

# Tahoe Truckee Plug-In Electric Vehicle Readiness Plan

## Implementation Update

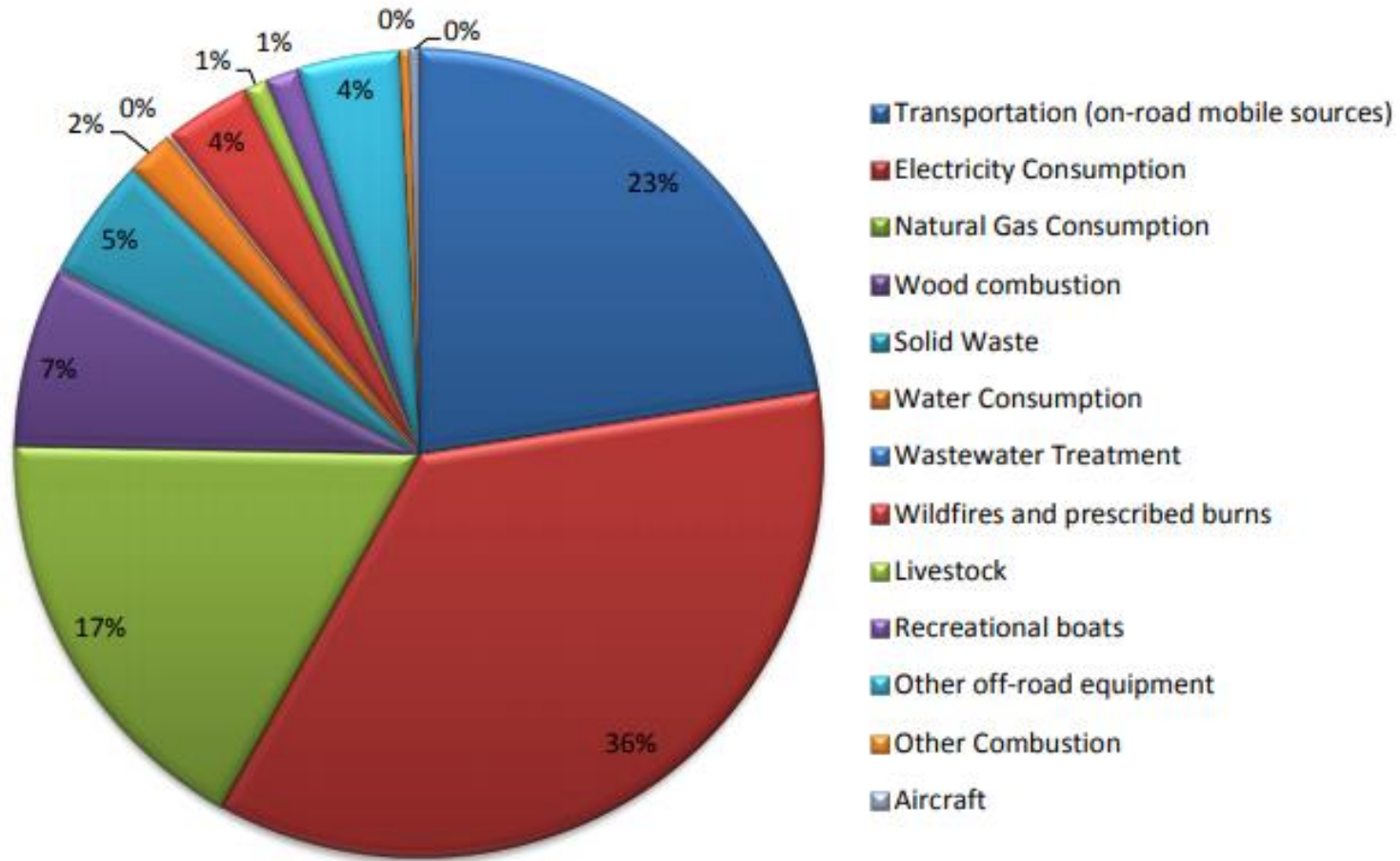


# Lake Tahoe

## Sustainable Communities Program

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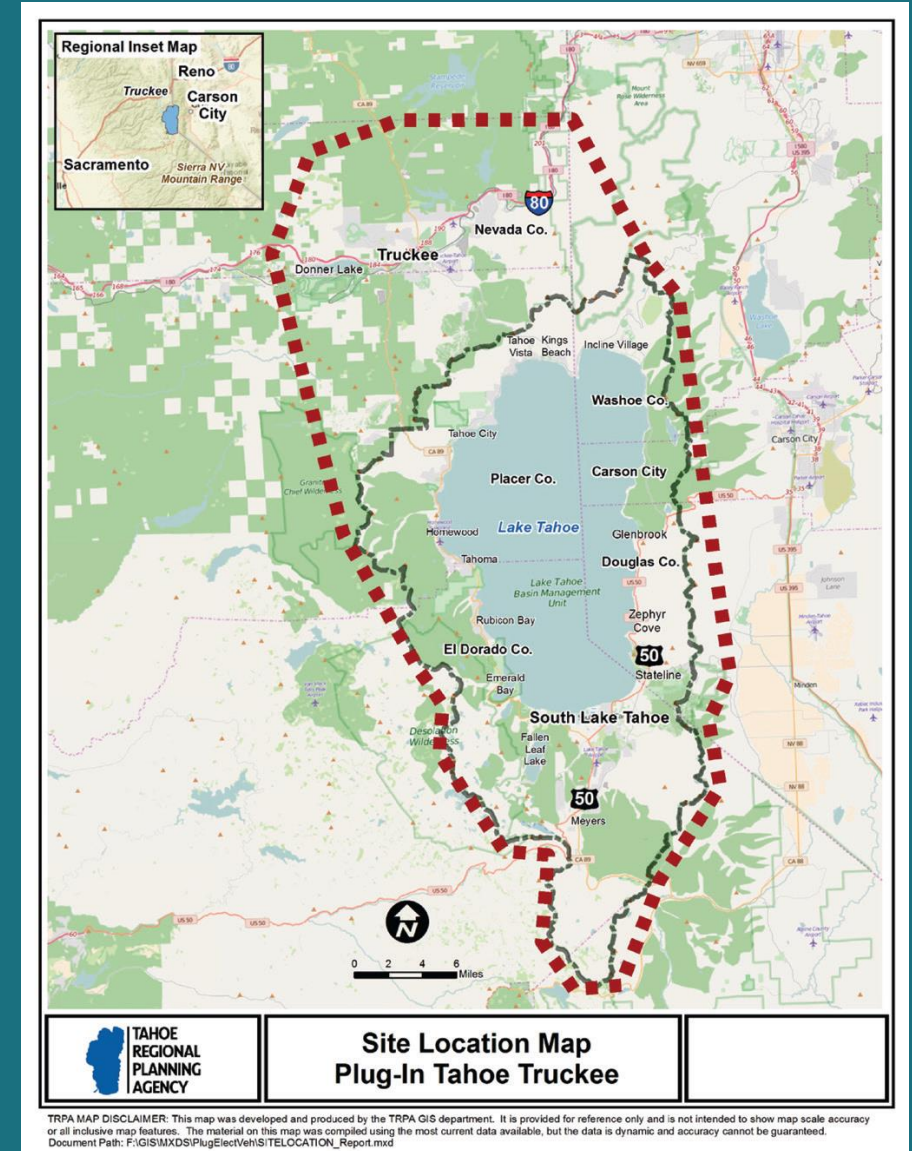




# Tahoe Truckee PEV Coordinating Council

## Diverse Public-Private Representation

- Business
- Ski Resorts
- Local jurisdictions
- Utilities
- Real Estate
- Transportation
- Public (EV Clubs)
- Non-Profits





