

# Outline

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California's GHG Reduction Targets Road Map

Regional and Local Climate Action Plans

Data Visualization & Program Tracking

Climate Technology Financing

Q&A

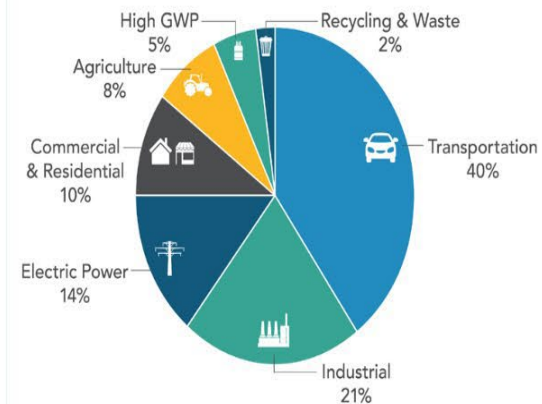
# GHG Emissions Targets Road Map



## GHG Targets & Goals

**Legislation & Executive Orders:** Total GHGs (AB 32/SB 32) or sector targets (SB 1383/SB 100), etc.

2019 California GHG Emission Contributions by Scoping Plan Sector



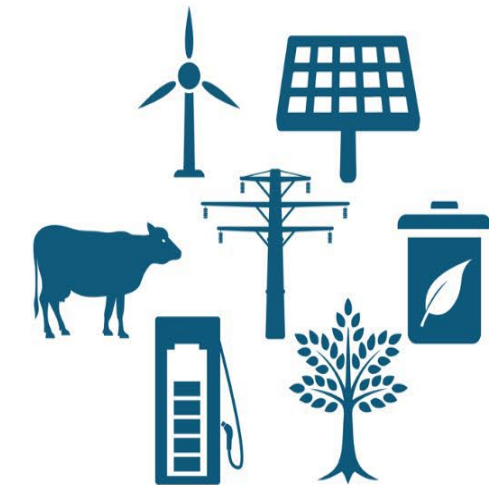
## Scoping Plan

Actionable plan across all sectors



## Action

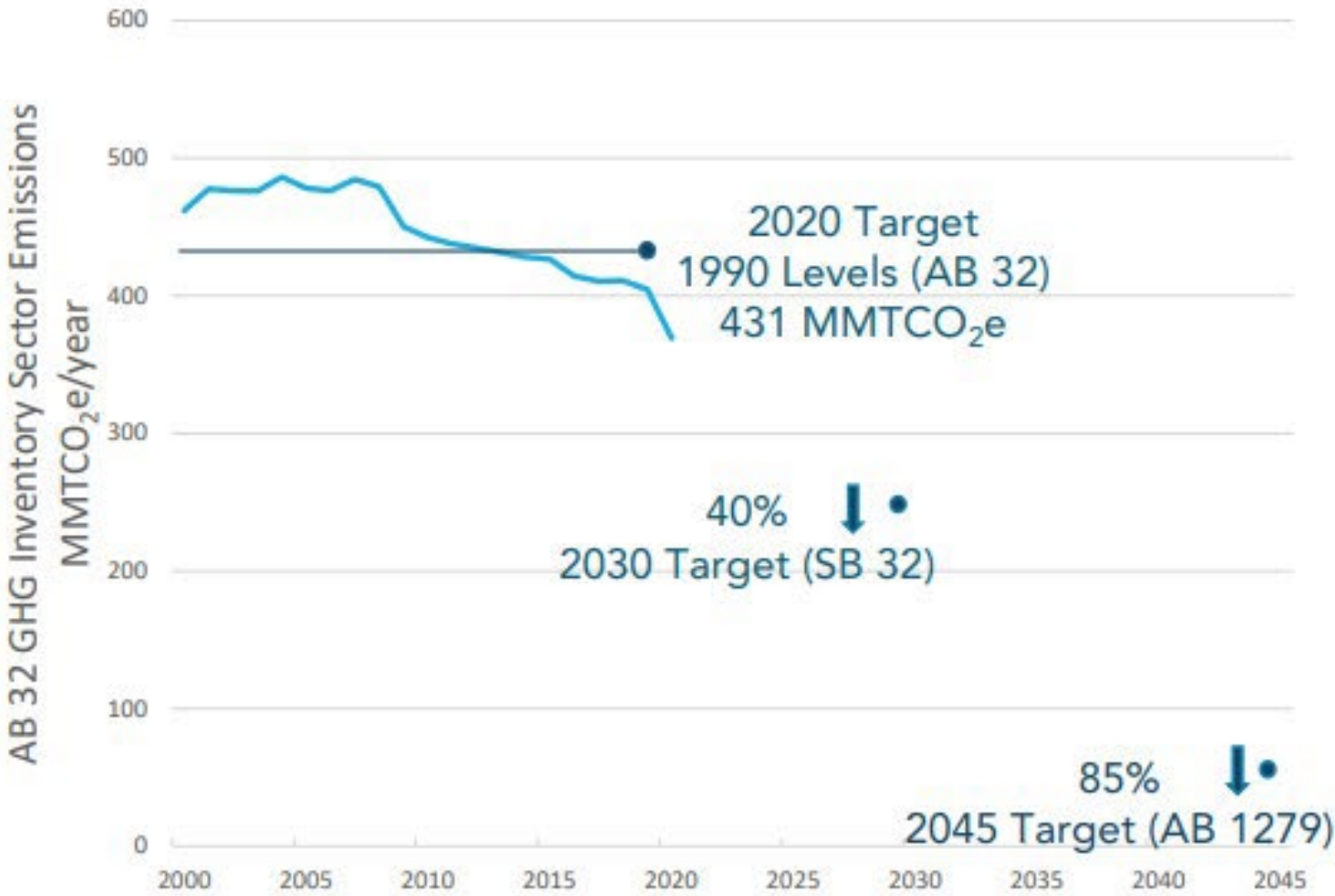
**Regulations & Incentives:** Advanced Clean Cars, climate change investments, etc.



