



Clark County Department of Environment and Sustainability

- Mahir Hussein, Environmental Specialist
- Robert Burgy, Climate and Sustainability Program Manager.

08.25.25



ALL-IN Clark County Gas Station EV Presentation



Agenda

1. What is ALL-IN Clark County?
2. What is the Southern Nevad Clean Cities Coalition?
3. EV Registrations and Charging Stations in Southern Nevada
4. Introduction to EV Charging at Gas Stations
5. Technical and Operational Aspects
6. Industry Movements and Major Players



What is ALL-IN Clark County?



CLARK COUNTY, NEVADA
**COMMUNITY SUSTAINABILITY
& CLIMATE ACTION PLAN**

All-In is a county-wide planning effort around addressing climate change impacts in our community and developing solutions in conjunction with local business and industry, municipal governments, community organizations and concerned residents.

GU1

There are six focus areas that make up this plan:

- Clean & Reliable Energy
- Connected & Equitable Mobility
- Diverse & Circular Economy
- Resilient & Healthy Community
- Smart Buildings & Development
- Sustainable Water Systems

GU2



What is Clean Cities ?



What is Clean Cities?

- A national network organized by the U.S. Department of Energy (DOE)
- Established in 1993

- Purpose: **Reduce petroleum fuels**
 - Approved alternative fuels
 - Idling reduction



Clean Cities and
Communities





What is the Southern Nevada Clean Cities Coalition? SNCC



- Established in October 2022
- First coalition to go through the **apprenticeship** process under new DOE guidelines (2024)
- **Community space** for sustainable transportation
- More than **160 members**





What is the Southern Nevada Clean Cities Coalition? SNCC

2024 Programs and Events

- 8 Advisory Committee meetings
- 3 Working Group meetings
- 4 General Member meetings
- 9 webinars
- 12 events and partnerships

Reaching more than 1,900 people





What is the Southern Nevada Clean Cities Coalition? SNCC



Structure

- **Clark County**
 - Hosts organization
 - Appoints Director (DOE term)
- **Director**
 - Leads Coalition
 - Meets stakeholders
 - Works with DOE
- **Advisory Committee and Working Group**
 - Supports Director with expertise
- **General Members**
 - Free and open to everyone

CLEAN CITIES CONNECT

Upcoming Clean Cities Events

You're Invited: June Clean Cities General Membership Meeting!

Join us virtually for our upcoming June Clean Cities General Membership Meeting! This is your chance to stay updated on key clean transportation initiatives, share ideas, and connect with others.

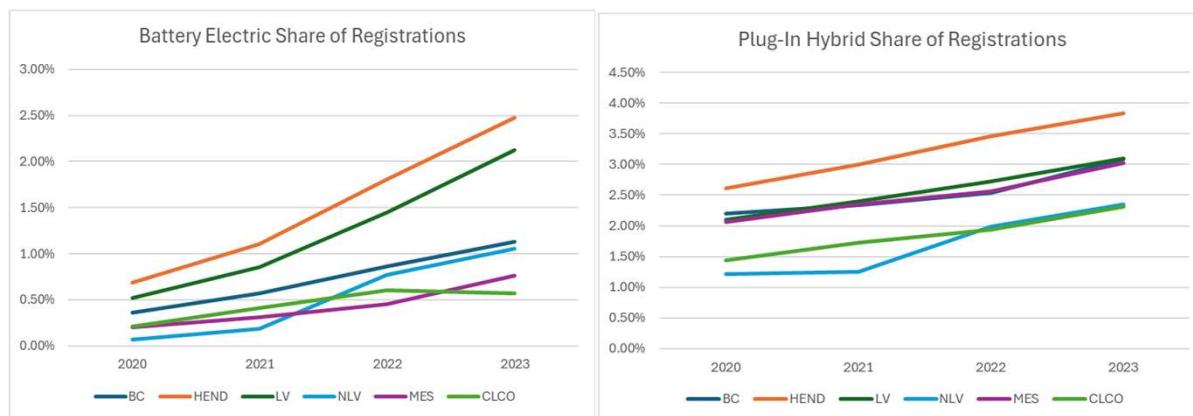
Date: Wednesday, June 30, 2025
Time: 10:00 AM – 12:00 PM PT
Location: Virtual (link provided upon registration)

[Register here!](#)