# Tahoe-Truckee Plug-in Electric Vehicle Readiness Plan

A Road Map to Charging Infrastructure  
and Zero Tailpipe Emissions



# Readiness Plan



# PROTECTING THE ENVIRONMENT

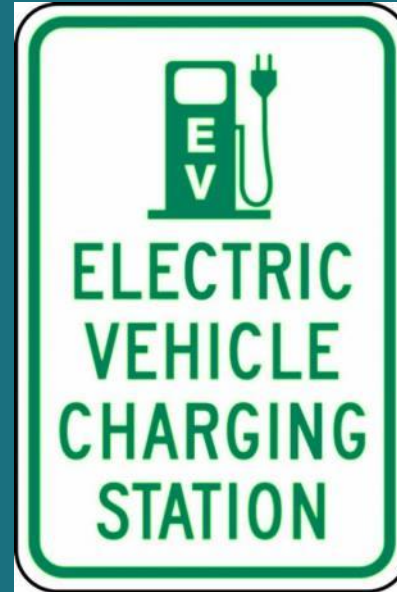
When you drive a EV you are protecting your local and global environment

## Environmental Benefits: Air and Water Quality and Reduced Noise Impacts



# Why Plan for EV Readiness?

- Areas w/ EV planning had **90%** greater utilization compared to ad hoc uncoordinated planning
- ↓ Range anxiety
- Regional momentum



