

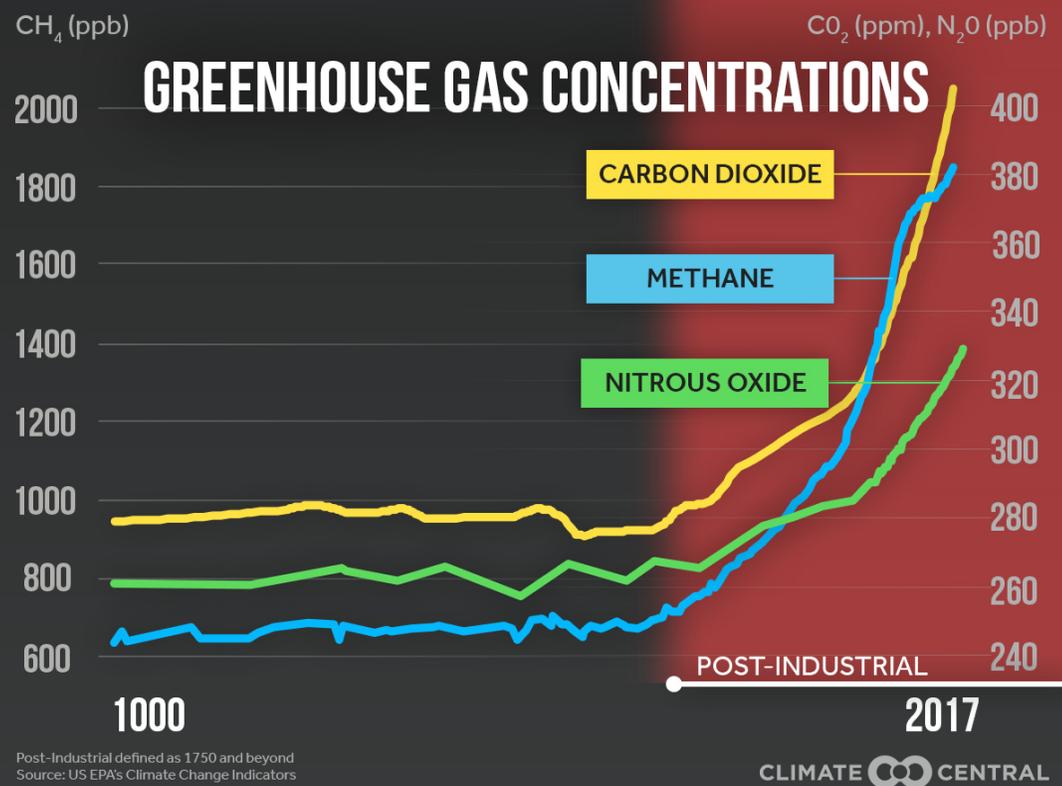
2022 Scoping Plan Update

Engineered Carbon Removal Technical Workshop

