We will begin the forum shortly. Please mute your audio and turn off your video.
Thanks for joining!
Emcee Welcome and Introduction

Caryn Potter, Arizona
Representative, Southwest Energy Efficiency Project (SWEEP)
Technology Reminders

• Please type any questions into the chat - questions are welcome!

• All attendees will be muted and have their videos turned off until the breakout sessions.

• During the concurrent case study sessions, all attendees will be encouraged to have their videos on for active participation and dialogue.

• The presentations and recordings will be sent around to all attendees after the forum.

• If you have technical questions, contact Ellie Peichel at Plug In America: epeichel@pluginamerica.org
WELCOME SPEAKERS

JOEL LEVIN
EXECUTIVE DIRECTOR
PLUG IN AMERICA

SANDRA WATSON
PRESIDENT & CEO
ARIZONA COMMERCE AUTHORITY

JOHN HALIKOWSKI
DIRECTOR,
AZ DEPARTMENT
OF TRANSPORTATION
Overview of State EV Infrastructure Deployment Plans and Arizona’s State Plan

Steve Lommele
Joint Office of Energy and Transportation
Disclaimers

NPRM: DOT Ex Parte Communications Procedures – available at Guidance on Ex Parte Communications | US Department of Transportation

Any issues discussed today related to FHWA’s National Electric Vehicle Infrastructure Formula Program rulemaking are subject to DOT’s ex parte guidelines. Under those guidelines:

1) DOT is the receiver of information:
   • DOT personnel can listen, ask clarifying questions, and answer factual questions about public documents
   • DOT personnel cannot negotiate or provide any substantive, non-public information

2) DOT docket information for transparency:
   • DOT will docket information or memoranda memorializing communications as soon as possible. DOT’s intent is to ensure notice of any ex parte meetings and an opportunity to comment on any information submitted during an ex parte meeting.
Overview of the Joint Office

July 6, 2022
Steve Lommele, Interim Team Lead for Stakeholder Engagement

driveelectric.gov
Established in the Bipartisan Infrastructure Law to address areas of joint interest to the Departments of Energy and Transportation

$300M
in FY22 funds to DOT with transfer authority to DOE

9 major areas of emphasis

Areas of emphasis summary
1) technical assistance of vehicle charging
2) data sharing
3) performance of a national and regionalized study of vehicle charging
4) training and certification programs
5) a program to promote renewable energy generation, storage, and grid integration
6) transmission pilots in the rights-of-way
7) research, strategies, and actions to mitigate the effects of climate change
8) development of a streamlined utility accommodations policy for transmission in the transportation right-of-way
9) any other issues that the Secretary of Transportation and the Secretary of Energy identify as issues of joint interest
Joint Office Mission and Vision

Mission
To accelerate an electrified transportation system that is affordable, convenient, equitable, reliable, and safe.

Vision
A future where everyone can ride and drive electric.
Immediate-Term Bipartisan Infrastructure Law Priorities for the Joint Office

The Joint Office will provide unifying guidance, technical assistance, and analysis to support the following programs:

- **National Electric Vehicle Infrastructure Formula Program (U.S. DOT)**
  $5 billion for states to build a national EV charging network along corridors

- **National Electric Vehicle Infrastructure Discretionary Program (U.S. DOT)**
  $2.5 billion in community grants for EV charging, as well as hydrogen, natural gas, and propane fueling infrastructure

- **Low-No Emissions Grants Program for Transit (U.S. DOT)**
  $5.6 billion in support of low- and no-emission transit bus deployments

- **Clean School Bus Program (U.S. EPA)**
  $5 billion in support of electric school bus deployments
NEVI Formula Program-Important 2022 Dates

Feb 10:
- NEVI Formula Program Guidance
- Alt Fuel Corridor Round 6 Request For Nominations

May/June:
- 180 Day Minimum Standards published
- Round 6 Nominations Due

Aug 1: State Plans Due

Sept 30: FHWA approves State Plans
Publication kicks off the state planning process:

- Funding Features
- State EV Infrastructure Deployment Plans
- Project Eligibility Provisions
- Program Administration
- Technical Assistance and Tools
NEVI Formula Program Guidance – EV Charging

Provides guidance on EV charging infrastructure attributes:

• EV charging infrastructure is installed every 50 miles along the State’s portions of the Interstate Highway System within 1 travel mile of the Interstate, unless a discretionary exception has been granted;

• EV charging infrastructure includes at least four 150kW DC Fast Chargers with Combined Charging System (CCS) ports capable of simultaneously charging four EVs;

• EV charging infrastructure has minimum station power capability at or above 600kW and supports at least 150kW per port simultaneously across four ports for charging;

• Such additional considerations deemed necessary and appropriate by the Secretary of Transportation.
NEVI Formula Program- Project Funds Eligibility

- The **acquisition or installation of electric vehicle charging infrastructure**;
- **Operating assistance** for costs allocable to operating and maintaining electric vehicle charging infrastructure acquired or installed under this program, for a period not to exceed five years;
- **Development phase activities** relating to the acquisition of stations and equipment as well as installation of EV charging infrastructure
  - This includes community outreach and participation, including with rural, Tribal, and disadvantaged communities, to facilitate equitable and accessible deployment of EV charging infrastructure
- **On premises signs** to provide information about electric vehicle charging infrastructure acquired, installed, or operated.
- **Data sharing** about EV charging infrastructure to ensure the long-term success of investments
- The acquisition or installation of **traffic control devices** located in the right-of-way to provide directional information to electric vehicle charging infrastructure acquired, installed, or operated under the NEVI program
- **Mapping and analysis activities** to evaluate, in an area in the United States designated by the eligible entity

Details Available: Section IV.A- Project Eligibility Provisions
NEVI Formula Program – Draft Standards & FAQs (06/09)

Frequently Asked Question Highlights:
• Eligible program costs
• Guidance for including disadvantaged communities in planning and deployment
• Exception requests for station locations

Notice of Proposed Rulemaking Highlights:
• CCS connector standard
• Plug and Charge (ISO 15118) protocol
• Data Reporting Requirements
• 97% uptime expectation
• We are currently in a public comment period – please submit feedback on www.regulations.gov!
Frequently Asked Questions – Overview

• Engagement with states revealed several areas of uncertainty pertaining to the NEVI Formula Program

• Top themes from conversations were consolidated into a FAQ document, posted on driveelectric.gov

• The 52 FAQs are intended to provide clarity to states as they develop their plans, as well as other stakeholders interested in the program
The FAQs span the following topic areas:

- **General Questions** (18)
  - Submission and approval timelines, Title 23, ADA, etc.
  - Most frequent question: *When must first year’s plans be submitted?*
    Answer: August 1, 2022, with content reflecting funding for Fiscal Year 2023

- **Eligible Expenditures** (10)
- **Operation and Maintenance Costs** (1)
- **Program Administration Costs** (3)
- **Utility Planning** (2)
- **Public Engagement** (4)
- **Equity Considerations** (8)
- **Permitting and Environmental Review** (4)
- **Technical Assistance** (2)
Question: New EV charging stations should be spaced 50 miles apart and within one mile of the Interstate exit or highway. Can States request exceptions from these requirements?

- Exceptions will be granted under limited circumstances on a case-by-case basis, approved in conjunction with annual state plan certification.
- As part of the development and approval of Plans, a State DOT may submit a request for discretionary exceptions from the requirement that charging infrastructure is installed every 50 miles along designated Alternative Fuel Corridor highway and within 1 travel mile of the designated Alternative Fuel Corridor highway.
- A template for requesting such discretionary exceptions has been developed and is available on the Joint Office of Energy and Transportation website at https://driveelectric.gov/technical-assistance/.
- Discretionary exceptions against the 50-mile and 1-mile criteria may be considered for reasons related to grid capacity, geography, equity, and extraordinary cost, as explained further in the instructions for the discretionary exception template.
Location and Request for Public Comment