*All-inclusive charge point in Gilroy, CA; photos of wayfinding*

# Electric Vehicle Growth

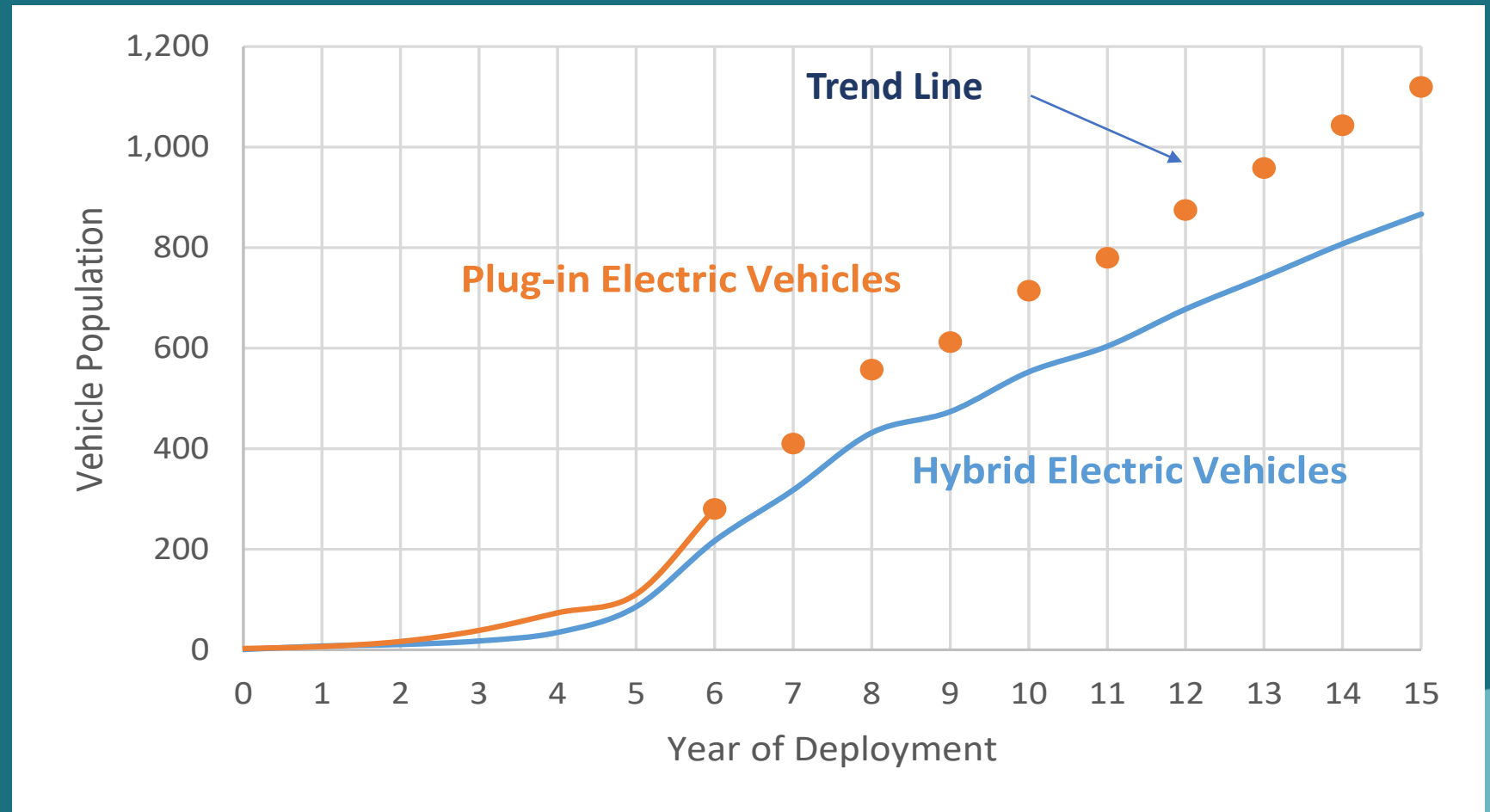


PEV adoption rate higher than hybrid adoption at time of technology deployment in the mid-2000s.

PEV Ownership, 2016:

