



# Clearing the Air Cooling the Planet

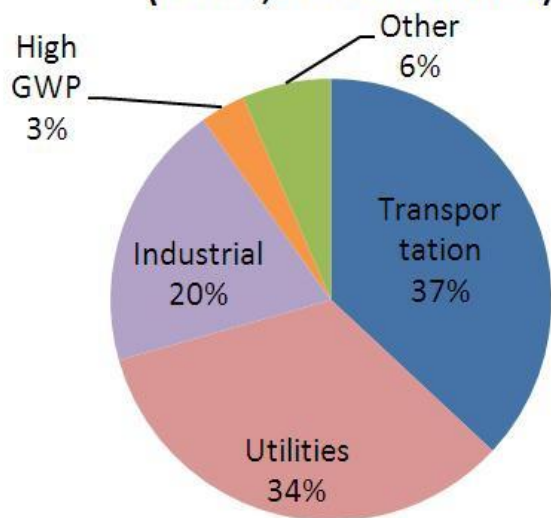
Protecting Health through  
Climate and Clean Air  
Policy

Martha Dina Arguello



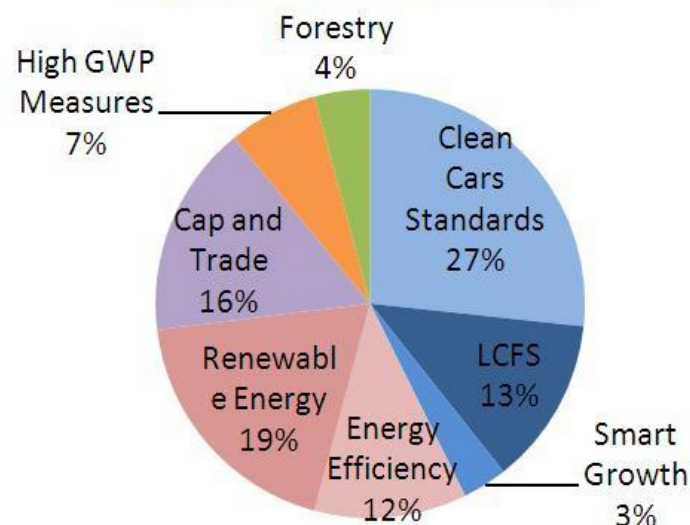
# California's Clean Energy Policy Landscape...

