

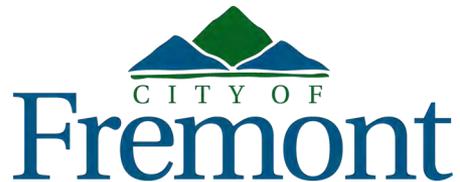


CARBON NEUTRAL
by 2045



Climate Action Plan Update 2021

Climate Talks - Day 3
Materials, Waste, and Food



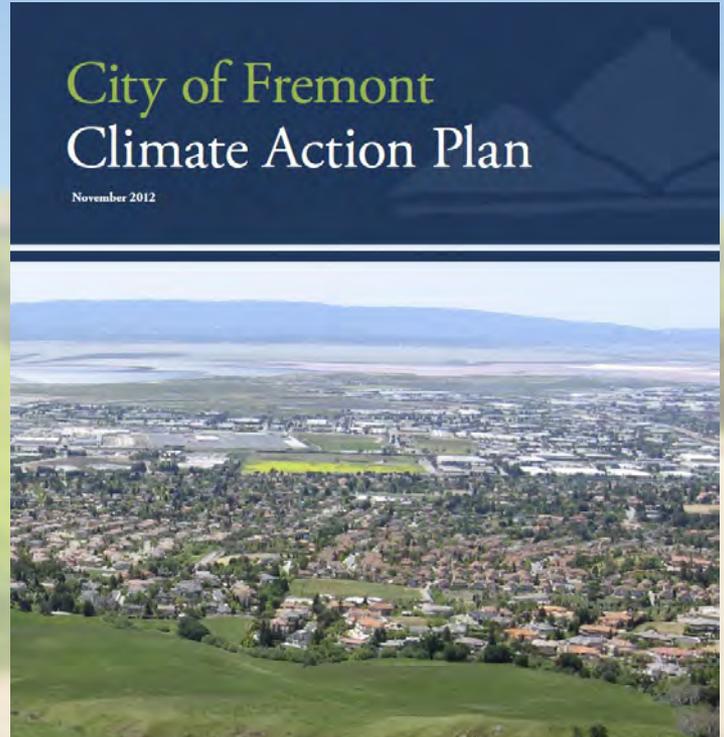
Agenda

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**

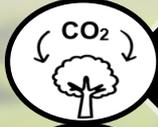
Post-Carbon Framework Strategies



Clean & Renewable Power



Electrification & Fossil Fuel Phase-Out



Carbon Sequestration



Mobility & Connectivity



Resource Conservation & Elimination of Waste

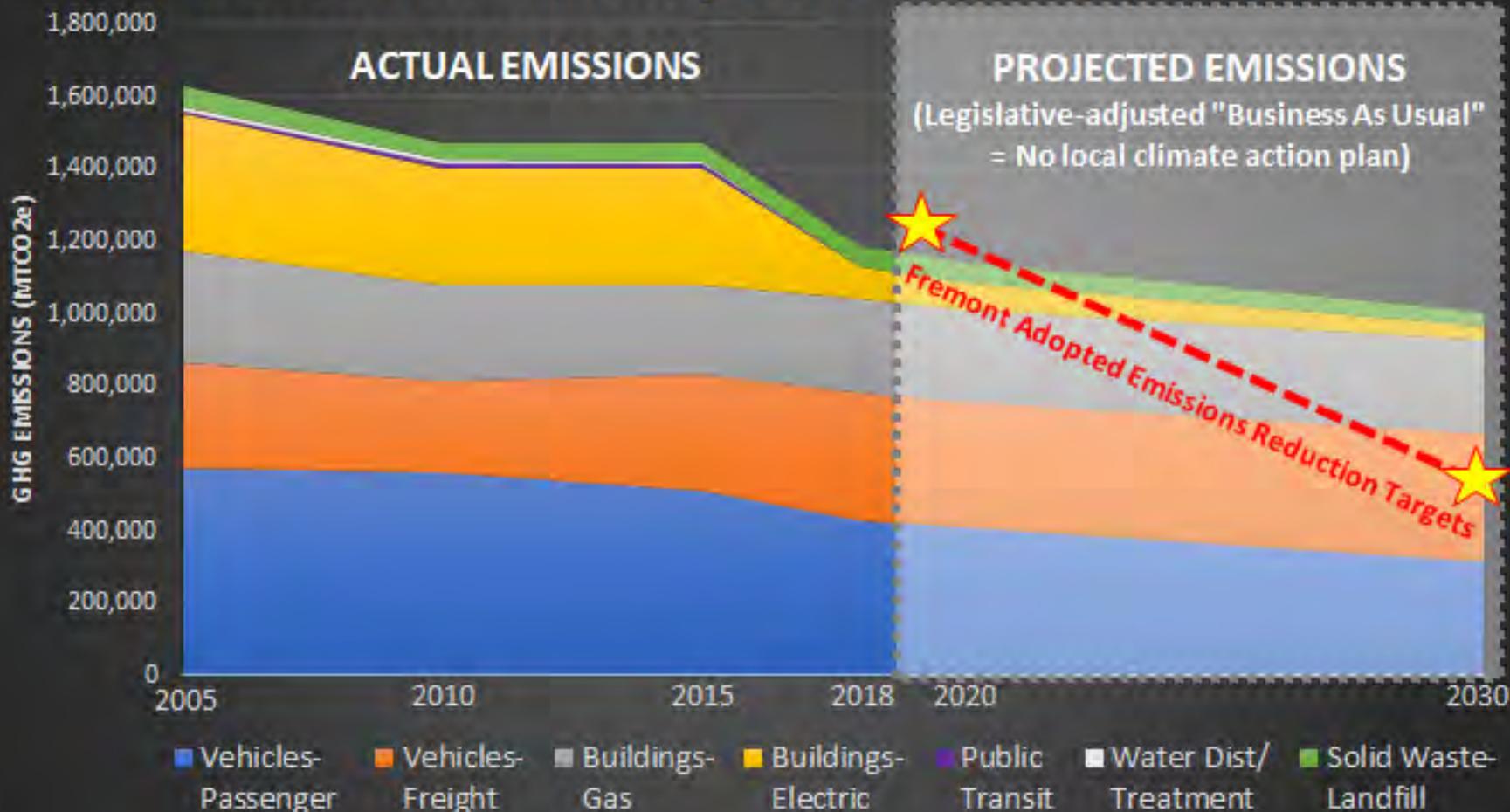


Restorative Ecology & Green Infrastructure



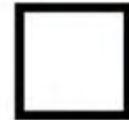
Climate Adaptation & Resilience

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](https://www.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

Materials, Waste, & Water

show opinion of: [everyone](#)

 **Reduce landfill waste generation**
Encourage commercial and residential properties to reduce "downstream" (consumer) waste generation, recycle right, and divert organics through technical assistance, annual audits, and recognition programs.
Added: 12/10/2020 | 5 considerations | [add a consideration](#)



Disagree Agree

 **Decrease packaging waste**
Require containers, take-out foodware, and other packaging at food service establishments to be a.) reusable (where possible) or b.) compostable; provide disposables only upon request.
Added: 12/10/2020 | 7 considerations | [add a consideration](#)



Disagree Agree

 **Adopt a deconstruction ordinance**
Adopt a building deconstruction/demolition ordinance that mandates high levels of reuse and recycling of deconstructed building materials.
Added: 12/10/2020 | 4 considerations | [add a consideration](#)



Disagree Agree

 **Prevent surplus food generation**
Minimize "upstream" (pre-consumer) food waste generation through robust community education and targeted partnerships with restaurants, grocery stores, food recovery organizations, and other relevant community-based groups.
Added: 12/10/2020 | 3 considerations | [add a consideration](#)



