



**DRAFT MINUTES  
MINUTES OF THE REGULAR MEETING OF THE  
SUSTAINABILITY COMMISSION**

**July 18, 2024**

**Draft Minutes**

The meeting was called to order at 4:00 p.m.

**ROLL CALL:**

Present: Alexander Fung, Susan Hansen (VC), Sonali Padgaonkar (C), Steve Poon, Conny Yang

Absent: None

Staff: Victoria Morin, Staff Liaison, Sustainability Specialist

Others Present: Susan Michael, Capitol Improvements Manager, Ursula Syrova, Environmental Programs and Sustainability Manager

**APPROVAL OF MINUTES**

**1. April 18, 2024 Sustainability Commission Minutes**

**MOTION:** Vice Chair Hansen moved, seconded by Commissioner Fung to approve the minutes as presented.

**MOTION PASSED:** 4-0, Yang Absent

**POSTPONEMENTS**

No Postponements

**ORAL COMMUNICATIONS**

None

**WRITTEN COMMUNICATIONS**

None

**STAFF AND COMMISSION REPORTS**

**OLD BUSINESS**

## **NEW BUSINESS**

### **2. New Construction Building Reach Code Alternatives**

Commissioner Yang arrived at 4:11 p.m.

**MOTION:** Vice Chair Hansen moved, seconded by Commissioner Fung to recommend to the City Council that the Sustainability Commission take the following actions:

- 1) Recommended that the City of Cupertino replace its current electrification Reach Code to enhance electrification in alignment with Climate Action Plan goals.

**MOTION PASSED:** 5-0

### **3. Youth Engagement about the Climate Action Plan**

NO ACTION TAKEN

### **4. Zero-emission Vehicles and Chargers, Municipal Plan to Electrify the Fleet**

NO ACTION TAKEN

## **FUTURE AGENDA SETTING**

## **ADJOURNMENT**

Meeting adjourned at 5:20 p.m.

## **SUBMITTED BY:**

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Victoria Morin, Staff Liaison

Note: Any attachments can be found on the Cupertino Website

<https://www.cupertino.org/our-city/agendas-minutes>

# Sustainability Commission

July 18, 2024, 4:00 pm

10185 N Stelling Rd, Quinlan Community Center,  
Conference Room



CUPERTINO

## 2. New Construction Building Reach Code Alternatives



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# Background

December 2019, Cupertino adopted its Reach Code

Appliance	2022 State Code	2022 Cupertino Reach Code
Water Heating	Gas or Electric	Electric Required (All Buildings)
Space Heating	Encourages Electric	Electric Required (All Buildings)
Cooking	Gas or Electric	Electric with Exemptions
Outdoor kitchens and fireplaces	N/A	Electric Required
Clothing Drying	Gas or Electric	Electric with Exemptions

## Background

- California Restaurant Association v. City of Berkeley decision found gas bans were pre-empted by the federal Energy Policy and Conservation Act (EPCA).
- Cupertino suspended enforcement of the electrification requirements of the Reach Code on May 15, 2024.
- City still intends to pursue electrification - researching options to consider moving forward.

# Alternatives for Consideration

Option	Pros	Cons
<b>Repeal existing reach code</b>	<ul style="list-style-type: none"><li>• Avoids legal risk</li></ul>	<ul style="list-style-type: none"><li>• Allows for continued use of natural gas, contributing to greenhouse gas emissions and poor air quality.</li></ul>
<b>Energy Performance Code</b>	<ul style="list-style-type: none"><li>• Uses established processes through Title 24 of the California Building Standards Code.</li></ul>	<ul style="list-style-type: none"><li>• Requires additional resources and adds complexity during implementation.</li><li>• Doesn't address stoves, dryers, fireplaces, pool heating, etc. Only addresses space and water heating.</li><li>• Doesn't prohibit new gas infrastructure.</li></ul>
<b>Air Quality</b>	<ul style="list-style-type: none"><li>• Covers any appliance that uses gas and emits NOx.</li><li>• Simple to enforce and conforms with BAAQMD regulations.</li></ul>	<ul style="list-style-type: none"><li>• Novel approach.</li><li>• Doesn't prohibit new gas infrastructure.</li></ul>

## Discuss and Vote

- Staff recommend that the City of Cupertino replace its current electrification Reach Code for new construction with an alternative regulatory approach.
- From the letter to the CA Restaurant Association:  
“...City staff will promptly bring an ordinance to the City Council for consideration that advances the City’s adopted policy of pursuing building electrification.”