• NPRM was published in the Federal Register: https://www.federalregister.gov/documents/2022/06/22/2022-12704/national-electric-vehicle-infrastructure-formula-program

• Public comments are requested by August 22, 2022

• Comments may be submitted by one of the following means:
  – **Mail**: Docket Management Facility, U.S. Department of Transportation, 1200 New Jersey Avenue SE, Washington, D.C. 20590
  – **Hand Delivery**: U.S. Department of Transportation, Docket Operations, West Building Ground Floor, Room W12-140, 1200 New Jersey Avenue SE, Washington, D.C. 20590, between 9 a.m. and 5 p.m., Monday through Friday, except federal holidays (phone number is 202-366-9329)
The goal is a national network

How do we connect regions? The Nation?
How do we ensure that network is convenient, affordable, reliable, equitable, and safe?
Existing Corridors, Charging Network

- EV Alt. Fuel Corridor build out is the near-term priority of the NEVI program
- Round 6 nominations are currently being processed

*Alternative Fuels Data Center Station Locator, Accessed June 15
Joint Office
Technical Assistance
Principles

Respectful collaboration with the electric charging experts that have preceded the Joint Office to accomplish our shared vision:

A future where everyone can ride and drive electric

• In our goal to build a reliable, convenient, equitable national network, Technical Assistance will
  – Dive into the hard challenges alongside states and our partners in order to create something revolutionary.
  – Help states getting started build on the successes and learn from the challenges of states with more mature networks.
  – Utilize the people, programs, and relationships that came before us and enable future charging experts.
State One on One Meetings

Individual meetings between states and the Joint Office

52 meetings held

• Addressing questions/concerns related to NEVI Formula Program & Round 6 AFC nominations
• General assistance developing NEVI State Plans
• Support with Round 6 AFC nominations
• Clarification on NEVI Program Guidance or 180-day Minimum Standards & Requirements

Email or use contact form for assistance

State one on one meetings
Equity and Justice40

Important Guidance Currently Available:
- Justice40 Interim Guidance
- Guidance to states

Important Forthcoming Information:
- Minimum Standards and FAQs
- Equity and Justice40 webinar

Equity Tools for NEVI:
- Electric Vehicle Charging Justice40 Map
  https://www.anl.gov/es/electric-vehicle-charging-equity-considerations
- Rural EV Toolkit
  https://www.transportation.gov/rural/ev/toolkit
DriveElectric.gov

Website connects state DOTs and other stakeholders to technical assistance resources, including:

– NEVI guidance
– State plan template
– Technical assistance concierge
– Supporting data and tools
– Will continue to update as new resources become available
Thank You
Connecting Federal Stimulus Projects to State and Utility Transportation Electrification Plans

NICK NIGRO (MODERATOR)
FOUNDER
Atlas Public Policy

TONY PEREZ
SR. ENERGY INNOVATION ANALYST
ARIZONA PUBLIC SERVICE

MARC CAMPBELL
Strategic Partnership Development Manager
SALT RIVER PROJECT

ED STILLINGS
SENIOR TRANSPORTATION PLANNER
FEDERAL HIGHWAY ADMINISTRATION

ERIC ANDERSON
EXECUTIVE DIRECTOR
MARICOPA ASSOCIATION OF GOVERNMENTS

THOR ANDERSON
MULTI-MODAL MANAGER (EV PLAN LEAD)
ARIZONA DEPARTMENT OF TRANSPORTATION
NEVI Formula Program - Important 2022 Dates

Feb 10:
- NEVI Formula Program Guidance
- AFC Round 6 RFN

May 13:
- Round 6 Nominations Due

June:
- 180 Day Minimum Standards published (NPRM)

Aug 1: State Plans Due

Sept 30: FHWA approves State Plans
Discretionary Grant Program for Charging and Fueling Infrastructure