- 115 PEVs registered by area residents
- 45% Tesla

*ICF analyzed vehicle registration data provided by IHS Automotive, March 2016.*





# Tahoe-Truckee PEV Readiness Actions

## Short-Term (1-2 years)



### Consumer Education & Outreach

- Develop PEV resources website



### Incentives

- Develop a PEV purchasing incentive program
- Establish PEV electricity rates



### Permitting & Inspection

- Streamline and expedite permitting process



### Local Ordinances & Planning

- Develop charging station guidelines
- Adopt the Voluntary CalGreen codes



### Training & Education

- Provide resources to employers and fleet managers



### Utility Planning

- Create utility notification protocol



### Regional Coordination

- Integrate PEV readiness into local planning efforts

# Performance Metrics

## **Goal 1. Maximize the number of electric miles traveled**

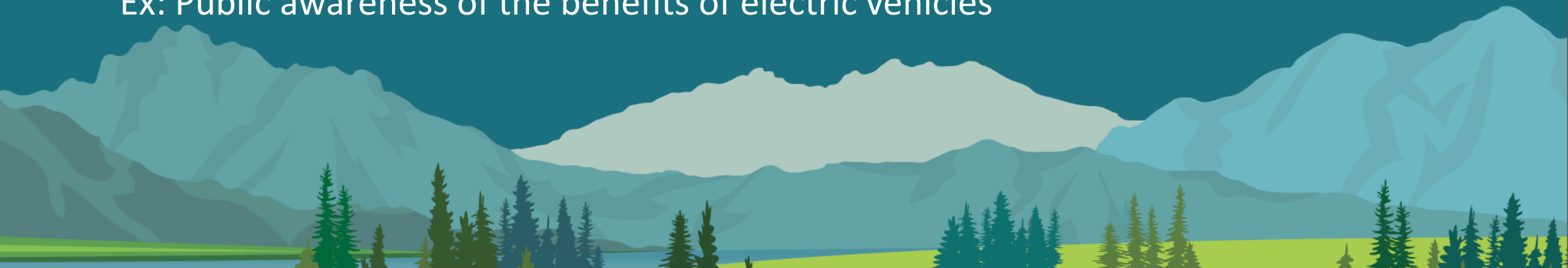
Ex: Avoided GHG and criteria air pollutant emissions

## **Goal 2. Make it easier and less expensive to install electric vehicle charging infrastructure**

Ex: Time to permit and install infrastructure

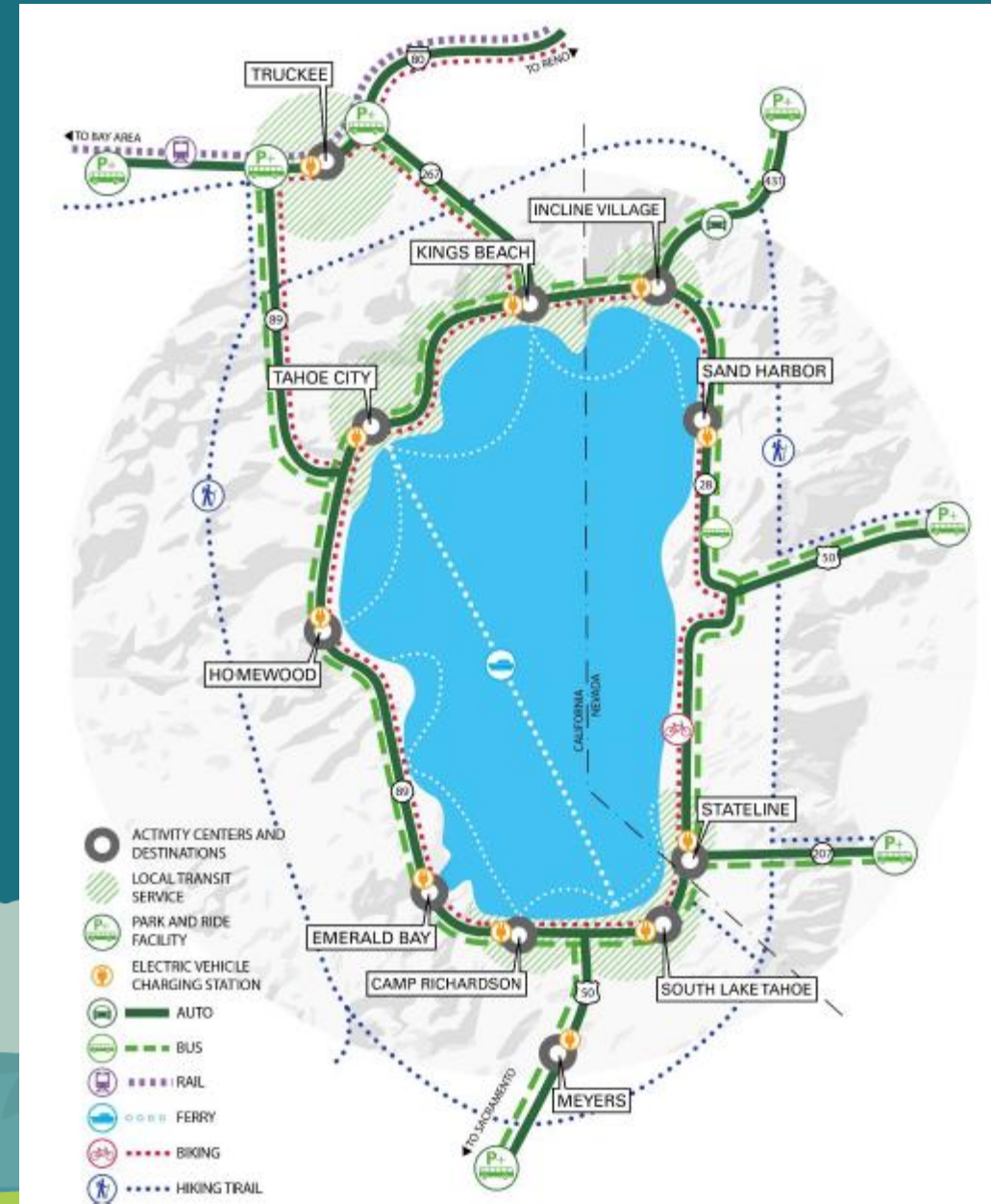
## **Goal 3. Improve electric vehicle awareness**

