



WEBINAR

CLEAResult®



**ALAMEDA
MUNICIPAL POWER**
A Department of the City of Alameda

Electric Vehicle (EV) Charging for Alameda
Residential Multifamily Housing

June 5, 2025

Moderator Introductions



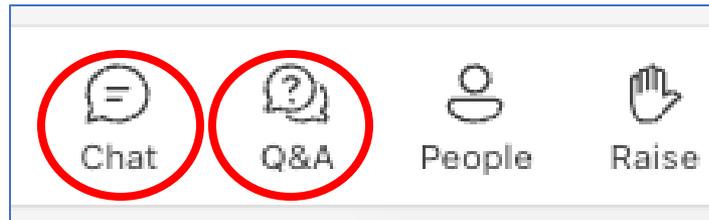
George Kopf
CLEAResult
Program Manager



Steve Wilcox
CLEAResult
EV Charging Program Support

Webinar Protocols

- Today's webinar is being recorded & will be posted
- All attendees are in "listen-only" mode
- Attendees' mics & cameras are disabled
- Type questions & comments using either the "Chat" or "Q&A" feature:



- Please be respectful

Disclaimers

- AMP's EV Charging Technical Assistance Program serves as a vendor-agnostic neutral 3rd-party technical expert to AMP customers
- Any reference to products and/or services during this webinar should not be interpreted as either an implicit or explicit endorsement
- Vendors should not use this webinar to promote their products and/or services

Today's Agenda

- Introductions
- AMP Overview
- Rebates
- Free Technical Assistance Overview
- EV Charging Overview
- Case Study
- Questions

Introductions

- **AMP Personnel**
 - Edbert Nguyen, Program Manager
- **CLEAResult Personnel**
 - Sam Mackintosh, Regional Account Team Manager
 - Mickey Friedman, Account Manager
- **Featured Speaker**
 - Steve Smith



Alameda Municipal Power (AMP) Overview

- Founded in 1887
- Community owned
- Locally controlled
- 38,284 Customer Accounts
- 100% clean energy mix
- Programs & Resources



Today's Takeaways

- **Funding** is available to help you pay for your EV charging projects
- **Free EV charging technical advising** available for **multifamily** property owners/managers



Scan the QR code to sign up for Free Electric Vehicle Charging Technical Assistance Program

Electric Vehicles Are Here

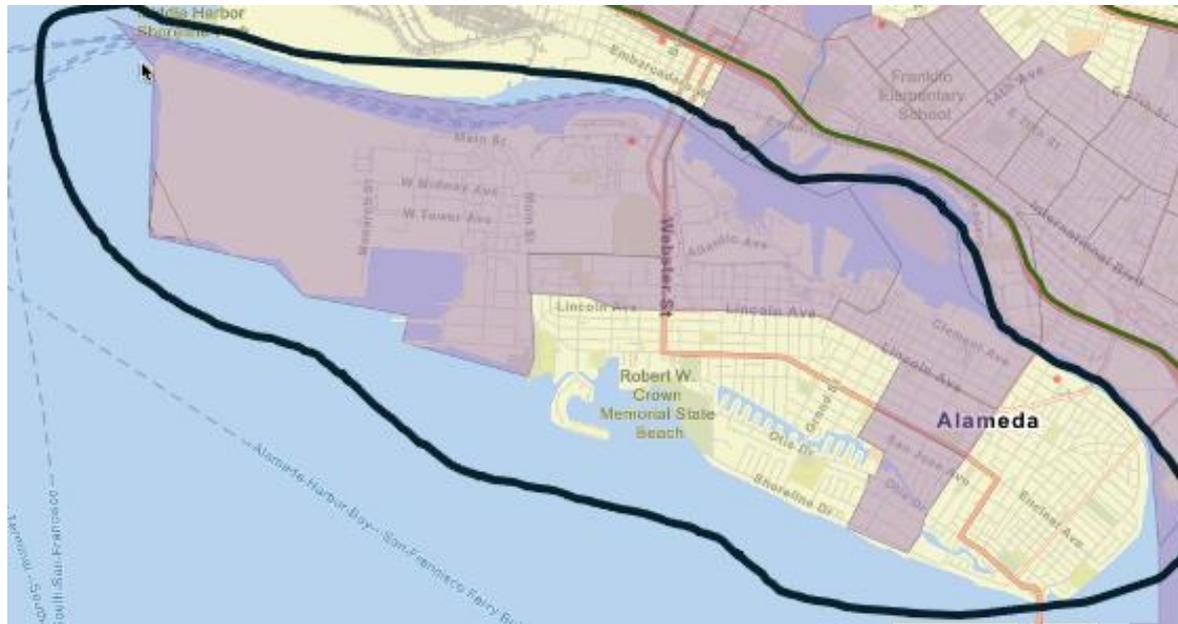
In 2024, 1 in 3 cars sold in Alameda County was an EV