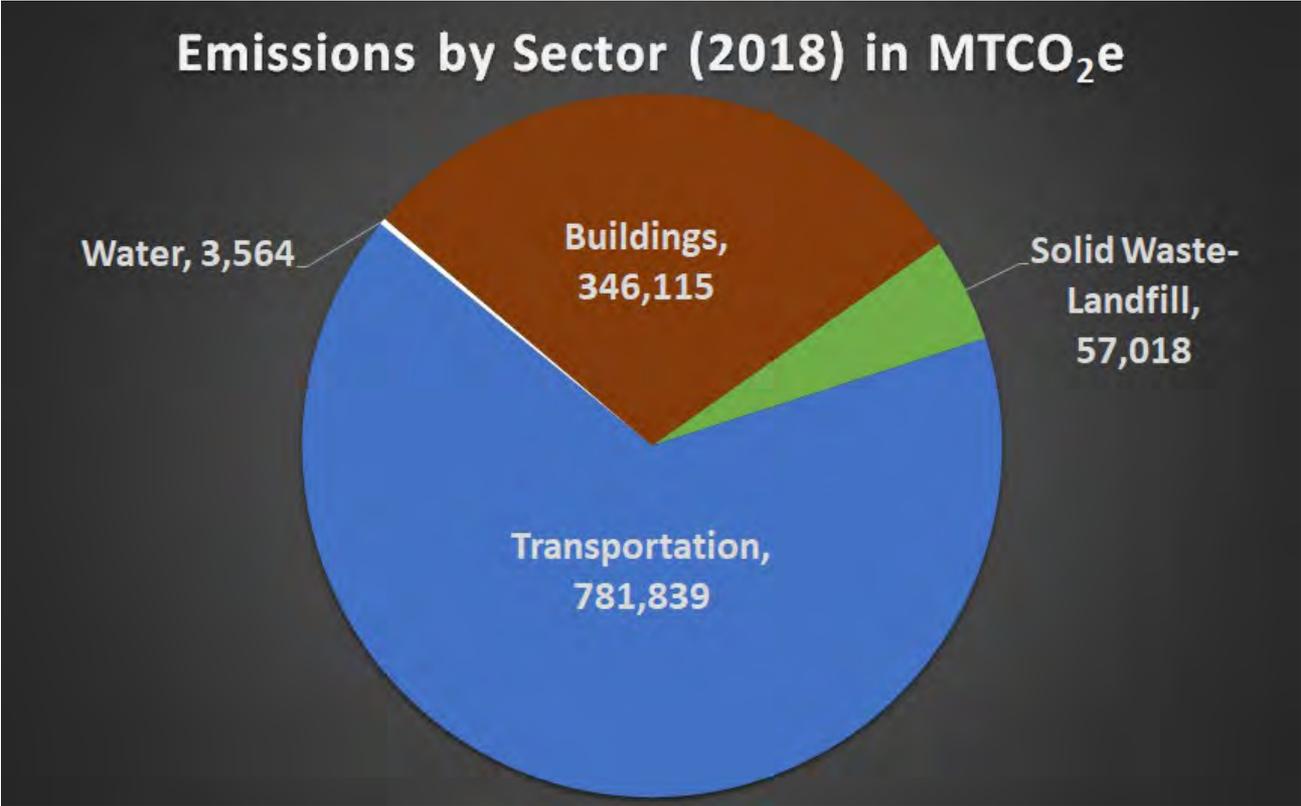
Disagree Agree

Climate Talks Day 3: **Materials, Waste, and Food**

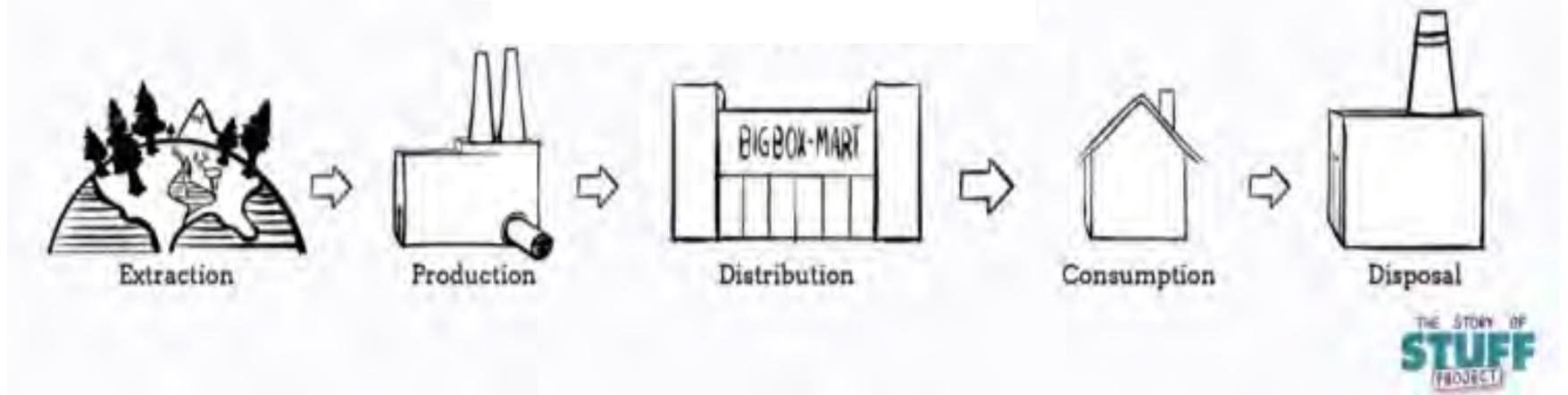