Ex: Public awareness of the benefits of electric vehicles



# Electrification Goals & Vision

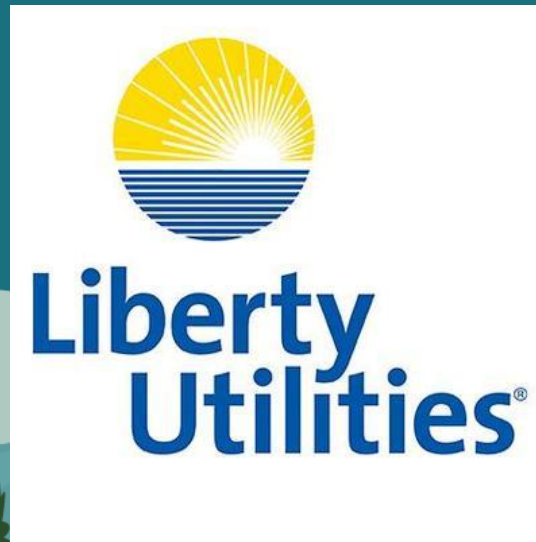
1. Maximize the share of electric miles over conventional vehicles
2. Make it easier & less expensive to install chargers & make them broadly accessible
3. Improve electric vehicle awareness



# Regional Coordination







# Outreach and Education





Calling All Electric Vehicle Drivers!

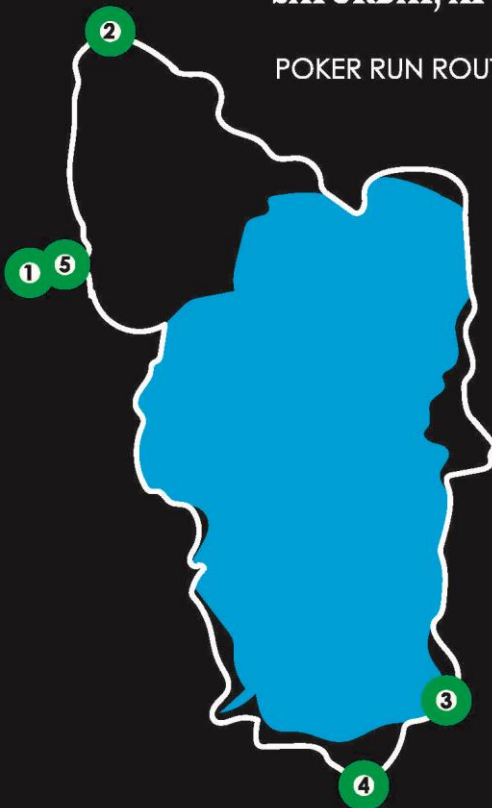


# eV POKER RUN

An Electric Vehicle Poker Run Inspired cruise around scenic Lake Tahoe, Saturday, April 21.

SATURDAY, APRIL 21

POKER RUN ROUTE MAP



## STOPS

1. SQUAW VALLEY  
EARTH DAY FESTIVAL

2. DOWNTOWN TRUCKEE  
TRAIN DEPOT EV CHARGE LOT

3. COACHMAN HOTEL  
SOUTH LAKE TAHOE

4. EVGO QUICK CHARGE STATION  
HIGHWAY 50 & 89 JUNCTION

5. SQUAW VALLEY  
RESORT AT SQUAW CREEK



[tahoealternativefuels.com/events](http://tahoealternativefuels.com/events)

brought to you by:

Tahoe Regional Planning Agency with support by The California Energy Commission



Saturday, May 26 • 12pm to 6pm

Located at the Heavenly Village on Highway 50 in South Lake Tahoe



registering your EV vehicle is **FREE**.

**SIGN IT UP AND SHOW IT OFF!**

Celebrate Memorial Day and electric vehicles at the Lake Tahoe Summer Kick-off Car Show.

