



SAN FRANCISCO
ENVIRONMENT
DEPARTMENT

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



Photo by yujeong Huh on Unsplash

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



Henna Trewn
(she/her)
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: SFE Staff



Source: Photo by Jeremy Menzies, SFMTA

Climate Action Plan Goals

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

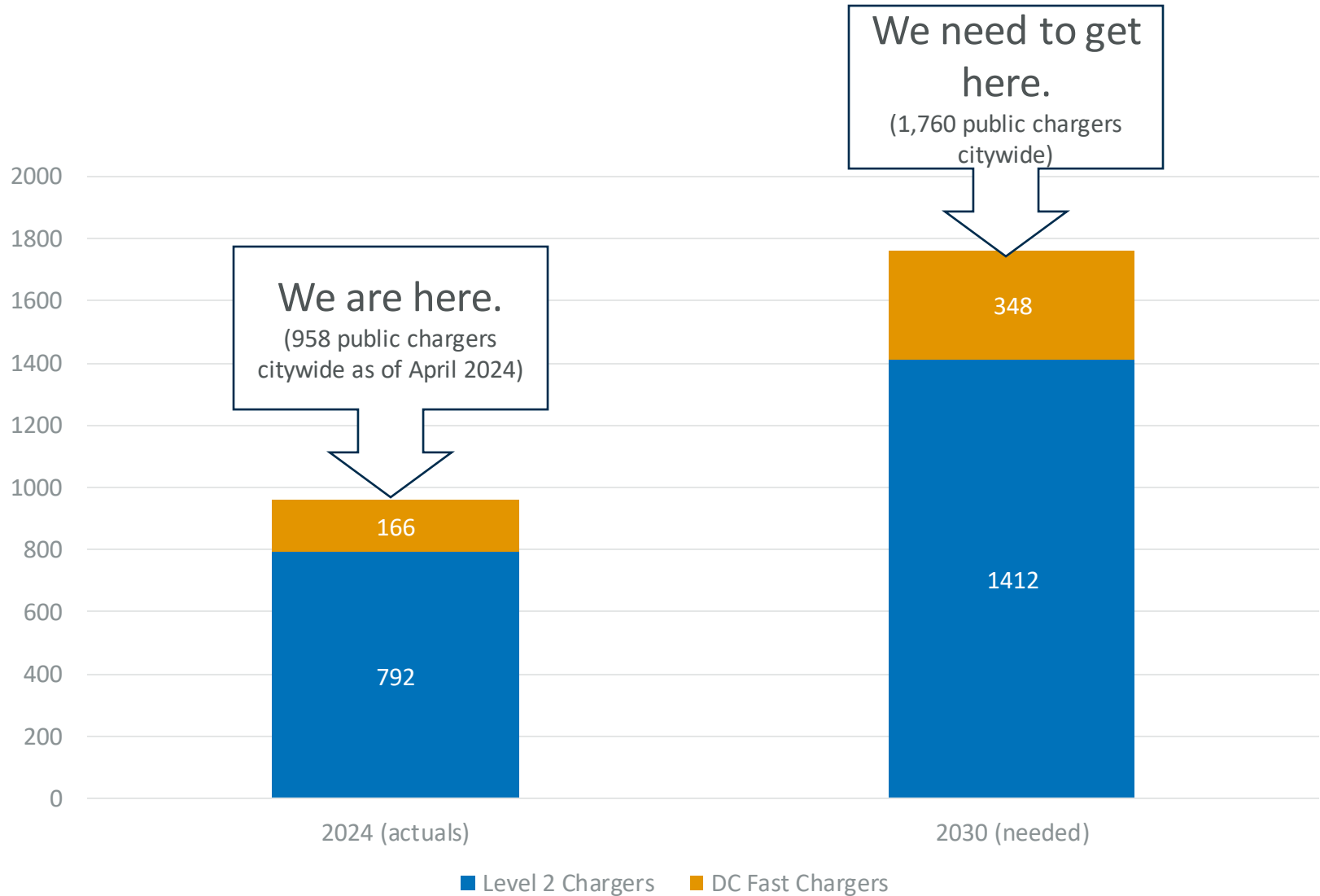
2030

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

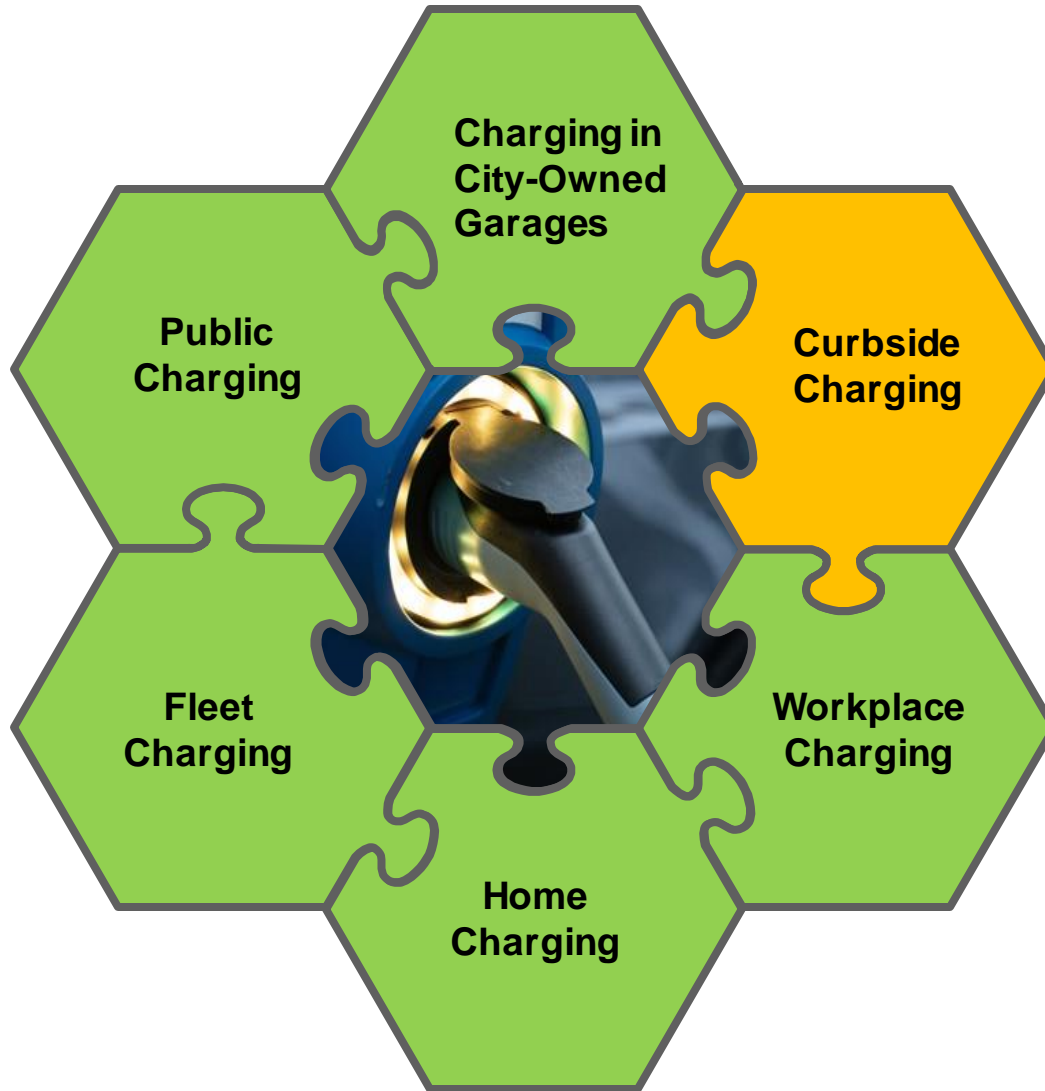
2040

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

Public Charging Demand



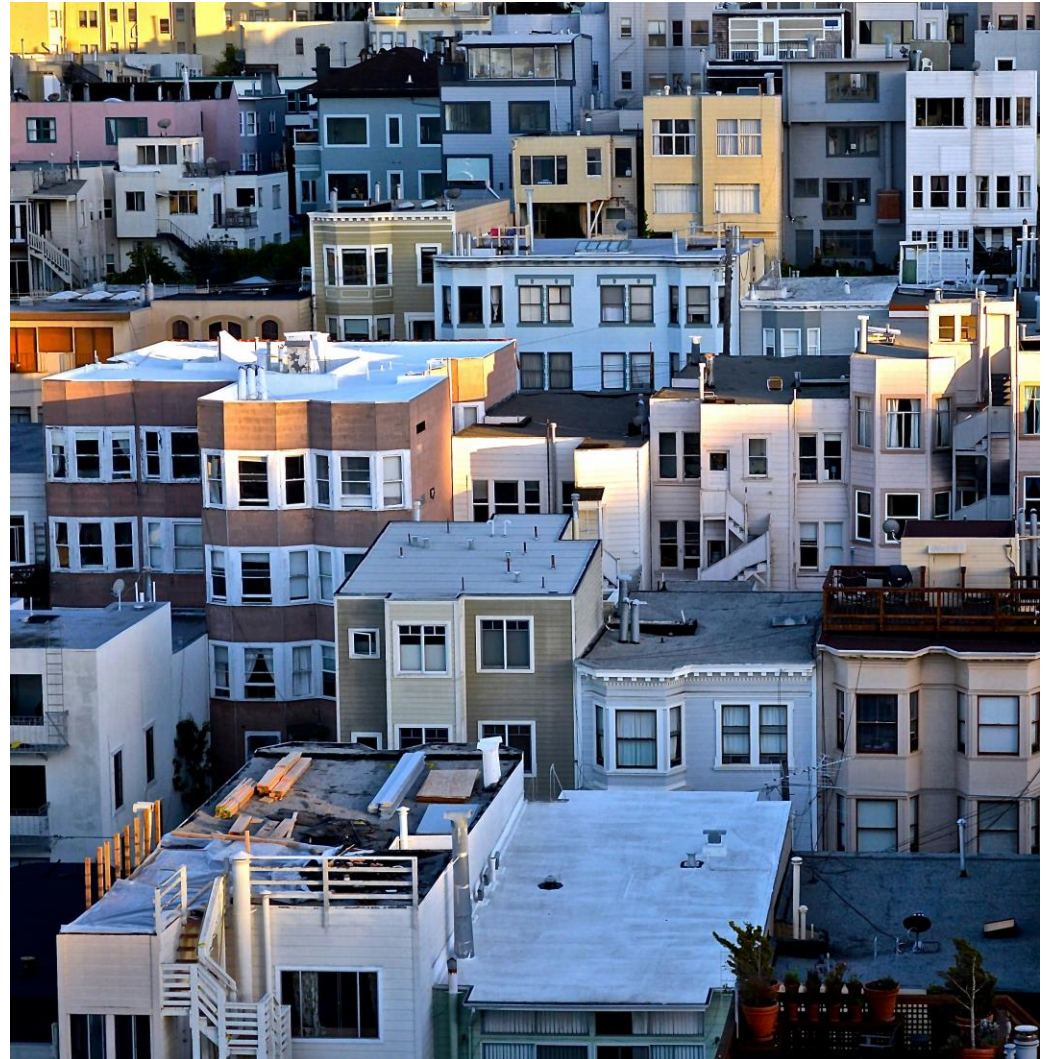
Curbside Charging is a Piece of the Puzzle



