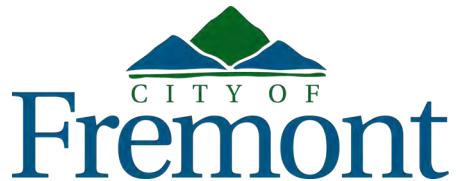




Climate Action Plan Update 2021

*Climate Talks - Day 2
Land Use & Transportation*



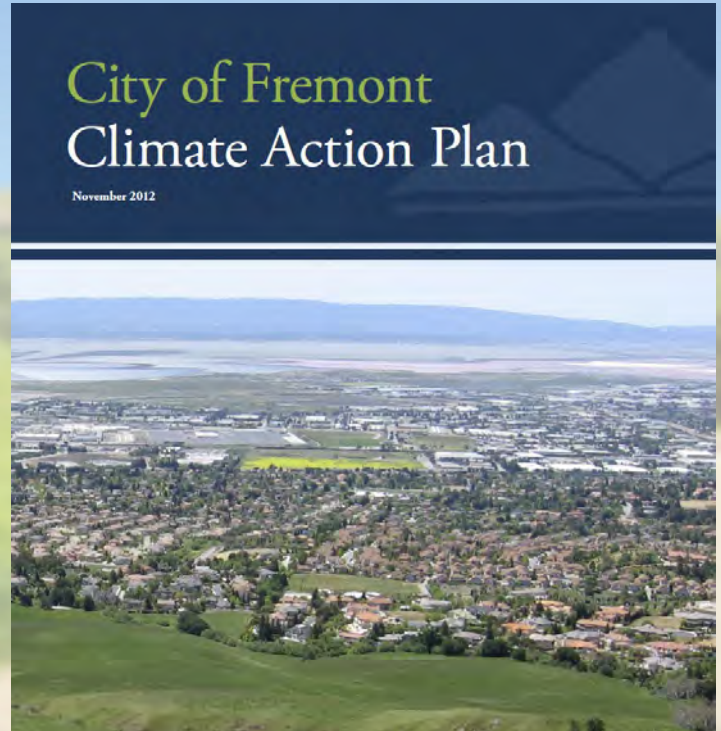
Agenda

Introductions and CAP Process Update	20 minutes
Brief Remarks from Panelists	10 minutes
Questions from the Chat	5 minutes
Community Discussion	20 minutes
Consider.it Platform Overview and Closing Remarks	5 minutes

- Please be respectful during the discussion.
- Chat box: Voice your questions, concerns, and ideas in the chat box. We ask that you stay on topic and try to be concise.
- **If you would like to speak during the discussion, click “Raise Hand” on bottom of Zoom interface or *9 for phone callers.**

Introduction to the Climate Action Plan

- Roadmap for specific activities a city will undertake to reduce greenhouse gas emissions.
- Fremont's 1st CAP adopted in 2012
- CAP 1.0 goal of 25% GHG emissions reduction by 2020
- Now that it's 2021, time to update!



2019 Carbon Neutrality Resolution Sets the Stage for CAP Update



By or before 2045

➤ Carbon Neutral City
2030 interim target

➤ 55% emissions
reduction

2045 forward

- “Post-Carbon Community
Framework”
- ✓ 4 Overarching Values
 - ✓ 7 Key Strategies