**California Emission Sources (2008)**  
(Sector, Percent of Total)



Source: CARB, California GHG Inventory for 2000-2008

**AB 32 Emission Reduction Strategies**  
(Measure, Percent of Total)



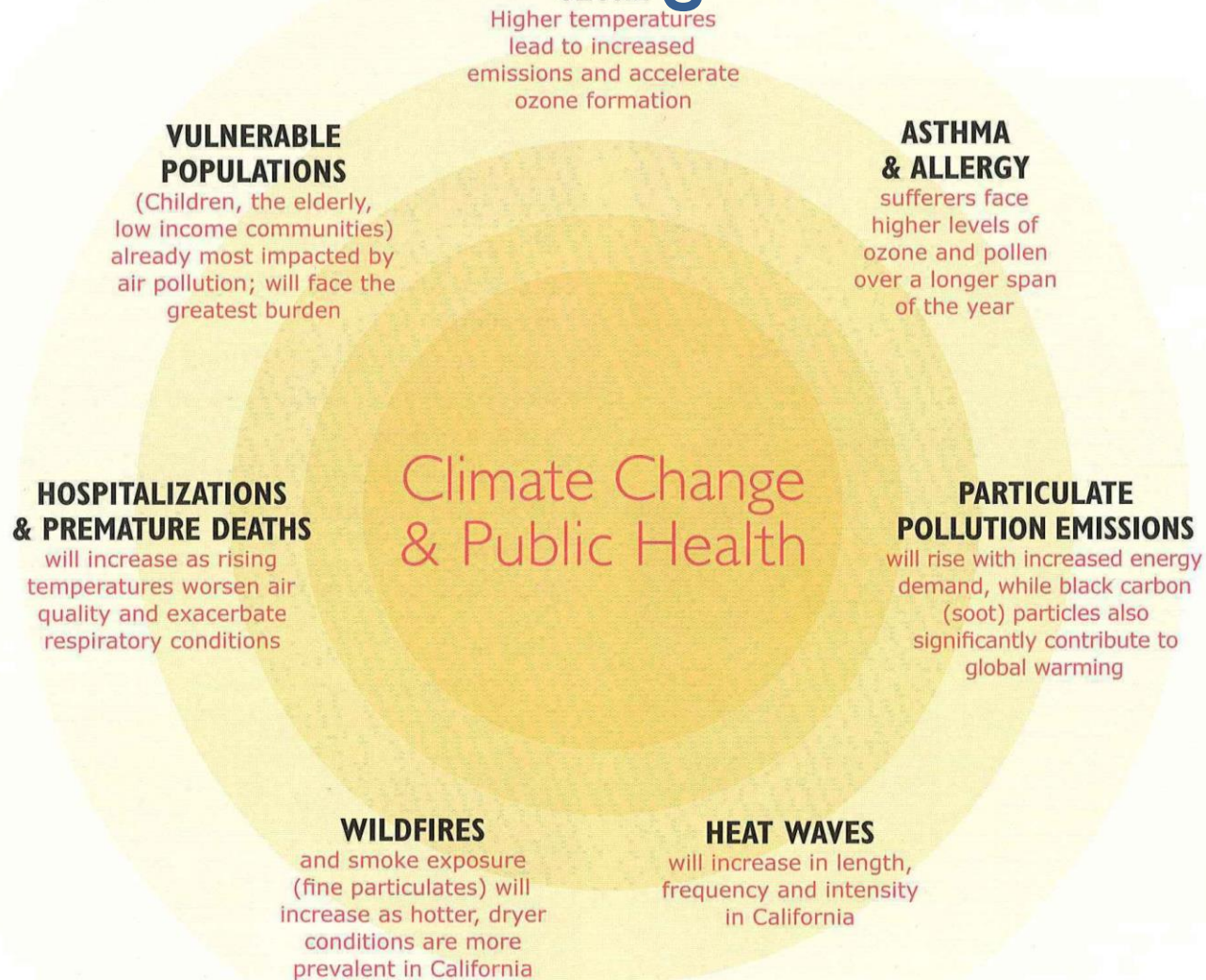
Source: CARB, Emissions Reductions from Scoping Plan Measures; 2020 GHG Emissions Forecast