## Projects

**Examples:** Zero-emission trucks, energy infrastructure and renewables, compost facilities, digesters, etc.

# 2022 Scoping Plan - CA's latest plan to achieve statewide climate targets



ACHIEVING  
**CARBON**  
NEUTRALITY  
BY **2045**

GHGs included in statute: Carbon dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>), Nitrous oxide (N<sub>2</sub>O), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulfur hexafluoride (SF<sub>6</sub>), Nitrogen trifluoride (NF<sub>3</sub>).

# 2022 Scoping Plan's Ambitious Actions to Deliver Benefits

## *Unprecedented Deployment of Clean Technology and Nature-Based Climate Solutions*



37x total on-road ZEVs



6x electric appliances in residences



1700x hydrogen supply



4x installed wind/solar generation capacity



> 2.5 Million acres of NWL climate action per year

## *Significant GHG Reductions*



94% decrease in liquid petroleum fuel demand



91% decrease in fossil gas used in buildings



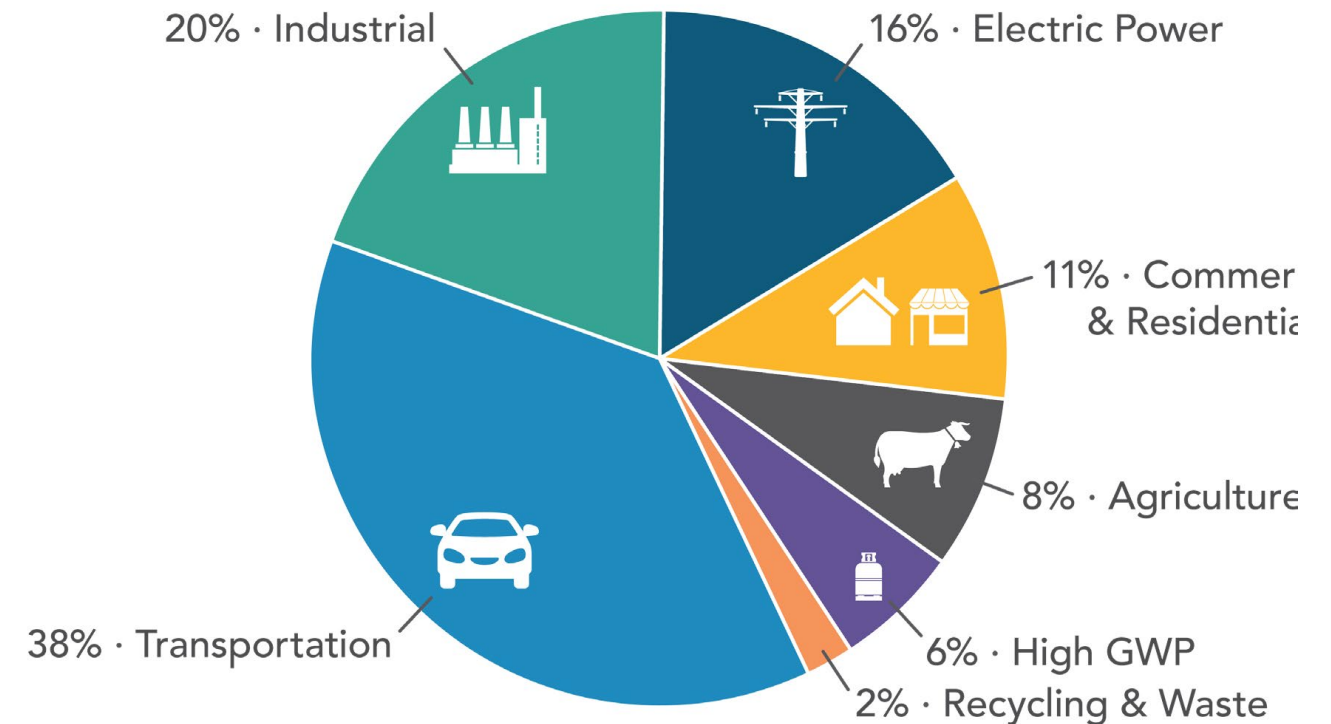
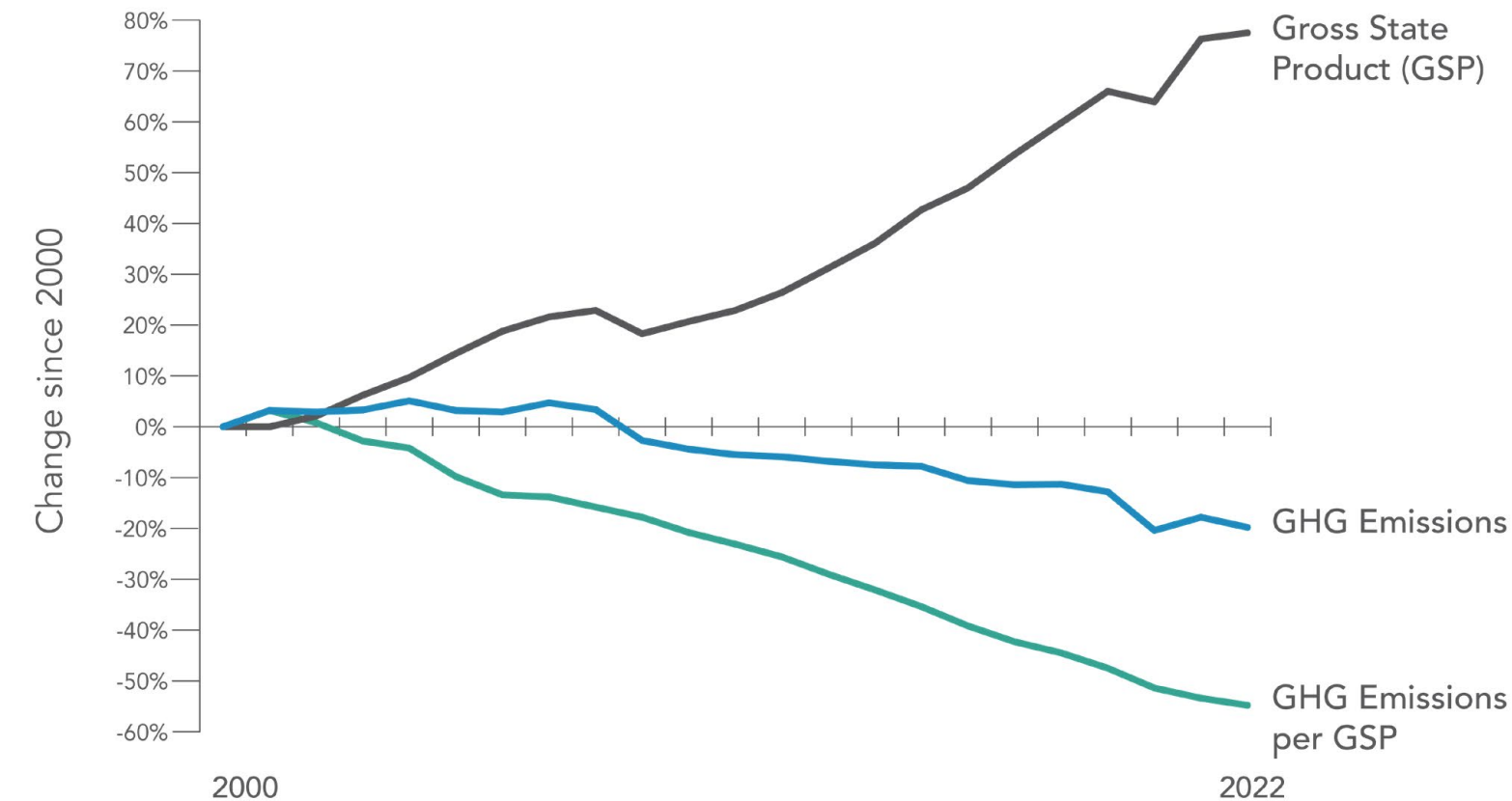
66% decrease in methane emissions from agriculture