Waste = 4.8% of Fremont's GHG Emissions*

*Scope 1 & Scope 2 Emissions Only



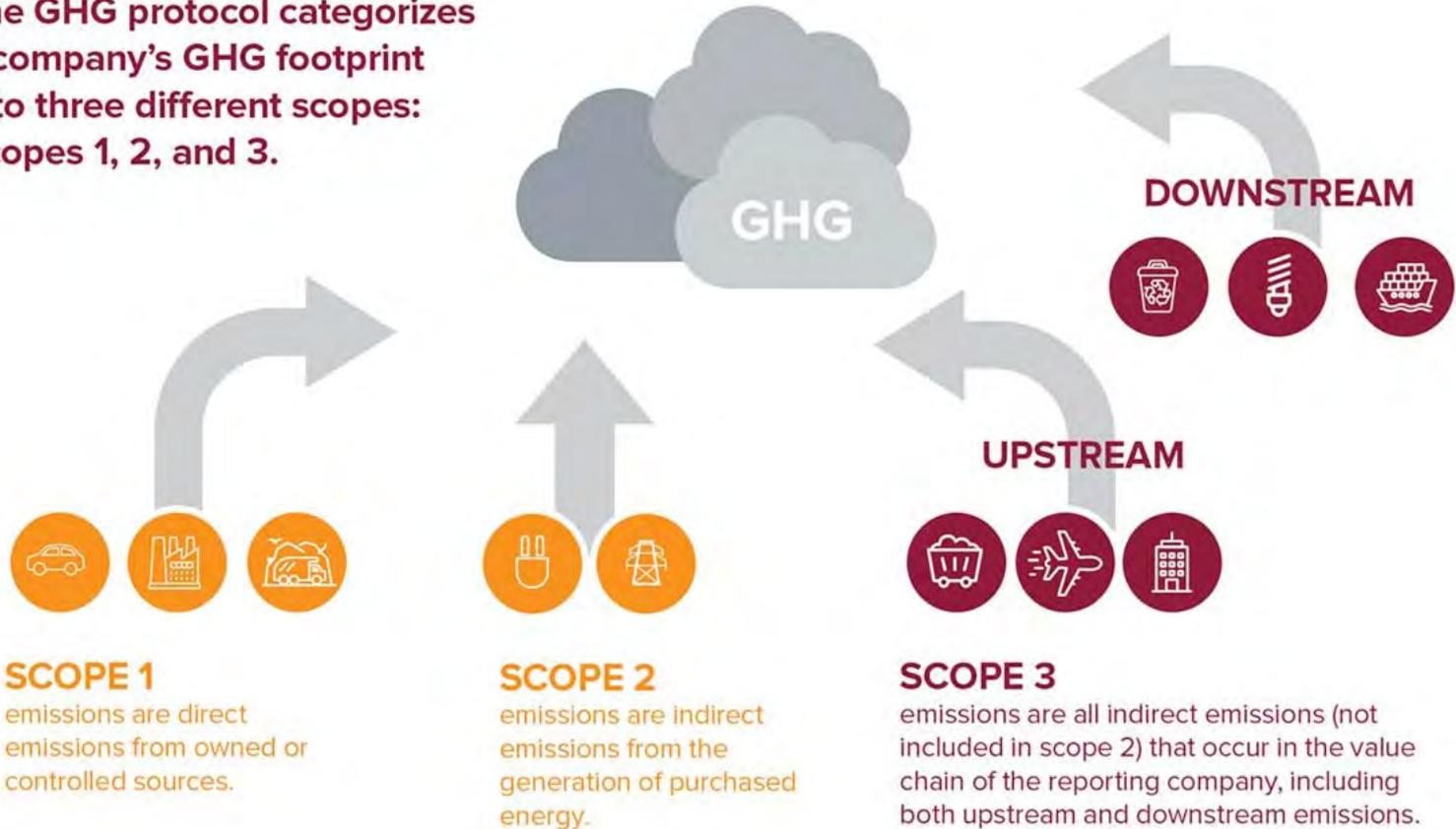
The Whole “Story of Stuff”



