

# EV Coordinating Council

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## March 25, 2026 Meeting

Welcome! We will begin shortly.

Feel free to change your display name to include your organization and pronouns.

**This meeting will be recorded.**

[acterra.org/ev-coordinating-council](https://acterra.org/ev-coordinating-council)



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ACTION FOR A  
HEALTHY PLANET

# Meeting Agenda

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- Welcome (5 min)
- Panel Discussion: Commercial EV Charging Deployment and Certification (60 min)
- EV Council December Survey Results (10 min)
- Roundtable Announcements (15 min)



# Commercial EV Charger Deployment and Certification - Panel Discussion

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## Goals of this session:

- Uplift efficient, cost-effective, transparent practices to achieve EV charging equipment accuracy.
- Stimulate peer learning across sectors and counties.
- Reduce barriers to responsible EV infrastructure deployment.
- A Q&A session will follow. Please hold questions until the end of the panel presentations. Moderator will call on those with hands raised or select questions from the chat.



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# Panel: EV Charger Deployment and Certification

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**Jeremy Eide – San Mateo County**

**Matt Slattengren – Contra Costa County**

**Mal Skowron – Tesla, Inc.**

**Wendy Chou, Acterra (Moderator)**

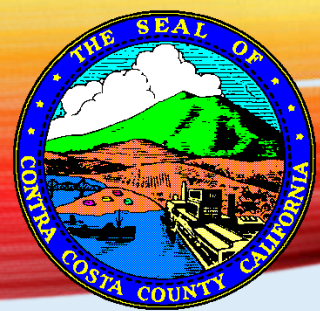


# Meet our Panelists

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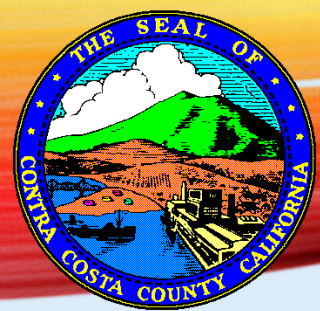


**Matt Slattengren** is a graduate of UC Davis in Managerial Agricultural Economics. In 2000 Matt started with the Contra Costa County Agricultural Department as an insect trapper, then slowly moved up the ranks until appointed as the Agricultural Commissioner / Director of Weights & Measures in March of 2019.



# EV Regulatory Challenges

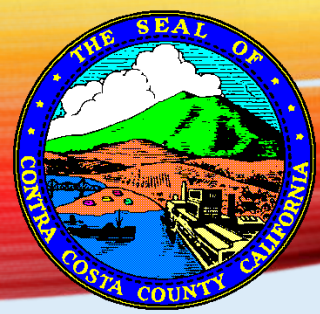
Matt Slattengren  
Contra Costa County  
Agriculture Weights & Measures



# Role of Weights & Measures

Weights and Measures staff inspect and seal **Commercial** weighing or measuring devices used in commerce to determine the quantity of a product or service for sale or use to the public.

- Inspect and test commercial weighing and measuring devices
- Verify accuracy of devices used to determine the quantity of products or services sold to the public
- Apply official seals to devices that meet accuracy and performance standards
- Protect consumers and businesses by ensuring fairness in the marketplace
- Enforce state and local laws related to commercial measurement accuracy



# Commercial Devices

- Commercial Device -any weighing or measuring instrument used to determine quantity for a monetary transaction.
- Non-Commercial devices are not required to be registered/sealed by Weights and Measures.