# Climate Change and Health at a glance

## Potential Impacts of Global Climate Change on Human Health



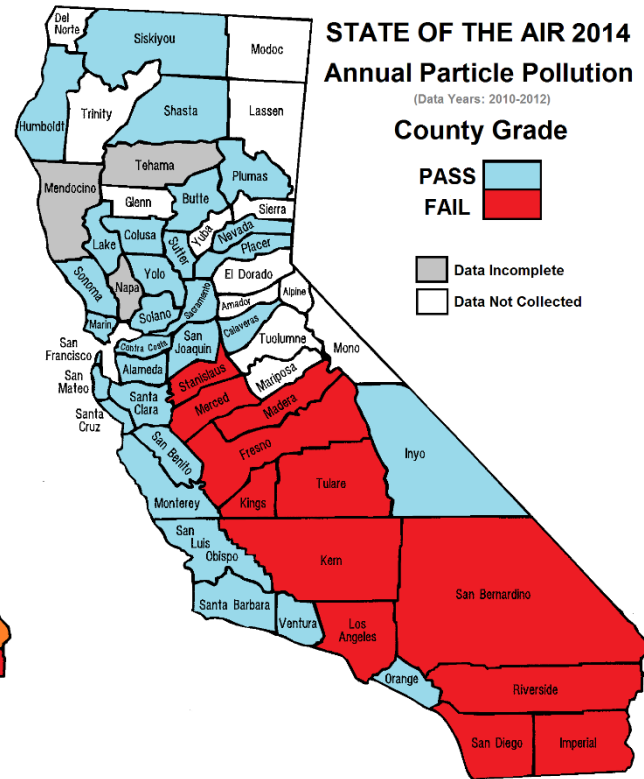
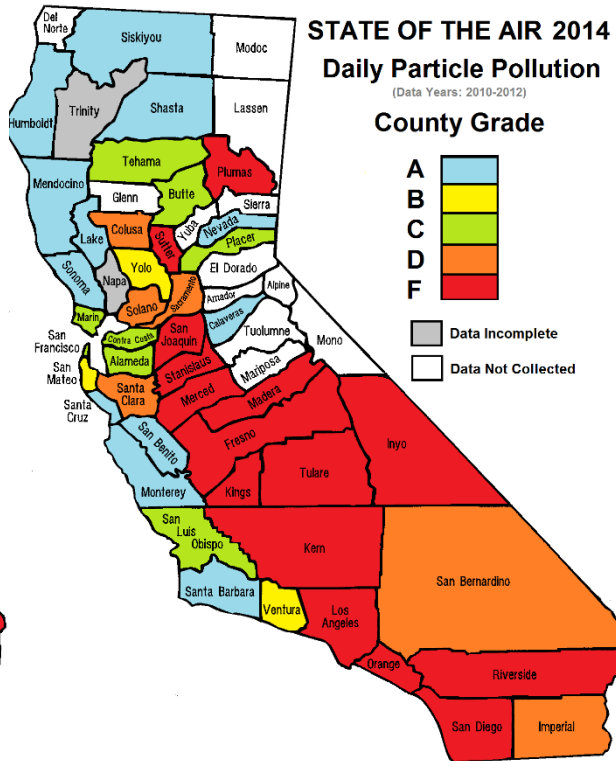
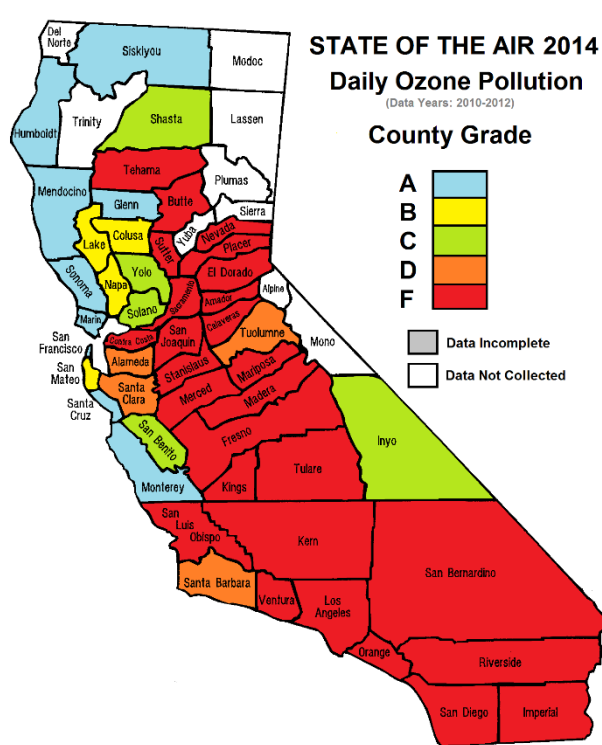
# Respiratory Health Effects of Climate Change



# Who's Living With Dirty Air in California?



# Overview: California Grades





## **Air Pollution Health Risks**

- Premature death
- Asthma attacks
- Heart attacks, strokes
- Worsening of pulmonary & cardiovascular diseases
- Hospital and emergency room admissions
- Stunted lung growth

# THE COST OF BREATHING

- **2010 RAND Corporation**
  - *During 2005-2007, unhealthy air cost \$193M* in hospital admissions and emergency room visits during.
- **2008 CSU Fullerton research**
  - *meeting federal clean air standards could avoid billions throughout California:*
    - nearly \$6 billion in the San Joaquin Valley and
    - almost \$22 billion in the Los Angeles region
- **2008 UC Berkeley Research**
  - *annual ozone-related public health costs could reach \$10 billion*

