

Update on the California Air Resources Board's International Engagement

May 25, 2017

California Environmental Protection Agency



Air Resources Board



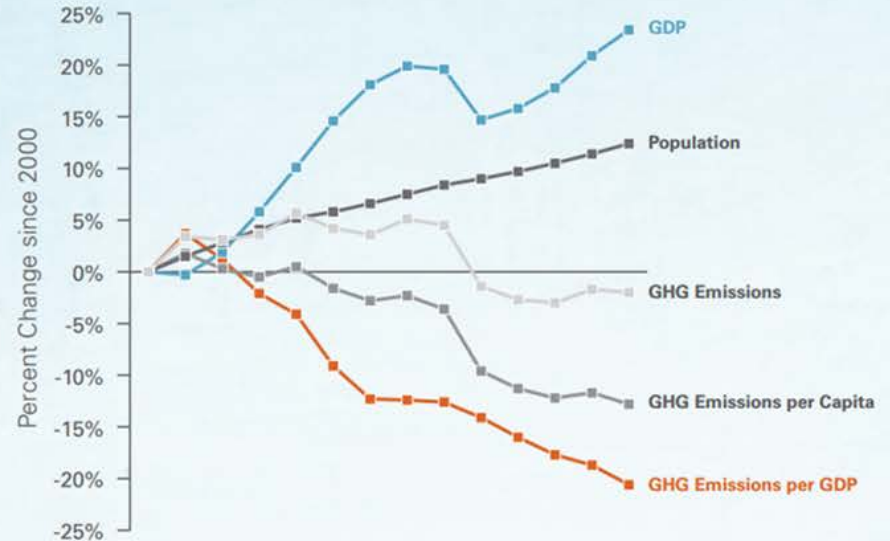
Californians now breathe the cleanest air since the first air pollution monitors were installed more than 40 years ago.



GHG Emissions: California's Progress

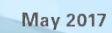
California is on track to achieve _____
_____ **THE GOALS OF AB 32**

*GROWING ECONOMY
&
CLEANER ENERGY*



Areas of International Engagement

- Air quality monitoring and planning
- Enforcement
- Zero Emission Vehicles (ZEVs)
- Clean fuels
- Clean vehicle standards
- Ocean-going vessels
- Carbon pricing
- GHG emission reduction
- Many other topics





California Agreements with States and Regions throughout the World



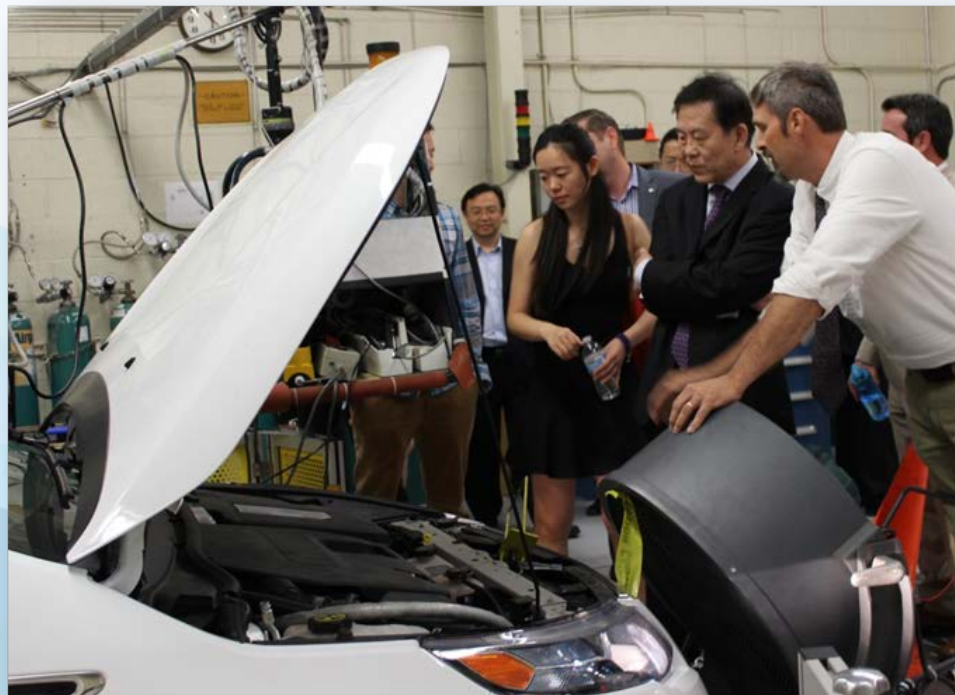
Air Quality: China

- 2013 MOUs to cooperate on Air Quality
- Active engagement with Beijing Environmental Protection Bureau
 - Beijing closed coal power plants after many visits to CARB
 - Last coal-fired power plant in city closed in March 2017



Air Quality: China, cont.