<https://www.storyofstuff.org/movies/story-of-stuff/>

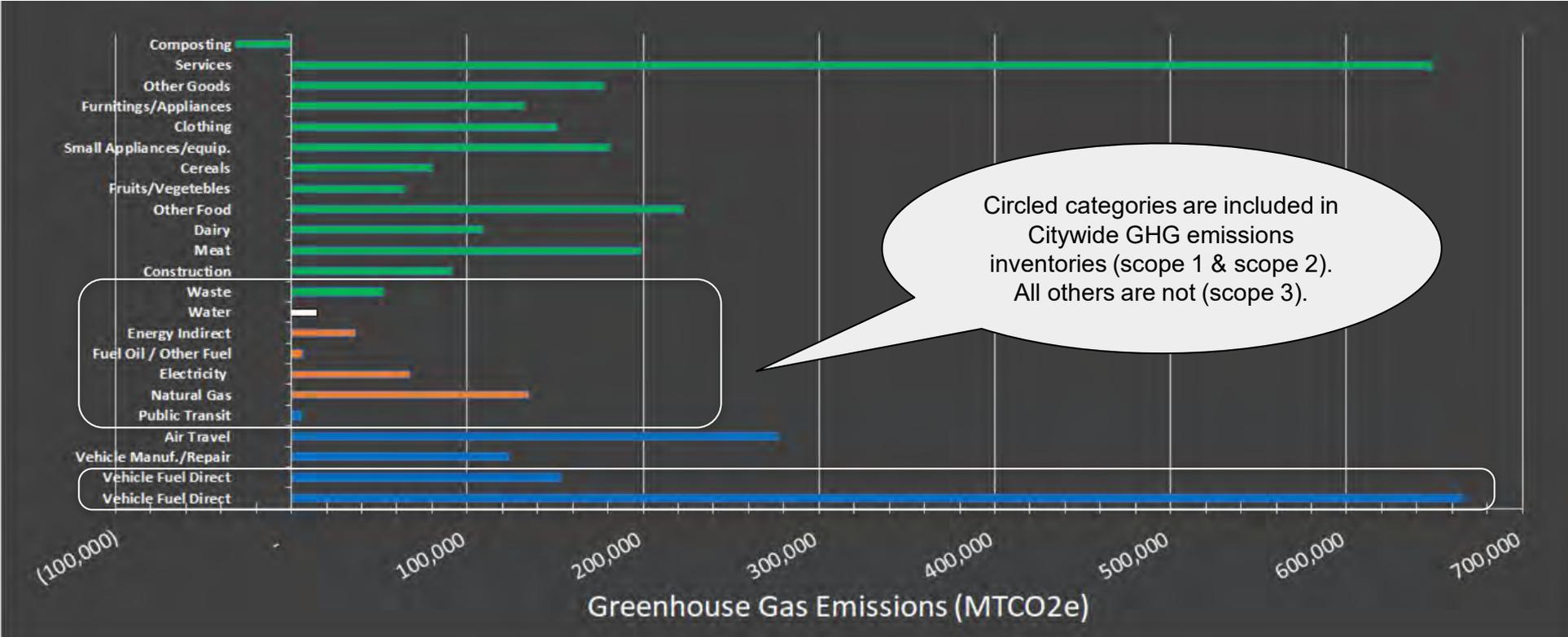
How We Calculate Emissions

The GHG protocol categorizes a company's GHG footprint into three different scopes: Scopes 1, 2, and 3.



Consumption-Based Perspective

In 2016, UC Berkeley's Cool Climate Network and the Bay Area Air Quality Management District conducted a life-cycle analysis of production, use and disposal of each type of product or service:



Getting to Zero Emissions in Materials & Waste

Materials Reuse & Sharing

- Reuse and waste minimization

Reduced Landfill Waste Generation

- Reduce consumer waste, recycle right, and divert organics

Building Deconstruction Ordinance

- CalGreen Building Code

Decreased Packaging Waste

- Containers, take-out foodware, are reusable or compostable; disposables only upon request

