

# EV Charging Site Host Opportunity Overview

The Economic Recovery  
Transportation Electrification Plan



March 2022 Webinar







# What will we cover today?

1. Unpack why transportation electrification matters
2. Learn about The Economic Recovery Transportation Electrification Plan
  - ▶ What is this and why was it created?
  - ▶ What EV charging programs are offered to eligible site hosts?
  - ▶ Why would I want to be a site host?
3. Discuss site host application details and next steps

# Who is NV Energy?

NV Energy is the local utility you can count on. We are moving towards a 100% clean energy future, keeping rates low, and investing big in local communities.

- ▶ Electric and gas utility **serving 1.4 million customers** and a state **tourist population exceeding 50 million** people annually
- ▶ For **more than 100 years** NV Energy has been on the cutting edge, **constantly innovating energy offerings** and services for customer satisfaction



# Charging Forward with Electrification

Transportation accounts for the greatest percentage of emissions in Nevada - meeting our clean air goals will require a cleaner electric supply and accelerating electrification

## Public Health



- ▶ Transportation powered by fossil fuels like gas and diesel will transition to clean power sources over the coming decades to reduce emissions, improve air quality and support public health.
- ▶ NV Energy is committed to sourcing 50% of energy from renewable sources by 2030 with the end goal of 100% renewable.

## Meeting Demand



- ▶ EV's made up 26% of new sales in the global automotive market in 2021, increasing charging demand
- ▶ This isn't just about cars- freight trucks, boats, bikes, buses and construction equipment are also being electrified



# Attracting Investment to Nevada

An Electrified Future-Forward Economy

**Co-promote our  
Vibrant &  
Inclusive  
Economy**

Attract & Retain Clean  
Energy Industry  
Investment



**Prepare the  
Tourism Economy  
for an Electric  
Future**

Secure Large Events &  
Attract Tourists



# New EV Charging Program

Economic Recovery Transportation Electrification Plan (ERTEP) [Video](#)



# EV Charging Program Priorities

ERTEP



## Accelerate Transportation Electrification

Plan includes nearly \$100 million total to build **1,000+ EV charging stations** between 2022 and 2024 in Nevada



## Support Economic Recovery & Job Creation

Investing in **job training** and expanding charging station availability to **support the tourism industry**








## Prioritize Historically Underserved Communities

Dedicating **\$40 million+** of funding to directly benefit **historically underserved communities**

# EV Charging Programs



ERTEP

	Program	Focus
	Interstate Corridor Charging	Public charging along eligible interstate corridors to facilitate EV travel to and from major metros.
	Urban Charging Depots	Public charging at eligible downtown or commercial locations.
	Public Agency Electric Vehicle Charging	Public charging at eligible community centers, universities/ colleges and capitol complexes.
	Transit, School Bus & Transportation Electrification	Support transit electrification, electric school bus vehicle-to-grid trials, and non-governmental fleet electrification.
	Outdoor Recreation and Tourism	Public charging at eligible tourist and outdoor recreation destinations.



# Today's Focus

ERTEP

	Program	Focus
	Interstate Corridor Charging	Public charging along eligible interstate corridors to facilitate EV travel to and from major metros.
	Urban Charging Depots	Public charging at eligible downtown or commercial locations.

**Ownership:** Site may be developed and owned by NV Energy, a qualified third-party, or the customer.

## Incentive Structure:

- ▶ Approved applicants will be mailed an incentive check for 75% of eligible project costs when their submitted claim package is accepted.
- ▶ The remaining 25% will be paid out 5% per year for 5 years pending operations and maintenance requirement compliance.

**Charger Models:** EV chargers must be selected from qualified ERTEP model list

# Interstate Corridor Charging

## ERTEP

**Purpose:** Public charging along eligible interstate corridors to facilitate EV travel to and from Las Vegas and the Reno-Tahoe areas.