## Devices we test:

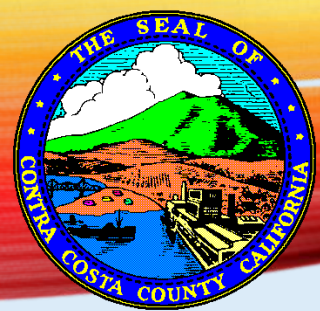
CNG Meter;	Electric Meters;	Fabric, Cordage, Wire;	Grease and Lube Meters;	LPG Meters;
Other Liquified Gas;	Milk Tank;	Odometers;	Retail Motor Fuel Meters;	Retail Meters
Retail Water Meters;	Tanks;	Taxi Meters;	Vapor Submeters;	Vehicle Meters;
Water Submeters;	Wholesale Meters;	Misc. Measuring;	Computing Scales;	
Computing Scales Point of Sale;		Counter Scales;	Crane;	Portable Platform;
Dormant Scales;	Hopper and Tank	Hanging Scale;	Livestock/Animal Scales;	
Monorail or Meat Beam;	Prescription / Jeweler Scale;		Railway Scales;	Vehicle Scales;
Misc. Weighing Device;	Scanners;	EVSE Meters;	Hydrogen Meters;	Class II Scales



# Type Approval

- All commercial devices used must be type approved
- California Type Approval Evaluation Program (CTEP) CDFA-DMS
- National Type Approval Evaluation Program (NTEP)-National Council of Weights & Measures (NCWM)

**When apps change, they need to be resubmitted for type approval.**



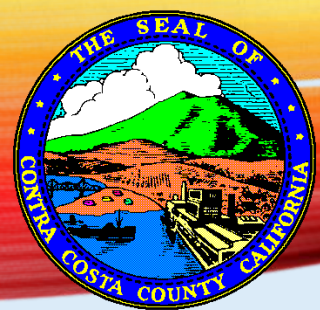
# EVSE AC vs DC

AC Easier to test



DC More challenges





# Financial Challenges

Getting testing equipment is expensive

~\$180,000 for 1 AC and 1 DC standard, \$60-70k new truck plus outfitting it

~1 full time inspector (~\$150,000)

We expect \$21,000 in fees this year

60 locations with almost 600 devices registered in CCC

Over 200 public locations known

Training and workload

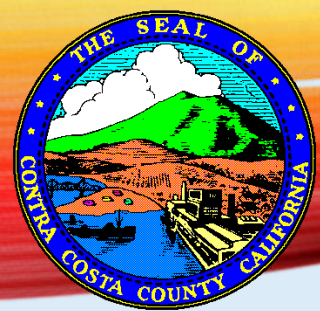
**Weighmaster;**

**Petroleum Inspections;**

**QC;**

**Complaints**

**Over 20,000 devices to inspect per year at over 2,200 Locations**



# Other Challenges

Responsible party

Registering devices

Service agent placed in service report

Too many different apps

Changing apps without type approval

Service Agents getting testing equipment fixed



# Problems in the field

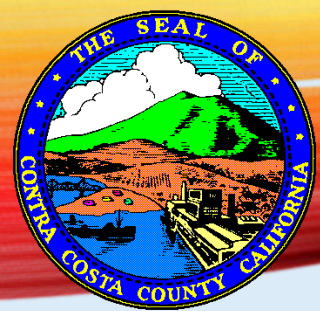
Device already in use

Broken devices/out of service

Safety: cart vs car

Maneuvering the truck plus large emulator

Contact information on devices



# Questions?

Matt Slattengren  
Contra Costa County  
Agriculture Weights & Measures  
925-608-6600  
[AgCommissioner@ag.cccounty.us](mailto:AgCommissioner@ag.cccounty.us)

# Meet our Panelists

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**Jeremy Eide** has over 27 years of experience working for Agriculture and Weights and Measures Departments, including a little over 25 years with San Mateo County. Jeremy has worked in a wide variety of programs across the Department, including serving as a Pest Detection Specialist. For the past 12 years, he has served as a Deputy Agricultural Commissioner/Sealer. In this role, he oversees the Weights and Measures Program, as well as Certified Farmers' Markets, Pest Detection, and Organic programs. Jeremy holds a Biology B.A. from San Jose State.

