https://afdc.energy.gov/fuels/electricity_infrastructure.html)

# Charging Infrastructure Terminology

- **Level 1 Charging**

- 5 miles of range per 1 hour of charging
- Charges through a 120-volt AC plug
- EV's come with portable Level 1 cordset
- Popular for at-home charging
- Assumes 1.9 kw charging power

More information can be found at the Alternative Fuels Data Center website:

[https://afdc.energy.gov/fuels/electricity\\_infrastructure.html](https://afdc.energy.gov/fuels/electricity_infrastructure.html)

- **Level 2 Charging**

- 25 miles of range per 1 hour of charging
- Charges through a 208 or 240-volt electrical service
- Most homes have a 240-volt service available
- Can charge a typical EV battery overnight
- Assumes 6.6 kw charging power

- **DC Fast Charging**

- 100 to 200+ of range per 30 minutes of charging
- Typically a three-phase AC input
- 15% of public EVSE ports in the US were DC fast chargers as of 2021
- Three types of DC fast charging systems: SAE Combined Charging System (CCS), CHAdeMO, and Tesla
- Charging power varies by vehicle and battery state of charge

# ODOT NEVI UPDATE



## NEVI Plan Approved

- FHWA approved ODOT's NEVI Plan in September 2022.
- Plan can be viewed at:  
<https://oklahoma.gov/evok>
- Update to be submitted in August 2023.



FINAL / JULY 29, 2022

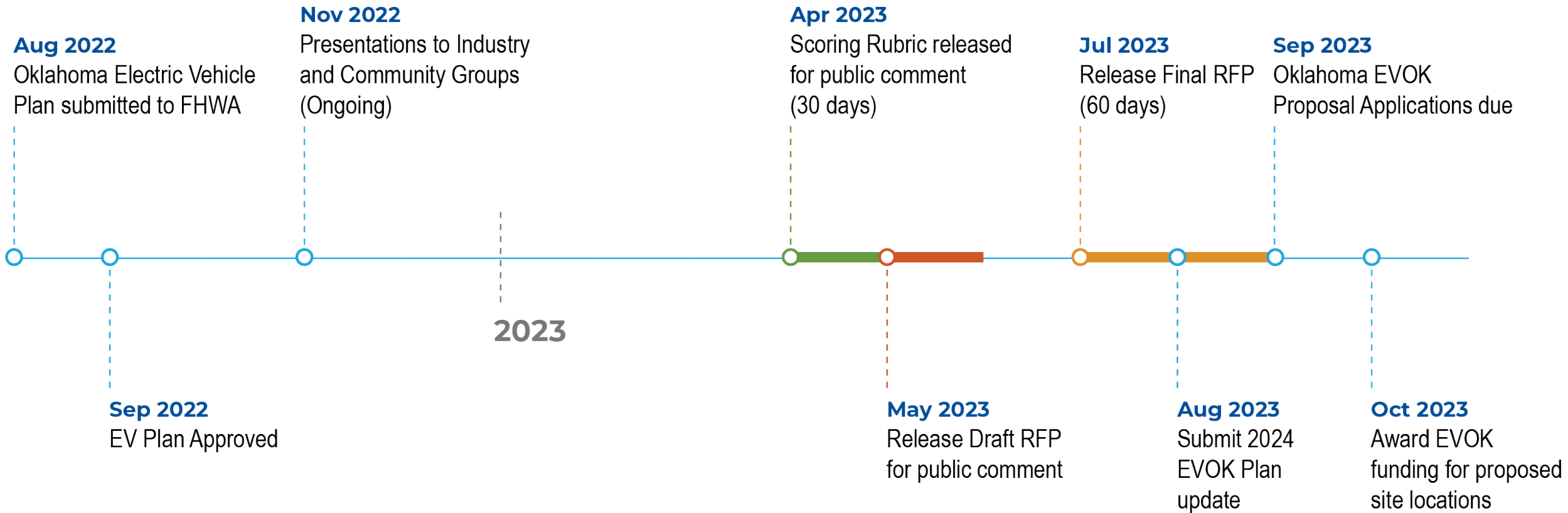
# Funding

- Oklahoma will receive **\$66M over the next 5 years**. These federal funds were approved as part of the Bipartisan Infrastructure Law (BIL) and are specifically for investments in EV facilities across the country.
- **\$22.9M in year one**.
- ODOT will cover up to 80% of project costs through Federal allocation or a maximum of \$1.2 Million per site, whichever is lower. The remaining amount is to be funded by vendors or site hosts.