LIGHT-DUTY ZEV						TOTAL LIGHT-DUTY	
CUMULATIVE SALES			ANNUAL SALES			ANNUAL SALES	
Sales through 2024			YTD Sales in 2024			Sales in 2024	
139,811			22,318			Q4 Sales	YTD Sales
BEV	PHEV	FCEV	BEV	PHEV	FCEV	14,798	59,146
108,689	30,096	1,026	19,928	2,367	23	Q4 ZEV Share	YTD ZEV Share
						36.8%	37.7%

Source: <https://www.energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics-collection/new-zev>

Who is Eligible for Free EV Charging Technical Assistance?

- Multifamily building with 4 or more units
- In the Justice 40 map (purple area):

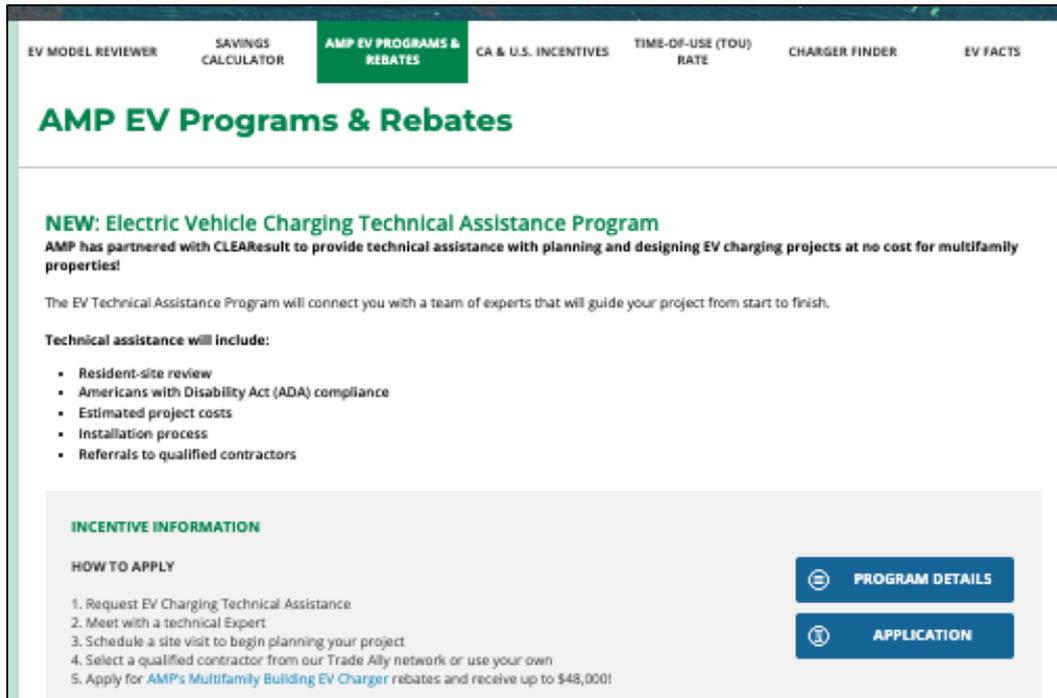


Rebate Overview: Multifamily Properties

- Level 1 and Level 2 EV Dedicated Outlet: **\$3,000 per parking space served up to \$50,000**
- Level 2 Charging Stations (1 to 3 parking spaces): **\$8,000 per parking space served**
- Level 2 Charging Stations (4 or more parking spaces): are eligible for a rebate of **75% of project costs, up to \$50,000 if serving a minimum of four (4) parking spaces**