# Commercial Electric Vehicle Chargers and County Weights & Measures Role

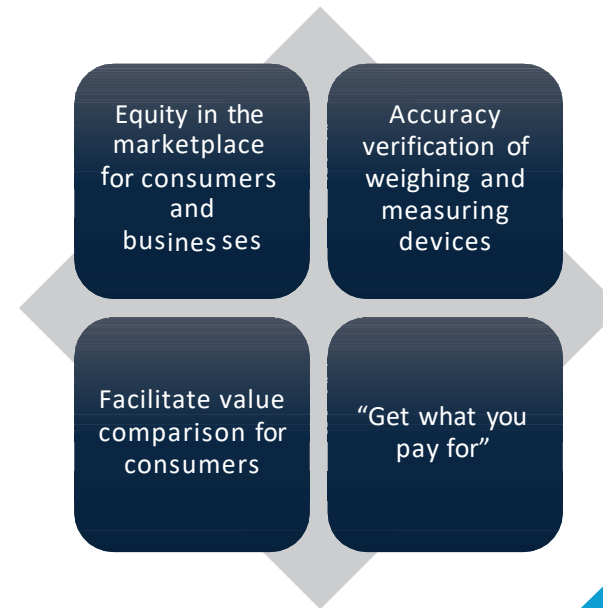


**COUNTY** OF  
**SAN MATEO**



## Role of Weights & Measures In Society

Weights and Measures staff inspect and seal **Commercial** weighing or measuring instruments used in commerce to determine the quantity of a product or service for sale or use to the public.



# California Legal Authority Weights and Measures

1

Business &  
Professions Code,  
Division 5

2

California Code of  
Regulations, Title  
4, Division 9

3

San Mateo County  
Code of Ordinance,  
Title 5, Chapter  
5.124



## Commercial Devices and Type Approval

- **Commercial Device**-any weighing or measuring instrument used to determine quantity for a monetary transaction.
    - **All Commercial Devices are required to be type approved.**
    - Non-commercial devices are not required to be registered/sealed by County Weights & Measures Departments.
  - **Type Approval**-the mandatory evaluation and certification of weighing and measuring devices used in commercial transactions. It ensures devices are accurate, appropriately designed, and compliant with California and United States standards (NIST Handbook 44) to prevent fraud.
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# Commercial Devices and Type Approval

Certificate Number: 5889(a)-24  
Page 1 of 11

## Check Type Approval Status Online:

- California Type Approval Evaluation Program (**CTEP**)  
CDFA-DMS
- National Type Approval Evaluation Program (**NTEP**)  
– National Council of Weights & Measures (NCWM)

### California Type Evaluation Program Certificate of Approval Weighing and Measuring Devices

<b>For:</b> Electric Vehicle Fueling Systems (EVFS) AC Only  Model: CT4000 Software Version: 4.6.0.73 or higher	<b>Submitted By:</b> ChargePoint, Inc. 240 East Hacienda Avenue Campbell, CA 95008 Tel: 408-841-4500 Contact: Gary Eldridge Email: gary.eldridge@chargepoint.com Website: <a href="https://www.chargepoint.com">https://www.chargepoint.com</a>
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Standard Features and Options	
<b>Standard Features:</b>	<ul style="list-style-type: none"><li>• Alternating Current (AC) system in kilowatt-hour (kWh)</li><li>• 0.0001 kWh registration display</li><li>• Minimum Measured Quantity (MMQ): 0.2 kWh</li><li>• Voltage Rating: 208/240 VAC (Volts Alternating Current)</li><li>• Maximum Current Deliverable (MDA): 30 A (Amperes)</li><li>• Electronic receipts</li><li>• RFID, application (app)-activated, 24-hour customer support with toll free number listed on EVSE for non-member authorization, mobile device (e.g. Apple Pay, and Android Pay)</li><li>• Cable management</li><li>• Network connection to cloud</li><li>• Continuous display for kWh consumption and price computing</li><li>• Non-resettable totalizer in kWh</li><li>• ChargePoint Printed Circuit Board (PCB) for metrological functions</li></ul>
<b>Options:</b>	<ul style="list-style-type: none"><li>• Pole mount, bollard mount, or wall mount.</li><li>• One or two port charging</li><li>• 23' or 18' charging cable lengths</li><li>• 8' or 6' cable management system</li><li>• Wi-Fi or Wi-Fi and cellular communications</li></ul>

This device was evaluated under the California Type Evaluation Program (CTEP) and was found to comply with the applicable requirements of California Code of Regulations for "Weighing and Measuring Devices." Evaluation results and device characteristics necessary for inspection and use in commerce are on the following pages.