# NEVI Formula Program Minimum Requirements

- Minimum of 4 ports are required anytime charging stations are installed
- Each DCFC port must have Combined Charging System (CCS) Type 1 connectors
- Charging stations along designated AFCs must be available 24 hours a day / 7 days a week (chargers on non-designated AFCs must be available for use and accessible during business hours of the site host.)
- Payment method that accepts all major debit and credit cards must be provided at all charging stations
- Chargers must be in compliance with reporting and uptime requirements for a minimum of 5 years
- Charging stations must be accessible and compliant with all ADA requirements

## Milestones



# Request for Proposals (RFP) Overview



# RFP Structure

- Competitive procurement
- Proposals should be “turnkey” NEVI compliant EVSE charging project proposals
  - Turnkey means proposals include site host, hardware, software, networking, installation and operations and maintenance (O&M)
- Releasing in July of 2023



## RFP Submittal Timeline

- RFP released mid-July
- ~ 60-day open period to submit proposals
- ~ 21 days for written questions to ODOT
- Proposals due mid-September
- Announcements will be in mid-October to late-October

# Project Site Eligibility

## Charging station requirements:

- New site is no more than 50 miles apart from preexisting or planned sites in designated corridors.
- Site is within 1-mile driving distance of interchange (exit).
- Site has four charging stations with simultaneous charging at 150KW each.
- Site will have 24/7/365 accessibility.
- Site has broadband or cellular capability.

## RFP Eligible Proposers

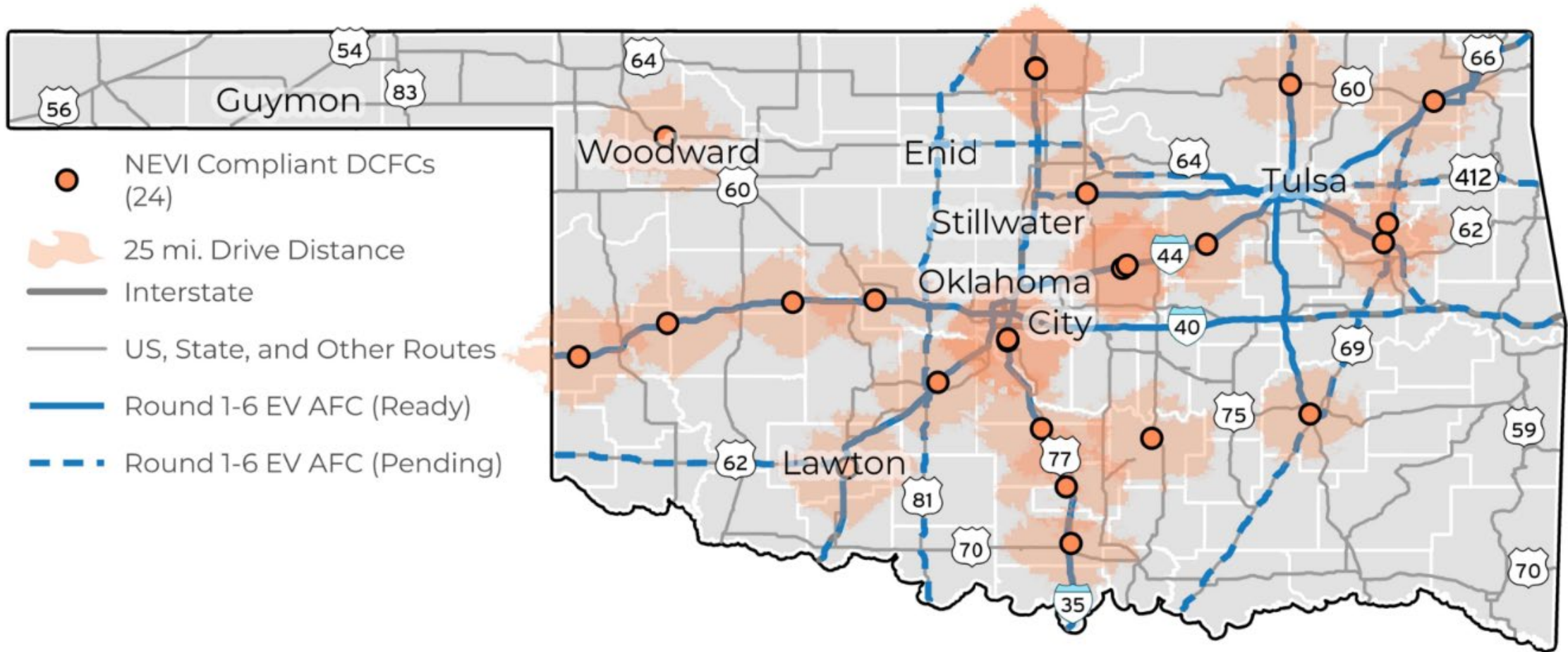
- 501(c) Non-profit entity registered in Oklahoma or
- Businesses registered with the Oklahoma Secretary of State
- Oklahoma Government entity, such as local governments, or higher education institutions
- Tribal Organizations (as defined in Title 245 US Code Section 5304 (I))
- Registered Public Utilities in Oklahoma