Post-Carbon Framework Values



**Equity &
Access**



**Efficiency &
Innovation**



**Health &
Wellness**



**Resiliency &
Capacity-Building**

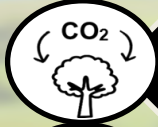
Post-Carbon Framework Strategies



Clean & Renewable Power



Electrification & Fossil Fuel Phase-Out



Carbon Sequestration



Mobility & Connectivity



Resource Conservation & Elimination of Waste

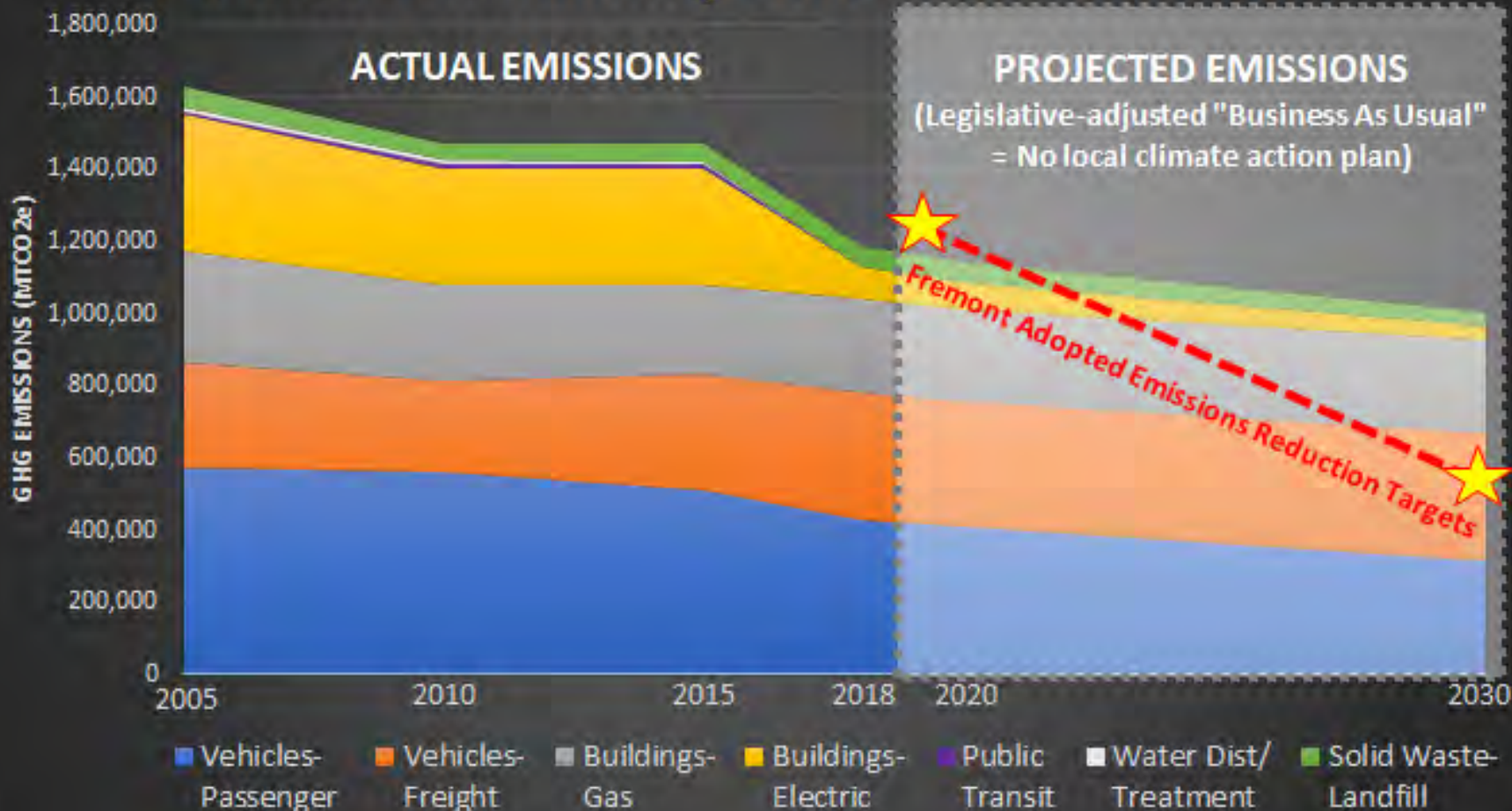


Restorative Ecology & Green Infrastructure



Climate Adaptation & Resilience

Fremont Community-Wide GHG Emissions



Closing the Gap through Local Action

- local ordinances
- city building and zoning codes
- incentive and recognition programs
- infrastructure and upgrades
- regional collaboration
- state and federal policy advocacy
- funding mechanisms



Collaboration is Key

Local Government



Partner Public Agencies

Community Members

Community Outreach

- **Virtual Community Workshops**

- Workshop #1: Visioning a Sustainable Future (Sept 22)
- Workshop #2: CAP Climate Talks Week (Feb 1-5)
- Workshop #3: Resilience, Equity, & Community Connections

- **Outreach to key community sectors**

- Youth, Seniors, Environmental Organizations, Faith-Based & Cultural Organizations, Neighborhood Associations, Small Business, Industry, Energy Utilities, etc.

- **Online polling/surveying: www.Fremont.gov/CAPConsiderIt**

Consider.it Community Forum

Fremont.gov/CAPConsiderIt

- Open through mid-Feb
- Participants can comment, add CAP measure ideas, and respond to others
- Can adjust view to see opinion of various stakeholder groups

Land Use & Mobility

sort by [trending](#)

Opinions

show opinion of: [everyone](#)



Support low-carbon development

Adopt land use policies and regulations that require high efficiency/low carbon (low to no emissions) design, increase density, and reduce vehicle miles traveled.

Added: 12/10/2020 | 6 considerations | [add a consideration](#)



Disagree



Agree



Reduce employee commutes

Encourage employers to reduce employee commutes through ride sharing, flexible work schedules, work from home options, transit subsidies, and other traffic congestion reduction measures.

Added: 12/10/2020 | 3 considerations | [add a consideration](#)



Disagree



Agree



Install EV charging infrastructure

Adopt building codes to require the installation of EV charging infrastructure in new construction; partner with utilities and other public agencies to incentivize EV charging at existing public facilities, office spaces, retail centers, multi-unit dwellings, and other publicly accessible properties.

Added: 12/10/2020 | 10 considerations | [add a consideration](#)