# Air pollution and Reproductive Health



Research | Children's Health

## Traffic-Related Air Toxics and Term Low Birth Weight in Los Angeles County, California

*Michelle Wilhelm,<sup>1</sup> Jo Kay Ghosh,<sup>1</sup> Jason Su,<sup>2</sup> Myles Cockburn,<sup>3</sup> Michael Jerrett,<sup>2</sup> and Beate Ritz<sup>1</sup>*

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# Short Lived Climate Pollutants



America's natural gas system is leaky and in need of a fix, new study finds



# What are Short-Lived Climate Pollutants?

## Short-lived Climate Pollutants

Near term response to mitigation



ANTHROPOGENIC SOURCES

LIFETIME IN ATMOSPHERE

LOCAL  
REGIONAL  
GLOBAL

IMPACTS / MITIGATION

SLCP  
IMPACTS

**Black Carbon (BC)**



Days



**Methane (CH<sub>4</sub>)**



12 years



**Tropospheric Ozone (O<sub>3</sub>)**



Weeks



**Hydrofluorocarbons (HFCs)**



15 years  
(Weighted by usage)



Harm public health



Reduce food security



Warm the atmosphere



Increase ice and snow melting



Disrupt weather patterns



## Long-lived Climate Pollutants

Longer term response to mitigation

**Carbon Dioxide (CO<sub>2</sub>)**

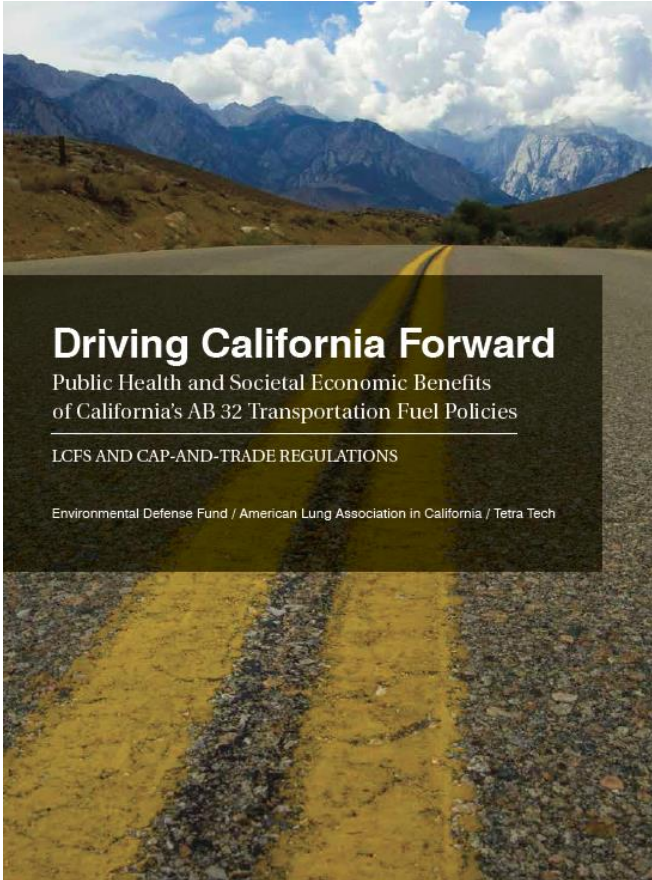
Rapid, deep, and persistent cuts in CO<sub>2</sub> and other long-lived greenhouse gases are necessary to stabilise global temperature rise in the long term.

