

DOE's Vehicle Technologies Program

National Clean Cities Overview



West Coast Collaborative
September 5, 2014
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East Bay Clean Cities Coalition

U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

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PRIMARY GOAL:

Mass market adoption of alternative fuel and advanced technology vehicles and smarter driving habits

PRIMARY GOAL RESULTS

Reduced Petroleum Use in Transportation

Reduced Greenhouse Gas Emissions

Reduced Dependence on Foreign Oil

Improved US Energy, Economic, and Environmental Security

Implement national policies and initiatives by facilitating change on a National and Local basis



Local

Develop a Franchise model (designate CC coalitions) so that approach and message are consistent everywhere, but with attention to local market conditions and priorities (provide strategic direction and comprehensive training to franchisees)



National

Provide a national unbiased source of info

Provide tools, experts to address barriers and solve problems

Develop Corporate Partnerships with Industry and National Fleets

Increase awareness and publicize success through mass media and outreach

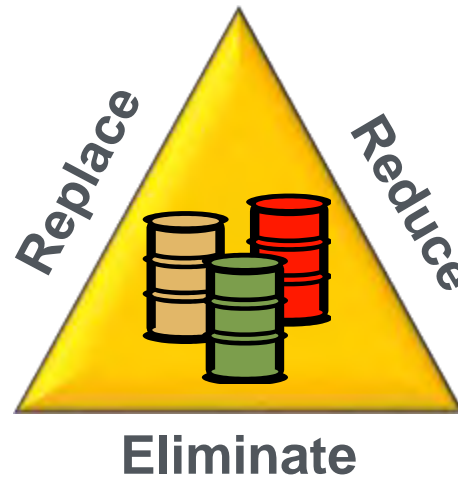
Provide financial assistance to jump start markets and incentivize private investment

Alternative Fuels

Electric Vehicles
Biodiesel
Ethanol
Hydrogen
Propane
Natural Gas

Idle Reduction

Heavy-Duty Trucks
School & Transit Buses
Light-Duty Vehicles



Fuel Economy

More Fuel efficient vehicles,
adopting smarter driving and
vehicle purchasing habits



Hybrids

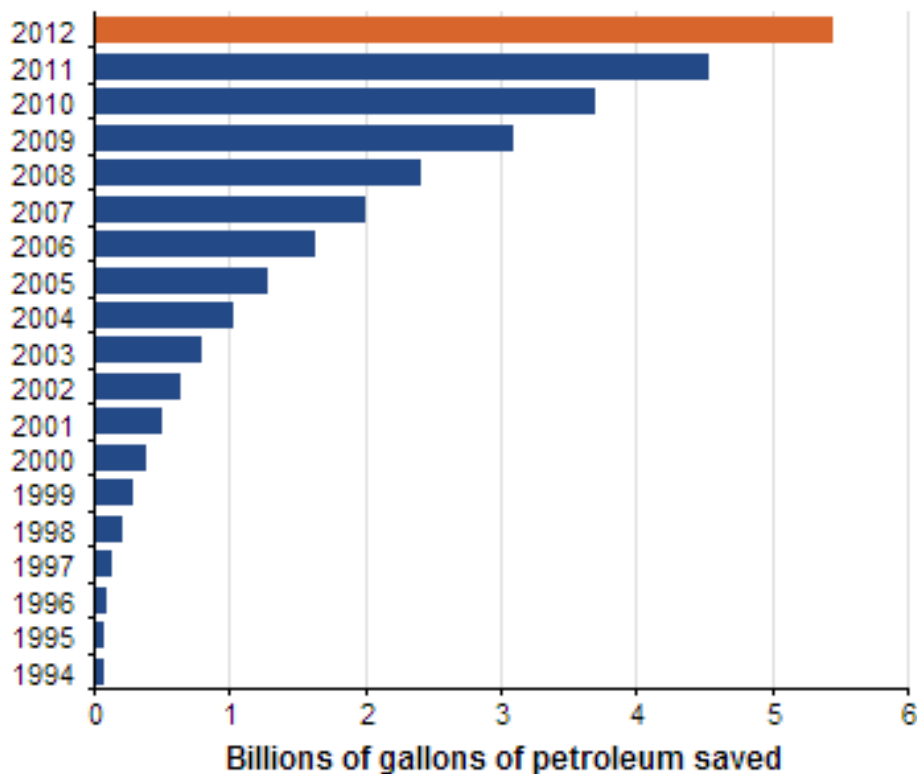
Light- and heavy-duty
Electric hybrids
Plug-In hybrids
Hydraulic hybrids

Clean Cities Efforts Get Results !