For event information and registration form go to:  
[tahoealternativefuels.com/events](http://tahoealternativefuels.com/events)

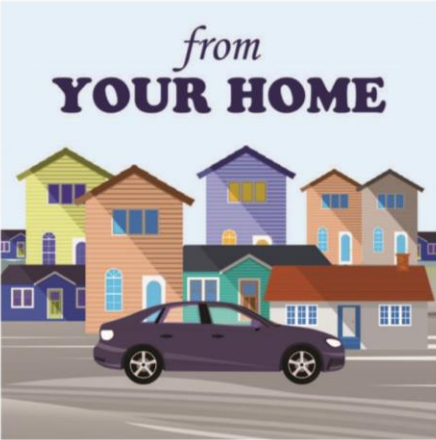
brought to you by:

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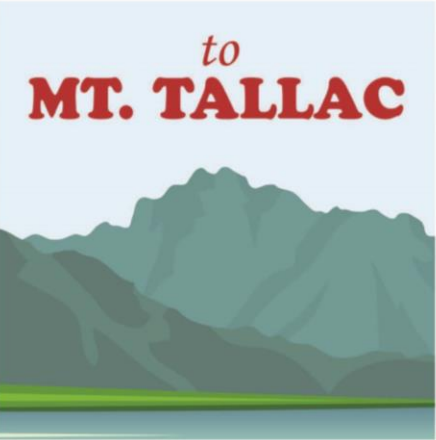




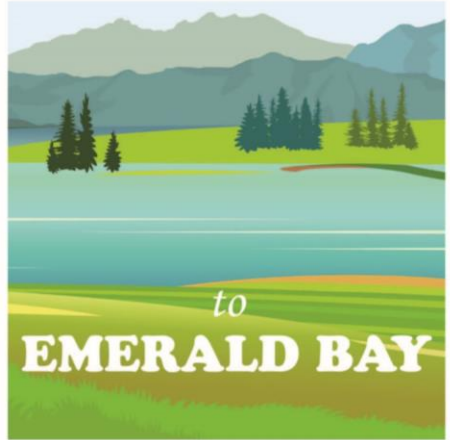
# Visitors



**FRAME 1:**  
In your garage while you sleep.



**FRAME 2:**  
Or choose a station on the go



**FRAME 3:**  
Over 20 charging stations in Tahoe alone!

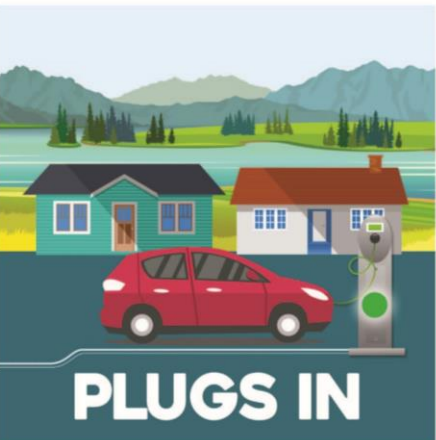


**FRAME 4:**  
Kiss the pump goodbye

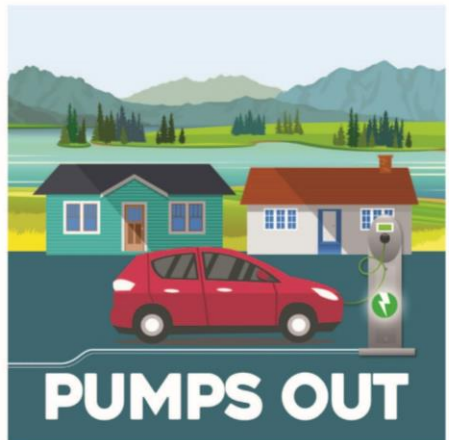


**FRAME 4:**  
and Charge to Tahoe!

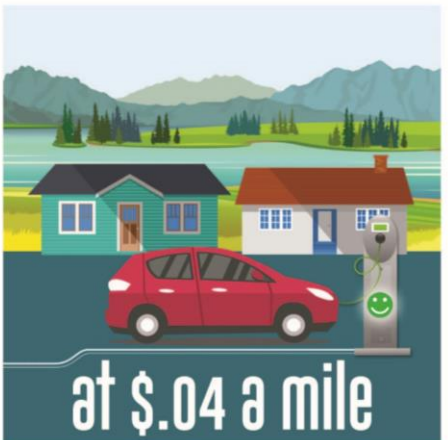
# Residents



**FRAME 1:**  
At home or on the go.



**FRAME 2:**  
Instant torque & acceleration.



**FRAME 3:**  
Who doesn't love that?



**FRAME 4:**  
Hit the road!

## METRICS REPORT



### Visitors

Metric	Total
Reach	73,313
Impressions	172,421
Clicks	3,096

## METRICS REPORT



### Residents

Metric	Total
Reach	20,362
Impressions	65,709
Clicks	1,152

# Site Specific Analysis





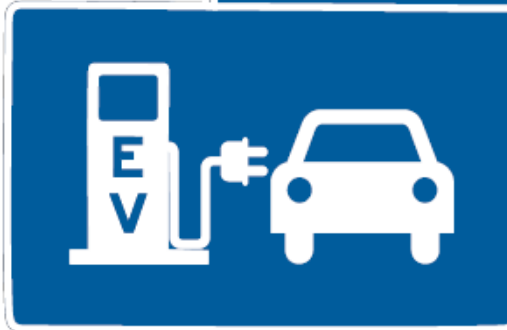
# THINKING ABOUT PUTTING YOUR BUSINESS ON THE EV CHARGING MAP?