Up to 60%  
<100 years  
Up to 25%  
>1,000 years



CCAC

# Driving California Forward

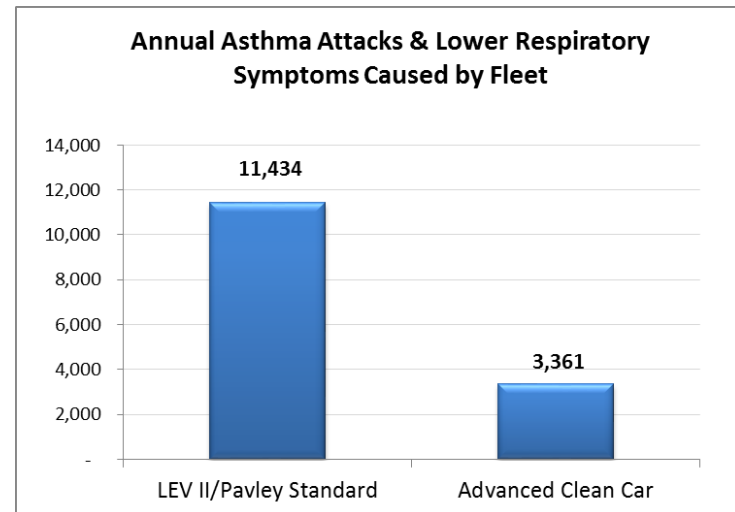
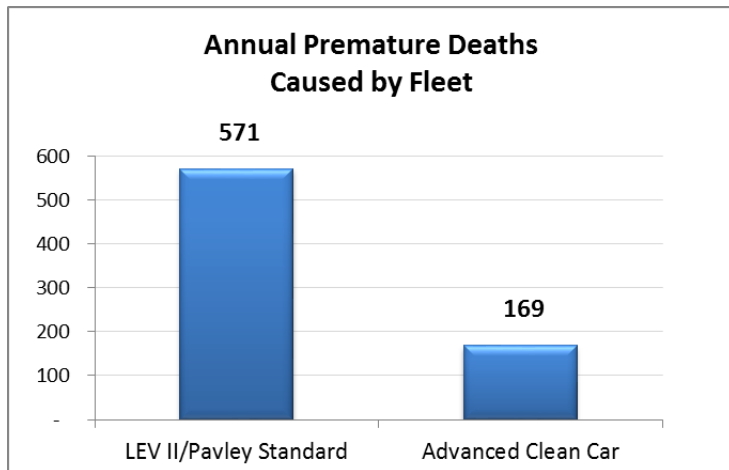


## Two key clean fuels policies avoid:

- \$23 billion in societal costs
- \$8.3 billion in health costs

Impacts Avoided	Avoided By 2020	Avoided By 2025
Premature deaths	470	882
Asthma attacks	20,645	38,321
Heart attacks	311	597
Lost work days	40,316	74,339
Hospitalizations	340	643