Kevin Schnepf, Director  
Effective Date: June 24, 2024



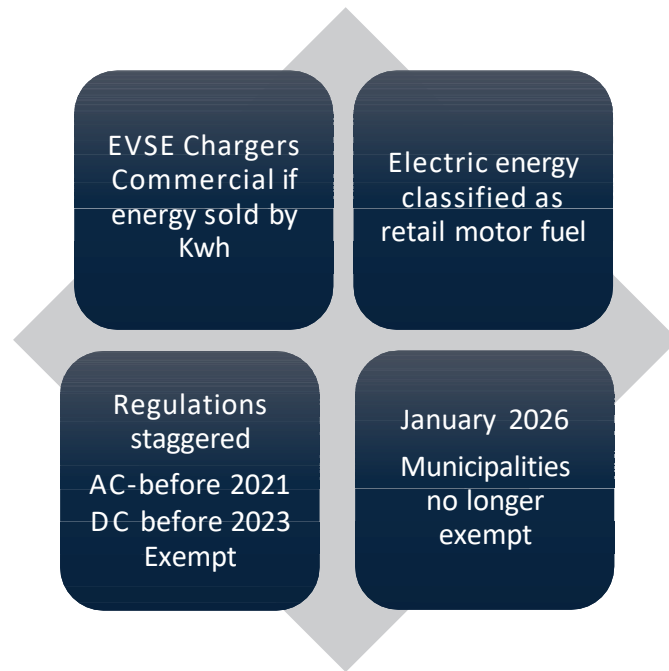
# Retail Meter Dispensers 100 years of Inspections



- We annually test gasoline & diesel dispensers-5-gallon provers standard to verify accuracy. **Dispensers must be Type Approved**
- When all tolerances and specifications are met, the meter is sealed.
- **Licensed Registered Service Agent(RSA) installs and repairs.**
- San Mateo County has 176 locations totaling 4,642 retail motor fuel meters.



# New Commercial Device Electric Vehicle Supply Equipment (EVSE) Chargers





# OVERVIEW OF EVSE REGULATIONS



EVSE = Electric Vehicle  
Supply Equipment



EVCS = Electric Vehicle  
Charging Station



Test commercial devices  
in CA



California adopts  
tolerances and  
specifications in NIST  
Handbook 44 with  
California-specific  
changes

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# OVERVIEW OF EVSE REGULATIONS

California Code of Regulations (CCR) Division 9	
Section 1.10 General Code	<ul style="list-style-type: none"><li>- Marking requirements</li><li>- Type Approval-Manufacturer, Model, Serial Number, Current Software Version</li><li>- Sealing provisions</li></ul>
Section 3.40 Electric Vehicle Fueling Systems	<ul style="list-style-type: none"><li>- All AC EVSE installed on or after Jan. 1, 2021 need to comply. If installed before 1/1/2021, need to comply by 1/1/2033</li><li>- All DC installed on or after Jan. 1, 2023 need to comply. If installed before 1/1/2021, need to comply by 1/1/2033</li></ul>

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## OVERVIEW OF EVSE REGULATIONS (CONT.)

### Marking Requirements

- Voltage rating, maximum current deliverable, type of current, minimum measured quantity (MMQ), temperature limits

### Tolerance

- AC: Acceptance  $\pm 1\%$ , Maintenance  $\pm 2\%$
- DC: Acceptance  $\pm 2.5\%$ , Maintenance  $\pm 5\%$
- DC will be  $1\%$  and  $2\%$  after Jan. 1, 2033

# Steps to install a commercial EVSE charger



Is EVSE charger use **Commercial or Non-Commercial?**



If Commercial -Select **type approved (NTEP/CTEP)** device



Go to Planning Department/other agencies to get Permits

Future(?) Checklist/Info provided about Weights & Measures Requirements Type Approval-RSAs-Device Registration prior to getting permit.