10% reduction in wildfire emissions

In 2045 relative to 2022

# California has lowered emissions while growing the economy, heavy lifting ahead



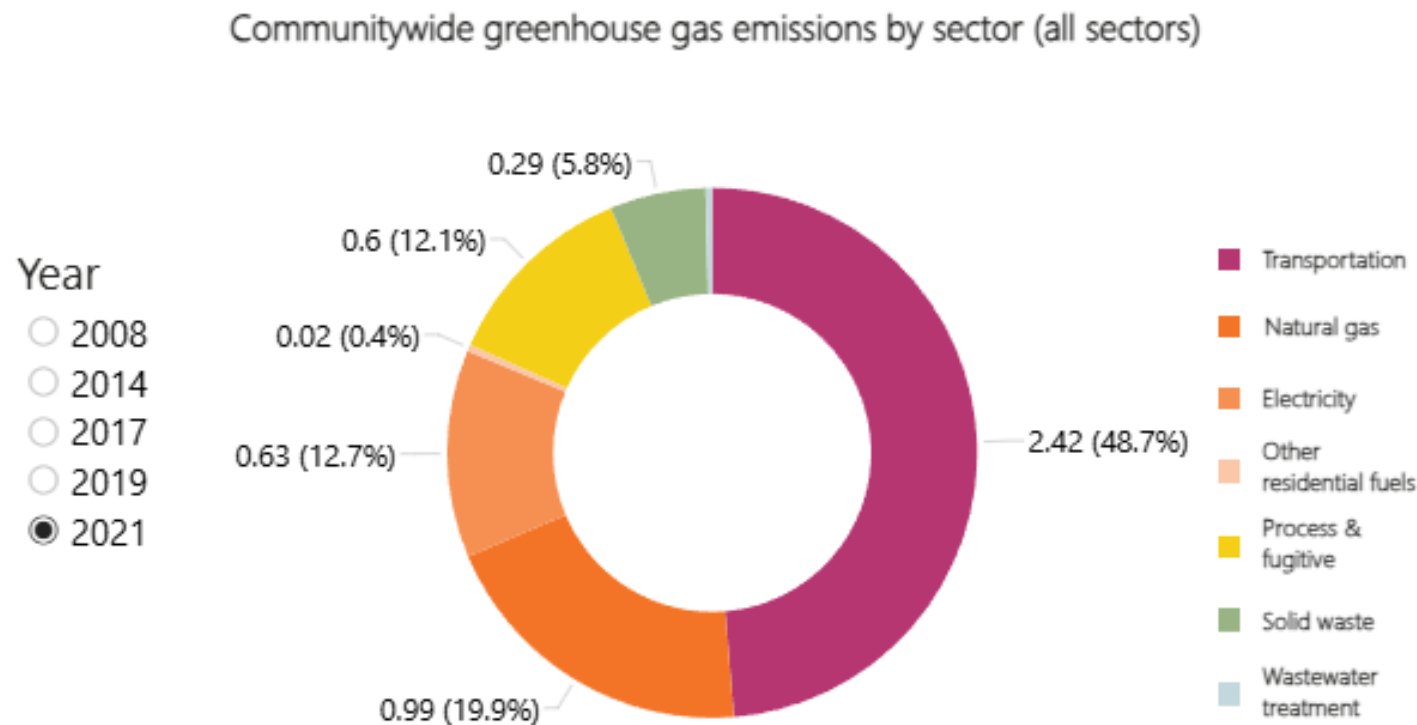
371.1 MMT CO<sub>2</sub>e  
2022 TOTAL CA EMISSIONS

