

Napa County EV Charging Implementation Update

Climate Action Committee – November 21, 2025





Outline

- Update on EV Charging Infrastructure in Napa County
- MCE EV Charging Technical Assistance Application
 - Using the EV Equity Site Mapping Tool
 - Initial Site Selection
 - Data Validation
 - Partnership w/ Jurisdictional Staff
 - Building & Electrical Questionnaire
 - Site Visits
 - Site Reports
- Next Steps & Funding Availability



Update on EV Charging Infrastructure in Napa County





ZEV POPULATION		
Total Light-Duty Vehicles end of 2024		
6,601		
Battery Electric (BEV)	Plug-in Hybrid (PHEV)	Fuel Cell (FCEV)
4.31%	1.49%	0.01%
4,902	1,691	8

NON-ZEV POPULATION			
Total Light-Duty Vehicles end of 2024			
107,145			
Gasoline	Gasoline Hybrid	Diesel	Other
84.87%	5.92%	3.39%	0.02%
96,535	6,730	3,860	20



Number of Vehicles



MAKE	MODEL	Number of Vehicles
Chevrolet	Bolt EV	142
	Bolt EUV	88
	Blazer EV	39
	Equinox EV	19
	Spark EV	8
	Silverado EV	6
Toyota	Prius Prime	253
	RAV4 Prime	100
	Prius Plug-In Hybrid	87
	bZ4X	31
	Mirai	8
	RAV4 EV	3
	RAV4 PHEV	1
Ford	Mustang Mach-E	143
	F-150 Lightning	120
	Fusion Energi	80
	C-MAX Energi	47
	Escape Plug-In Hyb..	13
	E-Transit Cargo	5
	Focus	3
	E-350	1
	E-Transit	1
BMW	X5	85
	i4	75
	i3	73
	iX	46
	5 Series	40
	3 Series	26
	i5	1

SELECT FILTERS

Year
2024

Map Filter
County

County
Napa

Fuel Type
All

Make
All

For additional information about the data and how to cite this visualization, see the [dashboard](#).

LIGHT-DUTY ZEV

TOTAL LIGHT-DUTY

CUMULATIVE SALES

Sales through 2025

8,011

BEV	PHEV	FCEV
6,179	1,823	9

ANNUAL SALES

YTD Sales in 2025

999

BEV	PHEV	FCEV
843	154	2

ANNUAL SALES

Sales in 2025

Q3 Sales

1,138

YTD Sales

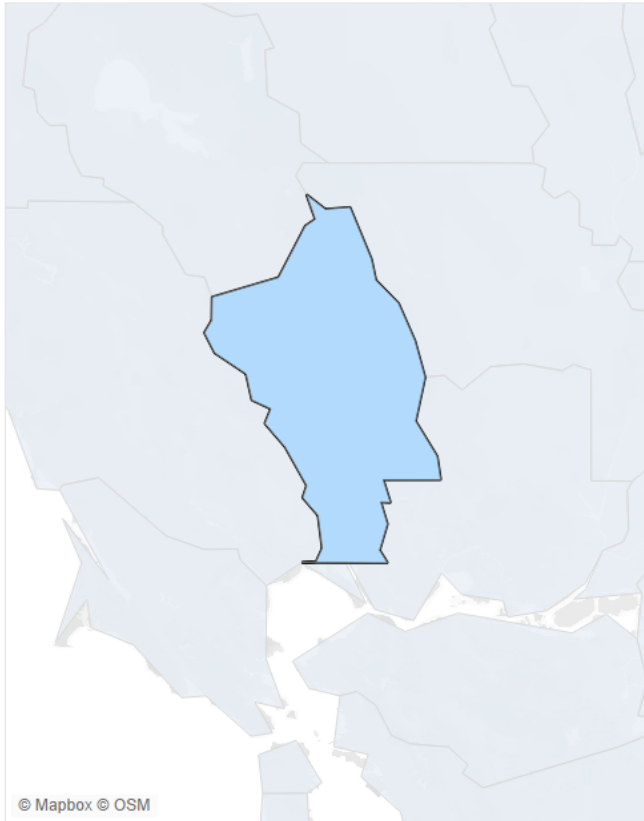
3,523

Q3 ZEV Share

28.3%

YTD ZEV Share

28.4%



Fuel Type	Range	Number of New ZEV Sales
BEV	≥ 200 miles	823
	< 200 miles	20
PHEV		154
FCEV		2

