

2022 Nevada Transportation Conference

Climate / Sustainability

Electric Vehicle Infrastructure and the Role of NDOT



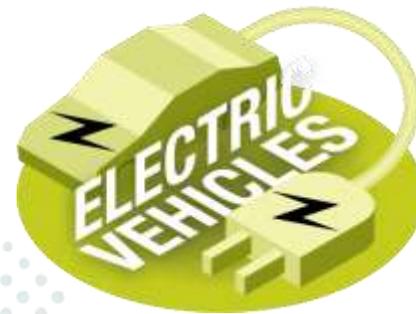
Kandee Bahr Worley, Division Chief – NV2X, Planning

May 17, 2022

IIJA Summary

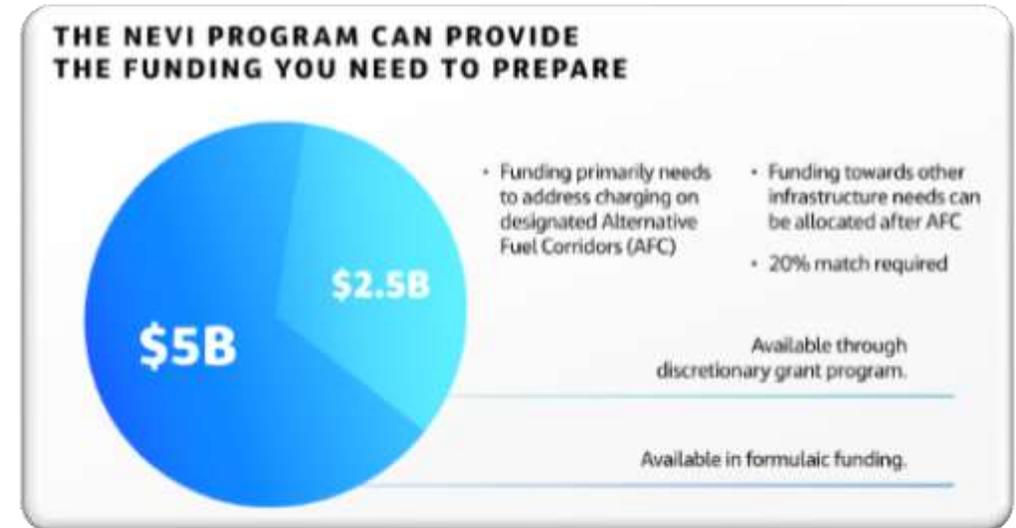
- Infrastructure Investment and Jobs Act (IIJA) = Bipartisan Infrastructure Law
- Provides \$550B investment over 5 years
- Creates new highway programs

Key Topics:



NEVI Program

- National Electric Vehicle Infrastructure (NEVI) Formula Program
- Directs \$7.5B toward EV Charging Nationally
 - \$5 B Formula Funds
 - \$2.5 B Discretionary Grants
 - Nevada Formula Amount: \$5.6M in FY22
 - Federal share is 80%
- Program is NEW, and Guidance is evolving
 - Additional Guidance coming soon



NEVI Program

- Requires a plan from the DOT on August 1st documenting a strategy for how we intend to use the funding
- Program focuses on creating a national network of charging stations
 - Alternative Fuel Corridor Program has new guidance and more strict requirements for charging
- Program emphasized partnerships with Departments of Transportation and Department of Energy – there is a national Joint Office.
- Funding can be used for many elements that build upon a national network

Criteria for Corridors

Criteria for Corridors				
Electricity	CNG Compressed Natural Gas	LNG Liquefied Natural Gas	H ₂ Hydrogen	LPG Propane
Only public stations				
1 mile from the highway	5 miles from the highway			
50 miles between stations	150 miles between stations	200 miles between stations	150 miles between stations	150 miles between stations
Only DC fast electric vehicle charging stations that have at least four EVSE ports with CCS connectors and each support a power output of at least 150 kW	Only fast-fill stations with 3,600 psi fill pressure		Only retail stations (accept payment at the point of sale)	Only primary stations (offer fueling capabilities for vehicles)

NEVI Plan Foundations

■ Plan Vision and Goals

- Vision to strategically deploy EV charging infrastructure, and establish an interconnected network
- Goals that support data collection, equitable access, and network reliability
- Performance targets

■ Contracting

- Plans for contracting with private entities, including participation of small businesses

■ Existing and Future Conditions

- Existing Locations of Charging Infrastructure
- Physical and transportation characteristics



NEVI Plan Elements

- **EV Charging Infrastructure Deployment**
 - Overarching Strategy: deployments/upgrades, funding sources, policies
 - Freight considerations
 - Public transit considerations
- **Implementation Strategies**
 - EVSE Operations & Maintenance
 - Identifying EV Charger Service Providers and Station Owners
 - EVSE Data Collection and Sharing
 - Address Resilience, Emergency Evacuation, Snow Removal/Seasonal Needs
 - Promote Strong Labor, Safety, Training, and Installation Standards