## RFP Eligible Proposals

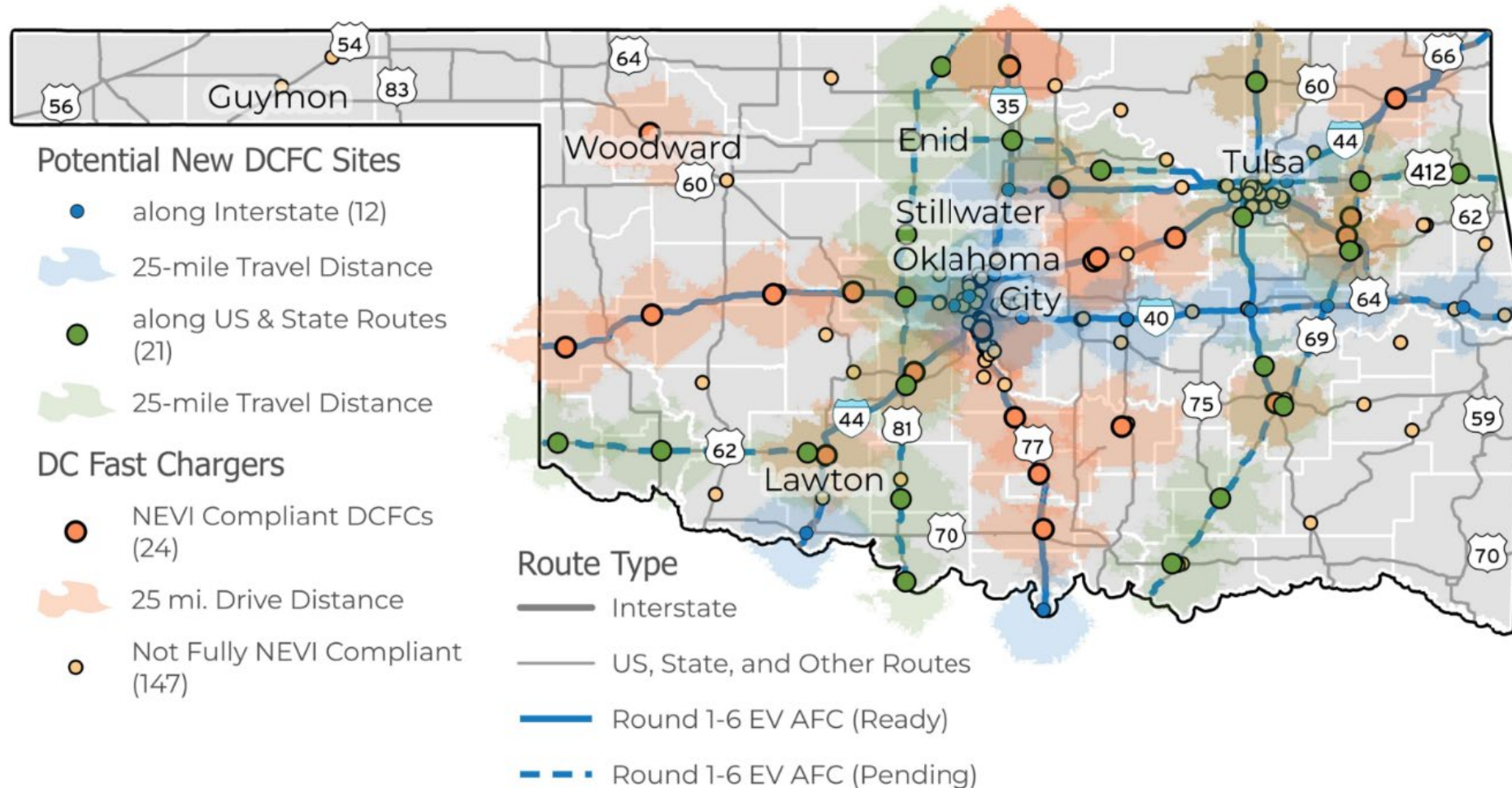
- A complete proposal submittal package is required per project proposal site.
- Sites filling EV service gaps on ODOT AFCs will be considered highly responsive.
- No Limits on the number of proposals from a single proposer.



