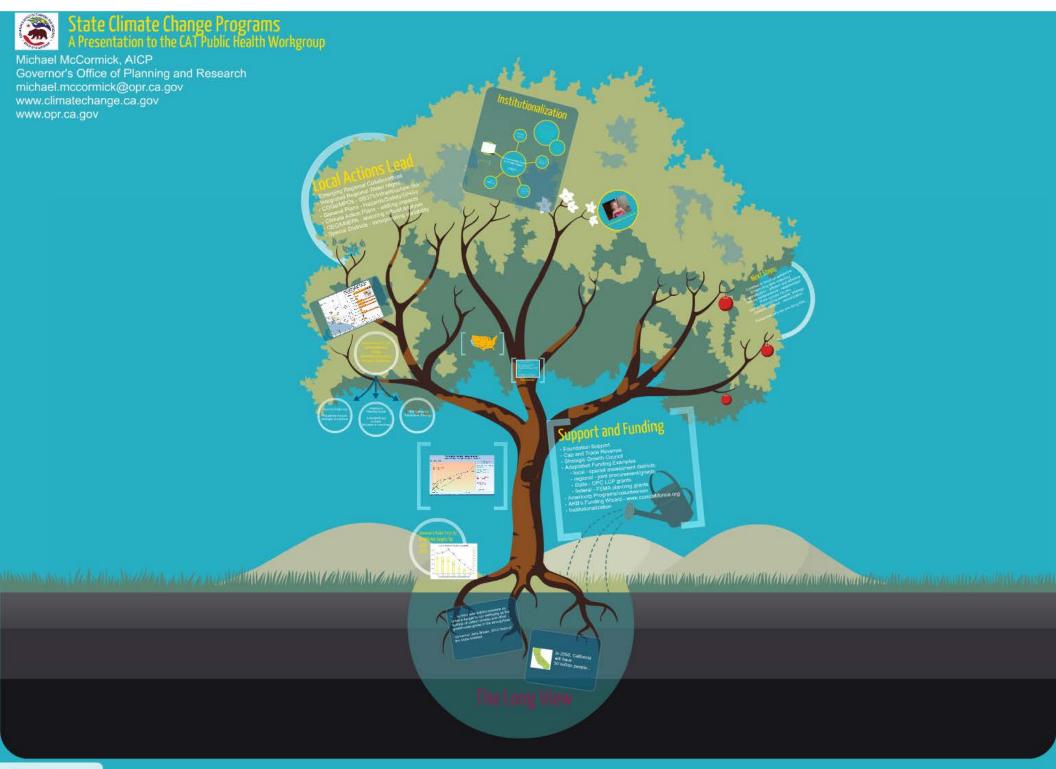


Michael McCormick, AICP Governor's Office of Planning and Research michael.mccormick@opr.ca.gov www.climatechange.ca.gov







"... no long term liability presents as great a danger to our wellbeing as the buildup of carbon dioxide and other greenhouse gases in the atmosphere."

-Governor Jerry Brown, 2013 State of the State Address



In 2050, California will have 50 million people...

The Long View



"... no long term liability presents as great a danger to our wellbeing as the buildup of carbon dioxide and other greenhouse gases in the atmosphere."

-Governor Jerry Brown, 2013 State of the State Address





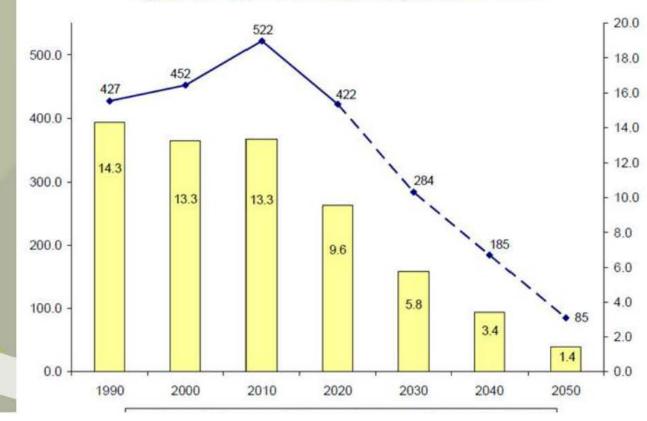
In 2050, California will have 50 million people...



Governor's Order S-03-05 Establishes targets for:

2020 2050

Figure 6: Emissions Trajectory Toward 2050





PER CAPITA ELECTRICITY CONSUMPTION



(Source: US Energy Information Administration)



For example, by 2050...