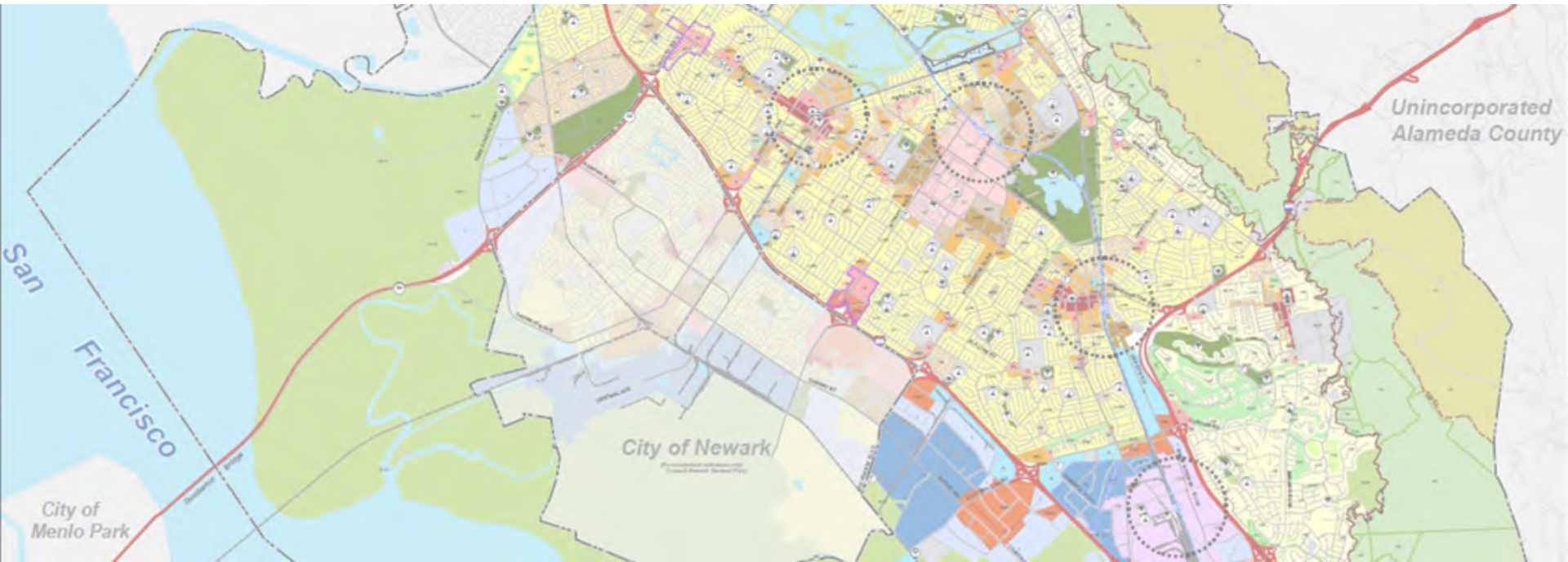


Disagree

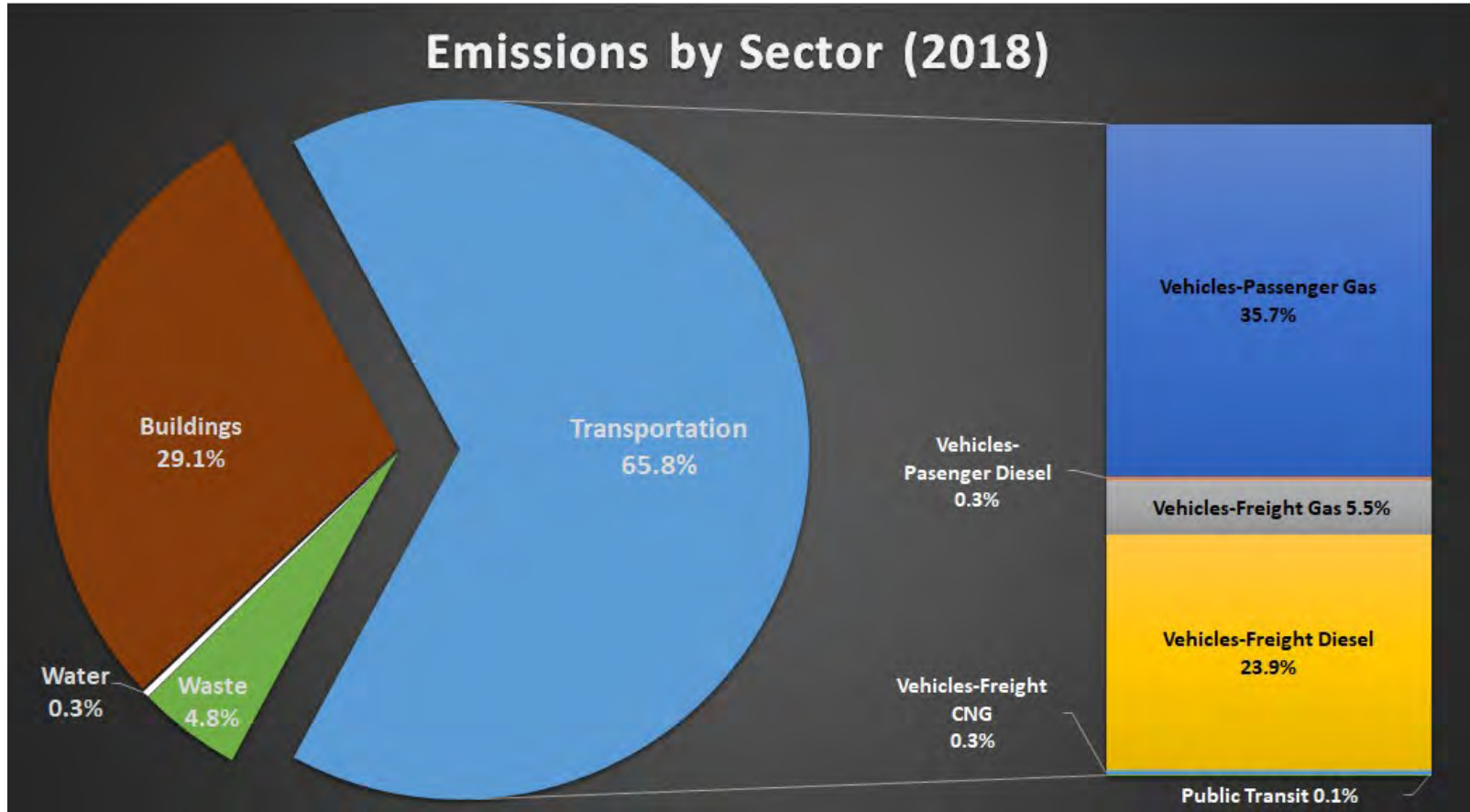


Agree

Climate Talks Day 2: Land Use and Transportation



Transportation = 66% of Fremont's GHG Emissions



Getting to Zero Emissions in Land Use & Transportation

Higher Density, Transit-Oriented Development

- Reduced dependence on automobiles
- Increased efficiency; affordable housing

Modernized, Accessible Public Transit

- Improved low-carbon commute options

Active Transportation & Micro-Mobility

- Walking, [electric] biking/scooters, etc.

Carsharing/Ridesharing (post-pandemic)

Clean [& Automated] Vehicles

- BEV/FCEV passenger & freight vehicles

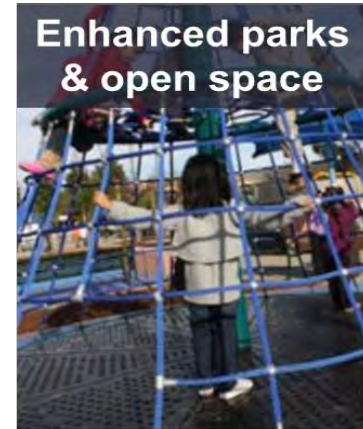
Teleworking & Telecommuting (during & post-pandemic)



Land Use & Sustainability

1. Fremont General Plan
1. Plan Bay Area 2050—Transportation, Housing, Economics, and the Environment
1. 2023-2031 Regional Housing Needs Allocation (RHNA)
1. Protecting the Environment

The General Plan



Plan Bay Area 2050

What is Plan Bay Area 2050?