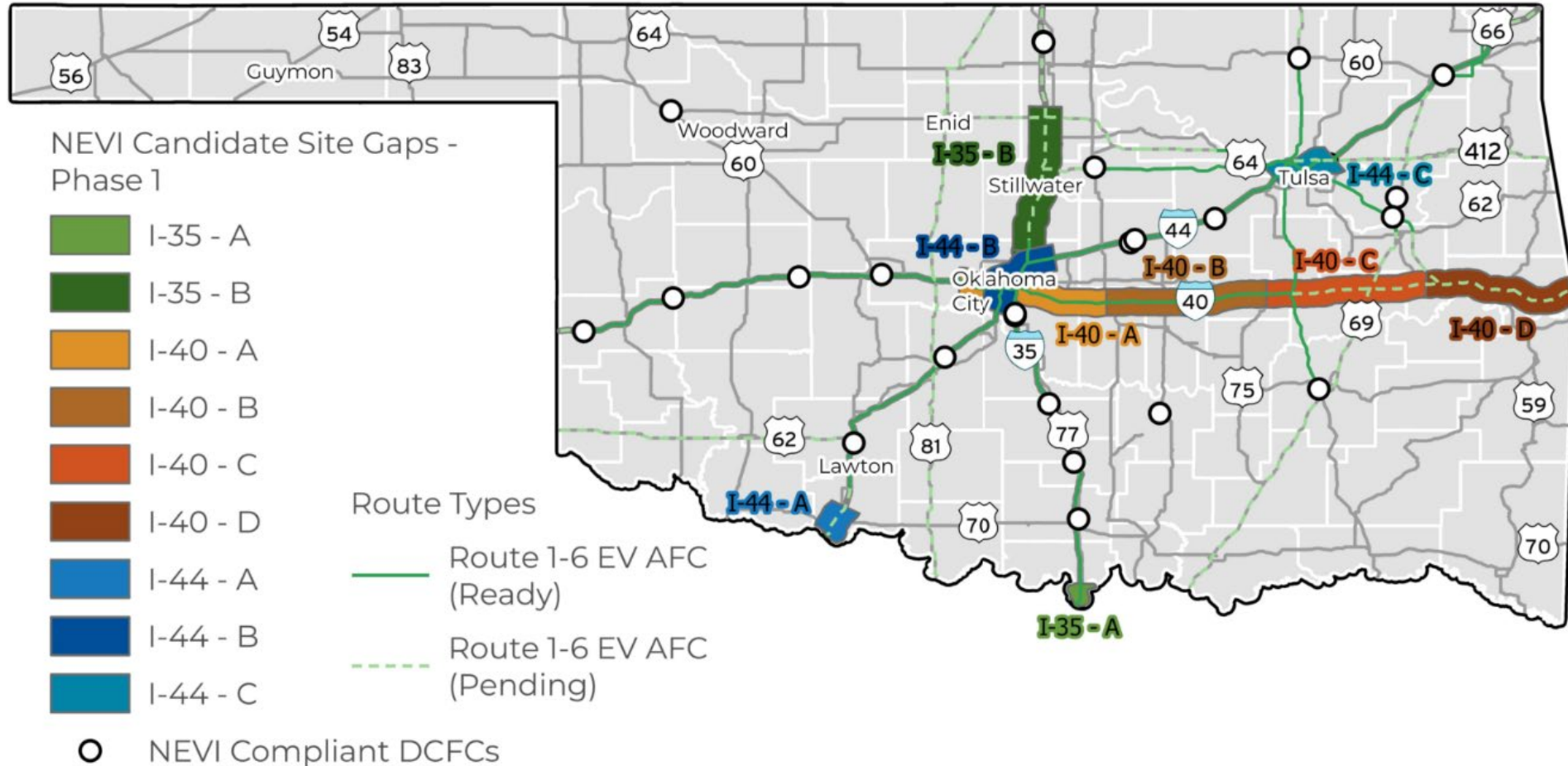
# Existing EV Infrastructure



# EV Alternative Fuel Corridor Designations