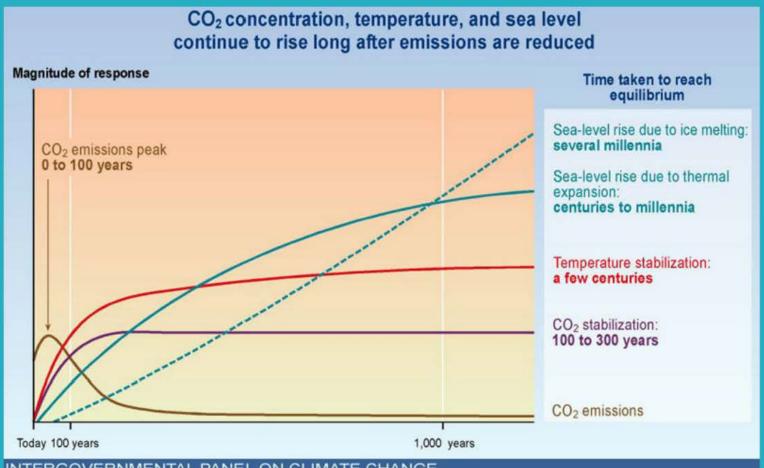
The vast majority (85%+) of vehicles will need to be zero emission vehicles (ZEVs)

AND

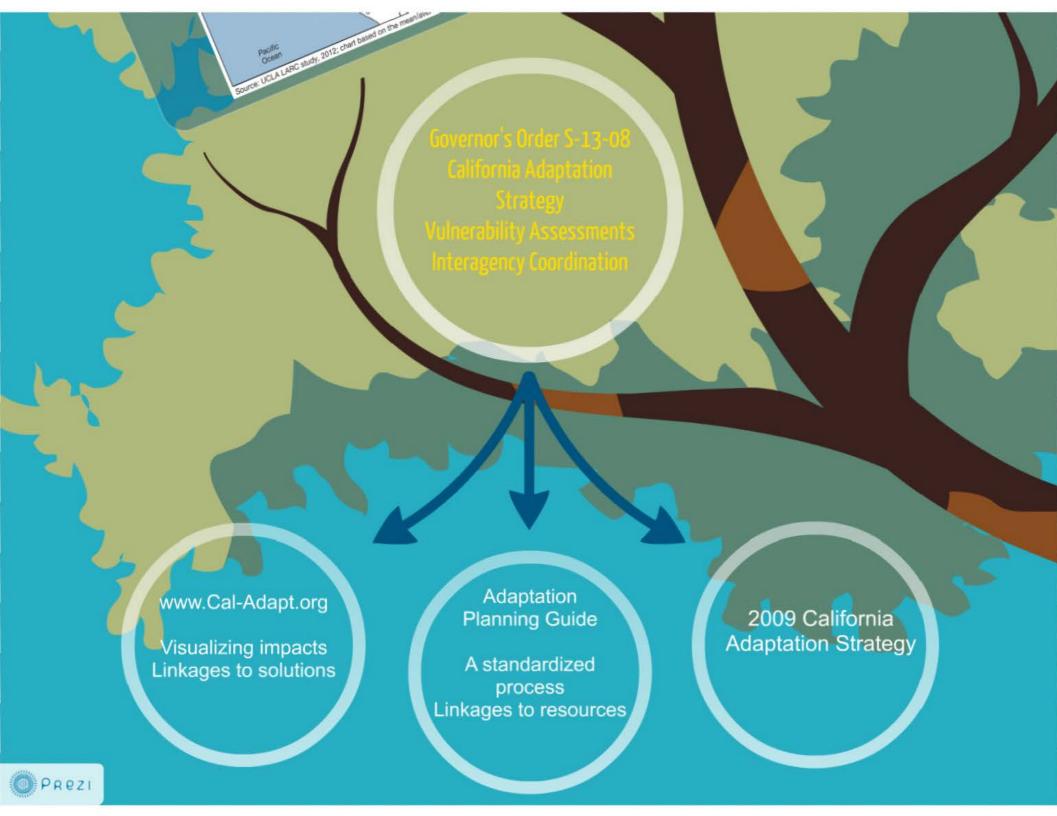
The energy sector will need to eliminate almost all emissions.

