

Lessons from Controlling Emissions from Transportation in California

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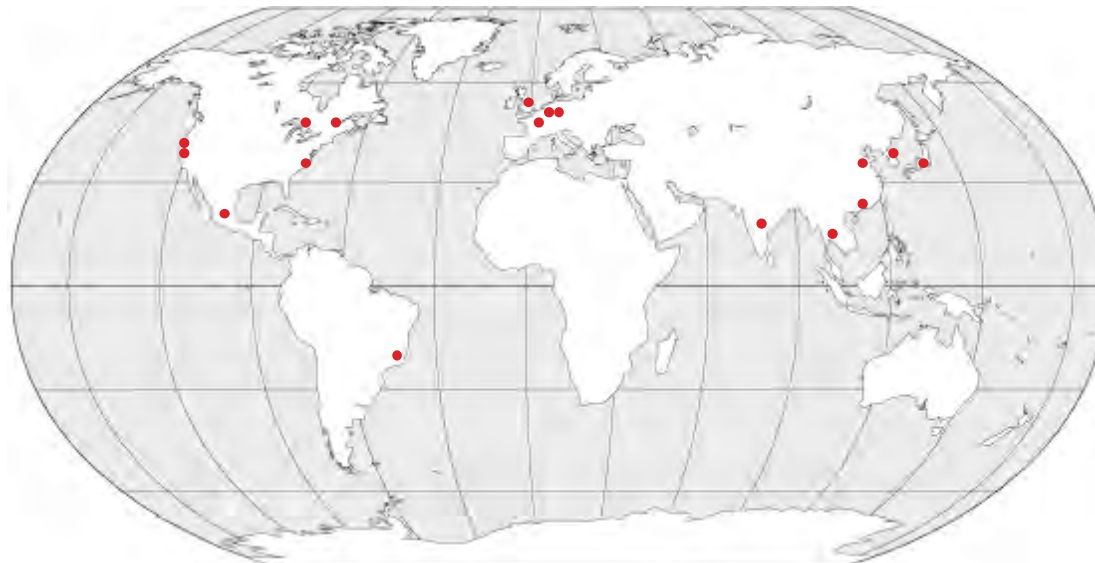
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International Council on Clean Transportation

- Goal of the ICCT is to dramatically reduce conventional pollutant and greenhouse gas emissions from all transportation sources in order to improve air quality and human health, and mitigate climate change.
- Promotes best practices and comprehensive solutions to:
 - Improve vehicle emissions and efficiency
 - Increase fuel quality and sustainability of alternative fuels
 - Reduce pollution from the in-use fleet, and
 - Curtail emissions from international goods movement.
- The Council is made up of leading regulators and experts from around the world.



Bad Smog to Good Air Quality



*Los Angeles, California
USA*



Critical Facets of California Program

- Strong research program
- Strong public and legislative support
- Active environmental groups - lawsuits
- Updating regulatory program based on new research and technical information

Key Ingredients of Regulatory Program

- Fuels and engine treated as a system
- Technology forcing standards
- Reducing photochemical reactivity of fuels and solvents
- Identifying diesel particulates as a toxic air contaminant
- Emission standards set irrespective of fuel
- Addressing other emission sources as they become major
 - e.g. marine

Controlling Emissions from Marine and Goods Movement: Measures Adopted in California

- Main engine, auxiliary engine and boiler rule
- Commercial harbor craft rule
- At berth emissions rule

Concluding Observations

- Public health is the key driver
- Technology forcing standards have worked
- Zero emissions should be the goal
- Major progress - yet still exceeding health based air quality standards for PM and O₃!