In partnership with the Tahoe Regional Planning Agency, James Dumont Consulting is identifying local businesses for free electric vehicle charger siting analysis.

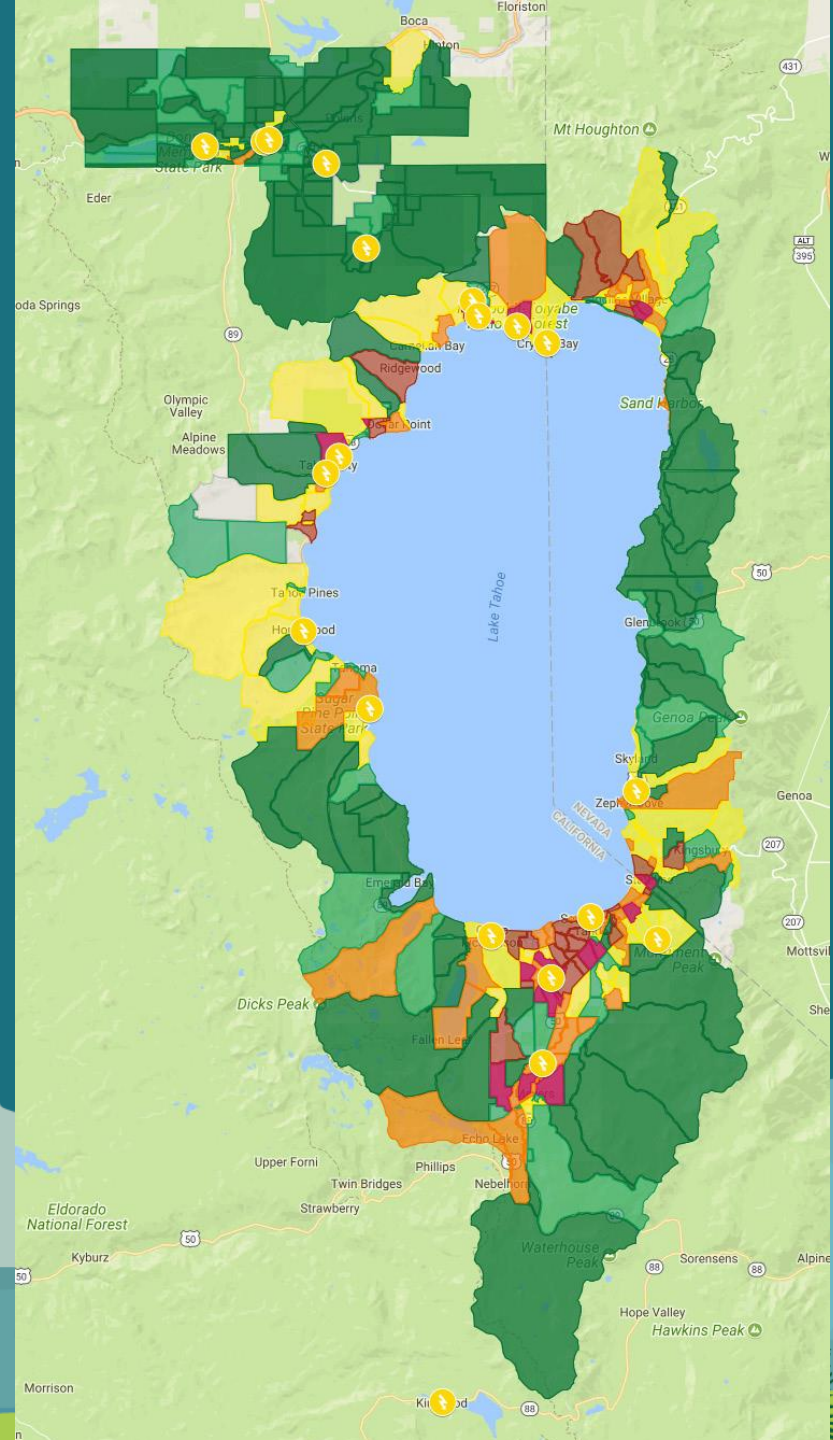
This analysis will include:

- Parking Lot Assessment
- Electrical Infrastructure Analysis
- EV Charger Installation Cost Estimate
- Proposed EV Charger Site Design
- Site Compliance with Local & Federal Requirements

Next 



Interested? Please contact us by 11/30/17 at:  
James Dumont Consulting  
530-575-0881  
jameskdumont@gmail.com





# TAHOE-TRUCKEE

Plug-In Electric Vehicle  
Siting Analysis  
June 2018

*Prepared by  
James Dumont Consulting  
on Behalf of the  
Tahoe Regional Planning Agency*