• For EV charging, hydrogen, propane, and natural gas fueling infrastructure
• Divided into two distinct $1.25 billion grant programs to support EV charger deployment
  
  – **Corridor Charging Grant Program.** This program will strategically deploy publicly accessible EV charging infrastructure and hydrogen, propane, and natural gas fueling infrastructure along designated **Alternative Fuel Corridors**
  
  – **Community Charging Grant Program.** This program will strategically deploy publicly accessible EV charging infrastructure and hydrogen, propane, and natural gas fueling infrastructure in **communities**
AT A GLANCE

- Serving Arizona since 1886
- Investor-owned public service company, regulated by ACC
- 34,646 square mile service territory, operating in 11 counties
- Serving nearly 1.3 million homes and businesses
- Goal to deliver 100% clean, carbon-free electricity by 2050
TRANSPORTATION ELECTRIFICATION

Strategy and Programs

Customer Programs

- Take Charge AZ L2
- Take Charge AZ DCFC
- APS SmartCharge
- Residential EVSE Rebate
- Fleet Advisory Services
- New Home L2 Pre-Wire
- Education & Outreach

EV Rates

- Commercial DCFC Rate Rider
- Commercial L1-L2 GS EV Rate Rider (pending approval)
- Residential Super Off-Peak EV Rate (pending approval)

APS is committed to enabling EV adoption with a focus on customer experience, grid integration, and equity.

APS Transportation Fleet Goals

- 30% LDV fleet electric by 2025, with stretch goal to be 100% carbon free by 2050
Transportation Electrification Activator

Arizona Transportation Electrification Forum
July 6, 2022

Marc Campbell
TRANSPORTATION ELECTRIFICATION (TE) ACTIVATOR

Building a regional partnership for Transportation Electrification to benefit Arizona’s communities.
WE WANT TO GET THINGS DONE

We’ve launched the Transportation Electrification Activator - a coalition of practitioners and supporters - focused on accelerating electrification of the transportation sector in Arizona.

We believe that through coordinated action centered on getting things done, we can transform our region’s approach to TE in way that bolsters electric vehicle adoption and the benefits that come with it.
HOW WE ACHIEVE OUR MISSION

1) Work together to help overcome common barriers
2) Set public goals, build transparency, and enable synergies across the region
3) Implement aligned action plans to advance collaboration and pursue complimentary objectives
4) Commit to regular reporting on progress
5) Encourage additional stakeholders to join the movement
UNLOCKING FEDERAL TE FUNDING

Leveraging our partnership

• TEA feedback to ADOT
• Coordinate joint grant application
Opportunities in EV Charging Across Rural Arizona

Alex Clegg

US Department of Transportation Rural Opportunities to Use Transportation for Economic Success (ROUTES)
Charging Forward
A Toolkit for Planning and Funding Rural Electric Mobility Infrastructure
www.transportation.gov/rural/ev/toolkit
About the ROUTES Initiative

The Rural Opportunities to Use Transportation for Economic Success (ROUTES) Initiative aims to address disparities in rural transportation infrastructure and improve safety and economic competitiveness nationwide.

The ROUTES Initiative is established to...

**Engage Rural Communities** through a series of events to better understand the needs and priorities of rural communities and collect essential data from stakeholders representing different communities, groups, workers, and industries to identify solutions.

**Harmonize DOT Programs** to implement rural policy by establishing the ROUTES Council to lead and coordinate Departmental activities to implement BIL and better align new and existing funding, financing, and technical assistance programs with the needs of rural and Tribal communities.

**Utilize a Whole-of-Government Approach** by partnering with other rural-focused Federal agencies such as DOE, DOI, and USDA to expand DOT’s presence in rural America, better promote DOT’s resources to their customers, and capitalize on synergies between Federal funding programs.
Electrification of Rural Transportation

All Americans should have the opportunity to benefit from the lower operating costs, reduced maintenance needs, and improved performance that EVs provide.