# Construction and Final Installation

Next steps:

## Registered Service Agent (RSA)

- calibrates, seals and sends placed in service report to local County Weights & Measures Department
- OK to sell electricity

## Owner of Device

- Registers device with local County Weights & Measures Department
- Pay Annual Device Registration Fee

\$120/Location + \$28.20 per EVSE\*

\* Confirm registration fees with local Weights & Measures



# County Weights and Measures Inspection of Commercial EVSE Charger

- Check type approval-markings
  - Tests EVSE charger for accuracy & specifications
  - If correct – Device Sealed
  - If incorrect Reg Tagged - owner informed
  - RSA repairs (can use EVSE charger) and sends notice of repair to Weights & Measures Department
  - Weights & Measures Department retests - seals if corrected
- 



# RSA RESPONSIBILITIES FOR EV TECHNICIANS



Placing a device into service

- Must be Type Approved
- Must be Correct
- Tag/label device
- Send Placed in Service Report



Install Security Seal (if applicable)



Maintain a certificate of accuracy for testing equipment (standards)



Possess a current copy of Division 9, Title 4 CCR, Field Reference Manual.

\*Labeling needs: Name, registration #, phone # of the Service Agency, License # of service agent, Date of service/job

\* Placed in-Service Report must be sent to Weights & Measures Sealer w/in 24 hrs.

# Common Violations

**Installation of Unapproved Device(not type approved)**

Non-compliant or inaccurate EVSE

**RSA**-Unable to show the certificate of accuracy for test standards

**RSA**-Failure to notify the county sealer

Charging by time instead of kWh

# Planning/Building Departments

## Information for new Commercial EVSE Installations

- 2015 EVCS Checklists Required AB 1236 AB 970
- Goal-Increase speed of EVSE charger installation
- Cities/Counties with Population over 200,000
- Weights & Measures regulatory information not currently included.
- Include in Checklists
- Information about Weights & Measures Type Approval if using commercially (not a box to check off)
- Define Commercial or Non- Commercial
- Info about websites to check for type approval
  - California CDFA-DMS-CTEP
  - US National Conference of Weights & Measures NCWM-NTEP



San Mateo County Agriculture/Weights &  
Measures

728 Heller St., Redwood City, CA 94063

(650) 363-4700

[www.smcgov.org/agwm](http://www.smcgov.org/agwm)

[SMateoAg@smcgov.org](mailto:SMateoAg@smcgov.org)

Jeremy Eide

Deputy Sealer

[jeide@smcgov.org](mailto:jeide@smcgov.org)

# Meet our Panelists

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**Mal Skowron** is a trained engineer and clean energy policy professional specializing in EV charging infrastructure. She has expertise in regulatory policy at the state level, technical standards, legal metrology, and market-enabling policy across North America. Her work focuses on policies accelerate the buildout of EV charging infrastructure, including EV ready building codes, electrical codes, permitting, utility energization, and clean fuel credit programs. *[Note: Mal's slides are not shared. Please view the recording.]*

# Q&A and Discussion

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**Time to direct questions to our panelists. Raise your hand or use the Zoom features.**

**Audience: you are welcome to share your own experience with Weights & Measures or EV charger deployment**



**Acterra**

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# **Thank You to All Our Panelists!**

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## **Next: Survey Results from December**



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# **EV Council Survey questions**