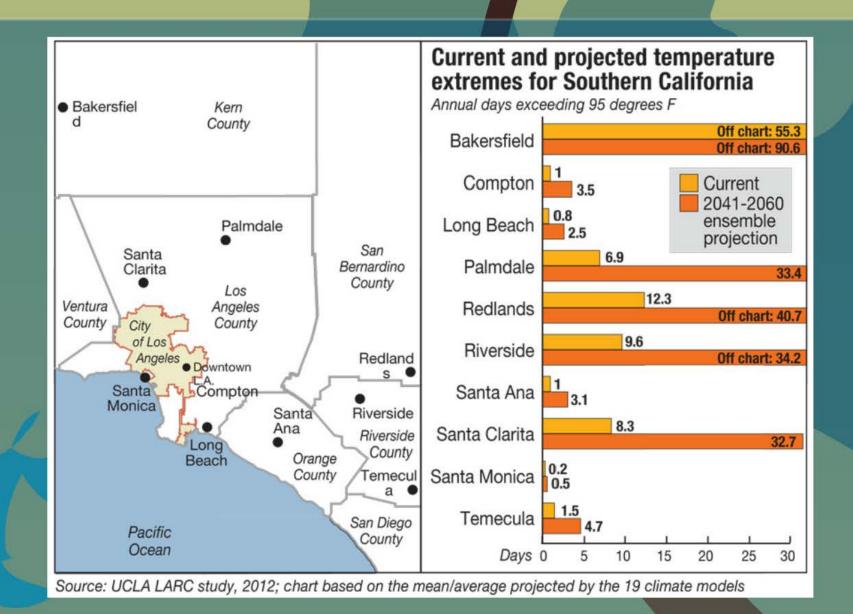
"Transformation"



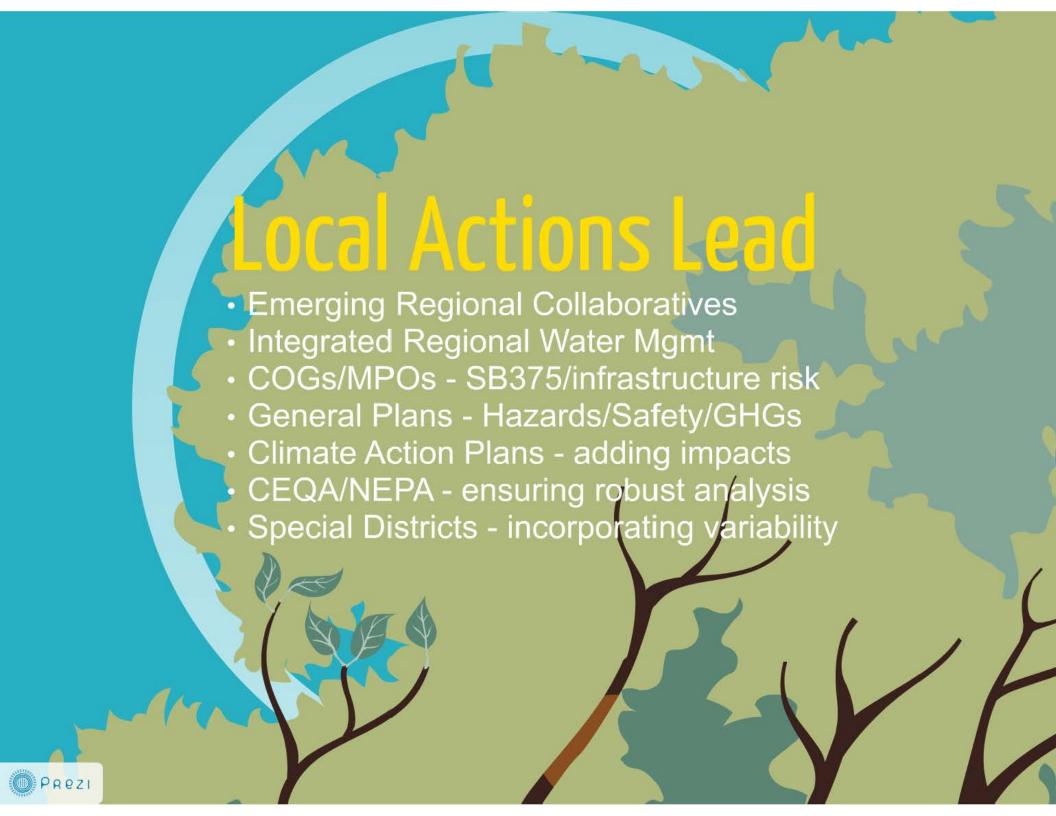


INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE









Institutionalization

Carbonia Adactation Strongy Update Consument with other programbolicy whats Other Pagners

Federal (NOAA, CEQ, EPA, etc) NGO partners (ICLE), etc) International linkages Data and research Indicators of progress

A Marine Committee

Property and the Control of the Cont

U. A. I. B. COLD.

NAME OF TAXABLE PARTY.