**WHY RURAL**

- Transportation makes up **20% of rural household expenses**, compared to 16% in urban areas.
- Rural households spend **44% more on transportation fuel** than urban households.
- Rural residents drive **10 more miles per day** on average than urban residents.

**WHY NOW**

- **Federal strategy** to build 500,000 electric vehicle (EV) chargers nationwide.
- **Bipartisan Infrastructure Law** includes $7.5 billion of funding for new EV chargers and other alternative fueling infrastructure.
- **Executive Order** targeting 50% of new vehicles sold in 2030 be zero-emission vehicles.

USDOT’s **Rural EV Infrastructure Toolkit** was created under the ROUTES Initiative to help rural entities plan and fund EV chargers.
USDOT’s Rural EV Infrastructure Toolkit

Charging Forward: A Toolkit for Planning and Funding Rural Electric Mobility Infrastructure

The toolkit provides a free, one-stop resource to help rural stakeholders scope, plan, and fund EV charging infrastructure.

- Highlights the benefits of EVs for rural areas
- Identifies key stakeholders and partners in project planning and implementation
- Walks through a project planning checklist and provides technical advice on project scoping, installation, and operations
- Compiles helpful tools and resources for cost analysis, charging needs assessment, and equitable planning
- Lists Federal funding and financing programs and eligibility criteria
## Active & Upcoming NOFOs

### Program

<table>
<thead>
<tr>
<th>Program</th>
<th>FY22 NOFO</th>
<th>FY22 Funding</th>
<th>Rural Set-Aside</th>
<th>Rural Definition</th>
<th>Eligible Applicants</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safe Streets and Roads for All</td>
<td>OPEN NOW</td>
<td>$1 Billion</td>
<td>n/a</td>
<td>n/a</td>
<td>✓✓✓✓</td>
</tr>
<tr>
<td>Bridge Investment Program</td>
<td>OPEN NOW</td>
<td>$2.4 Billion</td>
<td>n/a</td>
<td>n/a</td>
<td>✓✓✓✓✓</td>
</tr>
<tr>
<td>Tribal Transportation Program Safety Fund (TTPSF)</td>
<td>OPEN NOW</td>
<td>$22 Million</td>
<td>n/a</td>
<td>n/a</td>
<td>✓</td>
</tr>
<tr>
<td>Railroad Crossing Elimination Program</td>
<td>OPEN NOW</td>
<td>$573 Million</td>
<td>20%</td>
<td>Outside UA &gt;50k</td>
<td>✓✓✓✓✓</td>
</tr>
<tr>
<td>Reconnecting Communities Pilot Program</td>
<td>OPEN NOW</td>
<td>$195 Million</td>
<td>n/a</td>
<td>n/a</td>
<td>✓✓✓✓✓</td>
</tr>
<tr>
<td>Nationally Significant Federal Lands and Tribal Project Program</td>
<td>July</td>
<td>$55 Million</td>
<td>n/a</td>
<td>n/a</td>
<td>✓* ✓* ✓</td>
</tr>
<tr>
<td>Ferry Service for Rural Communities</td>
<td>July</td>
<td>$206 Million</td>
<td>100%</td>
<td>Outside UA &gt;50k</td>
<td>✓</td>
</tr>
<tr>
<td>Culvert Removal, Replacement, and Restoration</td>
<td>Summer</td>
<td>$200 Million</td>
<td>n/a</td>
<td>n/a</td>
<td>✓✓✓</td>
</tr>
<tr>
<td>CRISI</td>
<td>August</td>
<td>$2 Billion</td>
<td>25%</td>
<td>Outside UA &gt;50k</td>
<td>✓✓✓✓✓</td>
</tr>
<tr>
<td>SMART</td>
<td>September</td>
<td>$100 Million</td>
<td>30%</td>
<td>Outside UA &gt;50k</td>
<td>✓✓✓✓✓</td>
</tr>
</tbody>
</table>

Please note schedule is approximate and subject to change

**Note:** This table does not include all BIL programs or eligible entities, and there are additional nuances not represented in this table. "PA" means a special purpose district or public authority with a transportation function; "∗" Applicant eligibility explained in greater detail on subsequent slides.