Visit AMP's Website to See the Full Suite of Programs

<https://alameda.upgrade.guide/ev/ev/promos/>



The screenshot shows the AMP EV Programs & Rebates website. The navigation bar includes links for EV MODEL REVIEWER, SAVINGS CALCULATOR, AMP EV PROGRAMS & REBATES (highlighted), CA & U.S. INCENTIVES, TIME-OF-USE (TOU) RATE, CHARGER FINDER, and EV FACTS. The main heading is "AMP EV Programs & Rebates". A new program is announced: "NEW: Electric Vehicle Charging Technical Assistance Program". The text states that AMP has partnered with CLEAResult to provide technical assistance with planning and designing EV charging projects at no cost for multifamily properties. It further explains that the EV Technical Assistance Program will connect users with a team of experts to guide their project from start to finish. A list of technical assistance services includes: Resident-site review, Americans with Disability Act (ADA) compliance, Estimated project costs, Installation process, and Referrals to qualified contractors. Below this, there is a section for "INCENTIVE INFORMATION" and "HOW TO APPLY" with a five-step process: 1. Request EV Charging Technical Assistance, 2. Meet with a technical Expert, 3. Schedule a site visit to begin planning your project, 4. Select a qualified contractor from our Trade Ally network or use your own, and 5. Apply for AMP's Multifamily Building EV Charger rebates and receive up to \$48,000. Two buttons are visible: "PROGRAM DETAILS" and "APPLICATION".



Scan the QR code to sign up for Free Electric Vehicle Charging Technical Assistance Program

Rebate Application Process

- Confirm with AMP rebate budget is available
- Complete project
- Apply for rebates
- AMP confirms installation
- AMP sends rebate payment

Program Overview



**ALAMEDA
MUNICIPAL POWER**

A Department of the City of Alameda

**EV programs &
rebate provider**

**Program funding &
strategic direction**

CLEAResult[®]