Surplus Food Generation Prevention

- Minimize "upstream" (pre-consumer) food waste generation



Environmental Services Programs – *Materials Reuse & Sharing*



- How to on YouTube
- NextDoor



- Makerspace
- Computer use

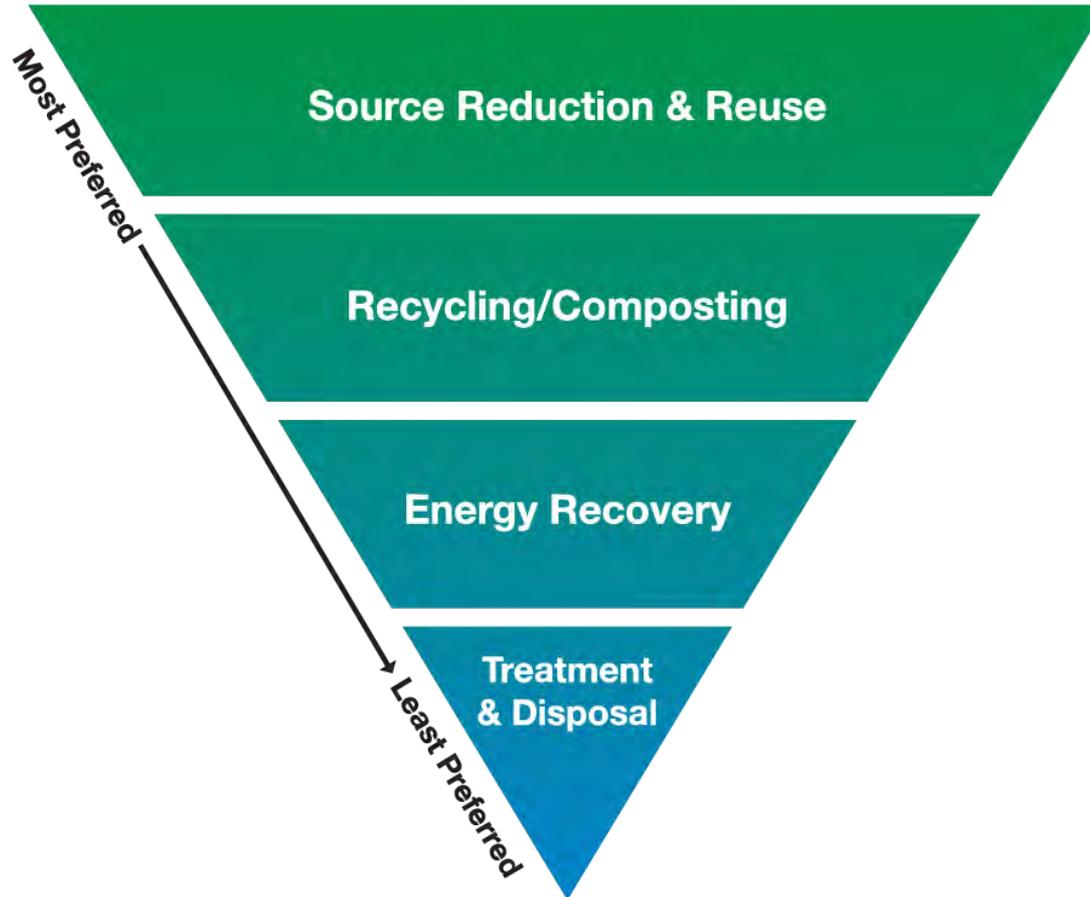


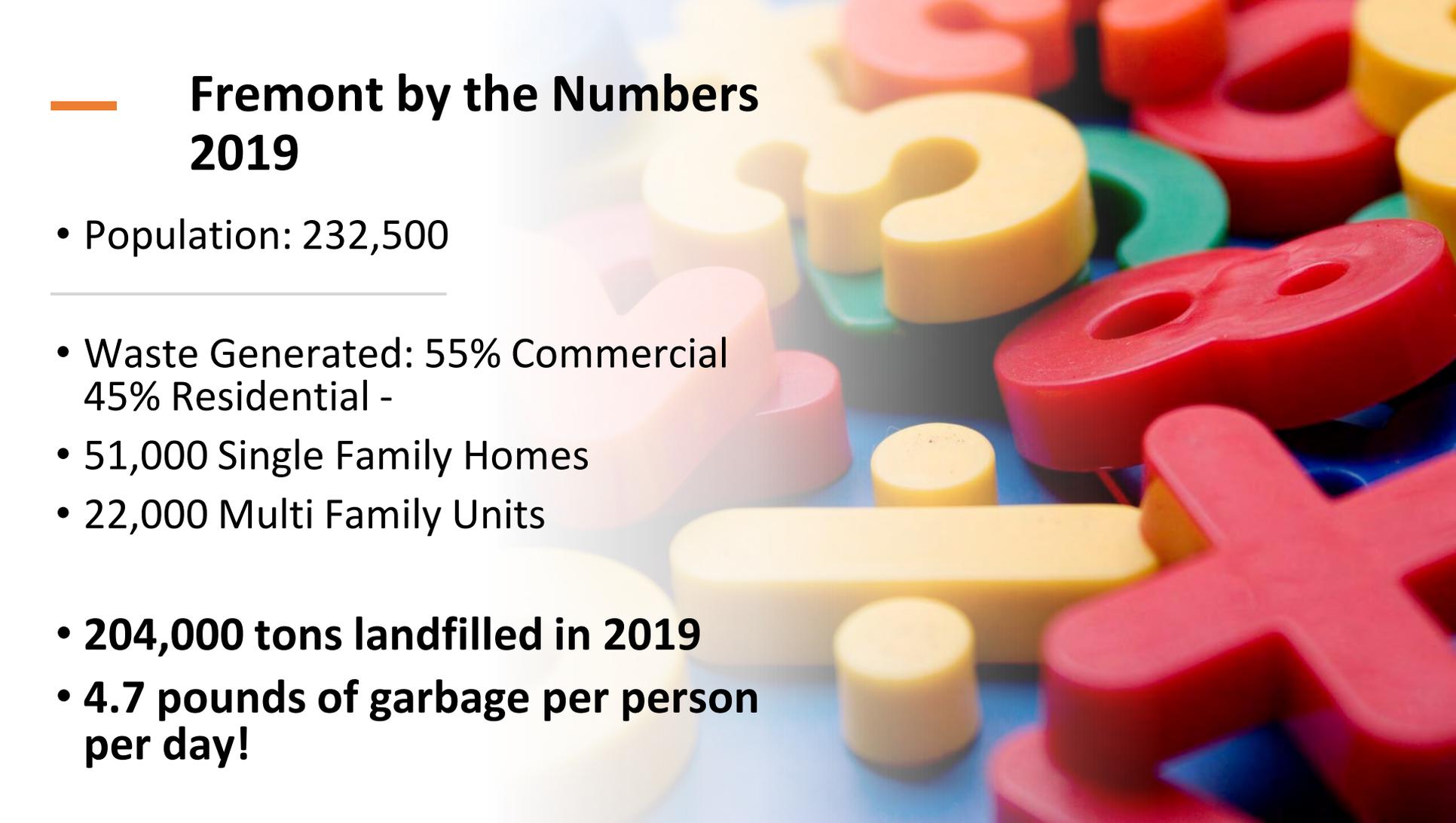
Environmental Services Programs – *Reduce Landfilled Waste*

- ✓ Recycling Right Now
- ✓ Composting Organics
- ✓ Deconstruction & Construction Debris Recycling



Waste Management Hierarchy



The background of the slide features a close-up, shallow depth-of-field photograph of various colorful wooden blocks and letters. The blocks are in shades of red, yellow, green, and blue. Some letters are clearly visible, including a large yellow '3', a red '4', a red 'X', and a yellow '1'. The lighting is bright, creating soft shadows and highlights on the smooth surfaces of the wood.