Make	Model	Number of New ZEV Sales
Tesla	Model Y	216
	Model 3	87
	Model S	14
	Model X	10
	Cybertruck	10
Rivian	EDV 700	50
	R1S	35
	R1T	14
BMW	i4	21
	X5	13
	iX	11
	i5	8
	7 Series	1
Hyundai	IONIQ 5	39
	KONA EV	4
	IONIQ 9	3
	IONIQ 6	2

SELECT FILTERS

Year
2025

Map Filter
County

County
All

Fuel Type
All

Make
All



Market Share



For additional information about the data and how to cite this visualization, see the [dashboard](#).

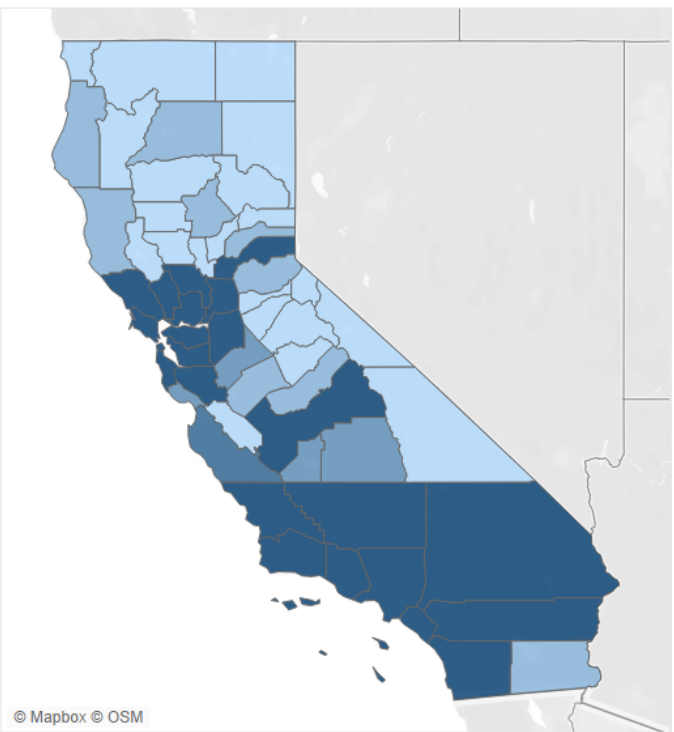
ELECTRIC VEHICLE CHARGERS

Total Public and Shared Private Electric Vehicle Charging Ports

201,180

Public
41.24%
82,971

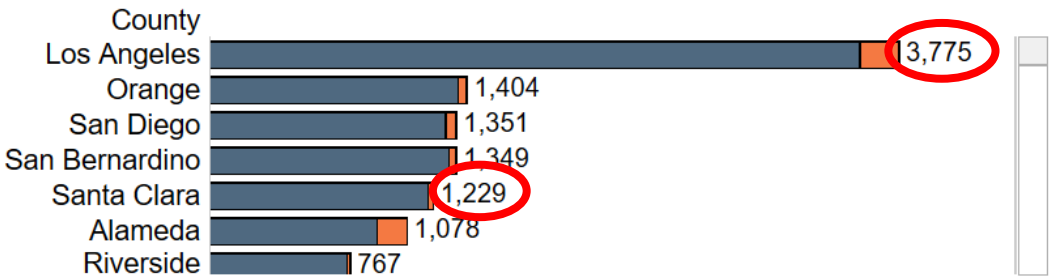
Shared Private
58.76%
118,209



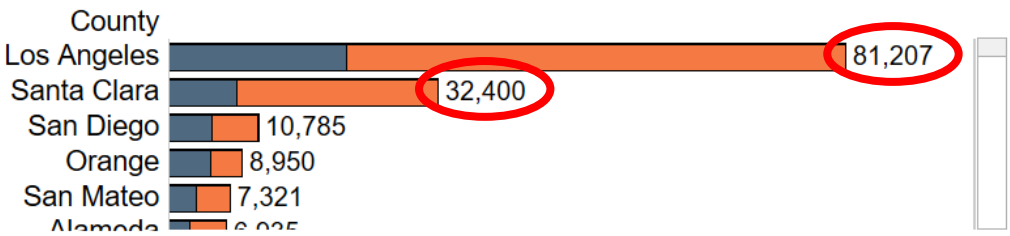
Number of Charging Ports

1 1,000

DC Fast Charging Ports by County



Level 2 Charging Ports by County



	Public	Shared Private	Grand Total
Level 2	65,173	117,375	182,548
DC Fast	17,798	834	18,632
Total Charging Ports	82,971	118,209	201,180



For additional information about the data and how to cite this visualization, see the [Electric Vehicle Chargers in California](#).