**Q1: Organization**

**Q2: What do you value?**

**Q3: Funding models**

**Q4: Activities / priorities**

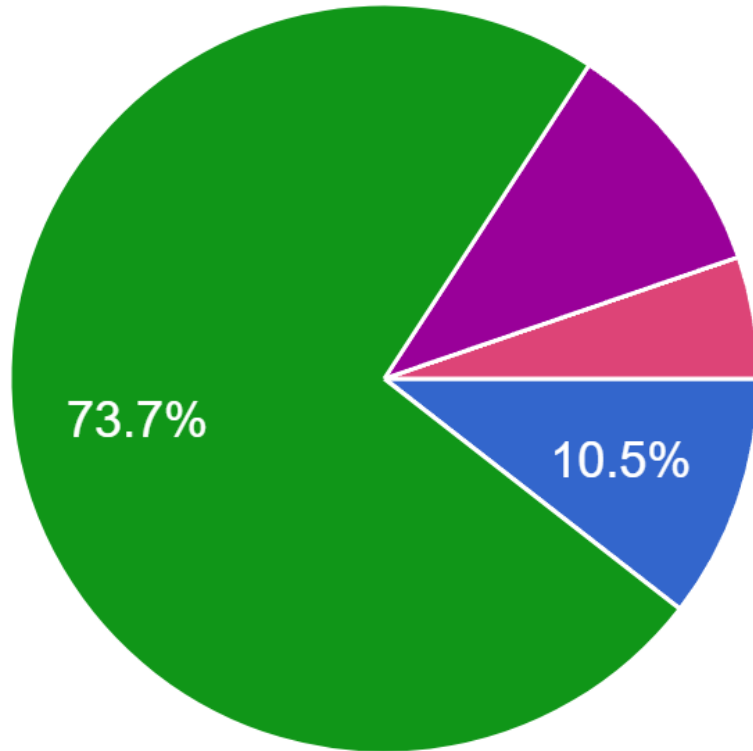


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# Q1: Organization

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- Small business (1-50 employees)
- Medium business (51-250 employees)
- Large corporation (250+ employees)
- Government/Public sector/Agency
- Nonprofit organization
- Academic institution
- Self-employed/Freelance/Individual



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# Q2: What do you value most?

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## *Top 3 responses*

- 1. Industry updates + information (90%)**
- 2. Bay Area community connection (79%)**
- 3. Networking opportunities (53%)**