and Proposals



## Round one

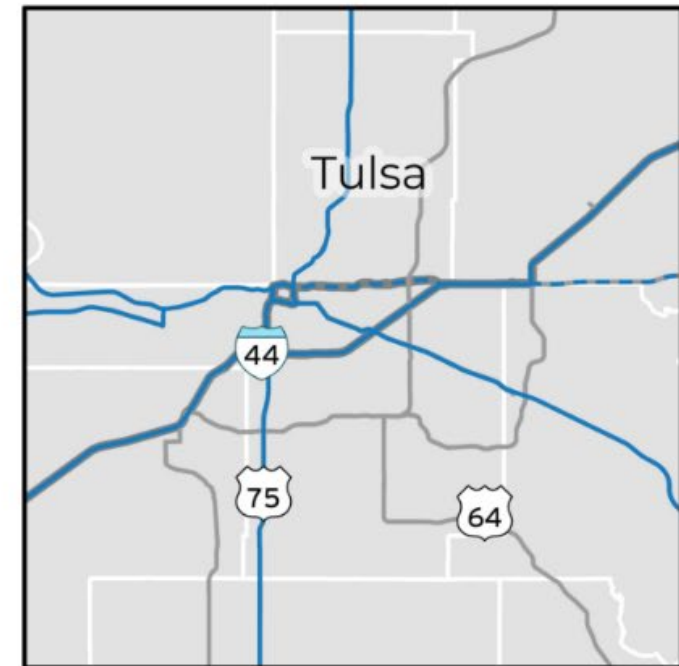
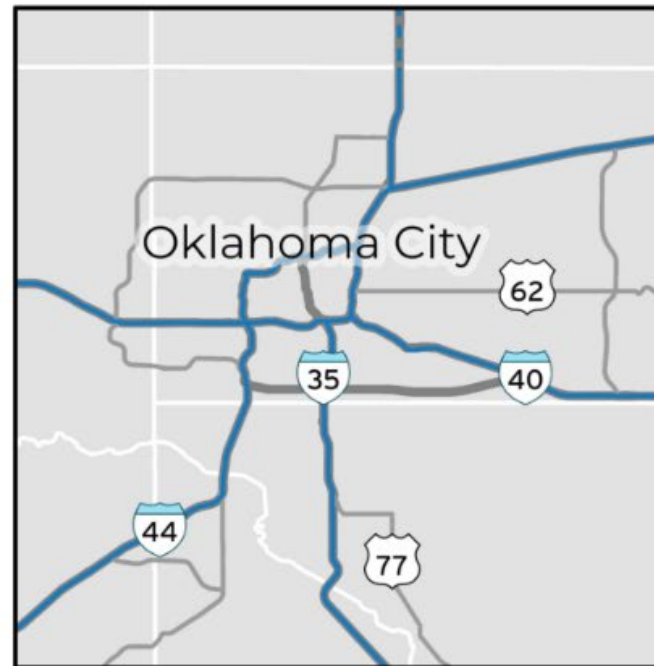