EV Registrations in Southern Nevada

GU1



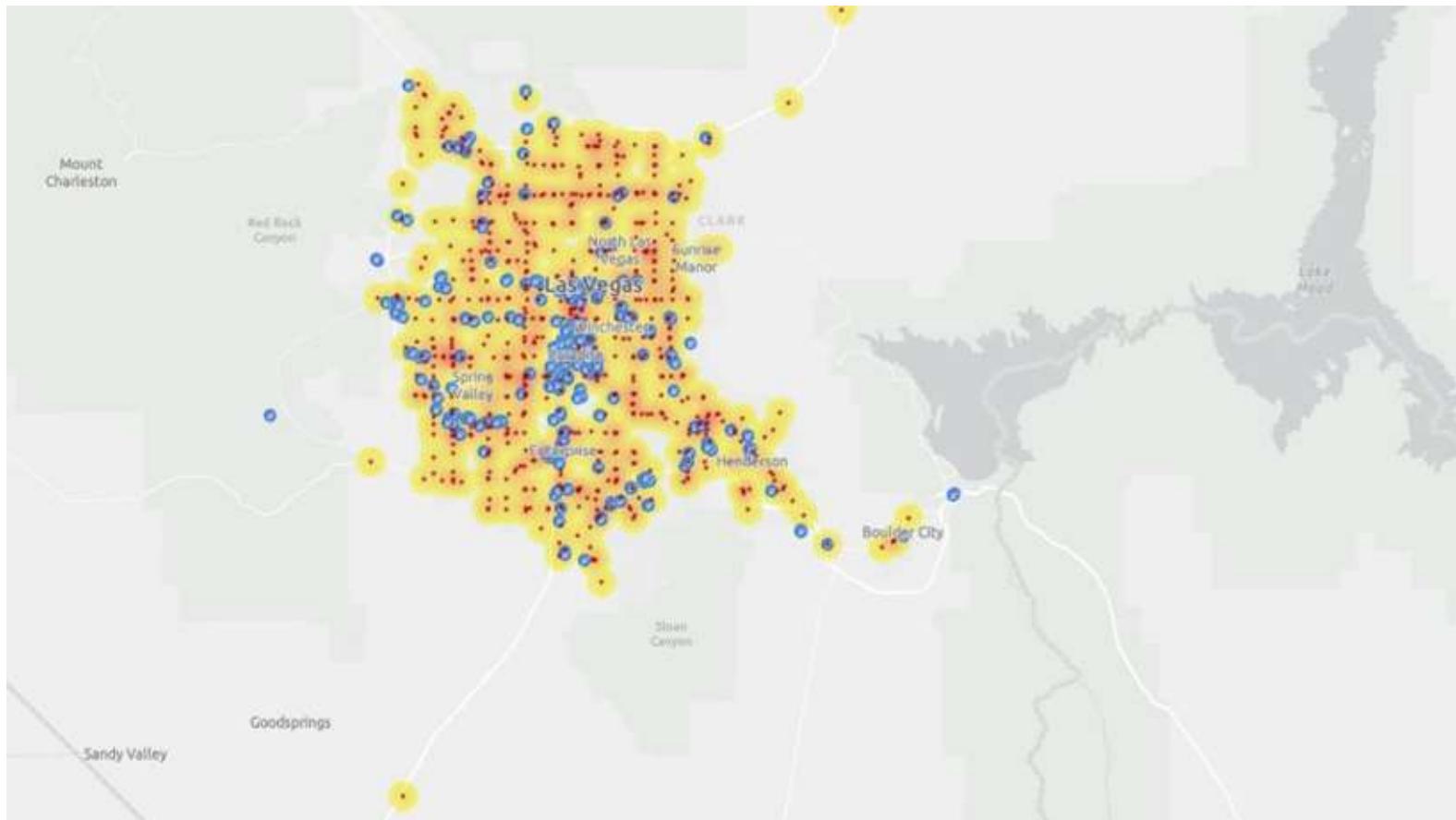
- **Widespread charging infrastructure** is enabling more residents to **comfortably adopt new technologies**.

