Community Curbside Electric Vehicle Charging Webinar

April 17, 2024

We will start by 5:35pm
Agenda

• Introductions
• Background
• Study Overview
• Questions
• Conclusion
Webinar Logistics

CHAT IS FOR:

• Questions
• Comments
• Instructions & prompts from us
• Sharing Resources
Our Vision for San Francisco
Meet the Team

Maya Price (she/her)
Transportation Planner

Casey Leedom (she/her)
Transportation Planner

Tim Doherty (he/him)
Senior Planner

Nicole Appenzeller (she/her)
Sr. Clean Transportation Specialist

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Clean Transportation Program Manager

ARUP

Consultant
Transportation Climate Work at the City

Examples

• Low-emission taxis
• Bus electrification
• Paratransit
• E-bike food delivery pilot
• Commuter benefits
• Emergency Ride Home & more!

Source: Photo by Jeremy Menzies, SFMTA

Source: SFE Staff
Climate Action Plan Goals

Where vehicle use is necessary, accelerate the adoption of zero-emissions vehicles and other electric mobility options

2030

80% of trips taken by low-carbon modes
25% of registered private vehicles are EVs

2040

Net-zero emissions
100% of registered private vehicles are EVs
Public Charging Demand

We are here.
(958 public chargers citywide as of April 2024)

We need to get here.
(1,760 public chargers citywide)

Source: ICCT Charging Demand Study, 2020
Curbside Charging is a Piece of the Puzzle

- Charging in City-Owned Garages
- Public Charging
- Fleet Charging
- Home Charging
- Workplace Charging
- Curbside Charging

Source: Microsoft Stock Photo, Template: www.presentationmagazine.com
Challenge to Solve

70% of residents live in multi-dwelling units and likely lack access to dedicated overnight parking and charging.

Source: Photo by Kimson Doan on Unsplash
What is Curbside Charging?

Curbside charging refers to charging on the side of a road or sidewalk.

They can be sited near homes, apartment buildings, stores, and commercial buildings.

Curbside charging can come in many different forms.

Source: Adobe Stock
Curbside Feasibility Study Vision

Near-Term Vision

• Ensure equitable access to EV charging options
• Pilot framework recommendations
• Strategy for implementation of second phase of project

Long-Term Vision

• Reduce transportation emissions by expanding electric vehicle charging network while also continuing to encourage transit, walking, biking, and rolling
• Making EV ownership feasible and practical for all who need to drive
• Develop a citywide network of EV chargers
Curbside Feasibility Study Scope

- **Evaluate** the feasibility of installing, operating, and maintaining public curbside charging in San Francisco

- **Research** various technology options, business models, access guidelines, and enforcement mechanisms

- **Develop a framework** for a curbside charging pilot program that can be implemented shortly after the conclusion of the study

- **Engage** with key City departments, industry, and community to establish the pilot framework.

- **Identify funding** needed to implement a pilot program
Curbside Feasibility Study Topics

- Technology Options
- Operational Models
- Grid Capacity
- Equity Analysis
- Enforcement
- Accessibility
- Pricing
- Permitting
- Site Suitability
- User Experience

Source: Adobe Stock
Curbside Charging Timeline

- **Dec 2021**
  - Climate Action Plan Released
  - Public Curbside Charging Survey Complete

- **Nov 2022**
  - Charging Cost-Benefit Analysis Starts

- **Oct 2023**
  - Cost-Benefit Analysis Complete
  - Curbside Feasibility Study Approved

- **Nov 2023**
  - Curbside Feasibility Study Approved

- **March 2024**
  - Curbside Resolution Proposed

- **Summer 2024**
  - Study & Pilot Framework Complete
  - Identify Funding for Pilot
City Case Studies

New York City
- 100 Level 2 curbside chargers distributed across all five boroughs
- Prioritized equitable access for residents and for-hire drivers

Seattle
- 58 Level 2 chargers installed at 31 locations
- Used equity metrics to guide site selection
- Currently evaluating their program

Los Angeles
- 700+ streetlight Level 2 chargers
- 200 BlueLA chargers (low-income EV carshare program)
- Selected sites near multifamily dwellings and commercial uses

Source: NYC DOT
Source: Seattle City Light
Source: Emmett Werthmann (WRI)
Industry Engagement

Industry Interviews
Learn about available offerings and experiences with curbside in other cities

Industry Feedback Forms
Collect general input from all charging vendors to identify opportunities and challenges

Source: Photo by Ernest Ojeh on Unsplash
Community Engagement

Community Webinar
Introduce study to community members and businesses

Community Feedback Forms
Collect input from community members to identify preferences and potential challenges

Future Engagement
Share pilot framework and proposed sites

Source: SFE Staff
Clarifying Questions Before Feedback Session

Please use the raise hand feature or put your comment in the chat.
Feedback Session – Share Your Input

What are one or two elements of a successful curbside charging pilot?

What concerns do you have about a curbside EV charging pilot?

Where would you like to see curbside charging (residential, commercial, libraries, parks etc.)?

Please use the raise hand feature or put your comment in the chat.
Feedback Session – Any other considerations or feedback that you would like to share?

Please use the raise hand feature or put your comment in the chat.
Stay Engaged

• Provide your input using our **Community Feedback Form**

• Webinar presentation and recording will be emailed and posted to website

• Visit [SFMTA.com/EVCurbside](http://SFMTA.com/EVCurbside) for all project resources

• Questions? Contact us at [EVCurbside@sfmta.com](mailto:EVCurbside@sfmta.com)
Thank You!

Please reach out to us if you have questions and visit our website to stay up to date!

SFMTA.com/EVCurbside

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