# Implementing Scoping Plan Goals Locally

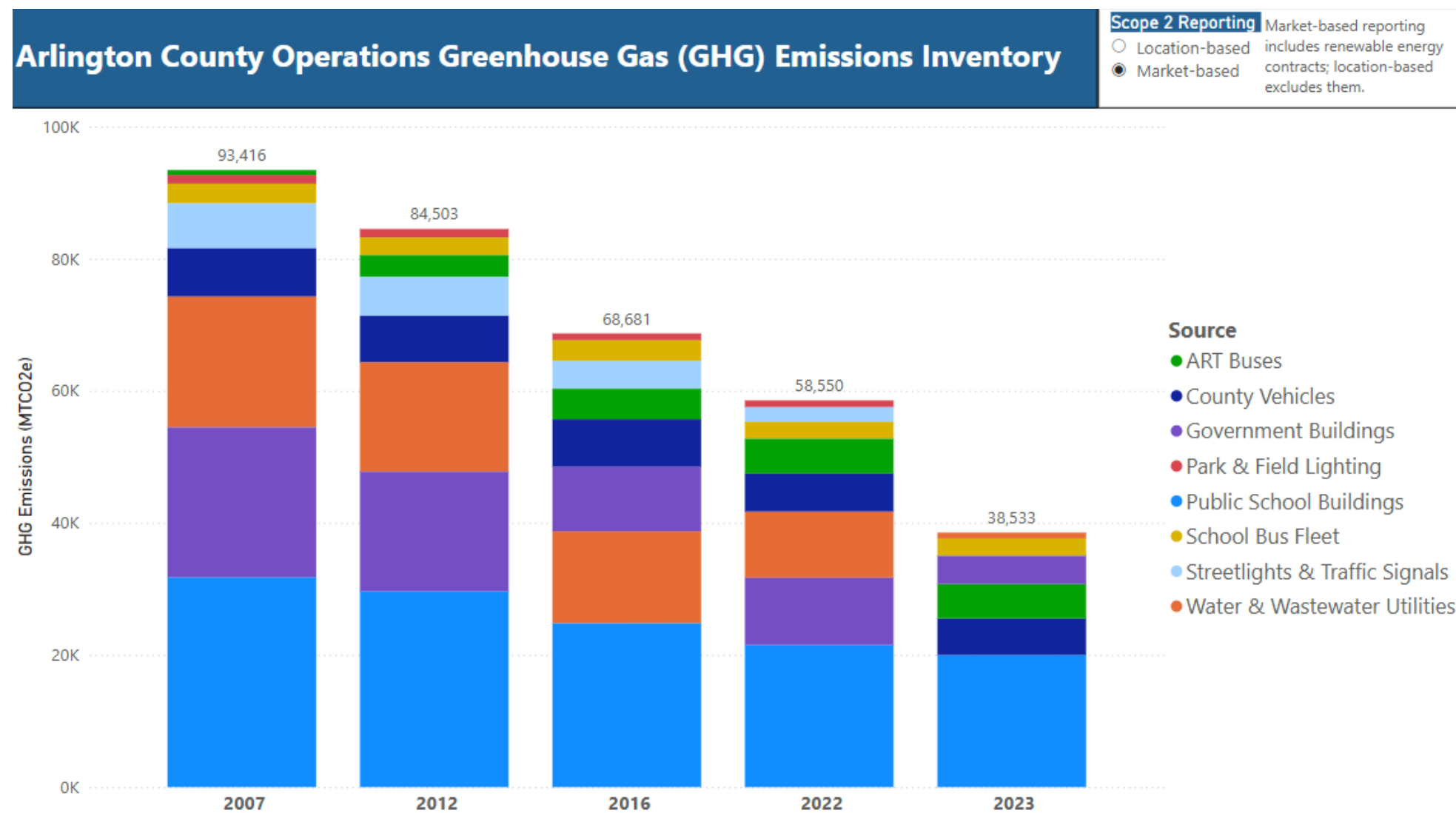
- Climate Action Plans (CAPs) in aggregate are the key to meeting GHG reduction targets
- We can't meet state targets unless local CAPs are implemented effectively
  - Data Tracking
  - Transparency
  - GHG Reductions Performance Tracking
  - Course Correction
- Local entities (Cities/Counties) are on the “front lines” in dealing with both GHG reductions and climate impacts
  - Wildfires
  - Extreme Heat Events
  - Drought
  - Coastal flooding
- Ideally, we are optimizing air quality and climate emission reductions (Co-Benefits)