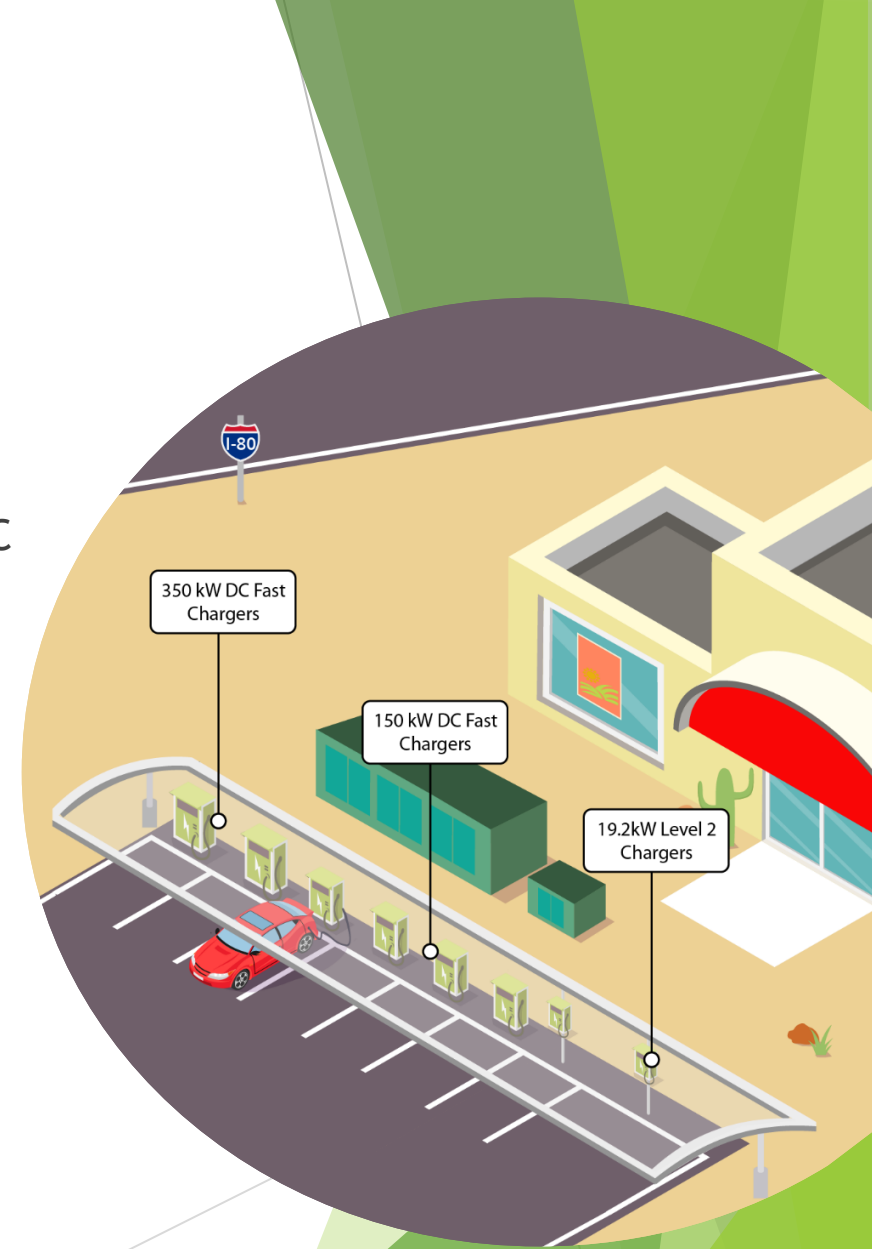
**Site Profile:** 2-3 sites will be developed with 2 Level 2 (19.2 kW) ports, 4 DCFC (150 kW) ports, and 2 DCFC (350 kW) ports.

