



powershift

by  **NV**Energy

Economic Recovery Transportation Electrification Plan



- Through the Economic Recovery Transportation Electrification Plan (ERTEP), NV Energy will invest nearly \$100 million to rapidly expand electric vehicle (EV) charging station access across our service territory from 2022 through 2024. ERTEP will help drive economic recovery and accelerate transportation electrification in Nevada

Electric Vehicle Infrastructure Training Program - EVITP



There are seven main components to the plan:

- ✓ Interstate Corridor Depots.
- ✓ Urban Charging Depots.
- ✓ Public Agency Charging.
- ✓ Transit, School Bus and Transportation Electrification.
- ✓ Recreation and Tourism.
- ✓ Workforce Development.
- ✓ Outreach and Education.



"Press release"


USPS Groundbreaking Victory in Efforts to Electrify Delivery Vehicle Fleets

- WASHINGTON, D.C. (Dec. 20, 2022) — Today the United States Postal Service (USPS) and the Biden administration took an historic step forward in the electrification and modernization of the USPS fleet with a \$9.6 billion investment plan. The initiative includes acquiring 106,000 delivery vehicles, including ***66,000 electric vehicles***, and building ***charging infrastructure***. As part of the plan, USPS also committed to acquiring only all-electric vehicles starting in 2026.




The electrical infrastructure needs and will be upgrade with or with out us – let's make it us.

- *The most in demand charger will be the DC fast charge.*
- *The one that consumes the most power quickly.*
- *This equals a lot of \$\$ to educated workers/
Contractors / Union Locals.*

 **Electric Vehicle Charging 101**


LEVEL 1 STANDARD OUTLET


- Plug into a standard 120V wall outlet
- Connector provided with every EV
- Great for overnight or workplace charging
- Ideal for typical commutes (up to 40 miles)



40 miles
overnight

LEVEL 2 240-VOLT OUTLET

- Faster charging for longer drives
- Provides a full charge for most EVs in:



4-8 hours
empty to full
charge
100% Electric



1-2 hours
empty to full
charge
Electric & Gas



25 miles
per hour of
charging


DC FAST CHARGE


- Much faster charging at public locations
- 3 different connectors depending on vehicle:


CCS Combo
Up to
160 miles
in 20 minutes


CHAdeMO
Up to
67 miles
in 30 minutes


Tesla Supercharger
Up to
200 miles
in 20 minutes


0 to 80%
30-40
minutes

 Visit **PlugInAmerica.org** to learn
more about driving electric!


Times listed are approximate. Charge time will vary depending on vehicle, remaining charge, and station power.

Northern Nevada Electrical Training Center and NV Energy is Proud to Present

Electrical Vehicle Infrastructure Training



Topics Covered

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- A red Tesla Semi truck is shown from a front-three-quarter perspective, driving on a two-lane road that stretches into the distance. The truck is a large, aerodynamic electric vehicle with a prominent front grille and headlights. The driver is visible through the windshield. The background features rolling green hills and mountains under a clear blue sky.
- ✓ *Market drivers in the EV industry.*
 - ✓ *Basic terms used in the EV industry.*
 - ✓ *Explain who is involved in the EV industry.*
 - ✓ *Equipment used to supply energy to EV batteries.*
 - ✓ *Early EV charging equipment.*
 - ✓ *Describe the difference between AC Electric Vehicle Supply Equipment (EVSE) and DC electric vehicle charging equipment.*
 - ✓ *Size the elements of a branch circuit for an EVSE installation.*
 - ✓ *Calculate the capacity available for EVSE on existing services.*
 - ✓ *Size single-phase and three-phase feeders for a multiple EVSE installation.*
 - ✓ *Size a service or feeder for a fleet installation of EVSE.*

Topics Covered

- ✓ *Describe the benefits of conducting a site visit by a contractor.*
 - ✓ *Attributes of a successful customer “meet and greet”.*
- ✓ *Communicate effectively with a customer to identify their needs and offer solutions.*
 - ✓ *Explain the benefits of commissioning.*
- ✓ *Troubleshooting common issues with electric vehicle charging equipment.*



EVSE Market Drivers

Incentives

Identify rebates and tax incentives available from:

- Local Utility
- State
- Municipal
- Federal

Review available incentives by visiting DSIRE. This national database of incentives can be a great resource when engaging with a customer.



EVSE Market Drivers

LEED Building Certification

Leadership in Energy and Environmental Design (LEED), is the most widely used green building rating system in the world. LEED certification is a globally recognized symbol of sustainability achievement.

LEED ratings are based on a points system. Points towards certification available for installing EVSE

- Up to 3 for new construction
- Up to 15 for existing buildings
- 1 for homes



Four Certification Levels



EVSE Market Drivers

Public Perception

- Installing electric vehicle charging equipment (EVCE) may alter or improve the public's perception of a business.
- Installing EVCE may give the aura of affluency and environmental sensibility to a business.
- EVCE can attract new customers who are excited to patronize businesses focused on supporting the transition to electric vehicles.



EVSE Market Drivers

Incentives

- The inflation reduction act provides \$7.5 BILLION for electric vehicles and charging infrastructure.
- Do you want a piece of this pie?



EVITP Classes

- Northern Nevada Electrical Training Center
4635 Longley Lane
Reno NV 89502
775-358-4301

Sign up for a weeknight session

Or

Saturday Classes

Let's make Local 401 and local contractors' part of NV Energy's goal