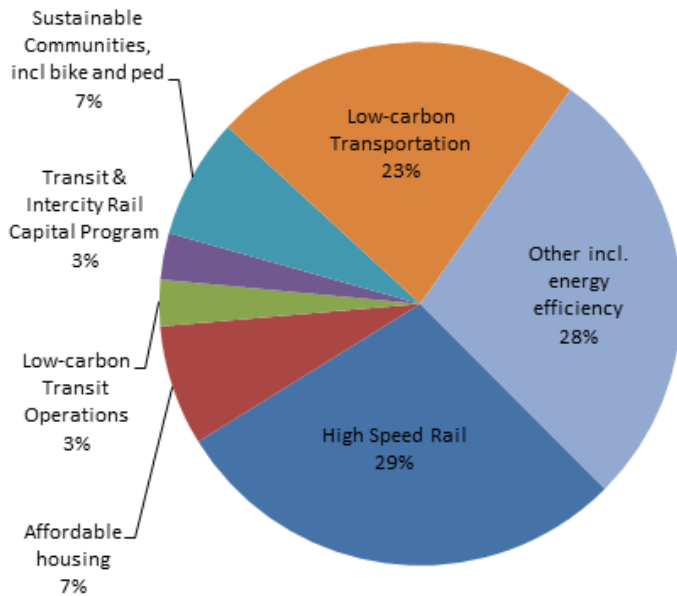
# Cleaner Cars Improve Public Health



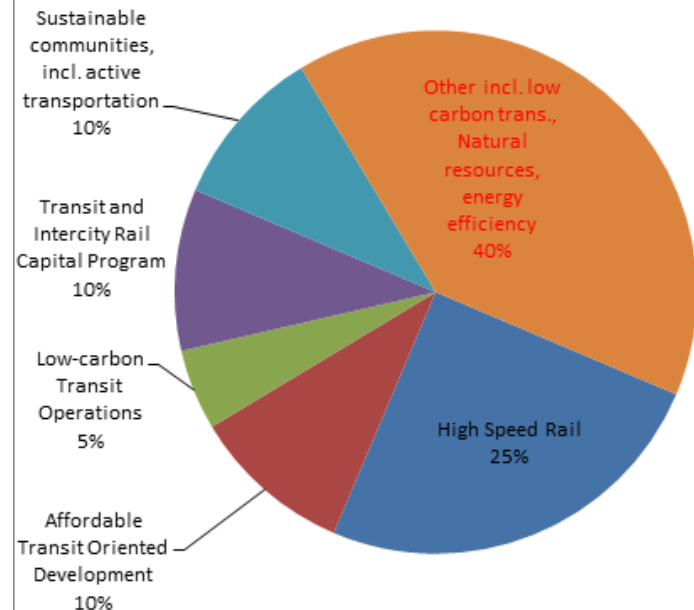
# AB 32 Cap & Trade Auction Proceeds

- \$872 million investment in 2014-15 budget
- Percentages given for future allocations.

### First Year Allocation (\$872 M)



### Future allocations



## AB 32 Invests in Local Communities

- \$872 million investment in 2014-15 budget
  - \$230 million to disadvantaged communities
  - Sustainable communities
  - Active transportation
  - Affordable Transit Oriented Development
  - Transit programs
  - Energy efficiency
  - Rail modernization

**“The Stone Age did not end because we ran out of stones; the Oil Age will not end because the world runs out of oil.”**

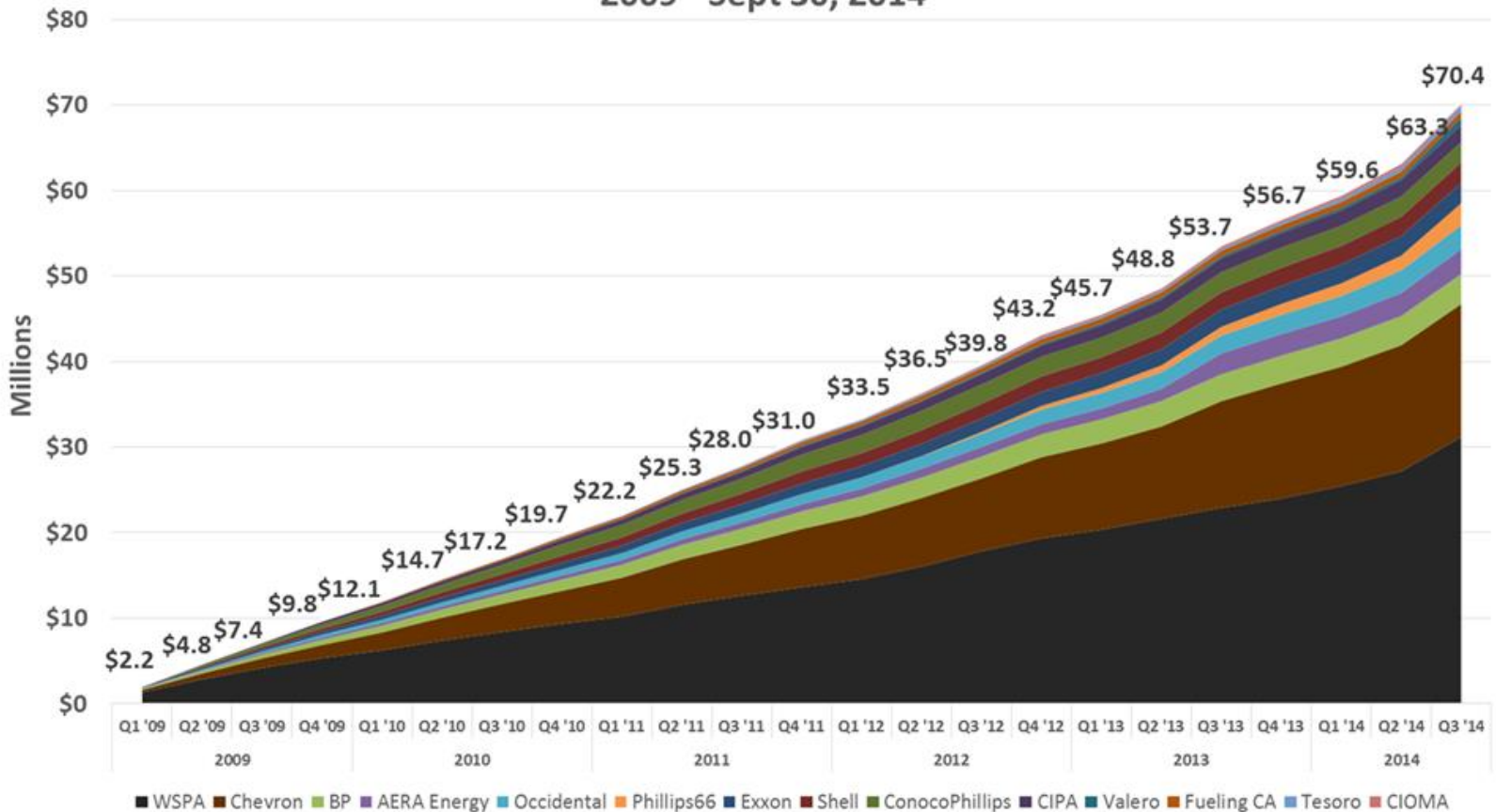
**Don Huberts- Shell H<sub>2</sub> CEO**