**Site Priorities:** Sites were selected with the Governor's Office of Energy:

### Potential Sites

I-15 to S. California	Primm or Jean, NV
I-15 to Utah	I-15/CC-215 Northern Beltway Interchange
I-80 at Valmy*	Valmy, NV
I-80 & U.S. 95*	Fallon Rest Area
I-80 to N. California	I-80 at McCarran Blvd in NW Reno

*\*Nevada Electric Highway Site*



# Urban Charging Depots: Commercial

## ERTEP

**Purpose:** Install public charging at eligible commercial locations.

Site Profile	Small Commercial			Commercial		
Focus Areas	Residential with small commercial areas			Longer dwell time commercial areas (i.e. shopping malls)		
Charging Ports per Site	#	Type	kW	#	Type	kW
	4	L2	19.2	2	L2	19.2
	2	DCFC	150	6	DCFC	150
	0	DCFC	350	2	DCFC	350
Est. Sites	6-8			2-3		

### Site Priorities:

- ▶ **Las Vegas Valley:** U.S. 95 & 215, 215 & Charleston, 515 & 215, 215 & Sunset, U.S. 95 & Lake Mead Blvd., North Las Vegas & Cheyenne, Boulder Highway & 515, Nellis & Lake Mead, St. Rose Parkway & Interstate 15.
- ▶ **Reno/ Tahoe:** Tahoe Village, Carson City, Incline Village, Southwest Reno, Tahoe Regional Industrial Complex, and Sparks.



# Urban Charging Depots: Downtown

ERTEP

**Purpose:** Public charging at eligible downtown Las Vegas or downtown Reno locations.

Site Profile	Downtown			Downtown with Storage		
Focus Area	Large downtown sites in Reno and Las Vegas serving tourists and residents					
Charging Ports per Site	#	Type	kW	#	Type	kW
	10	Bike	2	10	Bike	2
	6	L2	19.2	6	L2	19.2
	8	DCFC	150	8	DCFC	150
	2	DCFC	350	2	DCFC	350
On-site Battery Storage	N/A			420kW / 690kWh		
Estimated Sites	1-2			1		

# Site Requirements & Preferences

## ERTEP

Sites will be evaluated based on compliance with site profiles, eligible locations, and alignment with site characteristic preferences.

The following site characteristics are required:

- ▶ 1 parking stall is required to be ADA-ready:  
*defined as additional spacing available in parking stall in anticipation of ADA-compliance*
- ▶ Publicly accessible

Detailed Site  
Profiles



The following site characteristics are highly preferred:

- ▶ Covered by a shade canopy or roof
- ▶ A reasonable level of public activity (i.e. consistent foot and/or vehicles passing the site)
- ▶ Dusk-to-dawn area lighting
- ▶ Access to basic amenities like restrooms and water
- ▶ Access to fast food or vending machines at a minimum (Interstate sites only)
- ▶ 24/7 access to charging 365 days a year
- ▶ 24/7 access to shelter for inclement weather (excludes parks with restricted open times)
- ▶ Within a 10-minute walk to local restaurants, retail shopping, or tourist attractions

# Maintenance Requirements

## ERTEP

**Charger operational uptime must equate to 90% or more per quarter to comply with regulatory maintenance requirements for ERTEP.**

### **Incentive Structure:**

- ▶ Owners will be paid 5% of the project cost each year for the next five years if the site maintains an operational uptime of at least 90% of the calendar year and meets reporting requirements.

Ongoing **preventative and corrective maintenance** could be performed by an entity different than the infrastructure owner, however, the **charging infrastructure owner retains the operational uptime requirement responsibility.**

### **Maintenance Responsibilities:**

- ▶ Owners shall provide screening and diagnostic processes including identification of charger anomalies and formulation of immediate remediation measures.
  - ▶ Maintenance includes cables, ancillary equipment, and awnings or associated kiosks.
  - ▶ In the case of extended downtime, the charging infrastructure owner shall notify appropriate sources so drivers are aware and email NV Energy within one business day.



