California’s Collaboration with China on Air Quality and Climate Change

Karen Magliano, Chief
Air Quality Planning and Science Division
California’s International Agreements on Air Quality and Climate Change

North America
Canada
- British Columbia
- Quebec and California
- Cap-and-Trade Linkage

Mexico
- Ministry of Energy
- Ministry of Environment
- State of Baja California
- State of Chiapas
- State of Mexico

South America
Brazil
- State of Acre

Chile
- Ministry of Energy

Peru
- Government of Peru

Europe
Netherlands
- Ministry of Infrastructure & Environment

Asia
China
- National Development & Reform Commission
- Ministry of Environment
- Beijing Environmental Protection Bureau
- Guangdong Province
- Jiangsu Province
- Shenzhen Municipality

India
- India-California Air Pollution Mitigation Program (ICAMP)

Japan
- Government of Japan

South Korea
- Ministry of Environment

December 2014
California and China’s Shared Air Quality Challenges

Los Angeles 1948

Beijing 2013
Collaboration with China

• California’s technical expertise and experience is helping Chinese agencies address their challenges

• Helping Beijing EPB push for cleaner cars and accelerate ZEV market in China

• Helping to implement meaningful trading programs to reduce GHG emissions

• Assisting regional pilot emissions trading systems
Air Quality and Climate MOUs

• Environmental Cooperation – Beijing Environmental Protection Bureau, signed April 10, 2013

• Reducing Air Pollution – China Ministry of Environmental Protection, signed April 10, 2013

• Cooperation on Low Carbon Development – China National Development & Reform Commission, signed Sept. 13, 2013


• Guangdong Province: Low Carbon Development and Emissions Trading – April 15, 2013
Accomplishments: Air Quality

• Actively engaged with Beijing EPB and MEP
  • Regular calls between experts
  • Participation in workshops
  • 4 delegations from China 2013-2014

• Goals:
  • Beijing airshed reduces coal-fired generation and/or particulate matter emissions from coal power
  • China strengthens inventory methods for accounting for PM/black carbon emissions

• Progress:
  • Beijing EPB announced plans to ban the use of coal in the city by the end of 2020 (August 2014)
Accomplishments: Vehicle Emissions

• Extensive interaction with Beijing EBP:
  • Ongoing exchange of technical info via email and phone
  • Hosted engineers from Beijing for an in-depth 3-month training program on vehicle emission controls

• Goal: Strong, enforceable vehicle emissions standards

• Progress:
  • Beijing leading the way on improving vehicle standards
  • Plans for a regional car exhaust monitoring network
  • Launched China–U.S. ZEV Policy Lab
Accomplishments: Climate Change

• In-depth discussions on emissions trading
  • 6 delegations to CA and 4 video conferences during 2013-2014
  • 2 California delegations to China
• Goal: China implements meaningful trading programs to reduce GHG emissions
• Progress:
  • China launched 7 Provincial Carbon Emissions Trading Systems in 2013
  • China to roll out National Carbon Emissions Market in 2016
Benefits to California

• Learning from others
• Opens doors to global clean tech market
• Improves air quality
• Bolsters California’s climate change program and expands global action
• Helps establish programs to address climate change and put a price on carbon
Moving Forward

- Expand on current collaborations
  - Share transportation technology
  - Reduce emissions from freight and at ports
  - Incorporate Short-lived Climate Pollutants into GHG reduction collaboration
- Extend to other regions of China
- Highlight subnational climate action on global stage