# 3. Sustainable Youth Engagement



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# Upcoming Cupertino Events

Event name	Date
Sr Center Open House	August 23, 10:30 am to 1 pm
Fall Festival	September 14, 10 am to 5 pm
Bike Festival	September 28, 9 am to 1pm
Diwali Festival	October 12, 11 am to 6 pm
Public Safety Forum	October 17, time tbd
Teen Job/Volunteer fair	March
Big Bunny	March
Earth Day Fest	April
Cherry Blossom	April
Health Expo (senior center)	May

## Discussion Prompts

- Do you know of other events you would want to add to this list or prioritize?
- How many events do you want to commit to per year?
- Which events do you want to commit to?

## 4. ZEV and Chargers, Municipal Plan to Electrify



CUPERTINO

# CA's Advanced Clean Fleet Regulation

- The Advanced Clean Fleets Regulation requires State and Local Governments:
  - Starting 2024, 50% of medium and heavy-duty truck, van, and bus purchases must be ZEV
  - Starting 2027, 100% of medium and heavy-duty truck, van, and bus purchases must be ZEV

## Why do we need the ACF regulation?

The primary goal of the ACF regulation is to accelerate the market for zero-emission trucks, vans, and buses by requiring fleets that are well suited for electrification, to transition to ZEVs where feasible. The Board *directed* CARB staff to ensure that fleets, businesses, and public entities that own or direct the operation of medium- and heavy-duty vehicles in California purchase and operate ZEVs to achieve a smooth transition to ZEV fleets by 2045 everywhere feasible, specifically to reach:

- 100 percent zero-emission drayage trucks, last mile delivery, and government fleets by 2035
- 100 percent zero-emission refuse trucks and local buses by 2040
- 100 percent zero-emission capable utility fleets by 2040

Achieving these and other milestones would also contribute to meeting the goals in the *Governor's Executive Order N-79-20*.

# Cupertino's Compliance

- **106 on-road vehicles** in the City's fleet.
- 3 are currently ZEV
- Fleet electrification will require the installation of **18 new charging ports in 2025** and **36 total new ports in phase 2**.

# Timeline for Cupertino

	2024	2025	2026	2027	2028
Cumulative # of Vehicles Deployed:	5 x Medium-Duty Pickup	10 x Medium-Duty Pickup	13 x Medium-Duty Pickup, 1 x Medium-Duty Van	18 x Medium-Duty Pickup, 1 x Medium-Duty Van	23 x Medium-Duty Pickup, 2 x Medium-Duty Van
MT of CO2e reduced*	29.17	54.1	86.8	116.6	157.58



Total saved after 5  
years  
444.36 MT CO2e

\*miles driven per year X \*average gas mileage x emissions factor (0.0013)

# Potential Charger Locations (Service Center)



- Existing charger
- Phase 1 chargers
- Phase 2 chargers



# Charger types

•TELLUS POWER GREEN PEDESTAL / WALLMOUNT AC CHARGER

7.2kW - 14.4kW Models—



**MAXICHARGER  
ACULTRA**  
19.2kW\*2



**MAXICHARGER™  
DC FAST 60KW-240KW** WITH 20KW INCREMENTS  
SPECIFICATIONS



**Terra DC fast chargers**  
Terra 124/184 UL

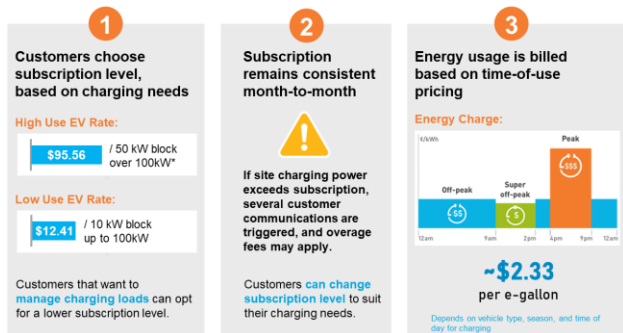


	Charger type 1	Charger Type 2	Charger Type 3	Charger Type 4
Charger Make:	Tellus Power	Autel	Autel	ABB
Charger Power Level:	2 (7.2 kW)	2 (19.2 kW)	3 (60 kW)	3 (180 kW)
Total Charger Quantity:	2	20	1	1
Total Charging Equipment Load:	28.8	768	60	180

# Charger Cost

	Phase 1	Phase 2
LEVEL 2 – 7.2 kW	\$88,000	\$0
LEVEL 2 – 19.2 kW	\$440,000	\$416,000
DC FAST 60 kW	\$96,000	\$0
DC FAST 180 kW	\$0	\$171,000
MOBILIZATION	\$6,000	\$6,000
MAKE-READY	\$132,000	\$0
PG&E EV FLEETS INCENTIVE	- \$100,000	\$0
<b>TOTAL</b>	<b>\$662,000</b>	<b>\$594,000</b>

# Cost Savings



Maintenance Savings



Inflation Reduction Act Credit

# Summary

- Cupertino plans to be compliance with the ACF state regulation
- Next steps:
  - PG&E review/approval
  - Public Bid
  - Funding
  - Installation
  - PG&E connecting to grid