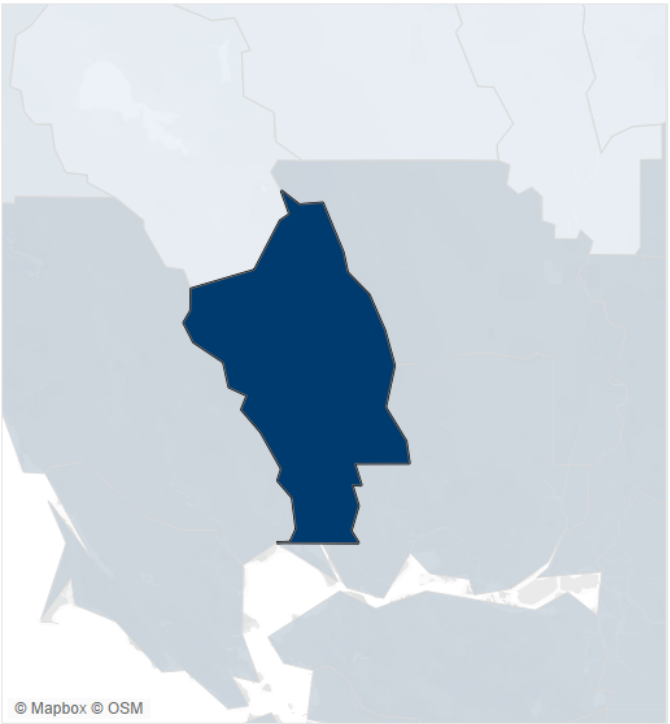
ELECTRIC VEHICLE CHARGERS

Total Public and Shared Private Electric Vehicle Charging Ports

863

Public
88.30%
762

Shared Private
11.70%
101



Number of Charging Ports



DC Fast Charging Ports by County

County
Napa



County
All

Access
All

Level 2 Charging Ports by County

County
Napa



Legend

Public

Shared Private

	Public	Shared Private	Grand Total
Level 2	682	101	783
DC Fast	80	0	80
Total Charging Ports	762	101	863



For additional information about the data and how to cite this visualization, see the [Electric Vehicle Chargers in California](#).

Total number of EV Chargers

Jurisdiction	Nov. 2025		Chargers needed by 2025 (CARB analysis)		Additional Chargers needed by end of 2025	
	Level 2	DC Fast	Level 2	DC Fast	Level 2	DC Fast
American Canyon	26	0	195	10	169	10
Calistoga	28	0	50	2	22	2
Napa City	191	58	742	36	551	-22
Napa County	274	14	219	11	-55	-3
St. Helena	24	0	57	3	33	3
Yountville	18	0	25	1	7	1
TOTAL	561	72	1288	63	727	-9

Source: National Renewable Energy Laboratory (NREL), Napa County PBES, California Air Resources Board (CARB)



MCE EV Charging Technical Assistance Application





1

Connect with an energy expert

Complete the interest form below. We'll schedule a call to discuss details about your property and EV charging goals. If technical assistance is not needed and you're ready to secure your rebate, fill out our [rebate reservation form](#).

Interest Form

2

Build your EV charging plan

Get your customized EV Charging Planning Report, which includes a site assessment, load study, available incentives, recommended vendors, and user pricing.

3

Reserve your rebate

Secure your rebate by completing the [rebate reservation form](#).

4

Select a vendor and complete installation

Once your project scope is finalized, select and hire an [MCE-approved hardware and software vendor](#).

5

Receive your rebate

Once your project is completed, we will send you the [project verification application](#). Upon verification, you will receive your rebate within 7–10 business days.

EV Charging for Businesses and Multifamily Properties

MCE's EV Charging program provides practical solutions to support your EV charging needs. Whether you are in the discovery phase or ready to apply for your EV charging rebate, MCE offers expert guidance throughout all stages of your project.