# City of San Jose Climate Smart Dashboard

## GHG EMISSIONS: COMMUNITYWIDE EMISSIONS

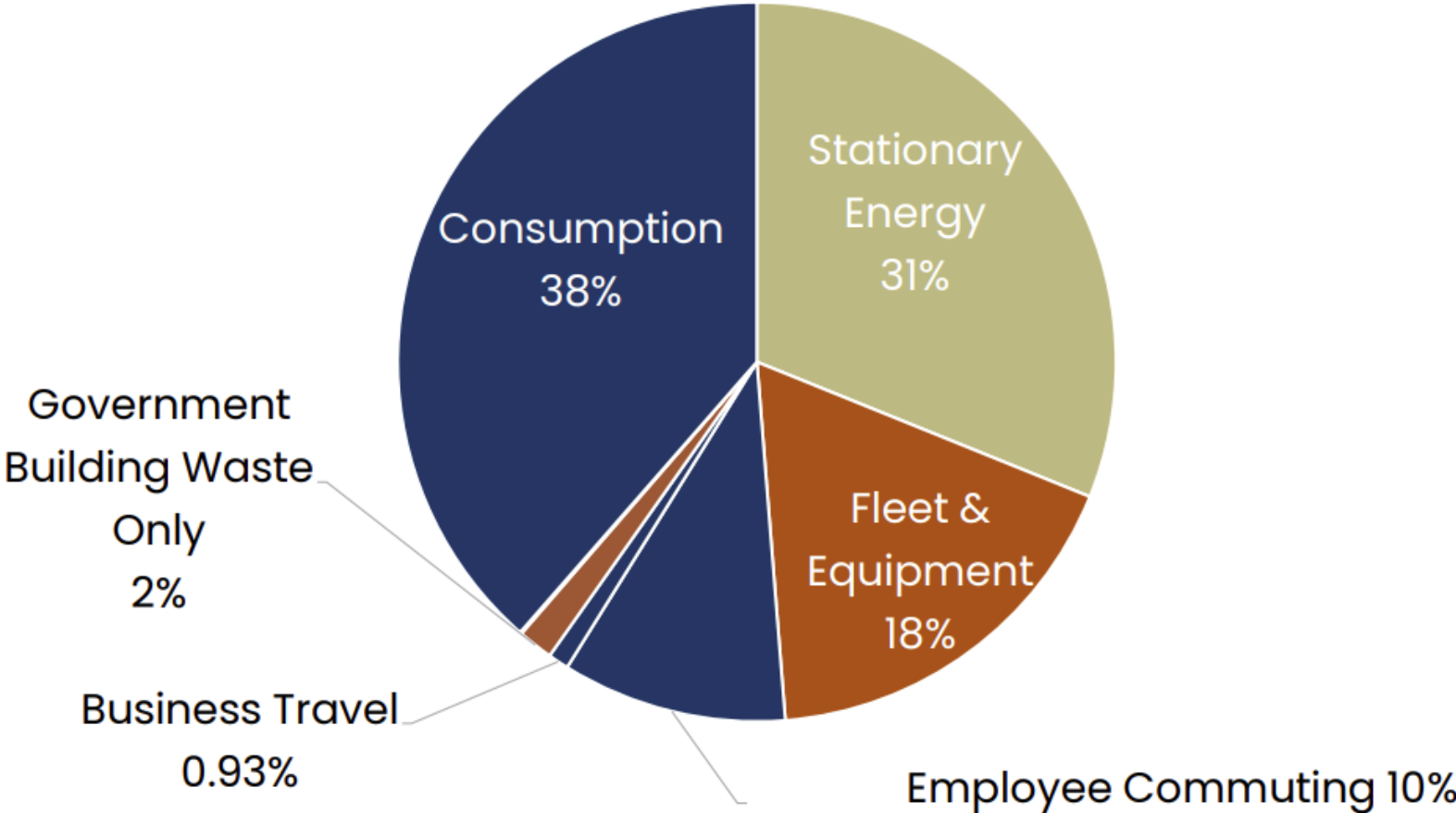


# Example of County GHG Reductions



# GHG Distribution