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?



Source: Adobe Stock

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.

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

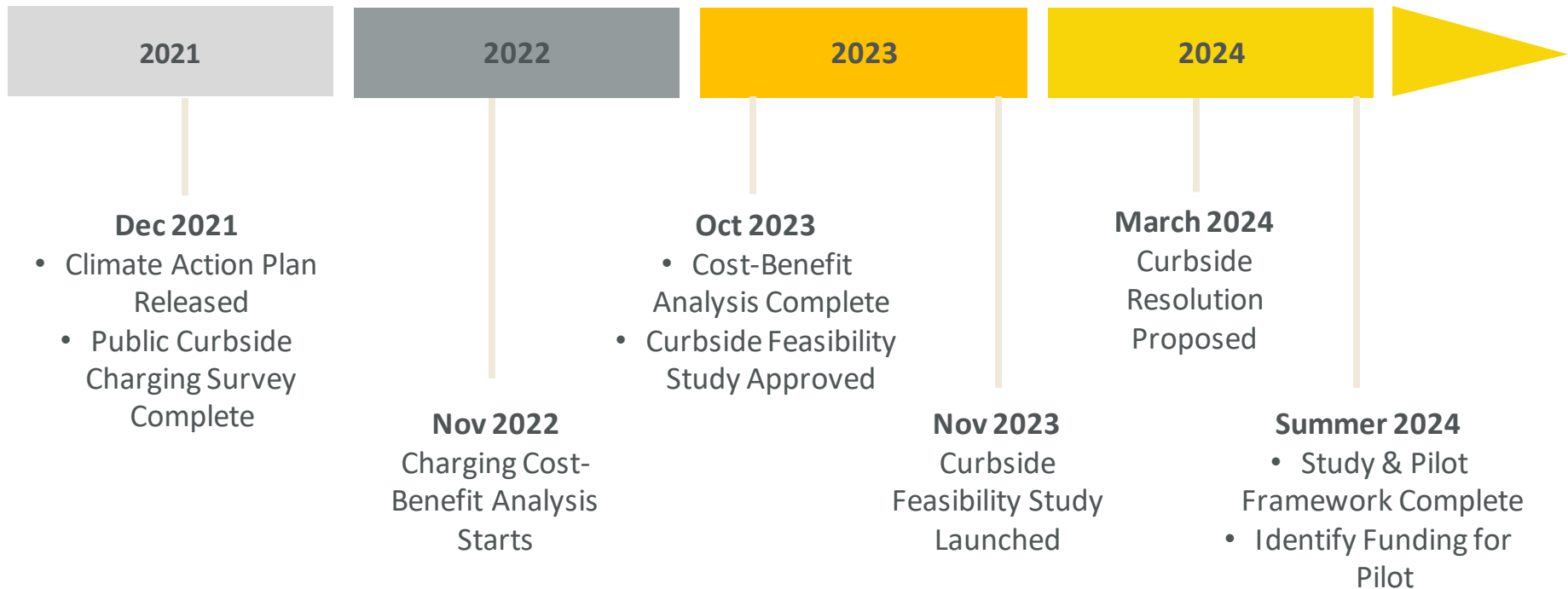
Site Suitability

User Experience



Source: Adobe Stock

Curbside Charging Timeline



City Case Studies



Source: NYC DOT

New York City

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



Source: Seattle City Light

Seattle

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



Source: Emmett Werthmann (WRI)

Los Angeles

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

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



Source: SFE Staff

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

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](https://www.sfmta.com/EVCurbside) for all project resources
- Questions? Contact us at EVCurbside@sfmta.com

Thank You!

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

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