# Alternative Fuel Corridors in Oklahoma City and Tulsa

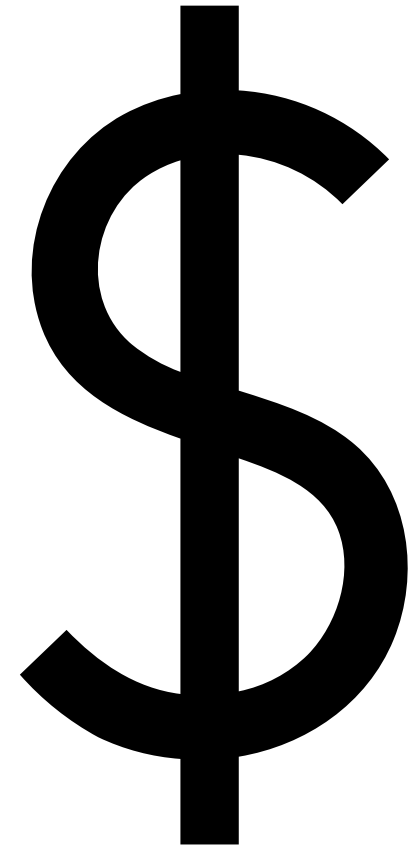
## Route Type

- Interstate
- US, State, and Other Routes
- Round 1-6 EV AFC (Ready)
- Round 1-6 EV AFC (Pending)



# Project Phasing and Eligible Costs

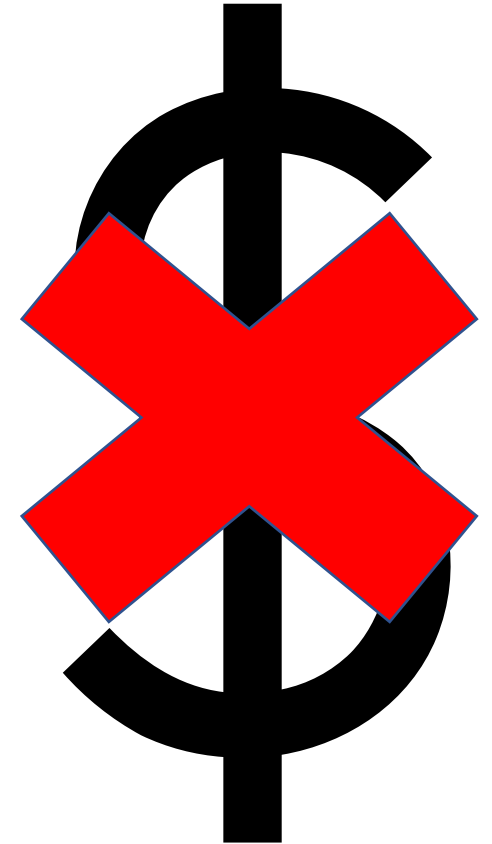
- **Pre-construction Phase:** design, environmental clearances and permitting.
- **Procurement and Construction Phase:** equipment purchasing and installation, Site utility upgrades, hardware, software testing and installation
- **Operations and Maintenance Phase:** 5-year costs for networking, operations, and maintenance