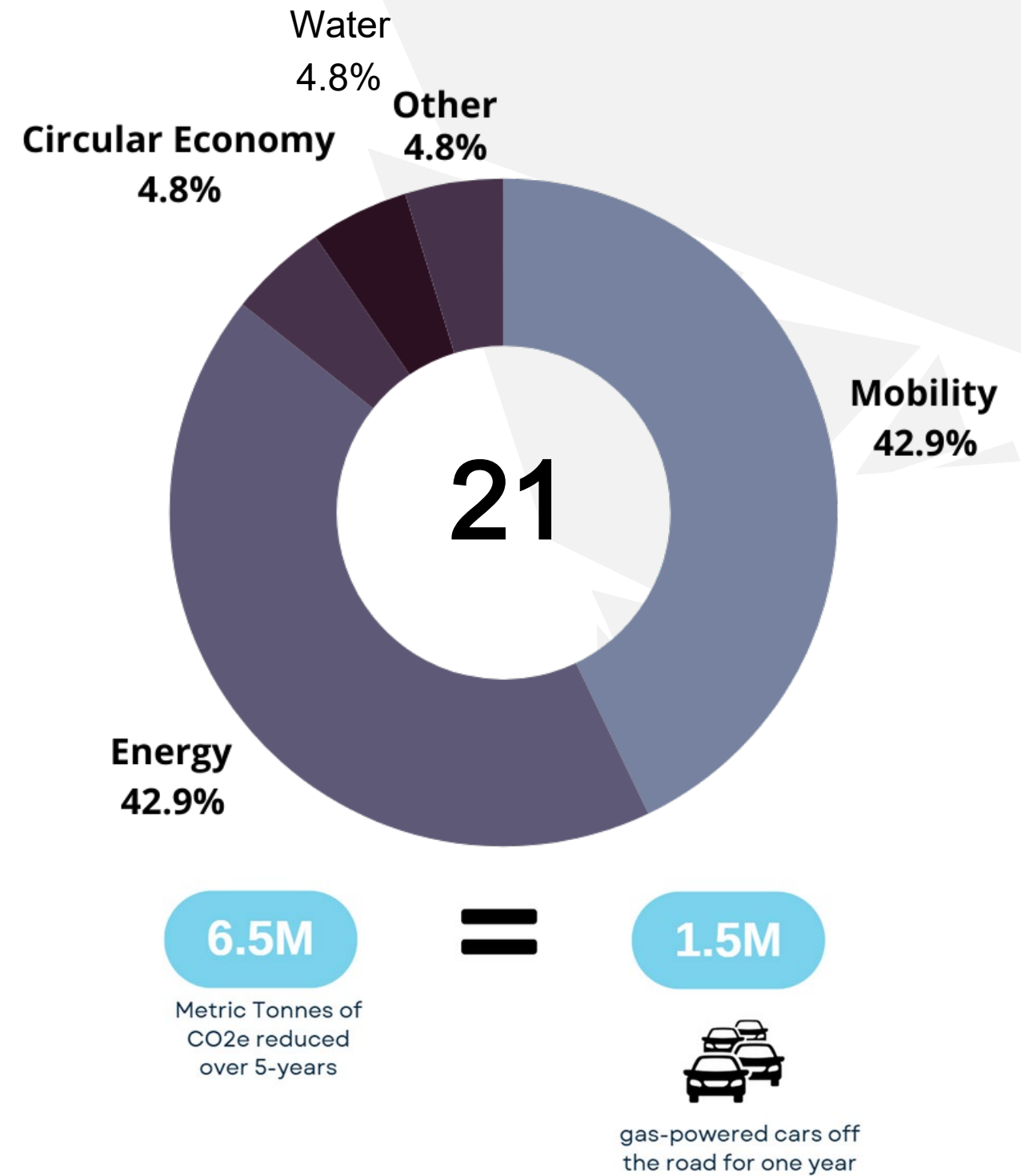
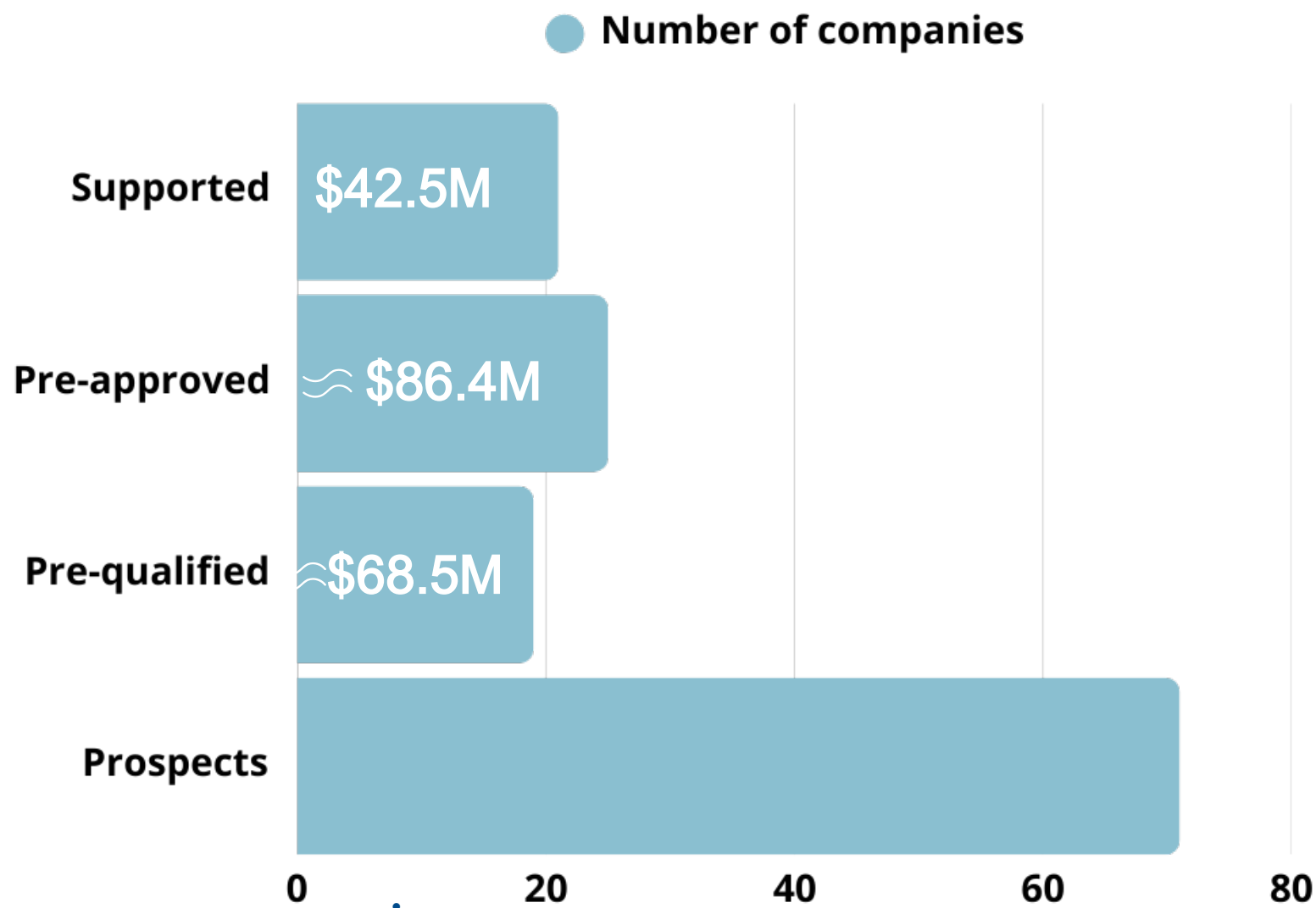
**Larimer County Operations Greenhouse Gas Emissions by  
Sector without Landfill (mt CO<sub>2</sub>e)**