- Joint initiative between ABAG and MTC
- Regional plan required to be prepared every four years
- Links long range transportation and land use planning
- Strategies provide a “blueprint” for how the region can accommodate forecasted growth while also achieving the region’s greenhouse gas (GHG) reduction targets.
- Pinpoints the policies and investments necessary to create a more **affordable, connected, diverse, healthy, and vibrant** Bay Area



Plan Bay Area 2050



- **Transportation** Strategies
- **Housing** Geographies & Strategies
- **Economic** Geographies & Strategies
- **Environmental** Strategies

Plan Bay Area 2050

Transportation Objectives



**Maintain and
Optimize the
Existing System**



**Create Healthy and
Safe Streets**



**Build a Next-
Generation Transit
Network**

Plan Bay Area 2050

Housing Objectives

- Plan for 1.3 million new households across all income levels
- Spur Housing Production and Create Inclusive Communities
- Protect, Preserve, and Produce More Affordable Housing



Plan Bay Area 2050

Transportation Strategies

Programs and Strategies	Investment (\$B)
Restore, Operate and Maintain Existing System - Roads and Transit	\$390
Modernize and Enhance Transit Network - Local Transit, Regional Rail, Express Lanes/Buses - Seamless Mobility Experience - Reform Region Fare Policy	\$134
Improve Interchanges and Address Highway Bottlenecks	\$11
Implement Per-Mile Tolling on Congested Freeways	
Build a Complete Streets Network - 10,000 miles of bikeways	\$13
Advance Regional Vision Zero Traffic Safety Policy - Automated Speed Enforcement; 55 MPH on Freeways	

Plan Bay Area 2050

Fremont Area Transportation Projects

Regional Priorities (MTC)

- Irvington BART Station
- Decoto Road Multimodal Corridor
- Fremont Blvd Multimodal Corridor
- SR 262 Upgrade (long-term)
- Regional Rail: BART, AC Transit, ACE, Capitol Corridor, Valley Link, Dumbarton Transit (long-term), New TransBay Crossing (long-term)

County Priorities (ACTC)

- SR 262 Upgrade Planning/Design (near-term)
- I-680 Interchange Modernization
- Bike/Ped Bridges and Trails (880/Innovation, 680/Sabercat, East Bay Greenway, Dumbarton to Quarry Lakes, Niles Canyon, Bay Trail)

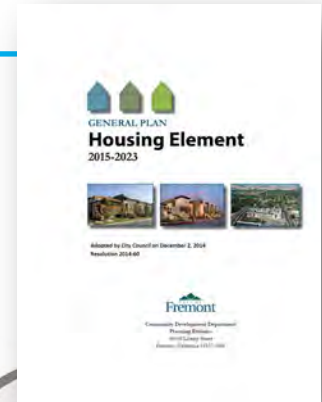
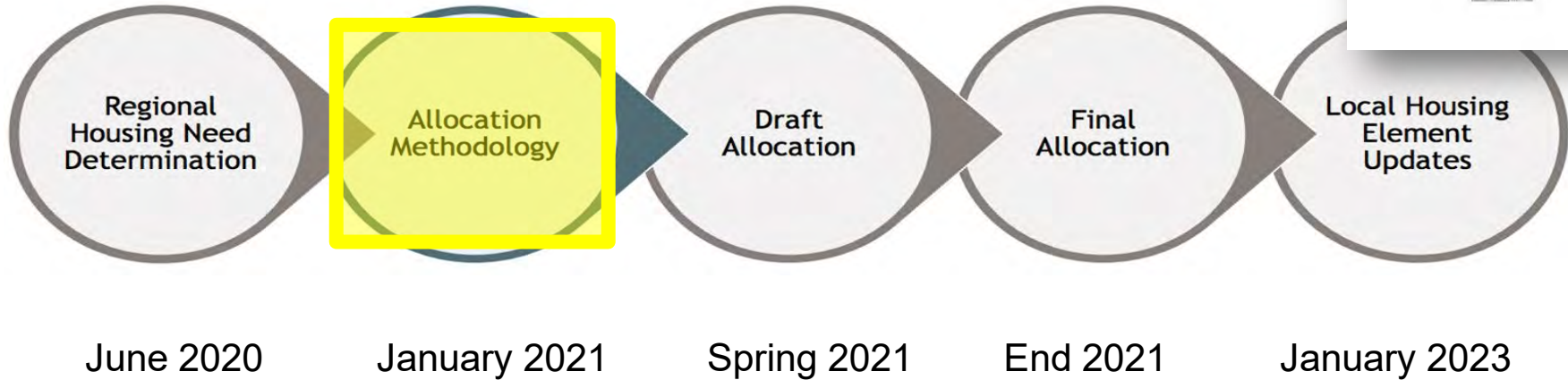


Plan Bay Area 2050

Housing Strategies

Programs and Strategies	Investment (\$B)
Further Strengthen Renter Protections	\$2
Preserve Existing Affordable Housing	\$237
Build Affordable Housing	\$219
Provide Mortgage and Rental Assistance	\$10
Transform Aging Malls and Office Parks into Neighborhoods	
Accelerate Reuse of Public Land for Housing	
Increase Density Near Access to Transit, Schools, and Services	