- Less "Range Anxiety"
- In 2022, EVs in Clark County avoided nearly 90,000 tons of CO₂!
- Less pollution in our air

Source: Nevada Department of Motor Vehicles



Charging Stations in Southern Nevada





Introduction to EV Charging at Gas Stations



Introduction to EV Charging at Gas Stations



- Growing trend of installing EV chargers**
 - Increased Consumer Demand**
 - Over 5 million EVs in the United States alone as of 2025
 - Automakers committed to **phasing out combustion engines**



By 2030



Vehicle Count As of Jul 2025				
County	Registration Status	Fuel Type	Vehicle Make	Jul 2025
CLARK	ACTIVE	BLANK		3881
		COMPRESSED NATURAL GAS		1136
		DIESEL		57377
		DIESEL/ELECTRIC		14
		ELECTRIC		60214
		ETHANOL GAS ONLY		3
		FLEXIBLE FUEL		80112
		GAS AND OIL MIX		220
		GASOLINE		1373284
		GASOLINE - CONVERTIBLE		184
		GASOLINE/ELECTRIC		75196
		HYDROGEN FUEL CELL		7
		LIQUID NATURAL GAS		3
		METHANOL GAS ONLY		11
		NONE		75744
		PROPANE		324
		UNKNOWN		230
Grand Total				1727940



By 2040



Volkswagen



Accelerating Technology



Increased Battery Life



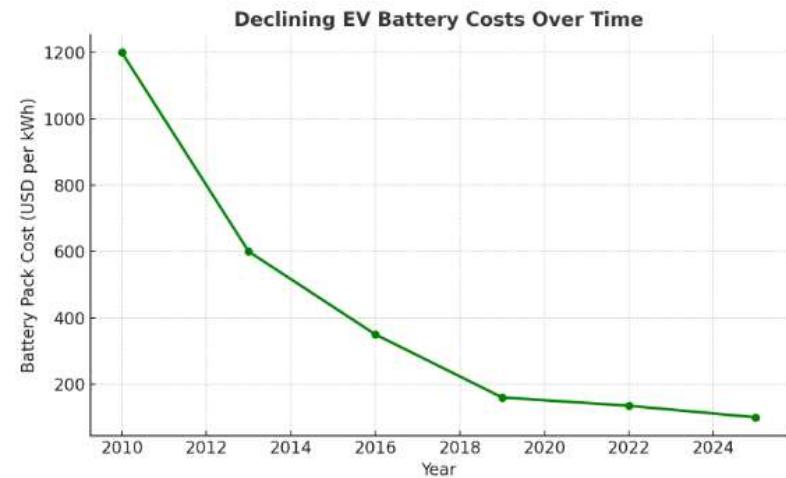
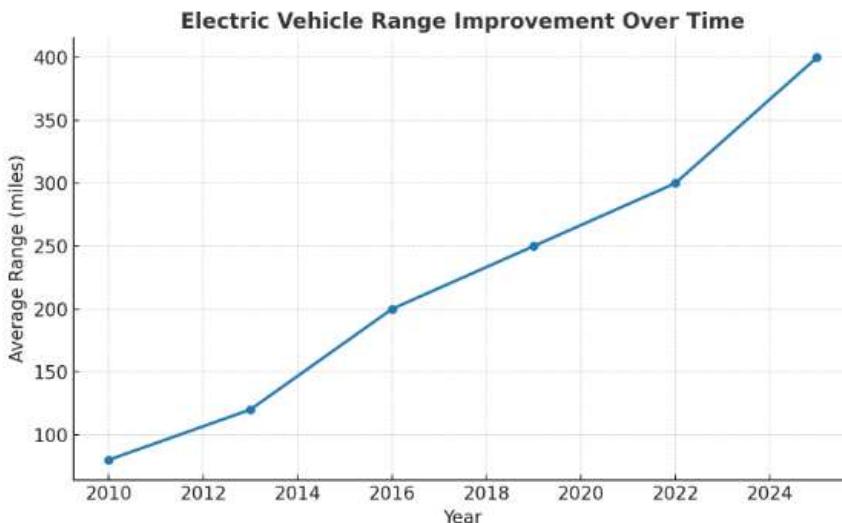
Increased Ranged