# Program Information



# Program Impact



**Air District zero nitrogen oxides (NO<sub>x</sub>) standards adopted in March 2023, will support improvements to regional air quality and public health**

**Regulation 9, Rule 4:**

NO<sub>x</sub> from Fan Type Residential Central Furnaces

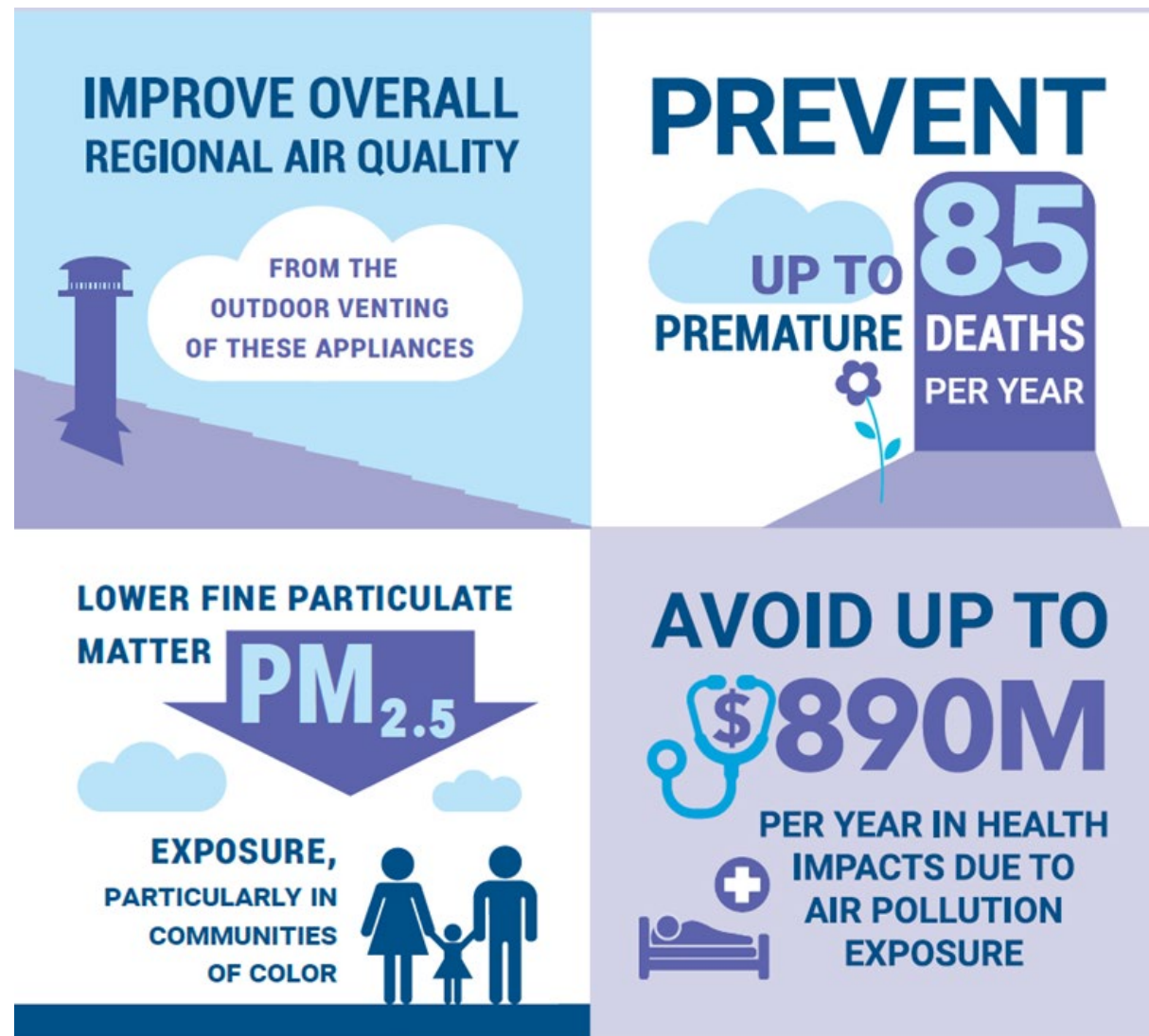


**Regulation 9, Rule 6:**

NO<sub>x</sub> Emissions from Natural Gas-Fired Boilers and Water Heaters



# Co-Benefits of Electrification



## PUBLIC HEALTH BENEFITS

The amended rules will affect Bay Area households that use natural gas appliances – roughly 2/3 of all households currently –



# Questions/Feedback

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## **For more information:**

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