NEVI Plan Elements

- **Civil Rights**

- Compliance with State and Federal civil rights laws

- **Equity**

- Justice40 Initiative Compliance
 - Outreach to Disadvantaged Communities (DACs)
 - Identify and Measure Benefits to DACs

- **Labor and Workforce**

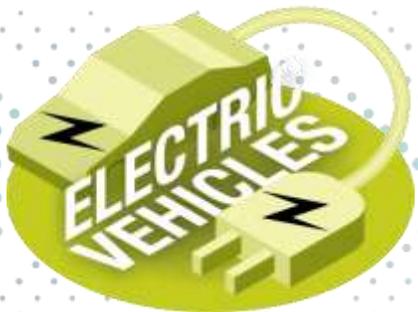
- Approach to training, experience level, and diversity of the workforce

NEVI Plan Elements

- **Cybersecurity**
 - Address cybersecurity of EV charging stations
- **Program Evaluation**
 - Monitor and report progress
 - Update plan annually

NDOT's Role

- Alternative Fuel Corridor Planning and Designations
- Design and Placement of Signage
- Prepare NEVI Plan – by August 1st, and likely annual updates
 - Document Outreach and stakeholder collaboration
 - Identify current needs and future demands
 - Coordinate with Joint Office
 - Develop Investment Strategy
- Optimize Nevada's EV Funding access through collaboration with other EV stakeholders
 - Partnership with Governor's Office of Energy
 - Specific collaboration with NV Energy on SB 448 Implementation
 - REV West to build consistency across state borders
 - Coordination with local agencies and charging providers
- Ensure Justice 40 targets are met for investment in underserved communities
- Facilitate Federal Funding (and associated regulations)



NDOT Current Status

■ Tasks Completed:

- Evaluated existing EV conditions for Interstates
- Held meetings with Joint Office (USDOT and USDOE)
- Established list of Stakeholders and Outreach plan
- Initial Coordination with NV Energy



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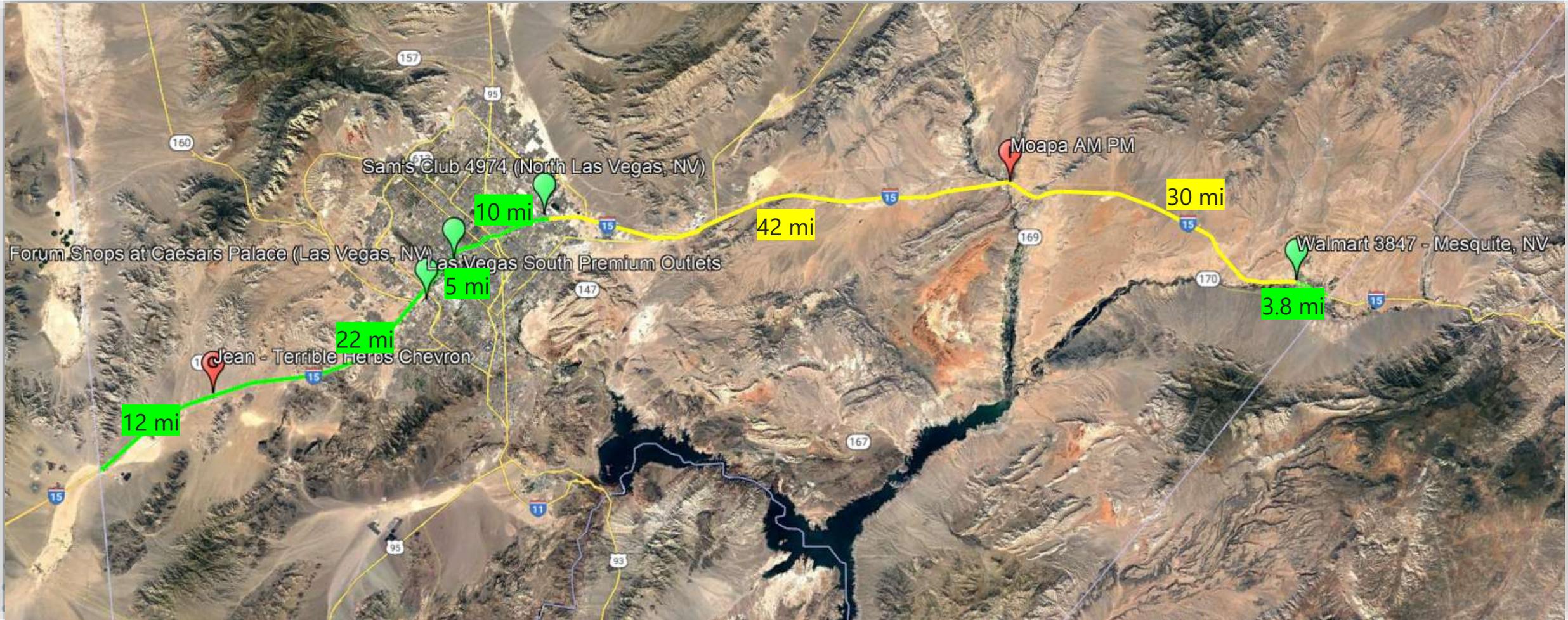
NDOT's NEVI Core Team