— Fremont by the Numbers 2019

- Population: 232,500

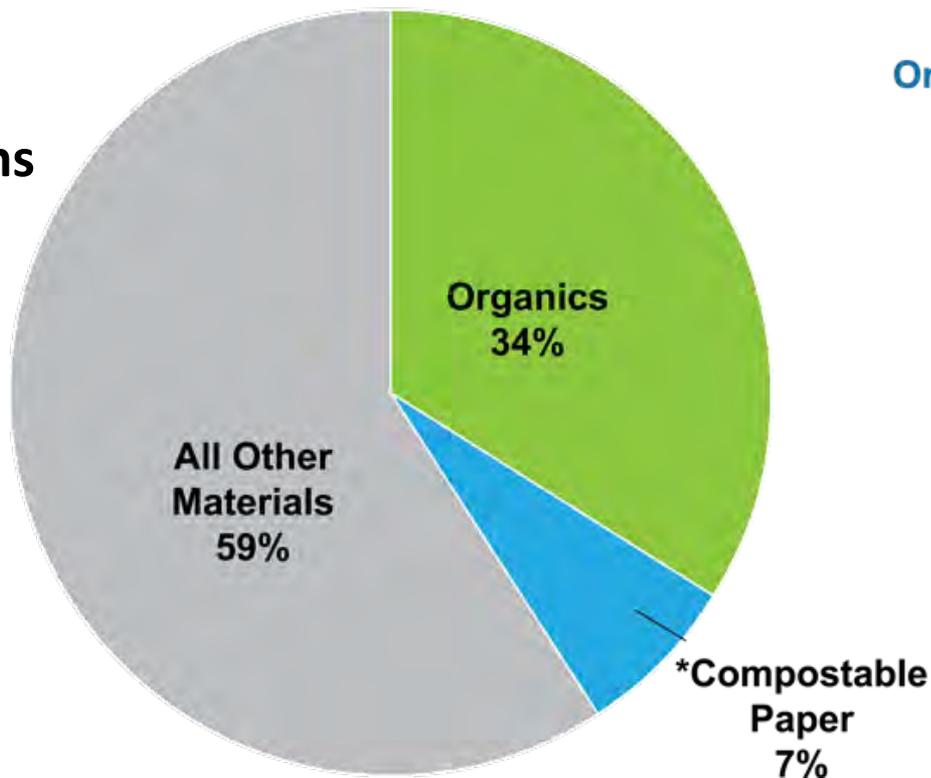
- Waste Generated: 55% Commercial
45% Residential -
- 51,000 Single Family Homes
- 22,000 Multi Family Units

- **204,000 tons landfilled in 2019**
- **4.7 pounds of garbage per person per day!**

Organics in California's Overall Disposed Waste Stream 2014

Data from CalRecycle's 2014 Waste Characterization Report

**Approx. 30 million
tons/year
landfilled in CA =
10.2 MILLION tons
of ORGANICS**



Organics Include

- Food Waste
- Landscape Trimmings
 - Leaves
 - Grass
 - Trimmings
 - Branches
 - Stumps
- Non-Hazardous Wood Waste
- *Compostable Paper

*Compostable paper includes food-soiled paper and other compostable paper

SB1383 - Reduce Organic Waste by 50%

to reduce Methane (Short-Lived Climate Pollutants)

- State Law effective 1/1/2022
- Requires ALL businesses and residents to separate food scraps and have organics collection
- Requires rescue of EDIBLE FOOD before trash/compost



Disposables to Reusables

Decrease Packaging Waste

- Require containers, take-out foodware to be reusable or compostable; provide disposables only upon request





STOP WASTE

at home • at work • at school

Reducing Wasted Food & Packaging

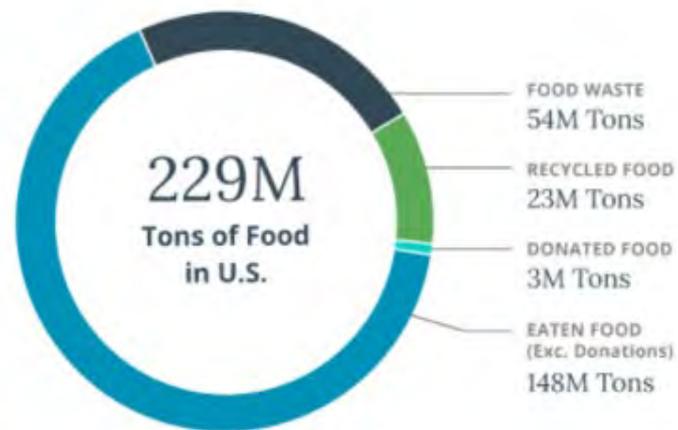
Cassie Bartholomew, Program Manager

Who is StopWaste?