EV charging can offset ongoing costs by charging users, attracting, and retaining employees and residents, and future-proofing your property.

What You'll Get

Enhance your property by installing EV chargers with rebates up to \$4,500 per port.

Charger Level	Light Green	Deep Green	Site Maximum
Level 1	\$750 per port	\$875 per port	4-40 ports
Level 2*	\$4,000 per port	\$4,500 per port	2-20 ports

*If your project is located in a **State-designated Priority Population**, you may be eligible for an additional \$500 per port.

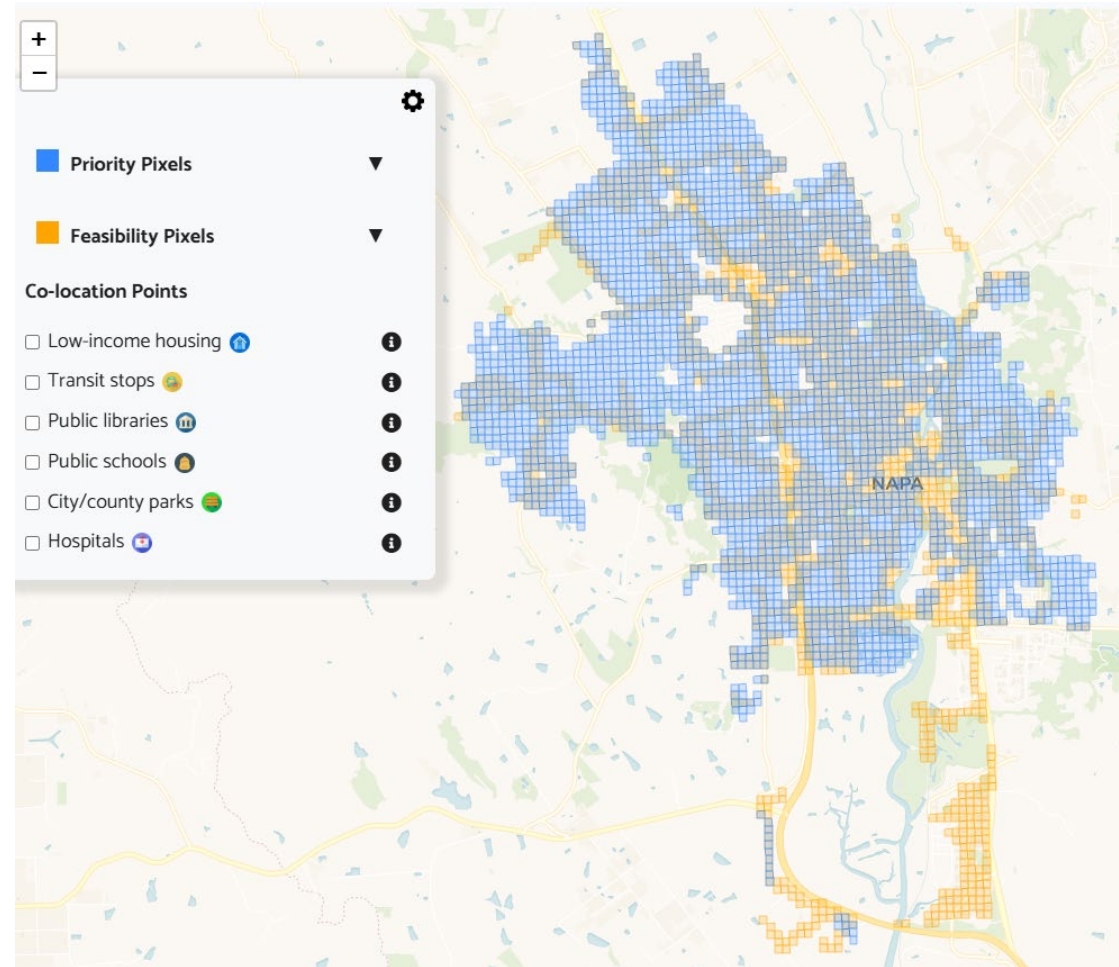


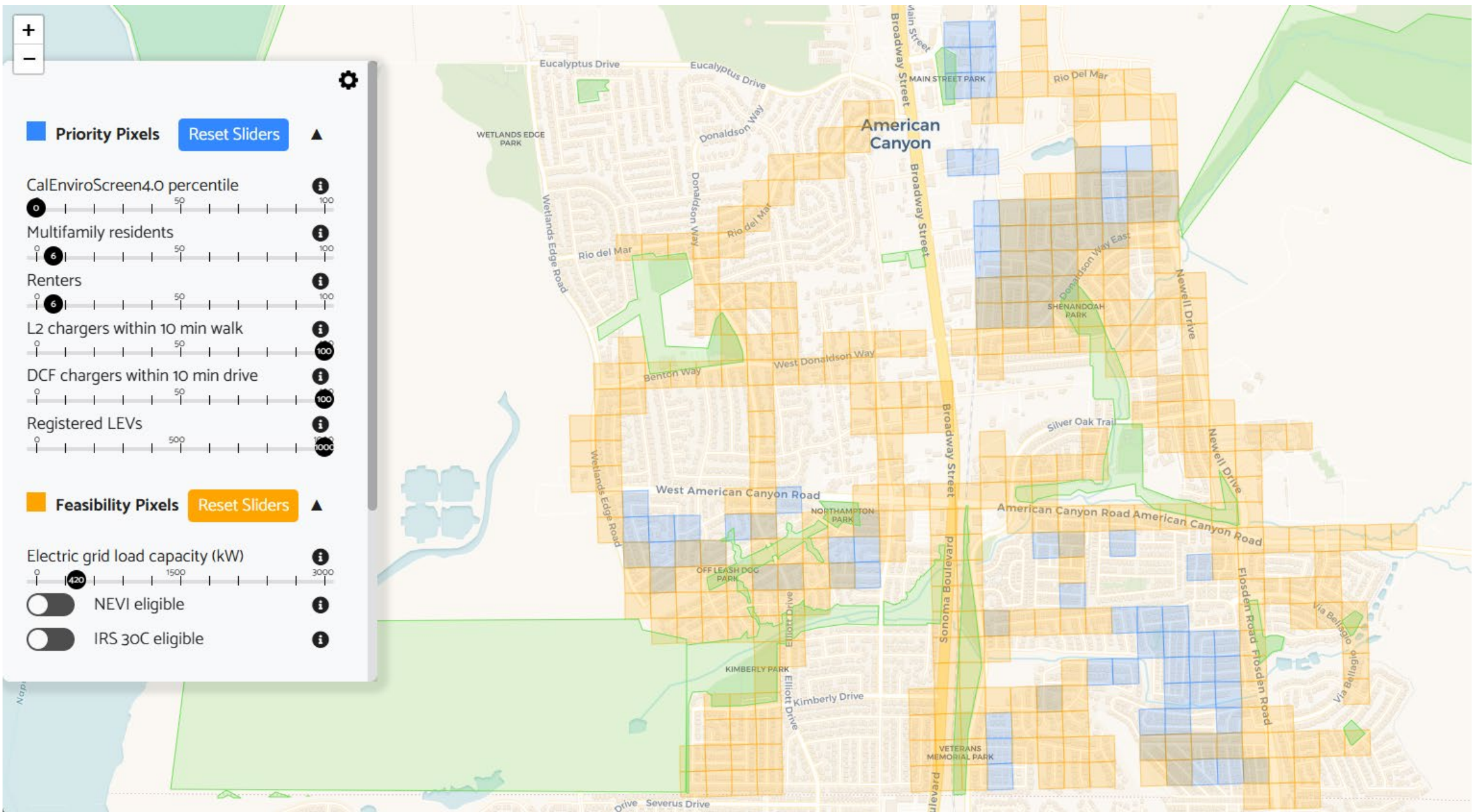
Using the EV Equity Site Mapping Tool



Initial Site Selection

- Using the UC Berkeley EV Equity Mapping Tool, staff focused on initial priority sites for EV Charging Infrastructure
 - Publicly-owned
 - Near multifamily housing
 - Low access to public charging
 - Parks & Recreation sites