- Governor's Office of Energy
- Senior Climate Advisor to Governor
- Washoe County Air Quality (Washoe Health District)
- Clark County Department of Environment and Sustainability
- Public Utilities Commission of Nevada
- NV Energy
- Nevada Rural Electric Association
- Nevada Department of Conservation and Natural Resources
- Nevada Department of Employment, Training, and Rehabilitation (DETR)
- FHWA

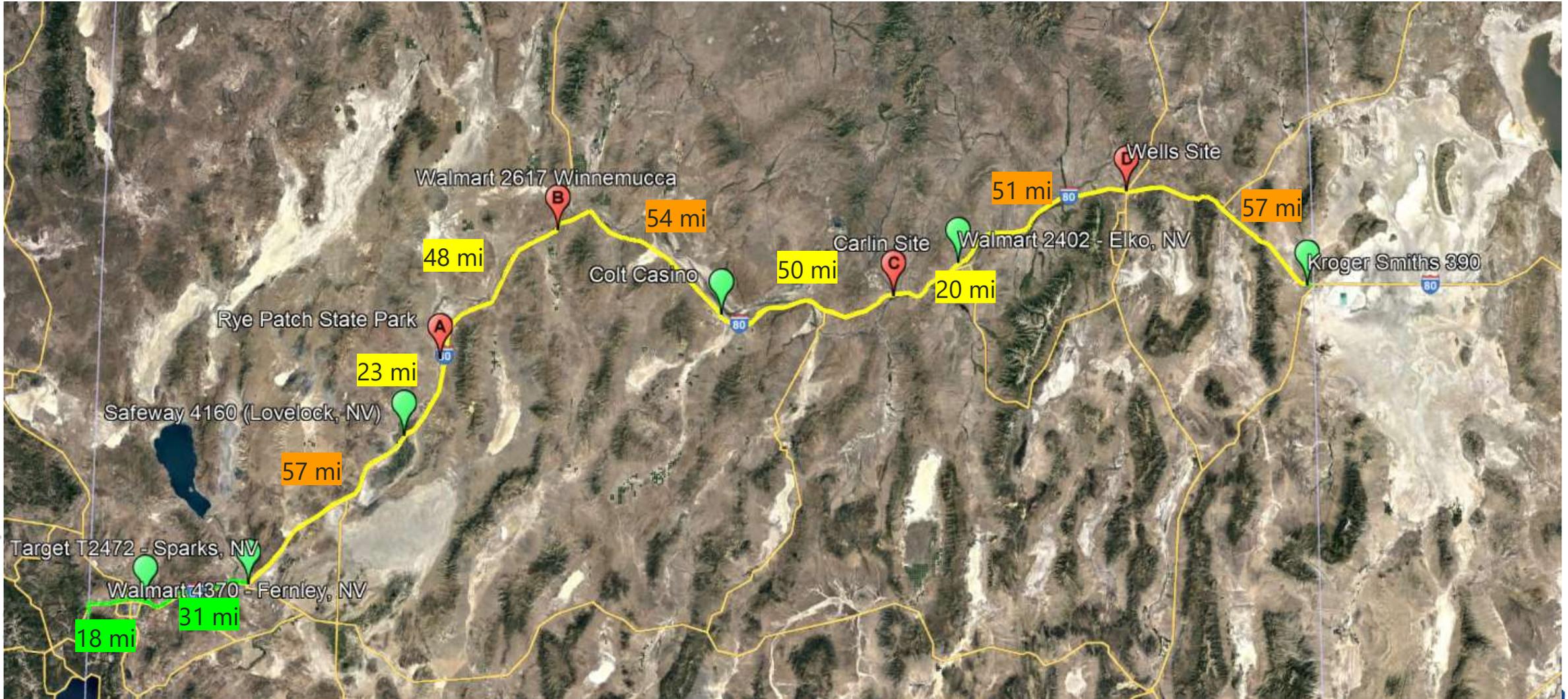
NDOT's NEVI Technical Advisory Committee

- RTC Southern Nevada
- Washoe RTC
- Tahoe Regional Planning Agency
- Carson Area MPO
- Nevada State Parks
- Nevada Department of Tourism and Cultural Affairs
- Nevada Department of Business and Industry
- Governor's Office of Economic Development
- Local Economic Development Groups
- Nevada Indian Commission
- Nevada Department of Motor Vehicles
- Nevada Department of Administration
- Office of Science and Technology

Assessing Corridors: I-15



Assessing Corridors: I-80



Next Steps Towards Plan Competition and Updates

Next Steps:

- Meet with NDOT's NEVI Core Team bi-weekly
- Meet with NDOT's NEVI Technical Advisory Committee monthly
- Meet with industry and other stakeholders
- Continue data analysis for needs, demands, and equitable investments annually
- Update annually with best-practice steps for Federal Vision requirements.
- In addition to meeting NEVI requirements, NDOT is also planning for other Alternative Fuels such as hydrogen and natural gas



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