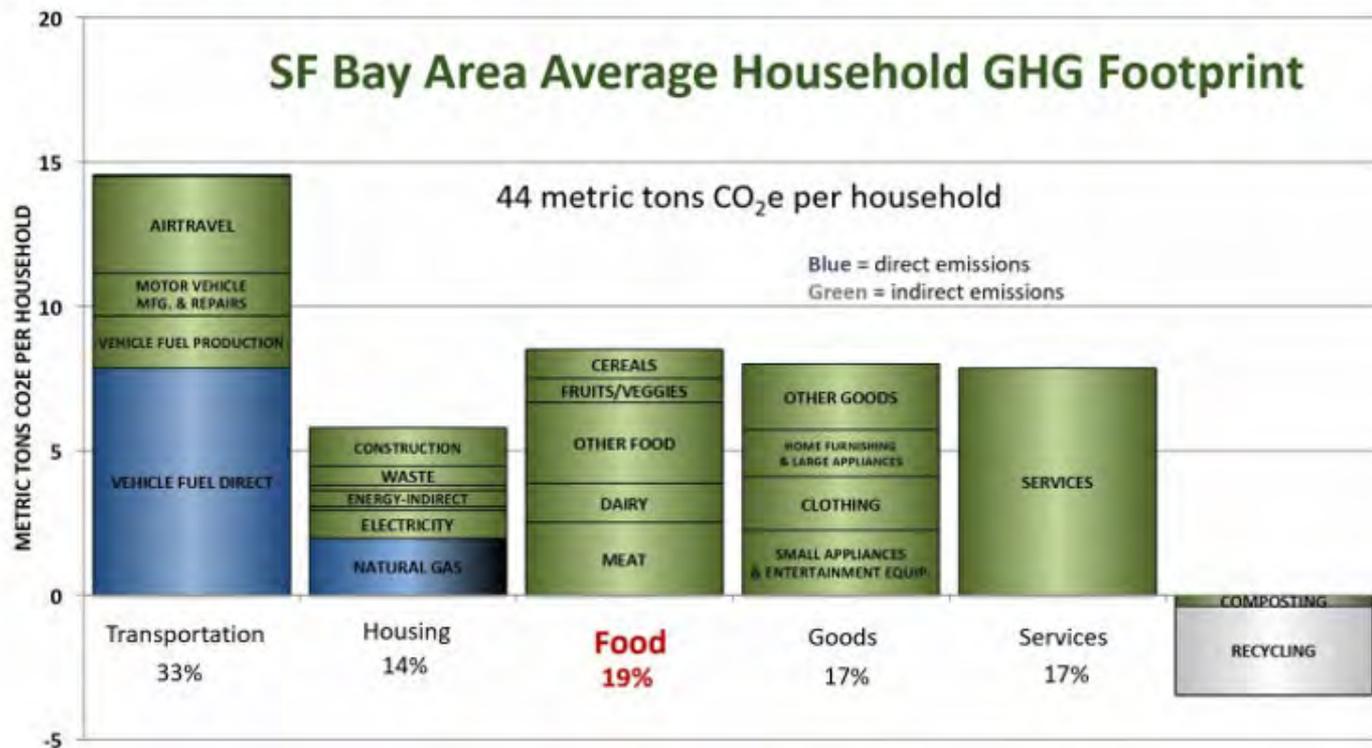
In the U.S., 35% of all food goes unsold or uneaten – and most of that goes to waste.



ReFED 2019



GHG Emissions from Food Consumption



Who generates wasted food?



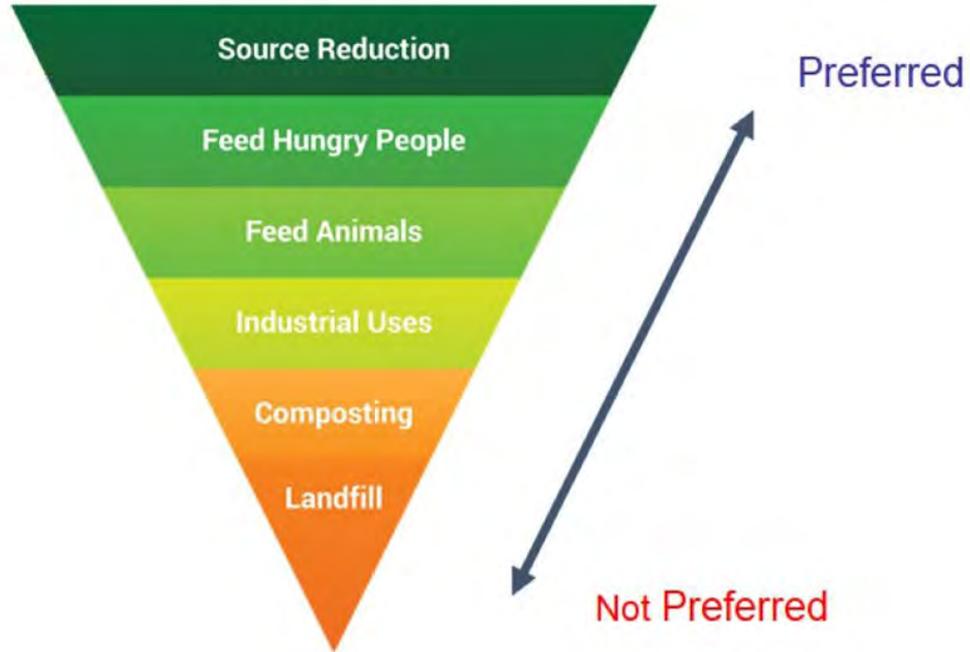
CONSUMER-FACING BUSINESSES INCLUDE:



*Other Foodservice Includes Healthcare, Assisted Living, Military, and Other

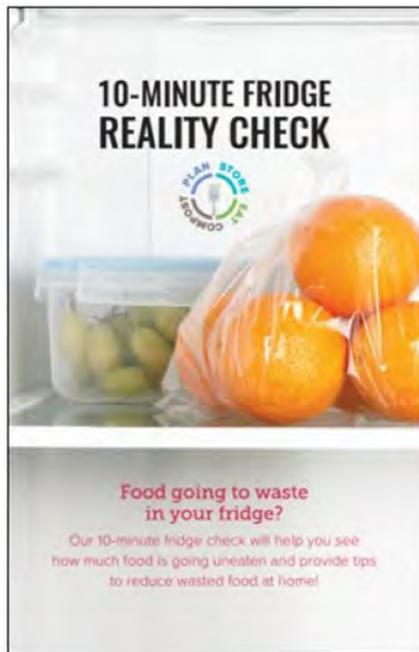
Source: ReFED.com

Food Waste Recovery Hierarchy



What can we do?