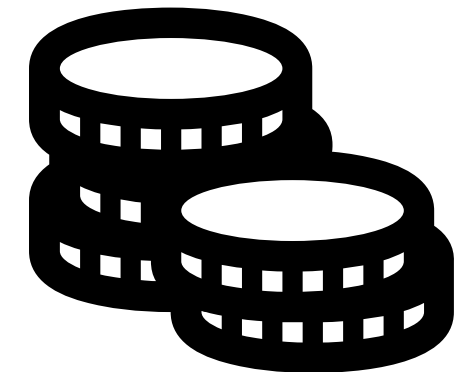
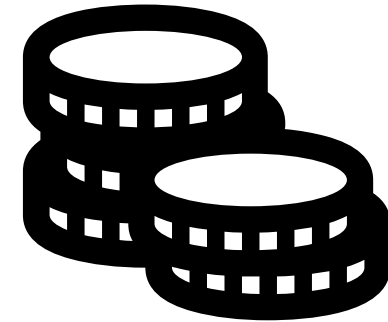
## Ineligible Costs

- Cost incurred before requisite formal Notice(s) from ODOT.
- Costs for purchase or rental of real estate.
- Costs for construction or general maintenance of building or parking facilities if not directly related to vehicle charging.
- Major utility grid upgrades. (see NEVI FAQ issued by FHWA)
- Costs already reimbursed by other grants or funding programs.
- Costs for studies or research projects.



# Matching Cost Requirements

- Federal share capped at lesser of \$1.2M or 80% of total eligible costs
- Minimum 20% non-federal match required per project by Awardee



# RFP Minimum Requirements

- NEVI Standards and Requirements, the final program rules from FHWA
- ODOT NEVI Program Requirements
- Other Federal Laws (e.g., Title 23, Buy America, Davis Bacon, etc.)

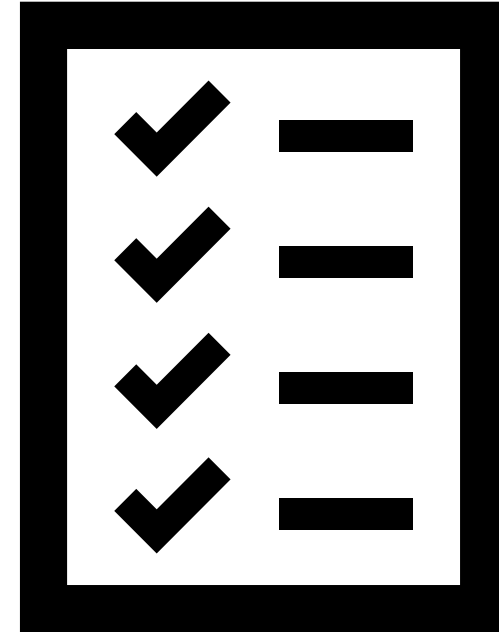


# RFP Submittal Package Requirements

- ☐ Responding Bidder Information pages
- ☐ Completed and Signed Non-Collusion Certification Page
- ☐ Completed Technical and Qualifications Proposal
- ☐ Completed and Signed Readiness Information
- ☐ Completed and Signed Pricing Sheet
- ☐ Read Sample Agreement
- ☐ Completed and Signed Addenda and Amendment Receipts
- ☐ Read Section B.9 Regarding Taxation Status
- ☐ Read Section E.1.4 Regarding Communications During Procurement

# RFP Proposal Evaluation

- Proposal Package Completeness
- Pass/Fail Requirements Criteria
- Responsiveness Criteria
- ODOT NEVI Evaluation Criteria Review and Ranking





# RFP Proposal Responsiveness

- ☐ Team Qualifications
- ☐ Project Approach
- ☐ Site Information
- ☐ Site Readiness
- ☐ Future Proofing
- ☐ Sustainability
- ☐ Equity
- ☐ Resilience
- ☐ Economic Development
- ☐ Safety
- ☐ Training
- ☐ Project Costs

## Before Procurement or Construction Phase Notice to Proceed (NTP) is issued

- ✓ Environmental Clearances
- ✓ Final Site Host Agreement
- ✓ FHWA Project Authorization
- ✓ Signed Award Agreement

# Questions?

- **Website:** <https://oklahoma.gov/evok>
- **Email:** [EVOK@odot.org](mailto:EVOK@odot.org)

# Thank you!