- Vehicle emission collaboration with China
 - New vehicle emission standards
 - Proposed ZEV Mandate
 - UC Davis China-U.S. Zero Emission Vehicle Policy Lab



International Collaboration: Ocean-Going Vessel Enforcement

- CARB is worldwide leader in this field
- Hands-on training in China leads to first discovery of ship in violation
- Delivered similar training in Mexico in support of new rules



Air Quality: Mexico

- California-Mexico MOU, 2014
 - Mexico has committed to updating their car and truck standards for smog pollution and GHGs

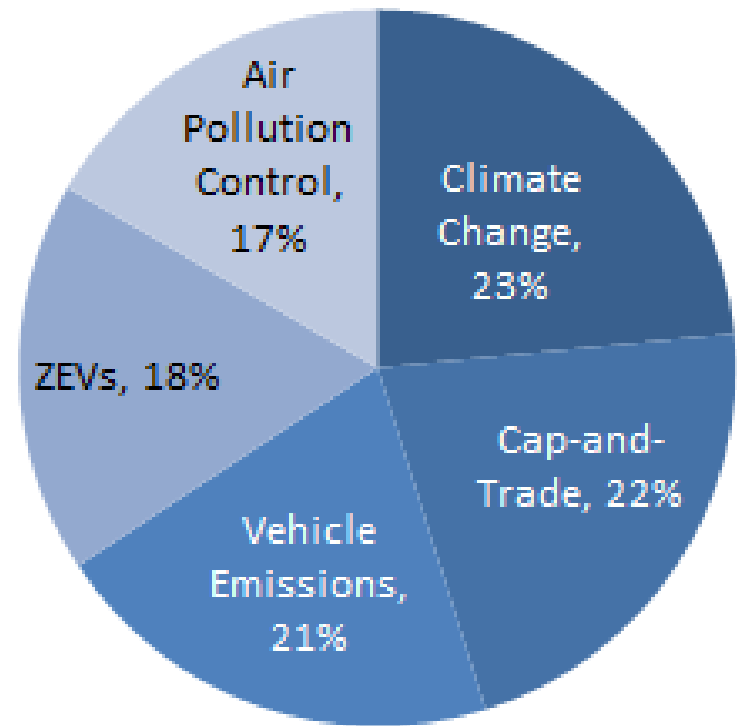


Air Quality: Mexico, cont.

- California-Mexico MOU, 2014
 - Joint, two-year study of particulate matter (PM) in Mexicali, Mexico
 - Donated surplus air monitoring equipment
 - CARB provides technical expertise and laboratory analysis support
- New air quality agency to be launched in Nuevo Leon
 - Inspired by the California model

International Visitors: Programs of Interest

- Nearly half of visitors in 2016 interested in climate programs
- AB 32 has national and international impact
- California's climate programs serve as model for world



Climate: Mexico

- Mexico: Climate Change Working Group
 - Focus on monitoring, reporting, and verification (MRV) of GHG emissions
 - Exchanging best practices on managing forests for carbon sequestration



Climate: China MOU

- China: NDRC and Provincial Governments
 - Knowledge exchange regarding ETS design
 - China's national ETS expected to launch in 2017



Climate: Multilateral

- Climate Policy Knowledge Exchanges
 - International Carbon Action Partnership (ICAP)
 - Partnership for Market Readiness (PMR)
 - Governors' Climate and Forests Task Force (GCF)

International Collaboration: Cap-and-Trade Program

International Linkages

- Linked with similar Quebec Program
- Proposed to link with similar Ontario Program in 2018

Informed Design of Other Cap-and-Trade Programs

- China's pilot and emerging national program
- European Union Emissions Trading System

Information Sharing on Design

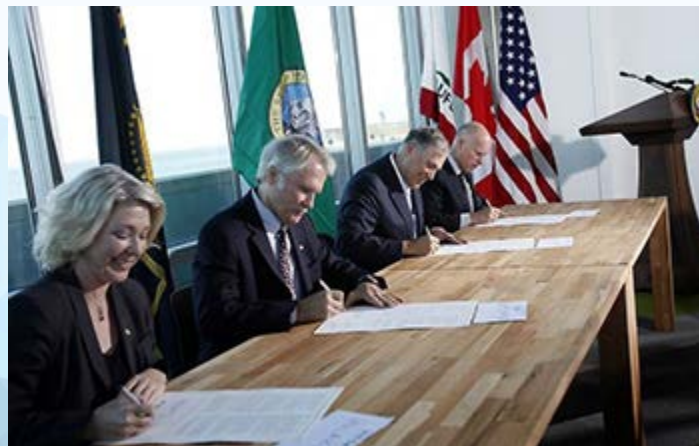
- Mexico
- Chile, Colombia, South Korea, and others

International Collaboration: Zero Emission Vehicles

- Québec – California Letter of Intent for Collaboration on Zero Emission Vehicles
 - Regular engagement on policies to promote ZEVs
- International ZEV Alliance
 - Strive to make all passenger vehicle sales in jurisdictions ZEVs as fast as possible, and no later than 2050

Pacific Coast Collaborative

- Pacific Coast Action Plan on Climate & Energy: British Columbia, Oregon & Washington
 - Lead Climate Change Policy
 - Sync Targets for GHG Reductions
 - Clean Transportation
 - Low Carbon Fuel Standard
 - Invest in Clean Energy and Climate Resilient Infrastructure