Stop Food Waste Toolkit



10-MINUTE FRIDGE REALITY CHECK

PLAN STORE SAVE

Food going to waste in your fridge?

Our 10-minute fridge check will help you see how much food is going uneaten and provide tips to reduce wasted food at home!

SHOPPING LIST with Meals in Mind

Before you shop, plan the meals you'll eat at home and list items needed.
 "Shop" your fridge, freezer and cupboards for ingredients first.
 Note quantity of fruit and veggies needed from the store.

MEAL	ALREADY HAVE	NEED TO BUY
Example: Turkey Quinoa	Example: Mushrooms - 2 pack	Example: Eggs - 1 dozen
Mon		
Tue		
Wed		
Thu		
Fri		
Sat		
Sun		

STOPWASTE
 Visit StopFoodWaste.org

GUÍA DE ALMACENAMIENTO Para Frutas y Verduras

Almacenar sus productos frescos correctamente es una de las maneras más fáciles de reducir el desperdicio de alimentos, por más tiempo y reducir el desperdicio de alimentos.

¿QUÉ?	¿DÓNDE?	¿CÓMO?
REFRIGERADOR		<ul style="list-style-type: none"> • Coloque en su lugar • Mantenga la puerta cerrada • Use los estantes superiores para el almacenamiento • Coloque los productos frescos en la parte inferior
MESA Y REFRIGERADOR		<ul style="list-style-type: none"> • Mantenga los productos frescos en la parte superior • Coloque los productos frescos en la parte inferior • Mantenga la puerta cerrada
MESA		<ul style="list-style-type: none"> • Mantenga los productos frescos en la parte superior • Mantenga la puerta cerrada
DEPENSA		<ul style="list-style-type: none"> • Mantenga los productos frescos en la parte superior • Mantenga la puerta cerrada • Mantenga los productos frescos en la parte superior • Mantenga los productos frescos en la parte superior

REGLAS GENERALES: No lave los productos frescos hasta que estén listos para comer. Siempre refrigere los productos cortados o pelados.

¿Quieres aprender más? StopFoodWaste.org

EAT THIS FIRST

STOPWASTE

PLAN STORE SAVE

StopFoodWaste.org

Community Climate Solutions – StopWaste – Ends + Stems Webinar

Join us for a live cooking demo with Chef Alison to learn simple ways to take action in your kitchen to reduce food waste with the three new food waste prevention actions on the Fremont Green Challenge.

- Wednesday, March 3rd, 2021
- 6:00 to 7:00 pm

Registration



Waste Reduction Grant Opportunities



Reuse & Repair Grants: Projects that avoid disposal or recycling in favor of repair, reuse, recovery and redistribution of goods and materials.

Food Waste Reduction Grants: Projects that prevent food waste through product or process redesign or recover and redistribute surplus edible food for human consumption.

Surplus Food Donation Equipment Grants: Storage and transport equipment to support the recovery or donation of surplus edible food that would otherwise go to waste. For nonprofits only.

Reusable Transport Packaging Grants: Durable, reusable equipment such as crates, bins and pallet wrap to replace limited-life packaging used in manufacturing, transportation and/or distribution.



ReThink Disposable Subway Fremont Blvd.



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

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Continue the Discussion

www.Fremont.gov/CAPConsiderIt

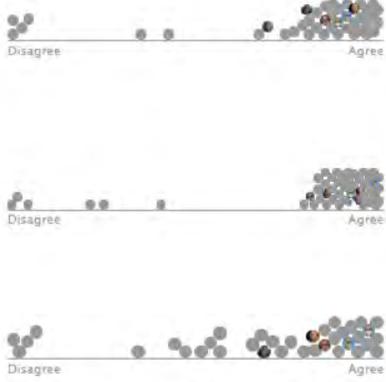
Materials, Waste, & Water

show opinion of: [everyone](#)

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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:

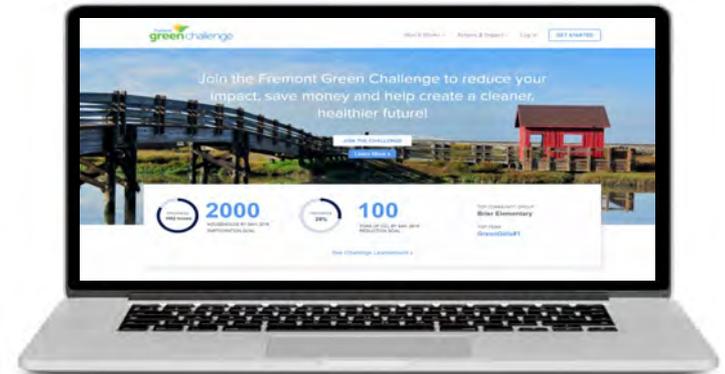
www.Fremont.gov/ClimateAction

Sustainability Newsletter:

www.Fremont.gov/FGCNewsletter

Climate Action Platform:

www.FremontGreenChallenge.org



*Thank
you!*



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