Decreased Manufacturing Costs



Accelerating Technology



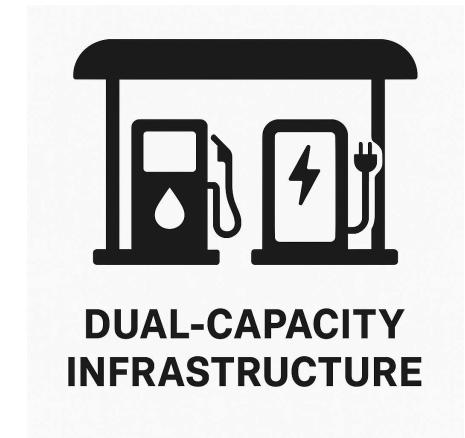
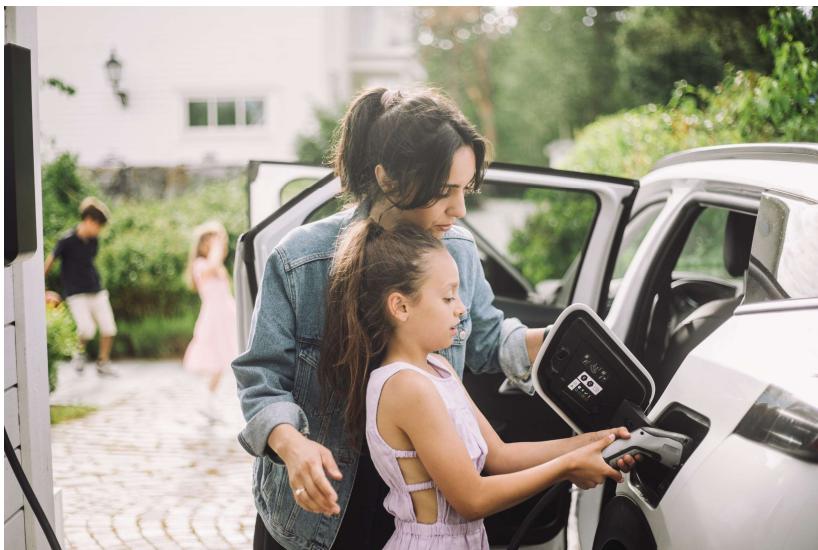
Sources: EPA Fuel Economy Data, Bloomberg Battery Price Survey, DOE "EV Everywhere Grand Challenge" Report



Opportunities for Gas Stations



- **Opportunities to serve as a key player.**
 - Gas stations can be **key nodes in the charging network** because they already **serve drivers on the go**
 - **Can Attract New Customer Segments** and **diversify revenue** during charging time.





Challenges



\$ Upfront costs

- Trenching, Grid Upgrades, Transformer Access

“The **cost** of a commercial EV charging station **varies depending on the type, installation requirements, and additional features**. On average, a **Level 2 charging station costs between \$3,500 and \$15,000 per port, including equipment and installation.**” (Qmerit Consultants, 2024)

Planning

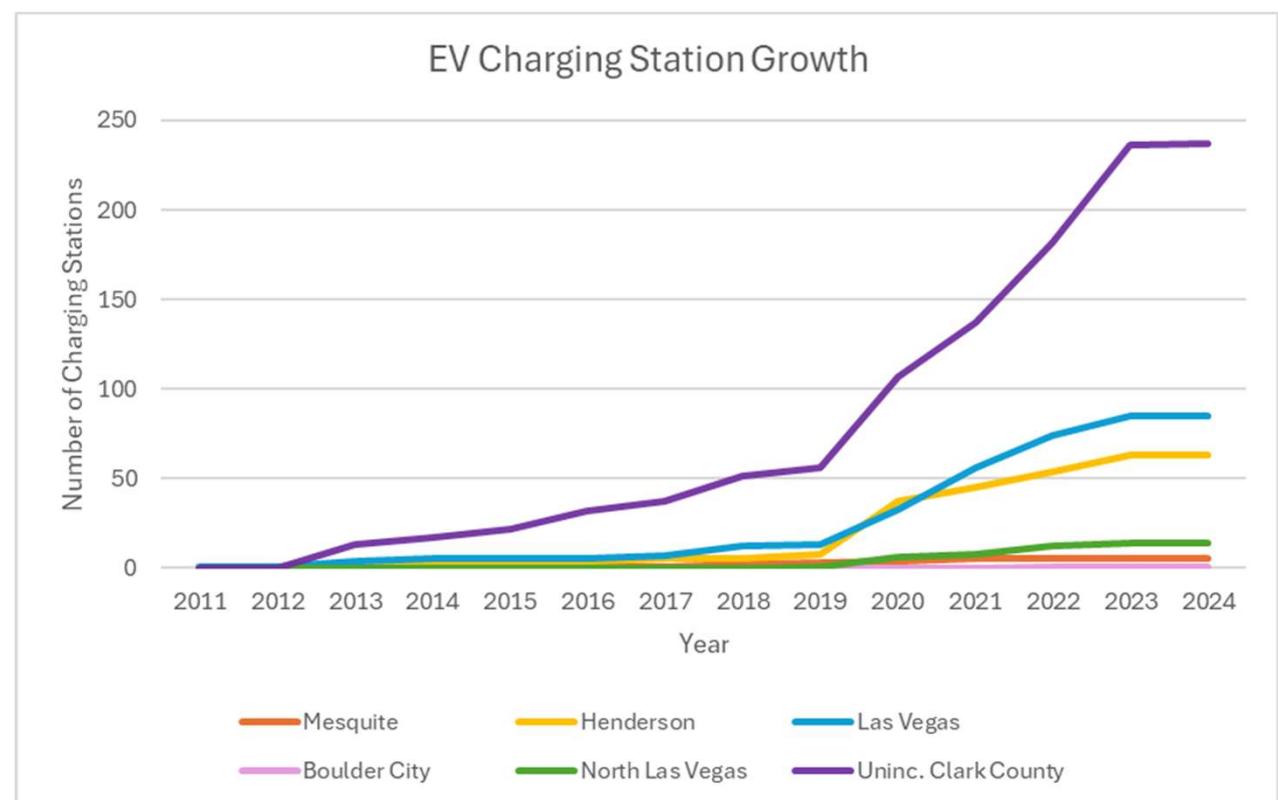
- Requires **utility and permitting coordination**

