Policy Objectives

**DESIRER POLICY OUTCOMES**

- Air Quality
- More Renewable Energy Resources
- Mobility & Connectivity
  - Public Transit Reduced Congestion
- Intelligent Transportation Systems & Autonomous Connected Electric Shared Vehicles
- Electric Vehicles

**OPPORTUNITIES FOR ACTION**

- Air Quality
- Clean Energy for Energy Independence
- Economic Development
- Economic Efficiency
- Jobs

**HYBRID**

**ELECTRIC**

**DIESEL**

**GASOLINE**
Obstacles

Policy and Public Opinion

Transportation electrification will require focus and leadership.

Funding

Transportation electrification will require transportation funds.

Uncertainty

Transportation electrification will require smart investment in an uncertain environment.
Two Worlds Collide

Utility Planning and Grid Integration

Transportation Planning & Operation
An Action Plan for Nevada

FIVE GOALS, SIXTEEN OBJECTIVES

✓ Establish Leadership on Transportation Electrification
   (1) Set an express policy mandate
   (2) Create an authority to lead transportation electrification as a policy objective and outcome
   (3) Address the state funding shortfall for transportation resulting from the diminished fuel tax receipts

✓ Electrify Regional Connectivity and Mobility
   (4) Electrify public transit buses
   (5) Electrify school bus fleets
   (6) Optimize integration of all EV load into electric grid

✓ Electrify Multimodal Transportation for Reduced Congestion and Livable Communities
   (7) Use TNC taxes to support electrified micro-/on-demand transit
   (8) Create public charging infrastructure to support all vehicles
   (9) Support EV uptake as a personal vehicle option
   (10) Provide the rights of way and non-monetary support needed to place e-bikes and e-scooters as a local transportation option

✓ Support Advanced, Electrified Transportation Technologies Development
   (11) Continue to test and develop ACES technology for local transportation options
   (12) Invest in ITS infrastructure
   (13) Invest in Complete Streets with a view of integrating advanced transportation options and electrified public transit

✓ Electrify Efficient Movement of Goods and Services
   (14) Electrify fleets providing ground services at the airports
   (15) Promote electrified long-distance freight and commercial operations fleets
   (16) Assess procurement options for medium- and heavy-duty vehicles in government fleets
1. Set express policy mandate
2. Create or appoint an authority to lead transportation electrification as a policy objective and outcome
3. Address state funding shortfall for transportation resulting from diminished fuel tax receipts
An Office to Lead and Coordinate

- Identify/coordinate joint research, pilots, and funding opportunities
- Coordinate or lead inter-agency projects
- Follow and share national and regional developments as to technical, safety, and other standards and trends
- Coordinate technology oversight and regulatory developments that keep pace with developments
- Identify state, federal, and non-monetary resources available for projects
- Maintain a current view on load and energy supply
- Establish Nevada’s eligibility for specific federal initiatives
A Public Charging Needs Assessment

A well-conceived public charging network that meets the needs of current and projected EV adoption is a **public good**.

**TRANSPORTATION SYSTEM CONCERNS:**
- Number and Siting
- Charging equipment specs
- Ownership and operation
- Urban and rural — streets, highways, off-road
- All vehicle categories (light duty, freight, airport, etc.)
- Communications and data sharing V2V and V2I

**ELECTRIC SYSTEM CONCERNS:**
- Make-ready electric grid
- Charge management
- Interconnection specifications across charge technologies
- Communications and data sharing with electric utility

**WHO SHOULD PARTICIPATE?**
- Government
  - Transportation
  - Energy/Utility
  - Cities and Counties
- Commercial
  - Electric utility
  - Car manufacturers
  - Charging manufacturers
  - Real Estate
  - Transportation Network Providers
  - Future/Autonomous Technologies
- Environmental advocacy

**AN ON-THE-RECORD PUBLIC PROCESS TO ESTABLISH A BASELINE FOR PUBLIC AND PRIVATE INVESTMENT**
Questions?