

# Averting the Climate Crisis



Ideas + Action  
for a Better City

**SPUR envisions a region where all people thrive.**

**The region is environmentally just and resilient to climate change**



# **Climate Change Will Affect Every Aspect of our Society and Economy**

**Increasingly frequent and severe droughts and floods**

- **Snowpack will decline by two-thirds by 2100**

**Increasingly large and destructive fires**

- **Area burned statewide will increase 77% by 2100**

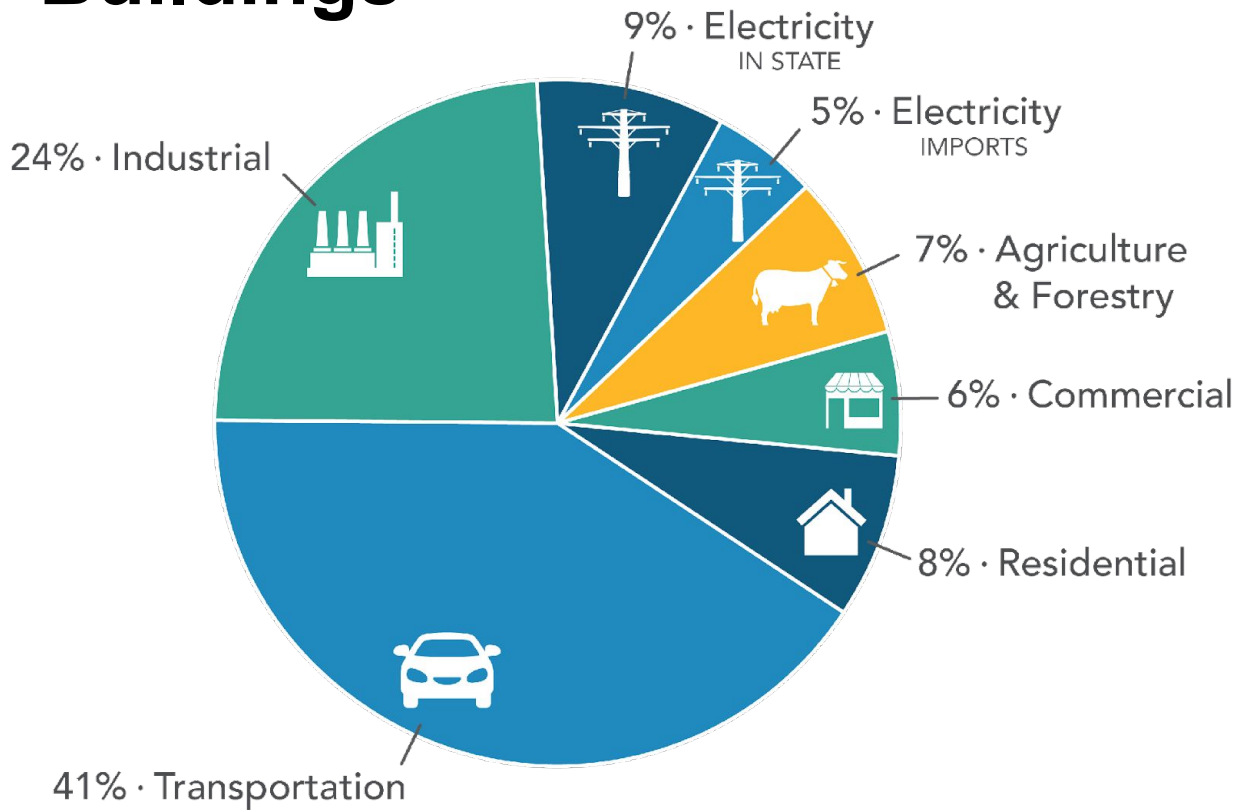
**More frequent heat waves**

- **Avg. annual max. temperature will increase 6-9 deg**

**Sea level rise will inundate low-lying coastal areas**

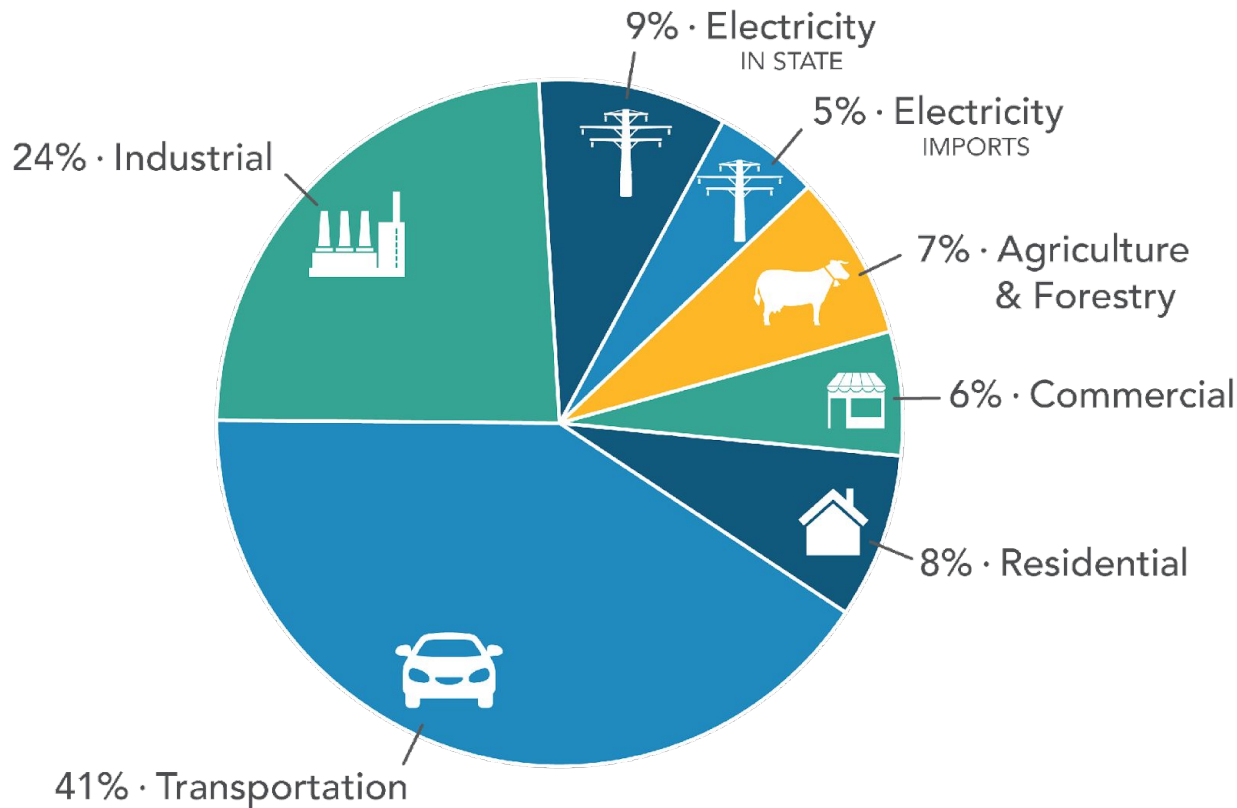
- **Displace 80,000 homes in the Bay Area**