https://www.transportation.gov/rural/funding-opportunities
New Technical Assistance Programs

• DOT Navigator
  • One-stop shop to help non-traditional DOT grantees and underserved communities understand the best ways to apply for grants, and to plan for and deliver transformative infrastructure projects and services
  • https://www.transportation.gov/dot-navigator

• Thriving Communities Initiative
  • Technical assistance, planning and capacity building to advance a program of projects that support transportation, economic opportunity and community development goals (anticipated later this year)
  • https://www.transportation.gov/grants/thriving-communities

• Rural & Tribal Infrastructure Advancement
  • New technical assistance program for accessing TIFIA loans (anticipated later this year)

• DOT Bipartisan Infrastructure Law Hub
  • Information on all new and improved programs in the BIL
  • https://www.transportation.gov/bipartisan-infrastructure-law
USDOT’s Rural EV Infrastructure Toolkit

** ROUTES:** [www.transportation.gov/rural](http://www.transportation.gov/rural)

** Toolkit:** [www.transportation.gov/rural/ev/toolkit](http://www.transportation.gov/rural/ev/toolkit)

** Email:** rural@dot.gov

** Newsletter:** [Scan the QR code](image)
5 Minute Break
Please Return by 10:55 a.m.
Fostering the Southwest's EV Economic Development and Manufacturing Hub

LINDSAY GORRILL
FOUNDER & CEO
KORE POWER

DAVID RUBIN
HEAD OF POLICY RESEARCH
CRUISE

KUNAL PHALPHER
CHIEF STRATEGY OFFICER
LI-CYCLE

KATHY KNOOP
VEHICLE GRID INTEGRATION SOLUTIONS MANAGER
GENERAL MOTORS

KEVIN PAVLOV
CEO
ELECTRAMECCANICA

LINDSEY STEGALL
MARKET DEVELOPMENT & PUBLIC POLICY MANAGER
EVGO

STEVE ZYLSTRA (MODERATOR)
PRESIDENT & CEO
ARIZONA TECHNOLOGY COUNCIL
Mark Kelly has served his country as a U.S. Navy combat pilot, a NASA astronaut, and now as a U.S. Senator for Arizona. Senator Kelly has broken through Washington gridlock to deliver real results for Arizonans. In his first year, he played a key role in shaping and passing the historic bipartisan infrastructure law, which is improving Arizona’s roads, bridges, water systems, ports of entry, high-speed internet access, wildfire response, and much more.

Senator Kelly serves on the Armed Services, Environment and Public Works, Energy and Natural Resources, Aging, and Joint Economic Committees. He is Chair of the Emerging Threats and Capabilities Subcommittee of the Senate Armed Services Committee, where he focuses on making sure the U.S. has the research and technology needed to outcompete our adversaries like China. Senator Kelly is married to former Congresswoman Gabby Giffords and they live in Tucson.
Remarks Before "Stories of TE in Action"

• Renee Louzon - Benn,
  Greater Casa Grande Chamber of Commerce

ARIZONA TRANSPORTATION ELECTRIFICATION FORUM
Virtual Event | July 6th, 2022
9:00 A.M. - 1:00 P.M. (PDT/AZTime)

10 Minute Break
Please Return by 12:15 p.m.
BREAKOUT SESSIONS

Interstate Electric Vehicle Charging
MODERATORS:
Dean Taylor, Plug In America

Heavy-Duty EVs for Schools & Local Governments
MODERATORS:
Diane Brown, Arizona PIRG Education Fund
Aaron Kane, City of Phoenix, Office of Councilwoman Ansari

Getting EV Infrastructure in Underserved Communities
MODERATORS:
DJ Portugal & Sawsan Abdurrahman, Chispa AZ

Community Electric Vehicle Charging
MODERATORS:
Katherine Stainken, Electrification Coalition
Forum Top Highlights & Closing Remarks