## Summary of Plug-In Electric Vehicle Siting Analysis

Sites	Level 2 Chargers	DC Fast Chargers	Total Estimated Cost
20	114	16	\$2,936,664



# CAMP RICHARDSON GENERAL STORE & DELI

1900 Jameson Beach Road, South Lake Tahoe, CA 96150

Assessor's Parcel Number: 03213008

Census Tract: 601703200

## SITE OVERVIEW

Camp Richardson is a lakeside resort operated under Special Use Permit with the U.S. Forest Service, Lake Tahoe Basin Management Unit. Located in South Lake Tahoe, California, Camp Richardson offers, among much more, lakeside lodging, a full-service marina and RV and tent camping during the summer months, a cross-country ski resort during the winter, and year-round beachside dining. The Camp Richardson General Store & Deli is open 8:00 a.m. to 4:00 p.m. Sunday through Friday and 8:00 a.m. to 5:00 p.m. Saturdays.

The site is located immediately adjacent to California State Route (SR) 89 with its nearest access to U.S. Route 50 being 2.5 miles to the southeast and Interstate 80 being 38 miles to the north. Camp Richardson is a 7.5-mile drive to the California-Nevada border in South Lake Tahoe and 39 miles from downtown Truckee. The parking lot at the Camp Richardson General Store & Deli offers 12 parking spaces with no height, weight, or other restrictions that would impair light-duty plug-in and plug-in hybrid electric vehicles (collectively, "EV" or "EVs") from charging. The nearest existing DC fast charging stations offering CHAdeMO and CCS1.0 charging connectors is located 2.6 miles away at the Raley's at 1020 Emerald Bay Rd, South Lake Tahoe, CA 96150.



## SUGGESTED EV CHARGING INFRASTRUCTURE

**Level 2:** 1 Dual Connector (2x J1772)

**DC Fast:** 2 Dual Connector (CHAdeMO and CCS1.0)

**Capacity:** 277/480V 3 Phase (ϕ)

**Estimated Cost:** \$169,410.00



EQUIPMENT SYMBOLS	EQUIPMENT LIST				CONDUIT & WIRE TABLE						COMMENTS / REMARKS		
	QUANTITY	BRAND	CABLE LENGTH	OPTIONS	ID	CONDUIT TYPE	SIZE	WIRE TYPE	# CONDUCTORS	SIZE	# GRD	SIZE	
	2	AV	15'	N/A	1	EMT	1"	THHN	4	#8	1	#10	
	0	AV	15'	N/A	1	EMT	1"	THHN	4	#8	1	#10	
	0	AV	15'	N/A	2	EMT	3/4"	THHN	2	#8	1	#10	
	0	AV	15'	N/A	3	PVC	1"	THHN	4	#8	1	#10	
	0	AV	15'	N/A	4	PVC	3/4"	THHN	2	#8	1	#10	

Camp Richardson  
1900 Jameson Beach Rd  
S. Lake Tahoe, CA 96150  
NOT FOR CONSTRUCTION - BID SET -

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JOB NO.:  
DATE: 02/20/25  
SCALE: AS SHOWN

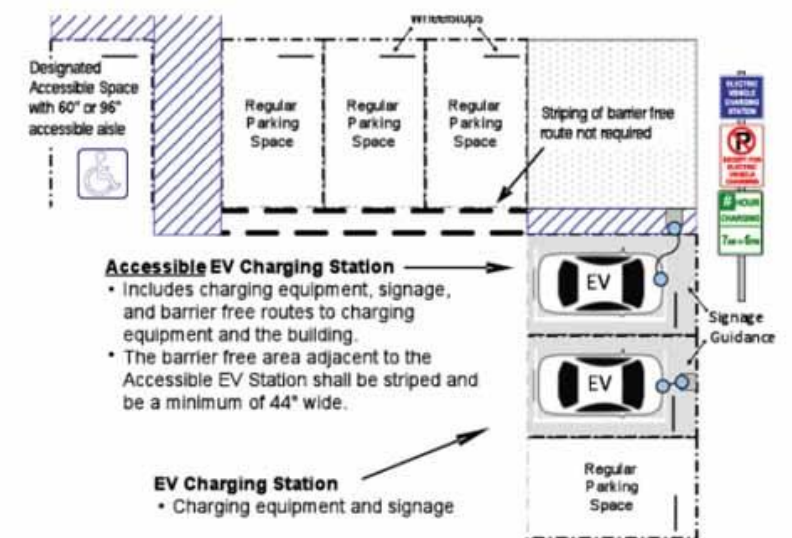
SHEET TITLE  
Site Plan

SHEET NUMBER

EV

# Permitting

1. Permitting checklist
2. Eligible for expedited review
3. Allow for electronic submittal of the application materials online.
4. Modify the standards based on “unique climactic, geological, seismological, or topographical conditions.”





# Next Steps

Funding

Infrastructure Deployment

Permitting

Public Transportation and Fleets