AUGUST 2, 2021

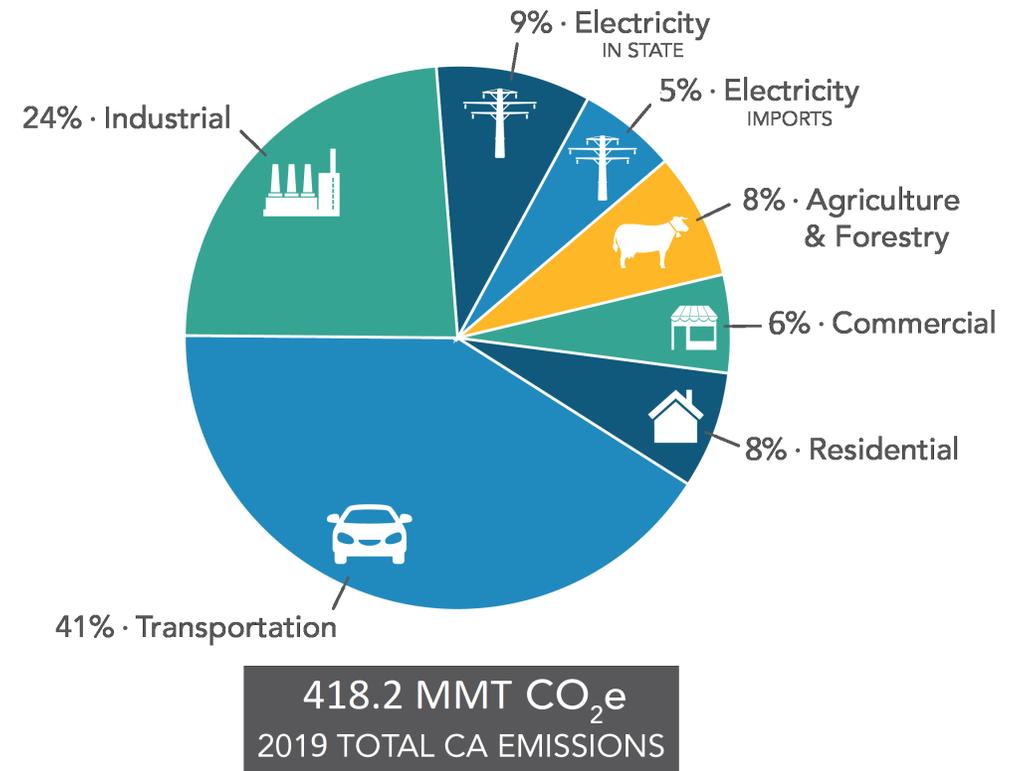
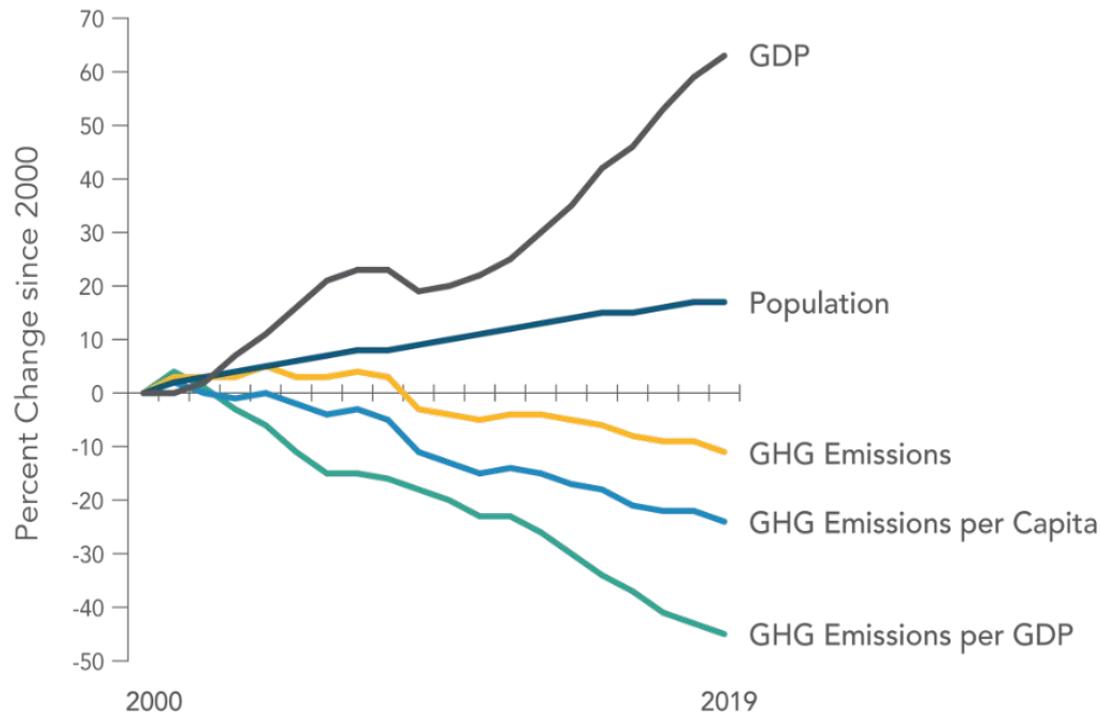