# Charging Owner Reporting

Economic Recovery Transportation Electrification Plan (ERTEP)

The Public Utilities Commission of Nevada (PUCN) requires NV Energy to report select data on a quarterly basis no later than 45 days after the conclusion of the quarter.

- ▶ Funding recipients are required to provide select data to NV Energy no later than 15 days after the end of each quarter.
- ▶ Select data is required by the PUCN to be reported **per charger** for either a **period of five years for Level 2 chargers** and **eight years for DC fast chargers**, or the operational life of the incentivized chargers, whichever is longer.

Reporting  
Requirements



## Example Data per Charger

Number of unique EVSE users tracked with RFID card per charger per program
Total utilization in kWh and percentage
Peak utilization in kWh and percentage
Off-peak utilization in kWh and percentage
Uptime per station
Average charging session duration in minutes
Idle time per station
Outage type
Outage length in minutes
Outage frequency
Maximum outage duration in minutes
Average outage duration in minutes
Number of chargers experiencing outages
Outages resolved remotely

# Ownership Models

## ERTEP

For ownership and operation, site hosts may select NV Energy, a qualified third-party or self-ownership.

As approved in the final order of ERTEP, a third-party provider is defined as a *company that owns and operates a network of nonproprietary DC fast charging electric vehicle charging infrastructure that can demonstrate historical uptime performance of at least 97%.*

- ▶ Third-party providers interested in being listed on the qualified provider list for ERTEP must complete an online form for consideration.
- ▶ All qualified third-party providers will be listed for consideration by site hosts.  
**Qualified providers coming soon!**

# Financial Responsibilities per Ownership Model

ERTEP

Responsibilities	Customer Owned	Qualified Third Party Owned	NV Energy Owned
Grid Side Make Ready Costs: % covered by NV Energy	100%	100%	100%
Project Costs: % covered upon completion by NV Energy	75%	75%	
Annual Funding: % project costs covered by NV Energy annually for 5 years pending requirement compliance	5%	5%	
Preventative Maintenance	Customer	Third Party Customer is ultimately responsible	NV Energy
Corrective Maintenance			
Reporting			
	Customer is responsible for up-front financial investment and maintenance/ reporting.	Third-Party is responsible for up-front financial investment and maintenance/ reporting.	NV Energy takes on all financial and operational responsibilities for you.



# Benefits of Hosting EV Charging

ERTEP



Increased in-store sales from customers

Charging an EV typically takes 30+ minutes.

The difference between 25 and 50 minutes of **additional dwell time significantly impacts customer spend.**



Tourists renting electric cars will depend on public and destination charging

Hertz announced a large procurement of Tesla vehicles.

Charging will increasingly become an **expected amenity, and access will provide a competitive advantage.**



Decreased EV driver range anxiety for a positive experience

When traveling from 100+ miles, charging access leads to a more **positive experience and increases the likelihood of a return visit.**



Visibly demonstrate your commitment to environmental stewardship

Adding EV charging supports sustainability goals and signals environmental stewardship is a priority to customers, investors and (current/ potential) employees.

# Site Host Communications Support

ERTEP

## Promote Charging Sites

- ▶ When an ERTEP supported EV charging location goes live, NV Energy welcomes the opportunity to co-promote the offering announcement.

## Plug and Play EV Signage

- ▶ To support a customer-friendly experience and reduce work for site hosts, NV Energy will provide guidance to site hosts on standardized EV charging parking lot wayfinding and space signage.



# Get Ready to Submit Your Interest Form

- ▶ Learn more about the program and mark your calendar - site host interest forms will be accepted starting May 1, 2022
- ▶ Prep your site host interest form in advance

## Additional tools:

- ▶ Online feedback tools about EV charging locations and EV perceptions
- ▶ Online tools to help you find the right EV for you or your fleet

To learn more about the ERTEP programs and get involved, visit [nvenergy.com/ERTEP](https://nvenergy.com/ERTEP)