**EV charging expert
partner**

**Provide free EV charger
technical support to
AMP customers**



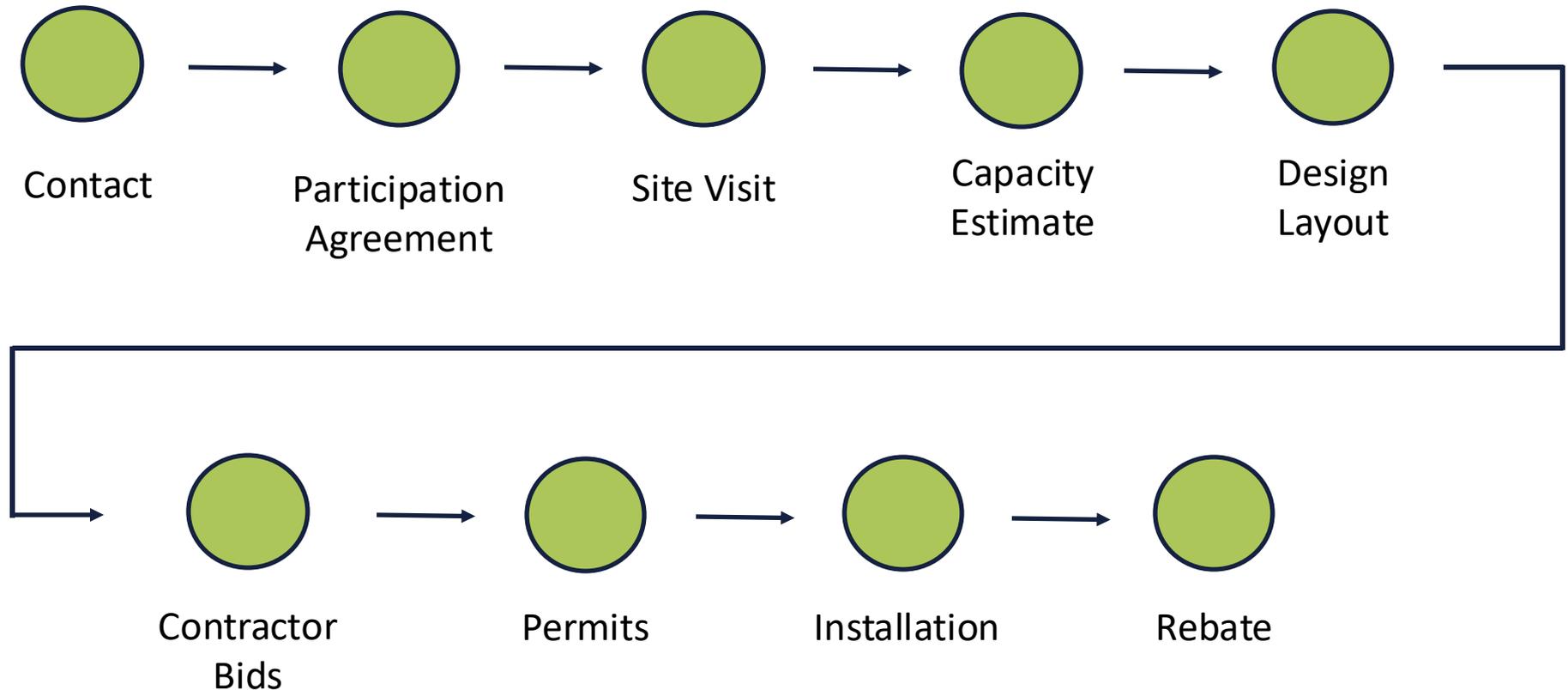
When to Install EV Chargers

- Have current and/or prospective tenants asked for EV chargers?
- Have you lost a current tenant because you didn't have EV chargers?
- Did a prospective tenant pass because you didn't have EV chargers?
- What is the financial impact of not having EV chargers?
- Is anyone else on your team aware of the need for EV chargers?
- Has someone in leadership asked you to find an EV charging solution?
- Is not installing EV chargers an option?

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How Free EV Charging Technical Assistance Works



Free EV Charging Design Assistance

- Up to 3 EV charging installation scenarios for free
- Tailor made for your building
- Includes cost estimates
- No risk
- No obligation

Free EV Charging Design Assistance

- Neutral 3rd-party
- Technical experts here to serve AMP customers
- CLEAResult does not sell or install EV chargers
- **No sales, no obligation**
- Here to advise:
 - Answer questions
 - Provide resources
 - Offer suggestions

Up to 3 EV Charging Scenarios Tailor Made for Your Building with Cost Estimates



ALAMEDA MUNICIPAL POWER



CLEAResult®

EV Charging Site Evaluation Report



██████████ AVE.

PROJECT ID#: ██████████

PREPARED ON 1/24/2025
PREPARED FOR ██████████
PREPARED BY CLEAResult
WITH SUPPORT FROM Alameda Municipal Power

Up to 3 EV Charging Scenarios Tailor Made for Your Building with Cost Estimates

Solution 1			Solution 2		
3 Smart Level 2 Outlets			7 Smart Level 1 Outlets		
Category	Quantity	Est. Cost	Category	Quantity	Est. Cost
Level 2 Outlets	3	\$ 1,600	Level 1 Outlets	7	\$ 3,733
Design and Infrastructure	\$14,500		Design and Infrastructure	\$21,300	
Project Cost	\$16,100		Project Cost	\$25,033	
Incentive	\$9,000		Incentive	\$21,000	
Net Project Cost	\$7,100		Net Project Cost	\$4,033	
Cost per Port	\$2,367		Cost per Port	\$576	

Send the Report to Contractors to Request Bids

2. Charging Solution

The Charging Solution is designed to furnish [REDACTED] with 8 qty Level 1 Outlets.

Chargers

The following quantities of charging are to be included in the Charging Solution.

Type	Quantity	Installation Specifications
Level 1 EVSE	8 Smart Level 1 Outlets	<ul style="list-style-type: none"> 8 qty 120V, 16A, smart Level 1 outlets

Installation Requirements

[REDACTED] Ave. building:

- Requires installation of new Load Center downstream of existing House Panel Load Center
 - New Load Center requires 1P/3W, 120Y/240V, 100A panel
 - Connect existing circuit tied to House Panel to new Load Center
- Requires installation of 1 qty 70A circuit on new Load Center
 - Pull wire via surface mounted conduit to upgraded Carport Panel
- Requires installation of upgraded Carport Panel
 - Upgraded Carport Panel requires 120Y/240V, 100A panel
- Install 4 qty 20A circuits on upgraded Carport Panel
 - Pull wire via surface mounted conduit to 4 qty smart Level 1 outlets in the western carport structure

[REDACTED] Ave. building:

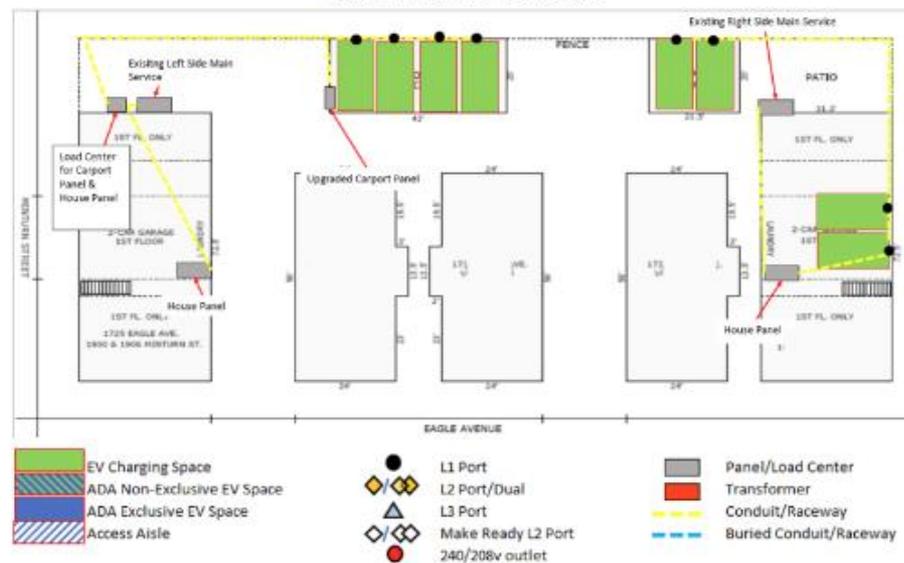
- Upgrade House Panel with a like-for-like replacement wherein upgraded Panel has four available positions for the Level 1 circuits
 - NOTE: existing House Panel was not accessible during site visit; if available positions already exist, the upgrade is not necessary
 - Connect existing House loads to upgraded House Panel, if necessary
- Requires installation of 4 qty 20A circuits on upgraded House Panel
 - Pull wire via surface mounted conduit to 2 qty smart Level 1 outlets in the 1741 Eagle Ave. building
 - Pull wire via surface mounted conduit to 2 qty smart Level 1 outlets in the eastern carport structure

NOTE: Because parking spaces are assigned to tenants, no new ADA spaces will be required based on California Building Code 2016 Chapter 11B-228.3.2.1.

Layout

The drawing below includes the new proposed EV parking space locations.

Figure 2: Proposed EVSE Layout



The AMP EV Charging Program Trade Allies

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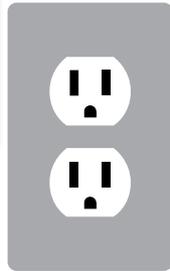
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Sample Project Cost: Multifamily Property

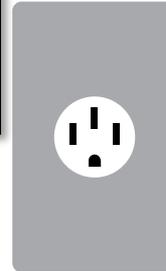
A typical installation with six Level 2 charging ports:

ITEM	COST
Hardware & Install	\$56,000
Permits	\$2,500
Budget (Hardware & Install, Permit)	\$58,500
Less Rebates of \$50K or 75% of project costs (whichever is less)	-\$43,875
Out of Pocket	\$14,625

EV Charging Equipment



Level 1



Level 2

Covered by AMP rebates



DC Fast Charger*

* Not covered by AMP incentives

EV Charger Types

Type of Charger	Are electric equipment upgrades necessary?	Charge Delivered per 12-hour charge	Use Case
Level 1 Outlet (120V)	Less likely	40-60 miles	Overnight/all day parking (EV drivers bring their own cord)
Level 2 Outlet (240V)	More likely	120 miles	2+ hour parking (EV drivers bring their own cord)
Level 2 Charger (240V)	More likely	240 miles	2+ hour parking
Level 3/DC Fast Charger (480V)*	Yes	Typical full charge in 30 min – 2 hrs	Road trip corridor charging, shorter dwell time

* Not covered under AMP incentives

EV Charger Types

Level 1



Faucet

**Low Power
Level 2**



Garden
hose

Level 2



Fire hose

**Direct Current
Fast Charge
(DCFC)**



Waterfall

Today's Featured Speaker: Steve Smith

- Case Study: 930 Pacific Ave.
- Age of the building: 1889
- Type: 4-unit multifamily
- Existing infrastructure: 500A service, upgraded about 15 years ago
- EVSE installed: 4 Level 2 chargers
- Owner: Steve Smith

Case Study: 930 Pacific Ave.

Figure 3: Proposed EVSE Layout



Case Study: 930 Pacific Ave.



Case Study: 930 Pacific Ave.



Next Steps: Enroll in Free EV Charging Design Assistance

- Submit an enrollment form
- Site Visit
- Charging Evaluation Report presentation
- Bidding & contractor selection (if needed)
- After installation, apply for rebates



Questions?