Over 5.4 Billion Gallons of Petroleum Reduction since 1993

- Over 541,000 AFVs on the road
- 20,000 alternative fueling and charging stations (CC influenced >70%)
- Long term goal of 2.5B gal/year by 2020

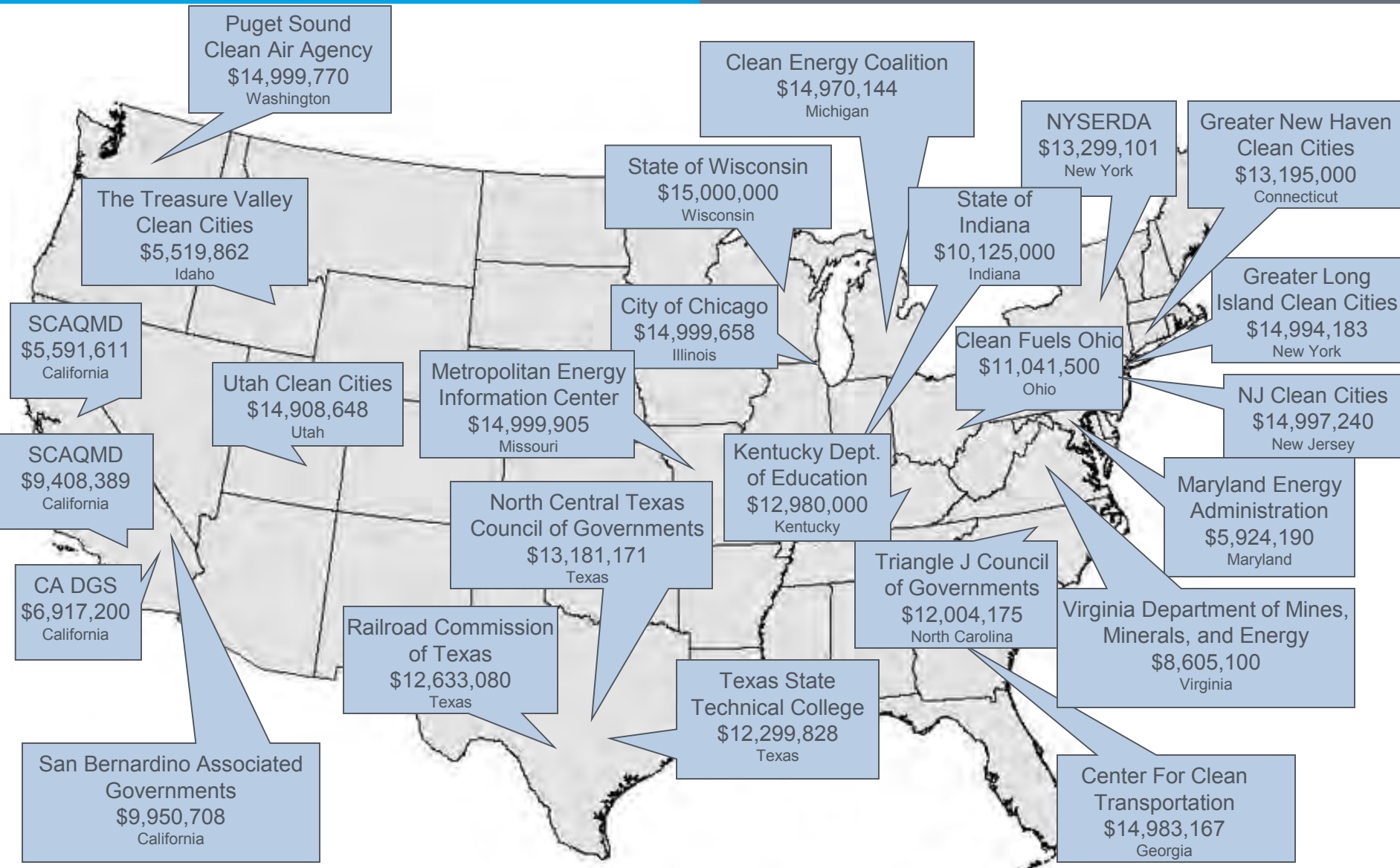


- 87 active coalitions in 45 states
- Coalitions serve 78% of the population
- 632,000 AFVs using alternative fuels
- 5,600 AFV stations
- 6,500+ stakeholders
- > 5,700 stakeholders from businesses, city & state governments, transportation industry, community organizations, fuel providers