Global Greenhouse Gas Emissions Trends



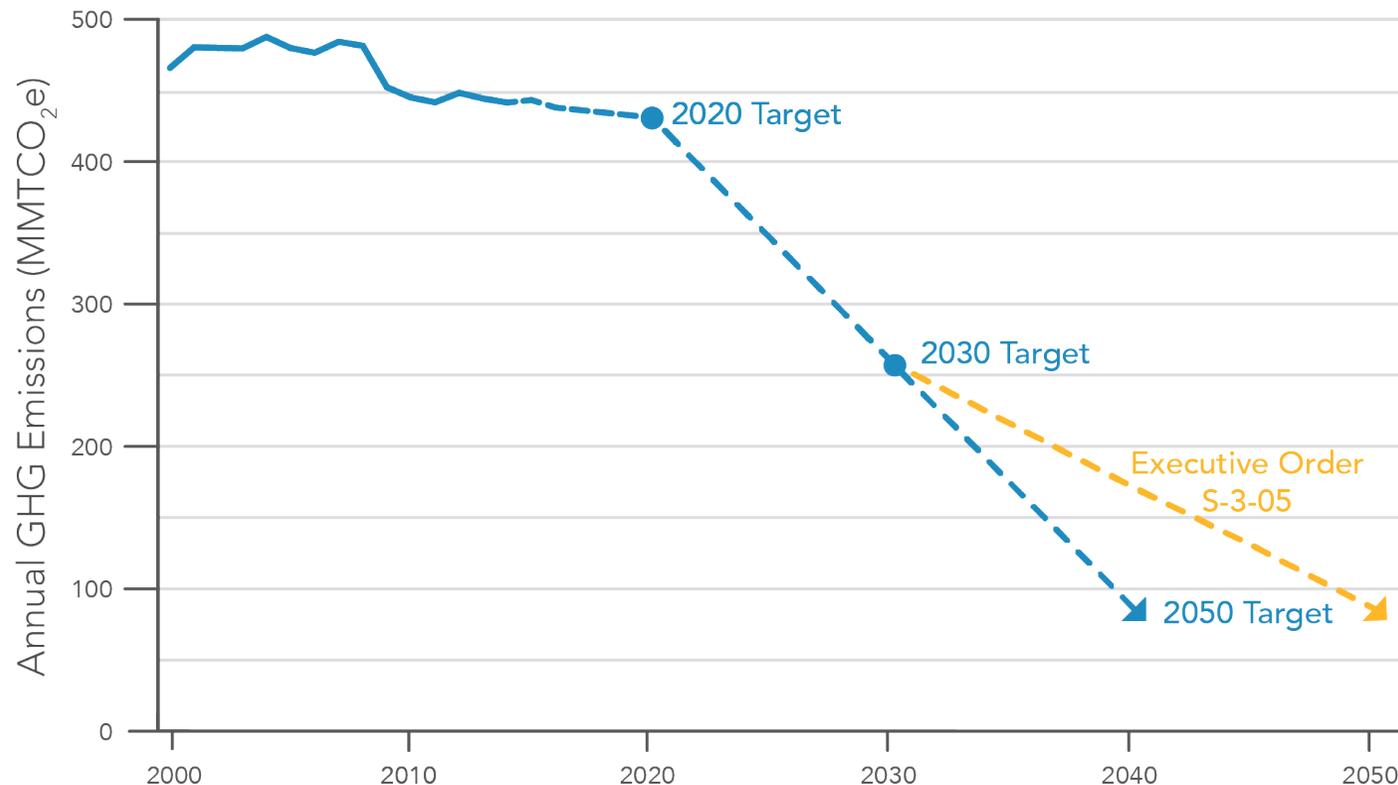
- 2021 CO₂ concentrations 419 ppm
- Emitted GHGs remain for long periods of time, piling up in the atmosphere
- Carbon removal can address ongoing emissions and historical emissions that continue to contribute to climate change