# The Biggest Sources Are Transportation, Industry, Electricity, and Buildings



418.2 MMT CO<sub>2</sub>e  
2019 TOTAL CA EMISSIONS

# The Majority of Carbon Emissions are Driven By Choices Made at the Local Level



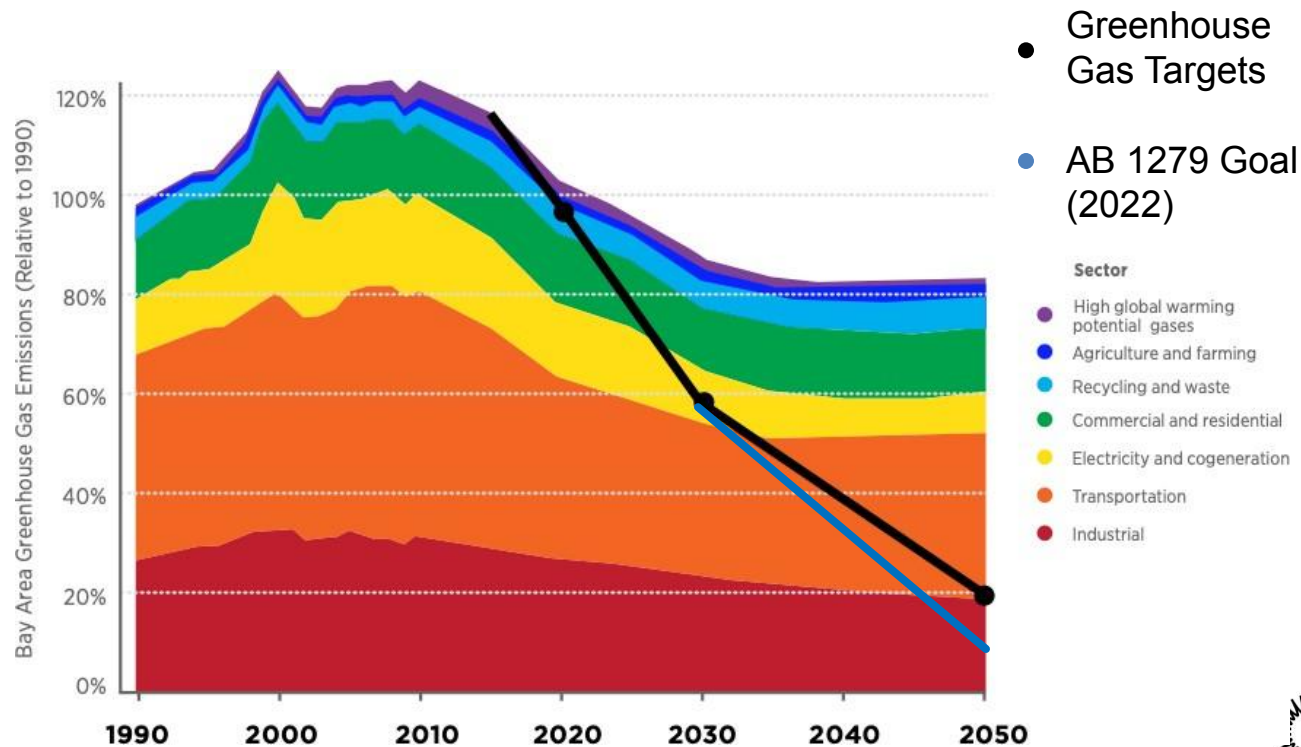
25% of emissions come from energy use in buildings

29% are from passenger vehicles

418.2 MMT CO<sub>2</sub>e  
2019 TOTAL CA EMISSIONS

# California's Climate Goals

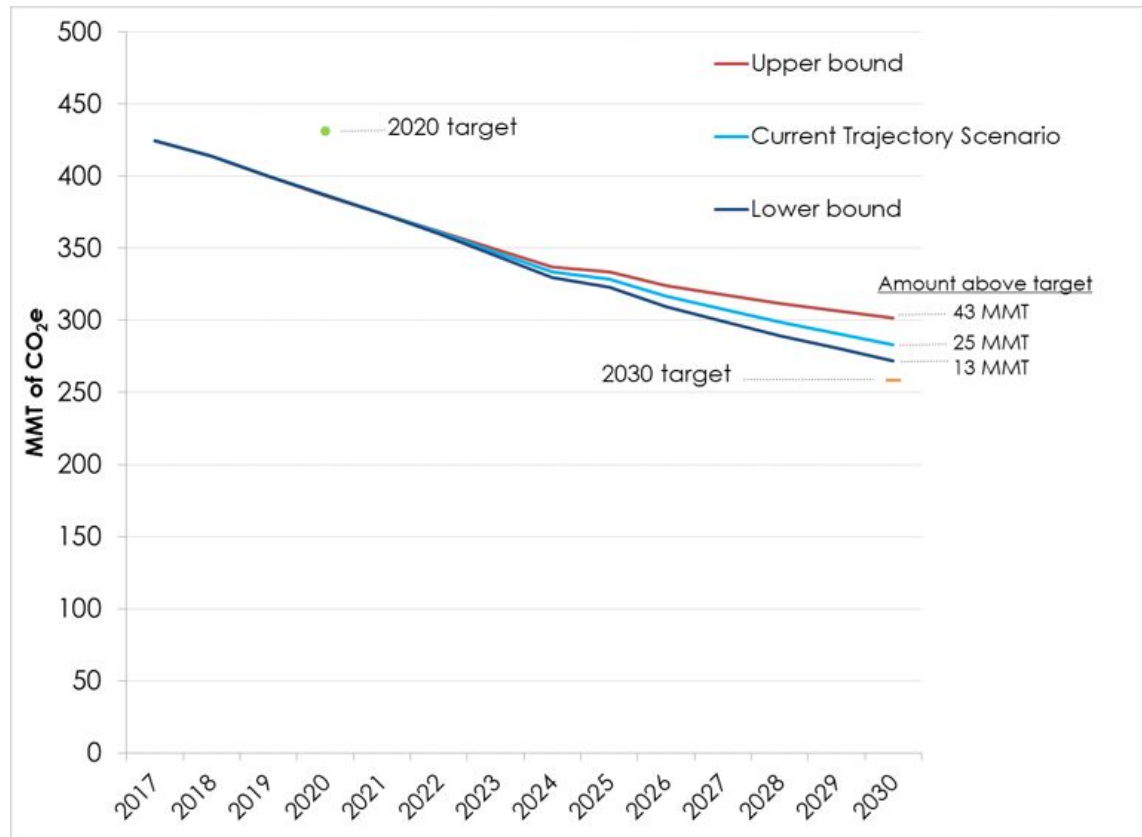
California's goals: Carbon neutral as soon as possible, but no later than 2045  
Reduce emissions by 40% below 1990 level by 2030  
Reduce emissions 85% below 1990 by 2045 (AB 1279)