Data Validation for Sites

Grid Resource Integration Portal

GRIP Map

System

ICA

DPEP

342 ft

200 ft

Calistoga

1st St

Washington St

Gerard St

Cedar St

Spring St

29

CALISTOGA 1102

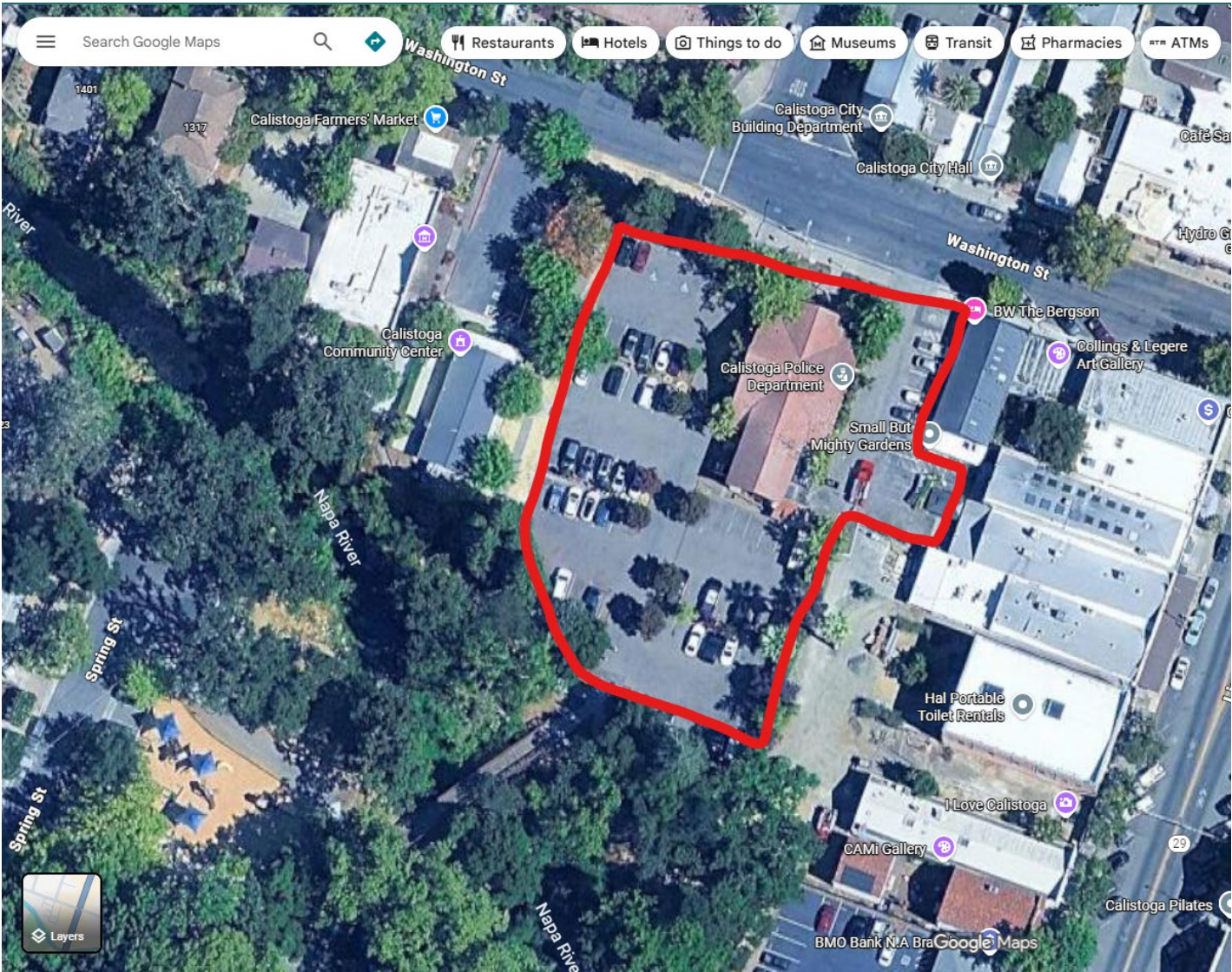
Zoom to

Global ID	{BD88D620-B669-4781-B1CA-F976BE9C078B}
CSV Line Section ID	3733488
LICA Analysis Date	
Load Hosting Capacity (kW)	1420
GICA Analysis Date	Mar 2025
Generation Hosting Capacity	0

Esri Community Maps Contributors, County of Napa



Data Validation for Sites



Site Location	Jurisdiction	Staff Initial Recommendation of L2 Chargers	Staff Initial Recommendation of L3 Chargers
Shenandoa Park	American Canyon	20	6
Northhampton Park	American Canyon	4	2
Kimberly Park	American Canyon	14	2
AC City Hall	American Canyon	6	1
AC Water Reclamation Facility	American Canyon	20	4
Napa River Ecology Center	American Canyon	16	2
Police Dept. Parking Lot	Calistoga	10	6
Fire Department	Calistoga	20	2
Napa County ITS	County	10	0
Napa County South Campus south of Building B	County	40	2
Napa County South Campus north of Building A	County	20	4