Environmental Goals and Policy Report

CA@50

Connection to recovery extens local and regional plans peoples plans

Arctic Scoping Plan Liptere
Connection to broader State
Planning Provities

Inturiin target

CEGA Administrative Changes Legislative Reform



California Adaptation Strategy Update

Concurrent with other program/policy efforts



State Hazard Mitigation Plan Update

Connection to recovery dollars, local and regional plans, general plans



AB32 Scoping Plan Update

Connection to broader State Planning Priorities

Interim targets



CEQA Administrative Changes Legislative Reform



State efforts that are or will be influencing local climate change related policy



| Document/Process | 4th Quarter of 2012 | 1st Quarter 2013 | 2rd Quarter 2013 | 3rd Quarter 2013 | 4th Quarter 2013 | 1st Quarter 2014 | Mid to late 2014 |
|--|---------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|---------------------|
| Environmental Goals and Policy Report | | | | | | | |
| AB 32 Scoping Plan Update | | 7 | | | | | \Box |
| Climate Adaptation Strategy Update | | | | | | | $\overline{}$ |
| Climate Action Team (CAT) Climate Change Research Plan | | | | | | | |
| Climate Change 3rd Assessment Report | | | | į, | | | |
| Bioenergy Action Plan | | | | | | | |
| Zero Emissions Vehicle (ZEV) Action Plan | | | | | | | \Box |
| Climate Adaptation Planning Guide | | | | | | | |
| California Local Energy Assurance Planning (CaLEAP) Tool | | | | | | | |
| Integrating Public Health into CAPs | | | | | | | |
| DWR Climate Action Plan | | | | | | | |
| Integrated Energy Policy Report | | | | | | | |
| Zero Emissions Vehicle (ZEV) Readiness Guidebook | | | | | | | |
| MPO Adaptation Guidance | | | | | | | |
| Sea-Level Rise Guidance Revision | | | | | | | |
| Electric Program Investment Charge Investment Plan | | | | | | | |
| Cap and Trade Investment Plan | | | | | | | |
| Geoportal Public Access | | | | | | | |
| Climate Change Consortium for Specialty Crops Report | | | | | | | |
| Extreme Heat Adaptation Guidance | | | | | | | |
| SEEC GHG Inventory and Forecast Tools Update | | | | | | | |
| Indicators of Climate Change in California Report | | | | | | | |
| State Hazard Mitigation Plan Update | | | | | | | |
| California Water Plan Update | | | | | | | |
| Climate Action Plan Technical Advisory | | | | | | | |
| Sea-Level Rise Guidance LCPs and CDPs | | | | | | | |
| Governor's Initiative Americorp Program | | | | | | | |
| General Plan Guidelines Update | | | | | | | |
| Desert Renewable Energy Conservation Plan | | ļ. j | | | | | |
| CEQA Guidelines Update | | | | | | | |
| GHG Data Working Group | | | | | | | |
| Energy Efficiency Strategic Plan | | | | | | | |
| CalAdapt Update | | | | | | | |
| Climate Change 4th Assessment Report | | | | | | | |
| State Wildlife Action Plan | | | | | | | |
| California's Forests and Rangelands Assessment Update | | | | | | | |
| | | | | | 1 | | |



Other Partners

Federal (NOAA, CEQ, EPA, etc)
NGO partners (ICLEI,etc)
International linkages
Data and research
Indicators of progress

Regionalization

The Alliance of Region Collaboratives for Clim Adaptation (ARCCA)



gress

Regionalization

The Alliance of Regional Collaboratives for Climate Adaptation (ARCCA)

San Diego, Los Angeles, Bay Area, Sacramento, OPR



Support and Funding

- Foundation Support
- Cap and Trade Revenue
- Strategic Growth Council
- Adaptation Funding Examples
 - · local special assessment districts
 - regional joint procurement/grants
 - State OPC LCP grants
 - federal FEMA planning grants
- Americorp Programs/volunteerism
- ARB's Funding Wizard www.coolcalifornia.org
- Institutionalization

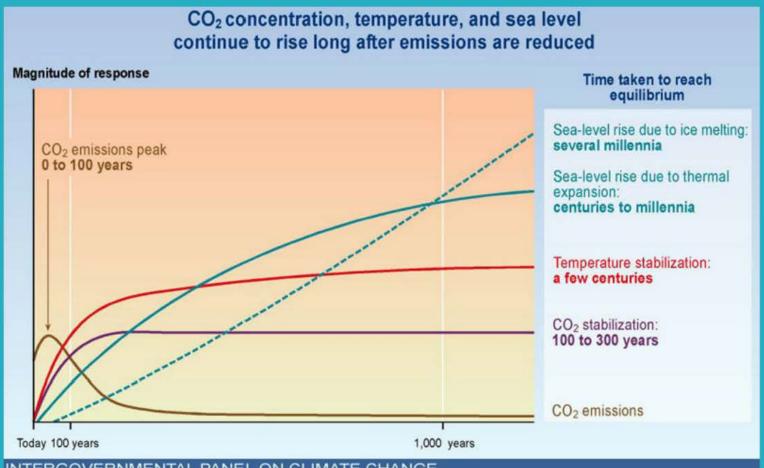






In 2100 my daughter will be 91 years old





INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE



In 2050, California will have 50 million people...





State Climate Change Programs A Presentation to the CAT Public Health Workgrou

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