California's Trends



Source: 2021 Edition, California Greenhouse Gas Emission Inventory: 2000-2019

CA GHG Reduction Targets



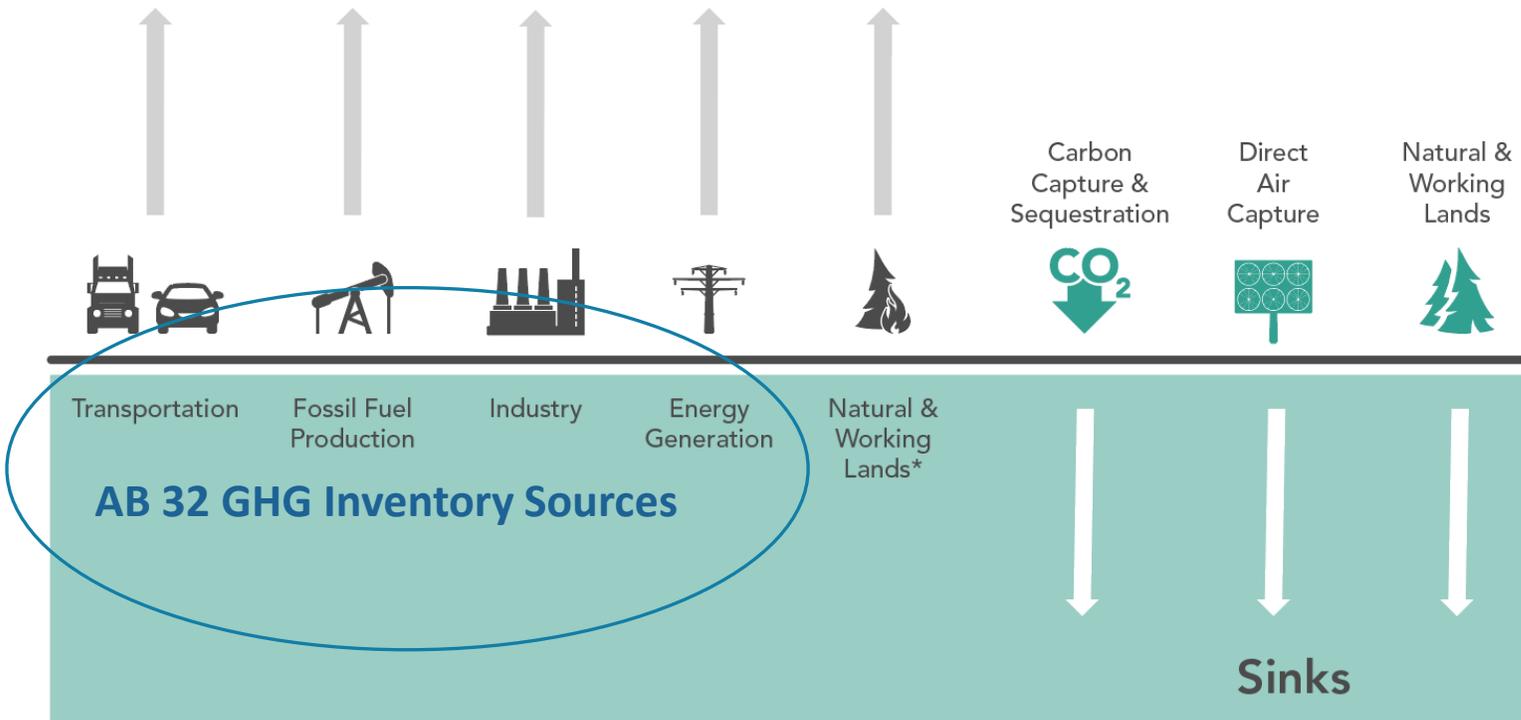
Source: CARB, 2017

- SB 32 Target -40% below 1990 levels
- 2030 milestone on way to carbon neutrality
- Identify least regret actions that achieve 2030 and support carbon neutrality
- Avoid stranded assets
- Set long term goals to attract private capital for research, development and deployment of clean technology

Science-based Target: Achieve Carbon Neutrality (CO₂e) Mid-Century

Sources equal Sinks

Sources



- Continue to reduce emissions from sources in AB 32 GHG Inventory
- Reduce emissions and increase sequestration in Natural and Working Lands
- Maximize all sinks with goal of achieving net negative

*Natural and working land emissions come from wildfires, disease, land and ag management practices, and others

Engineered Carbon Removal

- Technology solutions that remove carbon dioxide from the atmosphere
 - Direct air capture
 - Capture from industrial facilities
- Storage and utilization options that keep carbon sequestered

Multi-State Agency Effort



List is not exhaustive

Staying Engaged

Scoping Plan Workshops	Environmental Justice Advisory Committee Meetings
Supporting Material and Information	Board Meetings
<u>www.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan</u>	

Public Comments

- Written comments
 - https://www.arb.ca.gov/lispub/comm2/bcsubform.php?listname=sp22-co2-removal-ws&comm_period=1
 - Comment closing date August 16, 2021 (midnight)
- Scoping Plan Meetings and Workshop webpage
 - <https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan/scoping-plan-meetings-workshops>