Housing Element Update



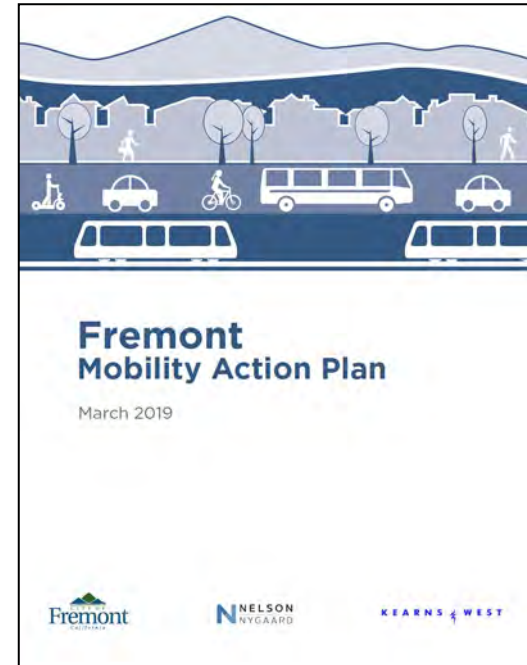
Plan Bay Area 2050

Environmental Strategies

Programs and Strategies	Investment (\$B)
Adapt to Sea Level Rise	\$19
Retrofit Existing Buildings (Energy, Water, Seismic, Fire)	\$15
Carbon Neutral Commercial and Public Buildings	\$18
Maintain Urban Growth Boundary	
Protect and Manage Conservation Lands	\$15
Expand Parks, Trails, and Recreation Facilities	\$30
Telecommute Mandates for Major Office Employers	
Expand Transportation Demand Management Incentives	\$1
Expand Clean Vehicle Initiatives	\$4

Mobility “Plan of Action”

1. Traffic Signal Modernization
2. School Zones and Access
3. Travel Alternatives
4. Traffic Safety Program
5. New Technologies and Smart Mobility
6. Regional Policy and Projects
7. Organization and Funding Initiatives



Regional Policy and Projects



Land Use Policy Ideas to Ease Regional Traffic Through Fremont

- **More housing closer to jobs** in Silicon Valley
- **Limit new job growth in Silicon Valley cities** with a significantly unbalanced level of jobs
- **Increased amount of affordable housing** throughout Bay Area
- **Encourage new job growth closer to available housing and transit**



FUNDED PROJECTS AND COMPLETION SCHEDULE

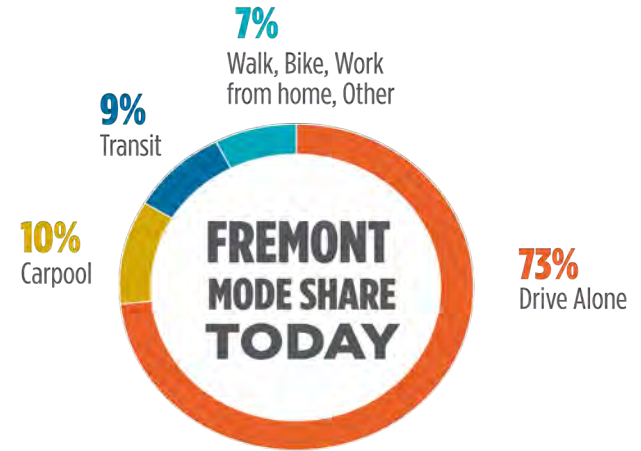
- **BART extension to Milpitas and San Jose/Berryessa** by 2019
- **I-880 Express Lane** by 2019
- **I-680 Express Lane** by 2020
- **Dumbarton Corridor Bus Transit Enhancements** by 2020
- **Altamont Corridor Express (ACE)** adding more cars to each train by 2021
- **Irvington BART Station**, start construction by 2022
- **BART vehicle replacement and expansion** to increase service capacity and frequency: ongoing through 2022
- **Capitol Corridor Realignment and new station** at Ardenwood Park and Ride Lot (schedule TBD)

PLANNED PROJECTS WITH PARTIAL FUNDING

- **State Route 262/Mission Blvd. Cross-Connector** from I-880 to I-680
- **I-680 Interchange Upgrades** at Mission, Washington, and Auto Mall
- **I-880 Interchange Upgrade** at Decoto
- **Dumbarton Rail Project** (proposed for implementation by Facebook)
- **Southern Alameda County Rail Integration Project** interconnecting BART, ACE, Capitol Corridor and Dumbarton transit systems
- **Mission Blvd. and Fremont Blvd.** multimodal corridor improvements

Mode Shift & Travel Alternatives

- **A Bold Goal:** Reduce “drive alone” share from 73% to 50% by 2040 (about 1% per year)
- **Modernize AC Transit Service** (planned for 2022)
- **Implement Bike and Ped Plans** to serve all ages and abilities



Local Buses and Shuttles

Central Fremont has multiple independent shuttle systems



Paratransit, K-12 Schools, Public Transit, Non-Profit, Private, and Community

Vision Zero in Fremont

Fremont has reduced major crashes by 45 percent since adopting its Vision Zero policy