1. Partnership with Jurisdictional Staff



After initial site selection in partnership with jurisdictional staff, County staff submitted a joint application to MCE's EV Charging Technical Assistance Program, with CLEAResult providing technical expertise for the program

2. Building & Electrical Questionnaire



The next step involved Public Works staff at each jurisdiction completing a Building and Electrical Information Questionnaire for each selected site



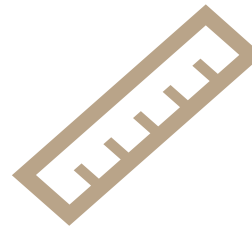
3. Site Visits



**Electrical Capacity
& Equipment**



**# of Parking
spaces**



**Optimize
Proximity**



**Additional
Info**





American Canyon Staff & CLEAResult Staff inspecting electrical equipment at future Napa River Ecology Center



Top: CLEAResult Staff inspecting electrical equipment at Napa County HHSA Building

Bottom: Napa County HHSA parking stalls and electrical infrastructure



4. MCE Technical Assistance Site Reports & Cost Estimates



Existing Site
Conditions



Charging
Solution(s)



Template Bid
Request



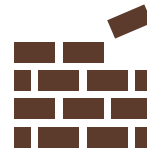
Appendix w/
Defined terms



Summary of
charging
solutions



Total # of each
charger type



Estimated
hardware + design
& construction



MCE
Incentive \$
available



Net project \$
& Cost per
charging port



Site Location	Jurisdiction	Staff Initial Recommendation of L2 Chargers	Staff Initial Recommendation of L3 Chargers
Shenandoa Park	American Canyon	20	6
Northhampton Park	American Canyon	4	2
Kimberly Park	American Canyon	14	2
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Fire Department	Calistoga	20	2
Napa County ITS	County	10	0
Napa County South Campus south of Building B	County	40	2
Napa County South Campus north of Building A	County	20	4

-  - Site visit complete; reports complete
-  - Site visit complete; awaiting reports
-  - Site questionnaire complete, awaiting site visit
-  - Site deemed not viable for this round of program

Next Steps & Funding Availability:

1. Received reports for 2 sites in Calistoga
2. Awaiting reports and cost estimates for 2 County sites and 1 American Canyon Parks Foundation Site
3. Scheduling site visits for 4 American Canyon Sites
4. Working with jurisdictional staff to explore EV Charging implementation solutions and financing strategies



Next Steps & Funding Availability:

Funding Source/Program	Level 1 Incentives	Level 2 Incentives	Level 3 Incentives	Eligibility & Notes
MCE EV Charging Rebates	\$750-\$850	\$4,000-\$4,500	N/A	Workplace (including municipal) & Multifamily housing
Communities in Charge Incentives	\$2,000	\$8,500	N/A	MF housing or w/in 1/8 mile & sites serving MF housing
Bay Area Air District's Charge! Program	\$2,000	\$2,000-\$5,000	\$35,000-\$45,000	Level 1 incentives for MF sites only, L2 & 3 open to other sites; bonus incentives for sites w/in Priority Population Areas and MF housing sites; Currently closed for new applications
CALeVIP Fast Charge California Project	N/A	N/A	\$100,000	Application deadline: January 29, 2026



Potential funding project examples:

20 L2 Chargers - MF Site

- MCE Incentive:
 - $20 \times \$4,500 = \$90K$
- Communities in Charge:
 - $20 \times \$8,000 = \$160K$
- Air District Charge! Program:
 - $20 \times \$5,000 = \$100K$

Potentially \$350K incentives

10 L3 (DCFC) Public Site

- CALeVIP:
 - $10 \times \$100,000 = \$1M$
- Air District Charge! Program:
 - $10 (150+ \text{ kW}) \times \$45,000 = \$450K$

Potentially \$1.45M incentives

*Notes:

- 1) These examples assume all programs renew funding for future installations
- 2) Most program incentives will not cover full cost of EVCS projects, but can stack together to cover full cost

Thank you!

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