Source: BAAQMD, 2015. Reproduced in SPUR report, *Fossil Fuel Bay Area* (2016).

# California is Off Track for its 2030 Target

On its current trajectory, California will miss its 2030 target by about 10%



Source: Busch and Orvis, *Insights from the California Energy Policy Simulator* (2020).

# Three Big Ideas for the Bay Area:

1. **Consume less fossil fuel**
2. **Electrify most energy uses**
3. **Generate renewable energy**



# Consume Less Fossil Fuel

- Increase the energy performance of new buildings, and improve code enforcement
- Require systematic energy retrofits of existing buildings
- Control sprawl by protecting open space, supporting infill development, and increasing density in places served by transit



# Electrify Most Energy Uses

Electrify passenger vehicles and scale up electric vehicle infrastructure

Electrify fossil fuel uses in buildings



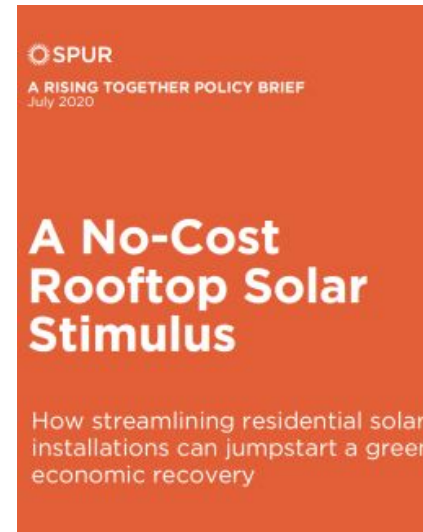
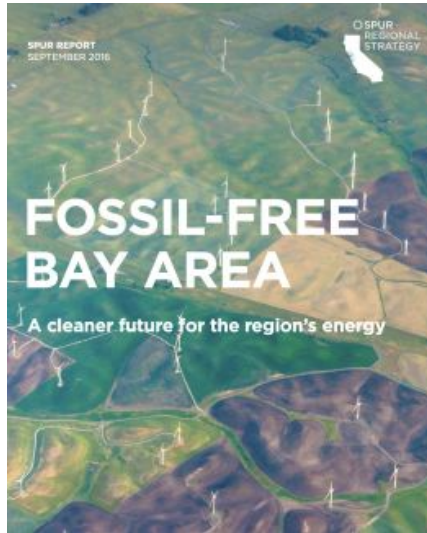
# Convert to Renewable Energy Sources

Convert all electricity to renewable sources

Decarbonize fuel sources that are hard to electrify



# SPUR Reports



# Thank you



# Extra Slides

# Emissions Over Time by Sector