International Collaboration: Low Carbon Fuel Standard

Information Sharing on Design

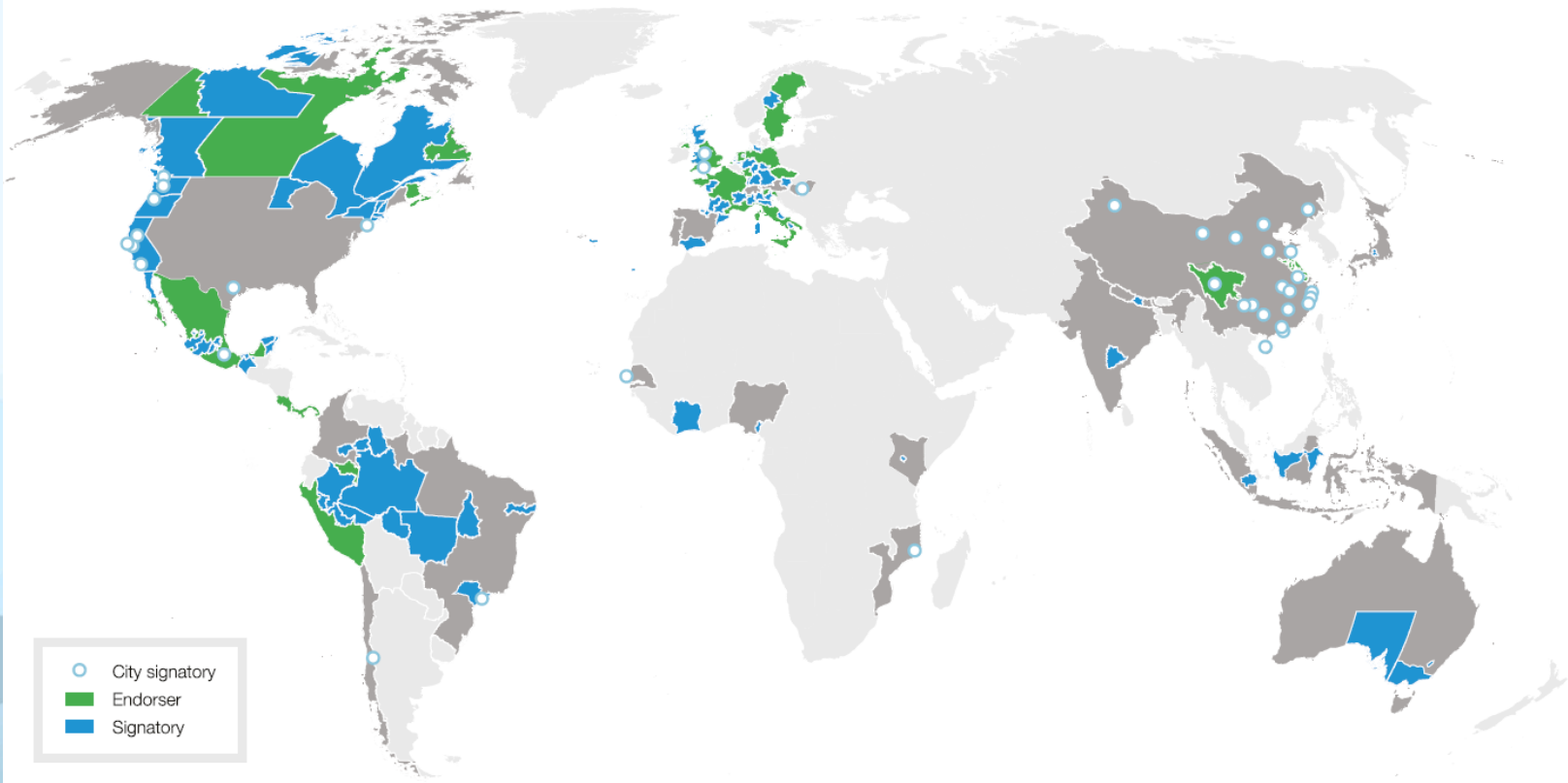
- British Columbia
- Germany
- Canada
- Brazil



Governor Brown's Leadership: Under 2 MOU

TACKLING CLIMATE CHANGE IS A GLOBAL PROBLEM THAT REQUIRES A GLOBAL SOLUTION

170 states, provinces, regions, cities, and nations have signed or endorsed the Under2 MOU – spanning six continents and 33 countries.



UNDER **2**

REGIONS REPRESENT

1.18 BILLION
PEOPLE



AND

 **\$27.5** TRILLION
IN GDP

That's 37% of the global economy

Governor Brown's Leadership

“We cannot fall back and give in to the climate deniers. The science is clear. The danger is real. We can do much on our own and we can join with others -- other states and provinces and even countries -- to stop the dangerous rise in climate pollution. And we will.”

– January 24, 2017

State of the State Address



Governor Brown's Leadership

- Governor's Trip to China, June 2017
 - Chair Nichols key member of delegation
 - Clean Energy Ministerial
 - Under2 Clean Energy Forum



Looking forward