**Sheik Yamani- ex Saudi Oil minister**

**Geoffrey Ballard- fuel cell pioneer**

# \$70 Million: California Oil Industry Lobbying since 2009

Oil Industry Lobbying Expenses in California  
2009 - Sept 30, 2014



# Health Statements on Climate Change

American Academy of Pediatrics

DEDICATED TO THE HEALTH OF ALL CHILDREN™



Government at all levels ... should implement aggressive policies to halt man-made contributions to climate change and to mitigate its impact on children's health.



Climate change is recognized as an unprecedented phenomena threatening human and environmental health.



The California Medical Association supports the ongoing complete implementation **without delay** of the California Global Warming Solutions Act which protects the health of Californians from climate change.

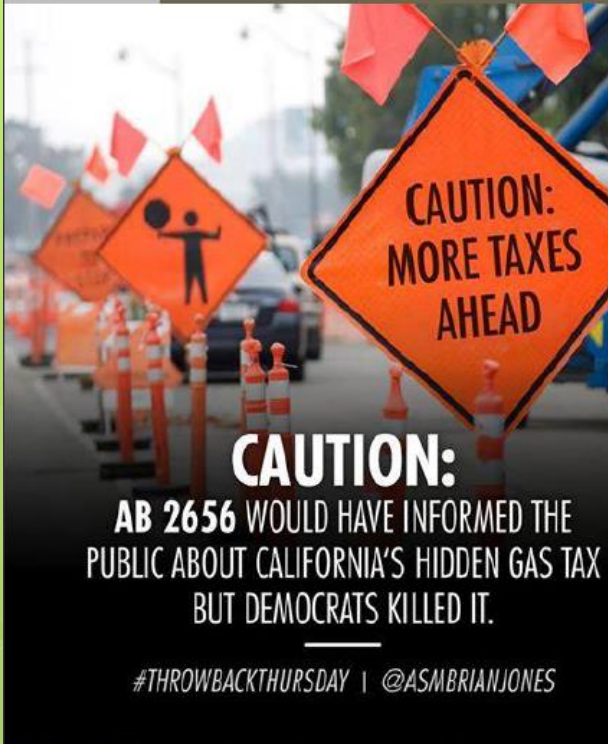
# Who is the AB 32 opposition...



Western States Petroleum Association



# Oil Industry's Campaign Messengers: Front Groups



## Viewpoints: Gas price hike from cap and trade will hurt families and small businesses

By Jim Relles  
Special to The Bee

Published: Saturday, Aug. 9, 2014 - 12:13 am



**Andrenna Hidalgo-Berggren**  
Irvine Law student advocates for working families



**John Kabateck**, executive director, NFIB Calif





# Defend AB 32

## Clean Air Saves Lives and Money





# What can you do

- Join us in efforts to educate elected officials
- Share campaign with your networks
- Social media
- Sign on letters
- Join [California Delivers](#)