VISION ZERO ACTION PLAN
SAFER STREETS

1 ENHANCE PEDESTRIAN CROSSINGS

2 TAME HIGH-SPEED ARTERIAL STREETS

3 PROVIDE NEW TRAFFIC SIGNALS AT PRIORITY LOCATIONS

4 EXPAND SAFE ROUTES TO SCHOOLS PROGRAMS

5 BUILD BETTER BIKEWAYS

6 MAKE FREEWAY INTERCHANGES SAFER WALKING AND CLING

SAFER PEOPLE
FREMONT
VISION ZERO 2020
SAFER STREETS SAFER VEHICLES

STATE LAW
TO
BEHOLD
CRIMINAL



SAFER PEOPLE

7 EXPAND TRAFFIC SAFETY PROGRAMS

8 CONTINUE TARGETED ENFORCEMENT OF SPEEDING

9 REDUCE IMPAIRED DRIVING

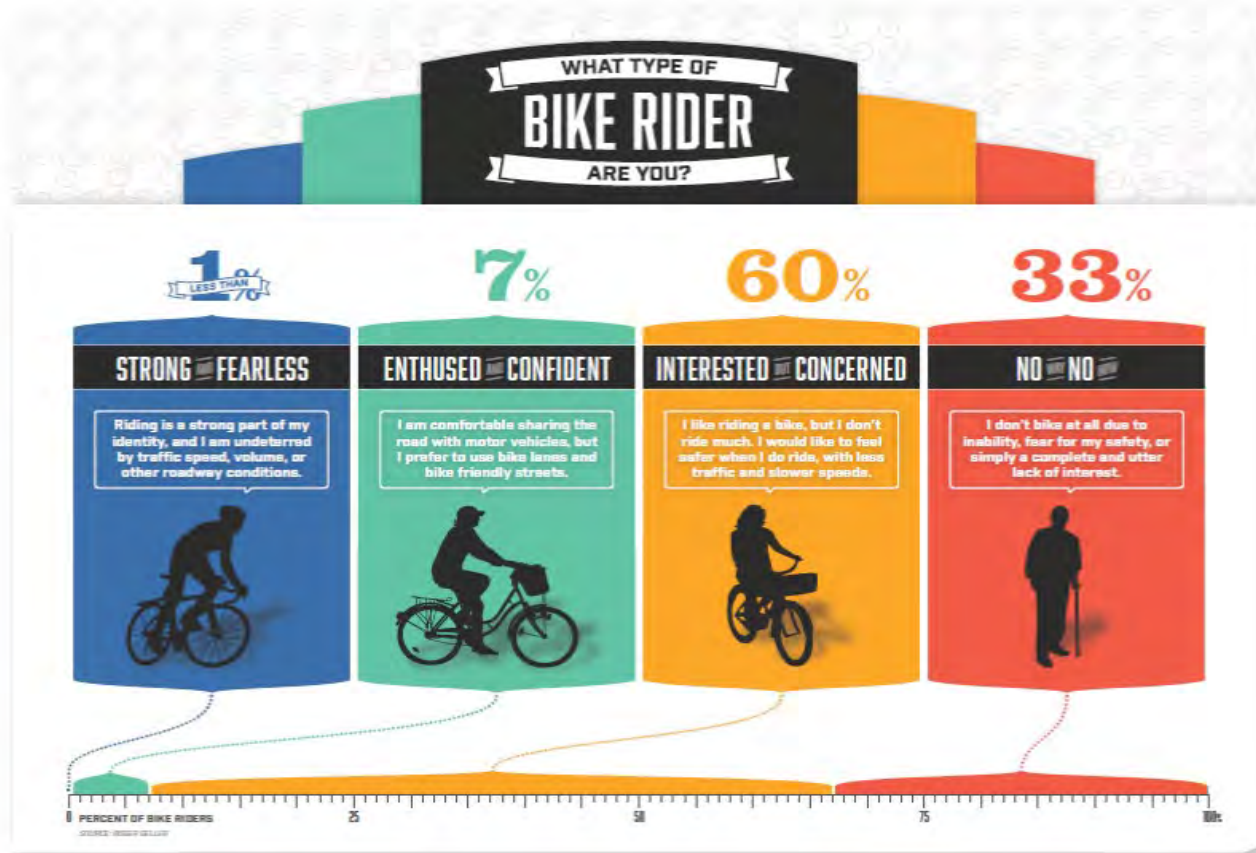
SAFER VEHICLES

10 PROMOTE CRASH AVOIDANCE TECHNOLOGY IN VEHICLES

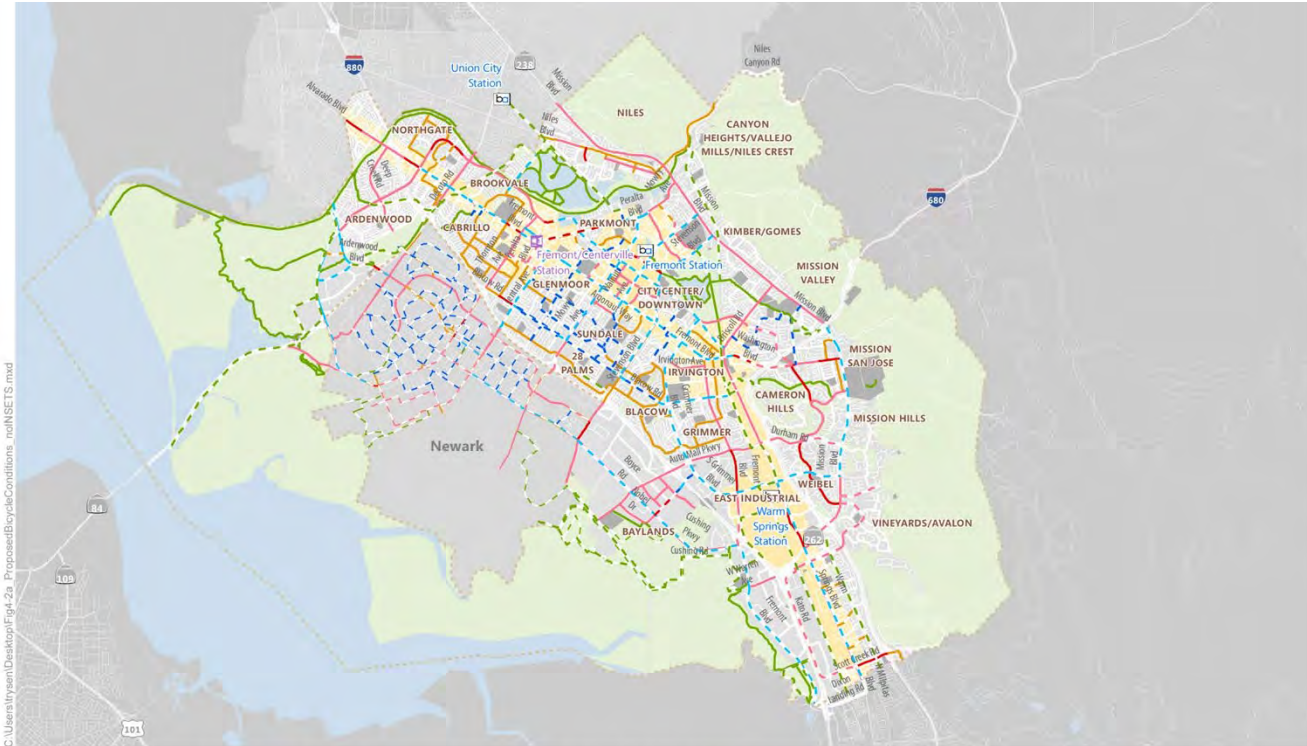


www.fremont.gov/visionzero2020

All Ages and Abilities Network



Active Transportation



Proposed Bicycle Facilities

- Class I Bicycle Path