” **Additional costs may arise from trenching, conduit installation, and mounting hardware.**” (Handoff, 2025)



II. Technical and Operational Aspects

Public charging infrastructure has increased, supporting the increased demand for EV adoption.



Source: US DOE Alternative Fuel Data Center



Technical and Operational Aspects



II. Technical and Operational Aspects

- **Charging Speed Options**

- **Level 2 chargers:** slower, for longer stays
 - Typically charges 20-60 miles of range per hour
- **DC fast chargers:** faster, for quick stops
 - Typically charges 100-200 miles of range in 30 mins
 - Equipment is more expensive and requires more grid capacity





II. Technical and Operational Aspects



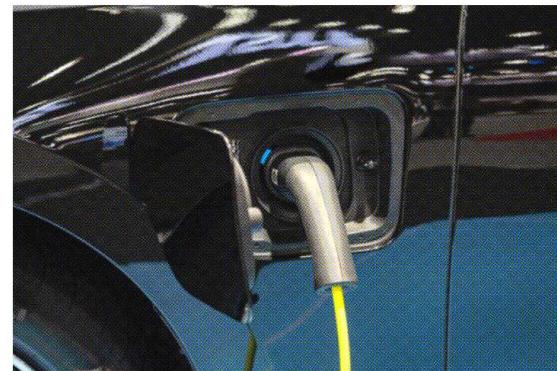
- Incentives and Funding

- National Electric Vehicle Infrastructure (NEVI):

- \$5 billion federal program
- August 2025 update: New Interim rules to make program more streamlined.
 - “encourages states to give their money to charging locations where the businesses that own the stations also own the ground below it”
- Nevada’s Department of Transportation (NDOT) has been allocated approximately **\$38 million** in NEVI formula funding across Fiscal Years 2022 through 2026
 - Currently **focused on fast chargers along interstates**
 - Once Nevada finishes building out its corridor network, **NEVI funds may become available for off-corridor locations as well**

The Future of EV Charging Can Be Found at Your Local Gas Station

After a six-month pause, \$5 billion in US federal electric-vehicle-charging money is now flowing back to the states—with a new catch that could make some station operators very happy.





Industry Movements and Major Players



VI. Industry Movements and Major Players

- Major oil companies entering EV charging market:



Has its own Charging Company (BP Pulse) with over 40,000 chargers worldwide.



Goal of 200,000 public charging points by 2030





VI. Industry Movements and Major Players

- Example partnership:





Conclusion



IX. Conclusion

- **EV demand is still increasing**
- **EV technology is advancing**
- **Installing EV chargers is complex but offers significant opportunities**
- **Strategic planning and partnerships crucial for success**





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