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Free Electric Vehicle Charging
Technical Assistance Program

Today's Takeaways

- **Funding** is available to help you pay for your EV charging projects
- **Free EV charging technical advising** available for **multifamily** property owners/managers



Scan the QR code to sign up for Free Electric Vehicle Charging Technical Assistance Program

Thank You!

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<https://alameda.upgrade.guide/ev/ev/promos/>

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Appendix & Resources

The AMP EV Charging Program Trade Allies

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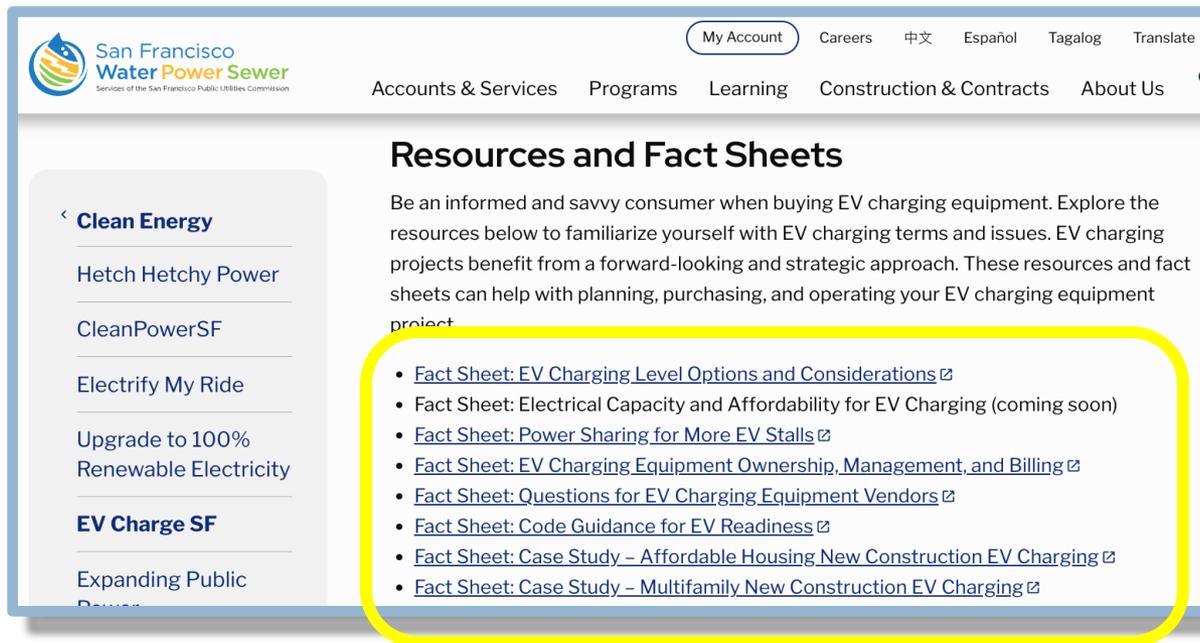
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Resource: SFPUC Fact Sheets

- San Francisco Public Utility Commission (SFPUC) published several fact sheets that may be helpful



The screenshot shows the San Francisco Water Power Sewer website. The header includes the logo and navigation links: My Account, Careers, 中文, Español, Tagalog, Translate. The main navigation bar lists: Accounts & Services, Programs, Learning, Construction & Contracts, About Us. The page title is "Resources and Fact Sheets". Below the title is an introductory paragraph: "Be an informed and savvy consumer when buying EV charging equipment. Explore the resources below to familiarize yourself with EV charging terms and issues. EV charging projects benefit from a forward-looking and strategic approach. These resources and fact sheets can help with planning, purchasing, and operating your EV charging equipment project." A list of fact sheets is displayed, with the first one highlighted by a yellow rounded rectangle: "Fact Sheet: EV Charging Level Options and Considerations". Other fact sheets include: "Fact Sheet: Electrical Capacity and Affordability for EV Charging (coming soon)", "Fact Sheet: Power Sharing for More EV Stalls", "Fact Sheet: EV Charging Equipment Ownership, Management, and Billing", "Fact Sheet: Questions for EV Charging Equipment Vendors", "Fact Sheet: Code Guidance for EV Readiness", "Fact Sheet: Case Study – Affordable Housing New Construction EV Charging", and "Fact Sheet: Case Study – Multifamily New Construction EV Charging".