- Class II Bicycle Lane
- Class II Buffered Bicycle Lane

- Class III Neighborhood Bikeway
- Class III Bicycle Route
- Class IV Separated Bikeway

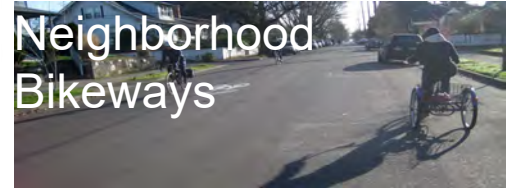
Existing Bicycle Facilities

- Class I Bicycle Path
- Class II Bicycle Lane

- Class II Buffered Bicycle Lane
- Class III Bicycle Route
- Class IV Separated Bikeway

- City Limits
- School
- Park/Open Space
- Priority Development Area
- BART Station
- ACE Station

Note: In some cases, buffered bike lanes may only be provided on one side of the street.



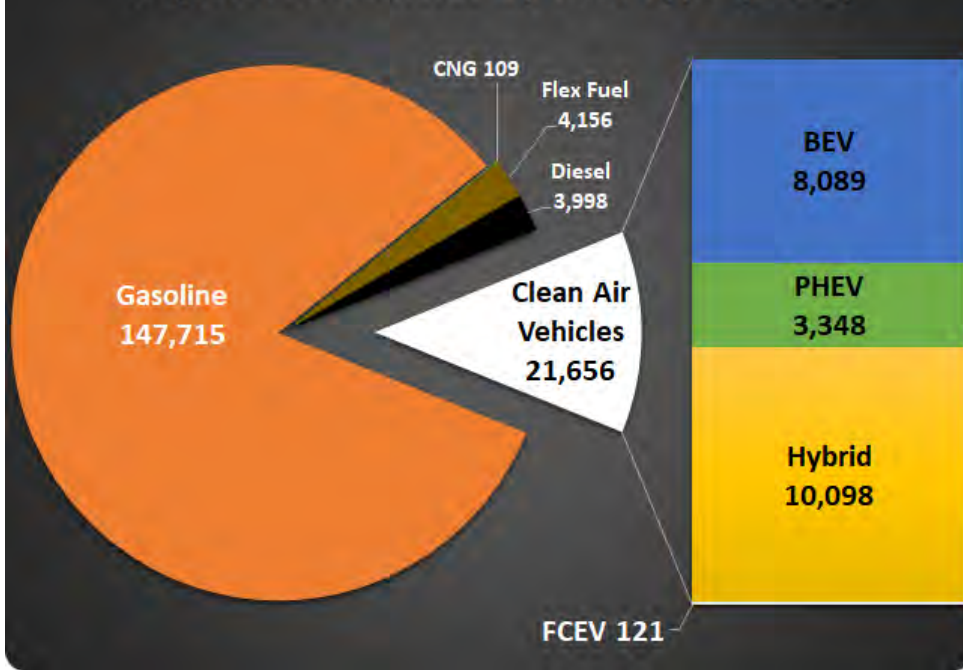
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Electric Vehicle Charging Stations

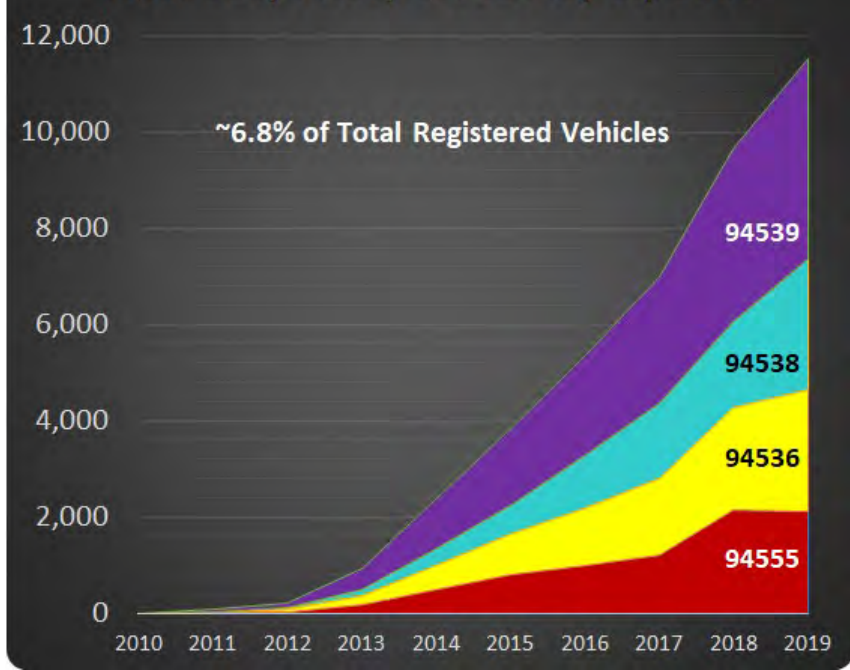


Clean Vehicle Ownership Levels

Registered Vehicles by Fuel Type (2020)