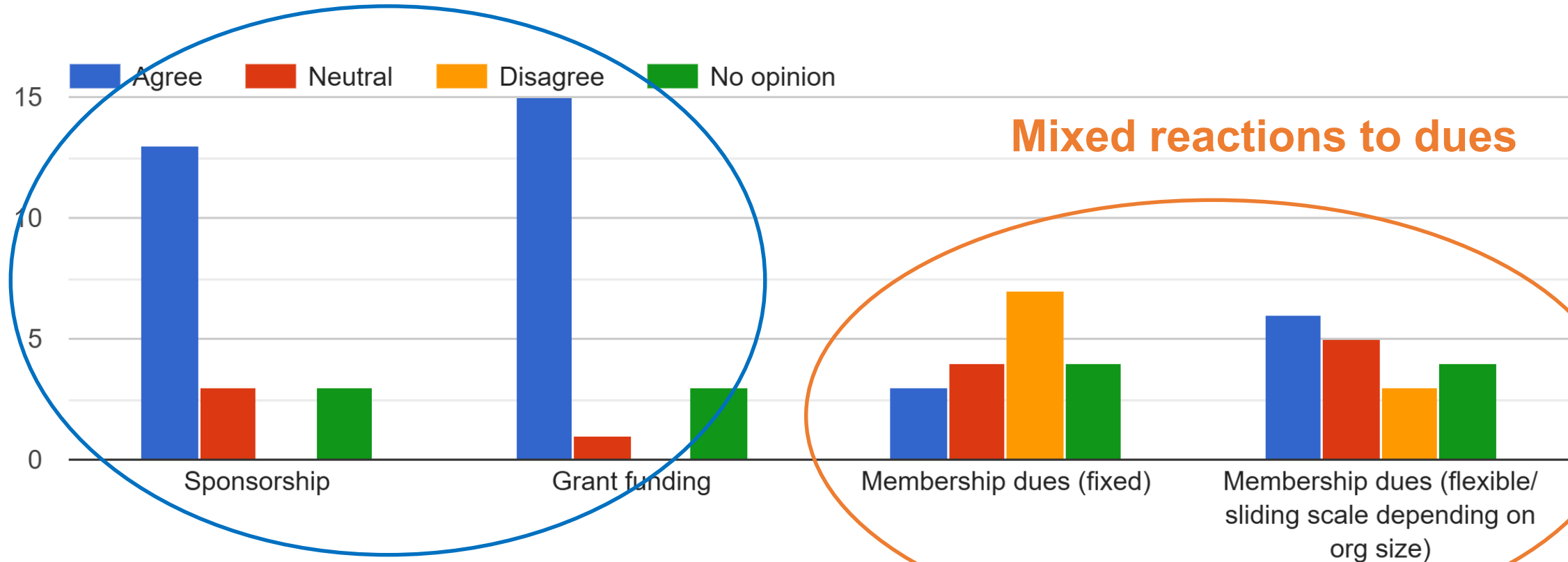


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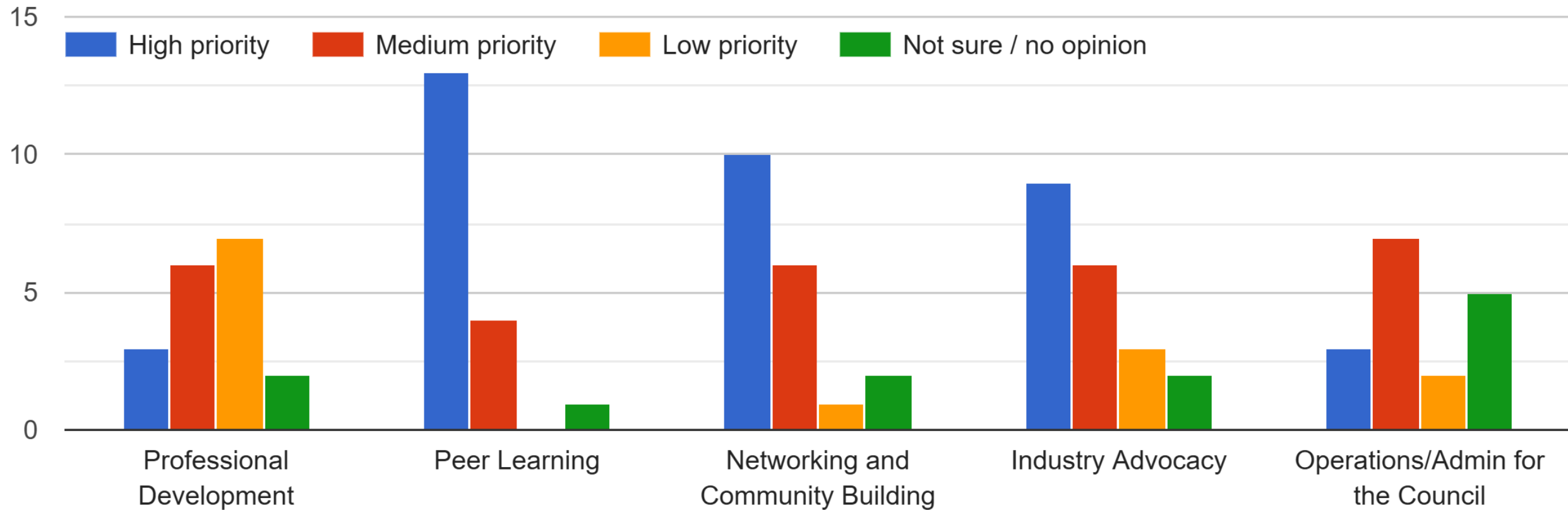
# Q3: Funding sources

Strong, consistent support for sponsorship / grants



Mixed reactions to dues

# Q4: Activities / Priorities



# Next EV Council Meeting

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- Tentative: June 2026
- Likely in-person
- Email meeting topic suggestions or questions to [ev.council@acterra.org](mailto:ev.council@acterra.org)



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