Total BEV, PHEV, & FCEV by ZipCode



Mobility Hubs Concept

- Transit
- Carshare
- EV Charging
- Bike Share/Bike Racks
- Kiosks
- Wi-fi



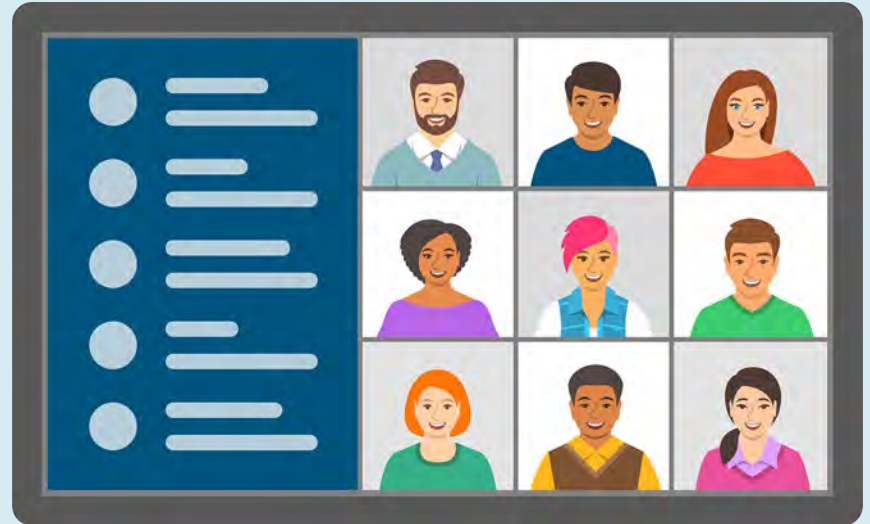
Questions from the Chat

- Type your questions in the chat for the speakers.
- If you would like to voice your question, click “Raise Hand” on bottom of Zoom interface or dial *9 for phone callers



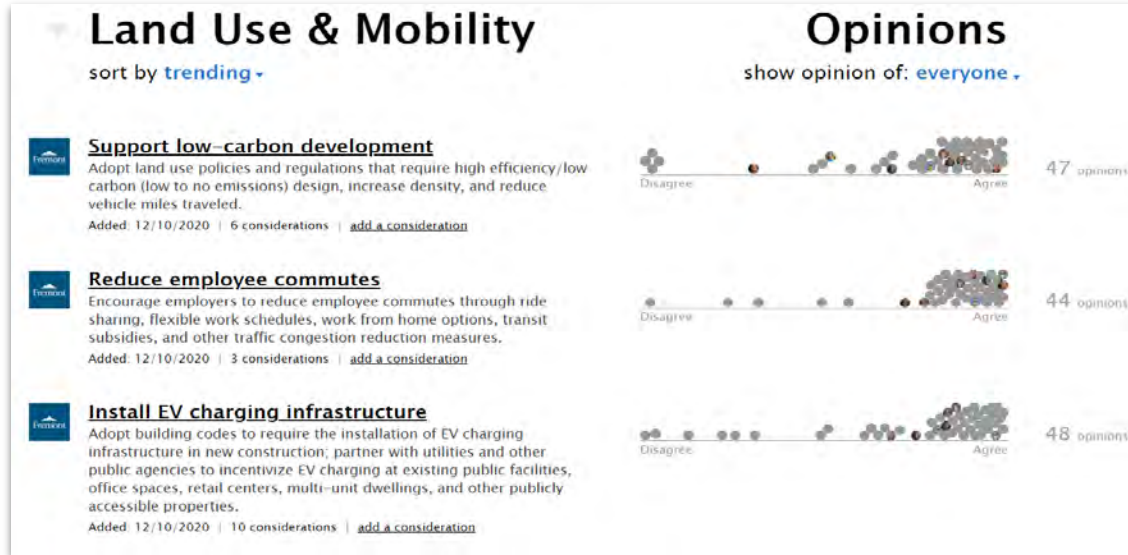
Community Discussion

- If you would like to voice your question/comment, click “Raise Hand” on bottom of Zoom interface or dial *9 for phone callers



Continue the Discussion

www.Fremont.gov/CAPConsiderIt



Please sign up on Consider.it to continue the discussion!

Open through early Feb 2021

CAP Update Project Timeline - Next Steps

WE ARE
HERE

SUMMER/
FALL 2020

Community
Engagement,
Visioning, and
Forecasting

FALL 2020/
WINTER 2021

Develop
Policies and
Measures

SPRING 2021

Prepare
Plan and
Review

SUMMER 2021

Finalize Plan
and Present to
City Council

Stay Connected

City Website:

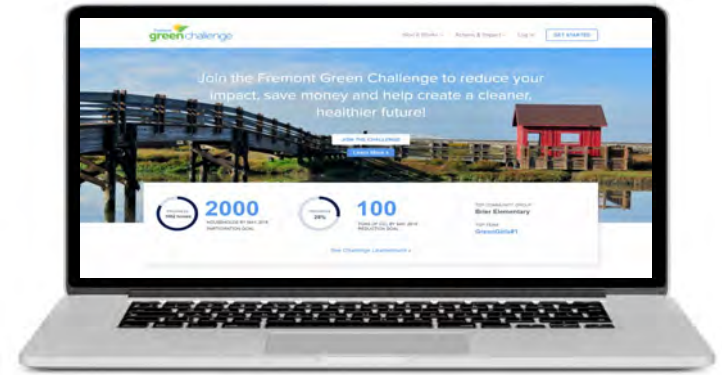
www.Fremont.gov/ClimateAction

Sustainability Newsletter:

www.Fremont.gov/FGCNewsletter

Climate Action Platform:

www.FremontGreenChallenge.org



*Thank
you!*



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