2. Funding

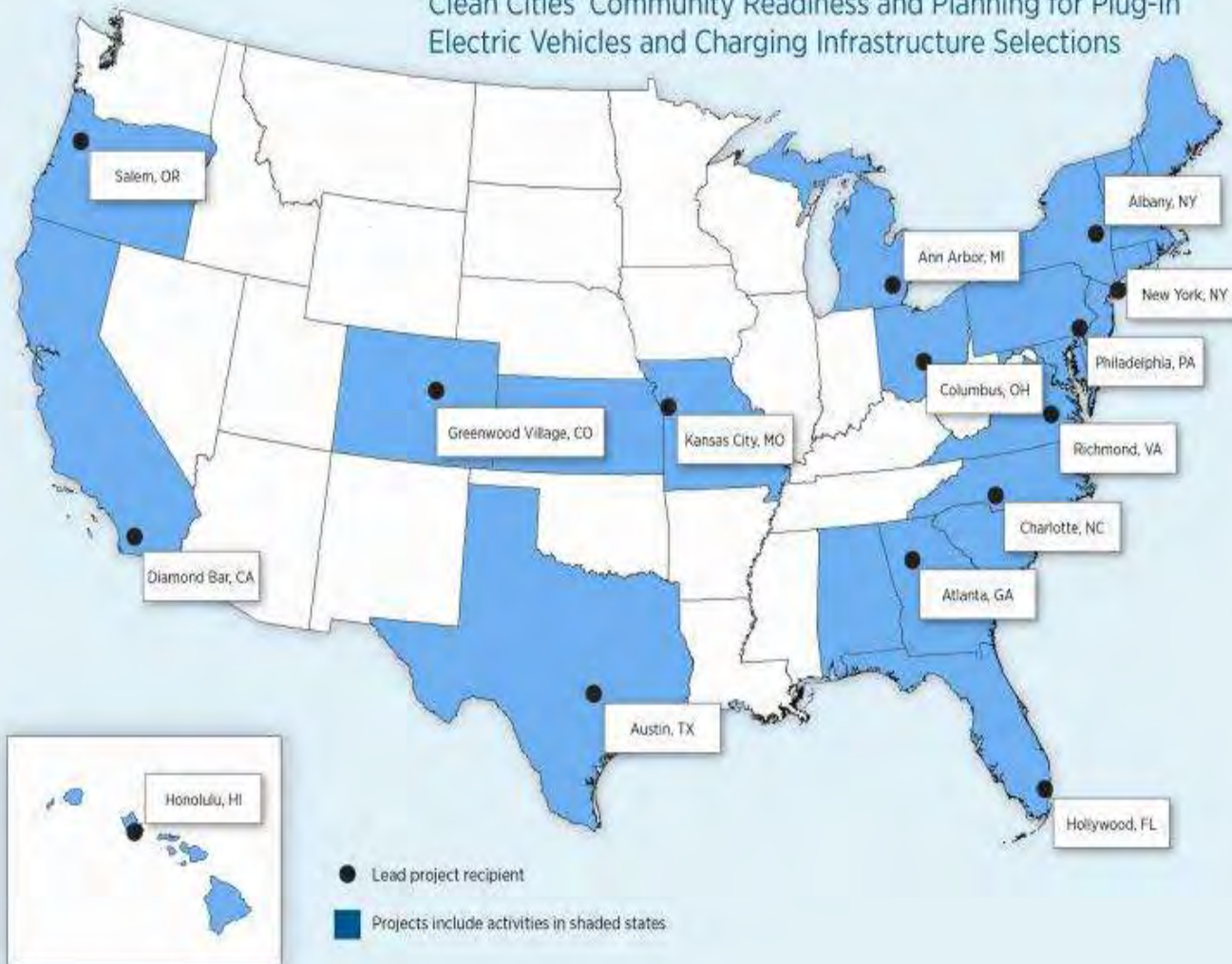
Clean Cities Recovery Act Program Summary



Clean Cities Community Readiness & Planning for Plug-In Electric Vehicles & Charging Stations



Clean Cities' Community Readiness and Planning for Plug-in Electric Vehicles and Charging Infrastructure Selections

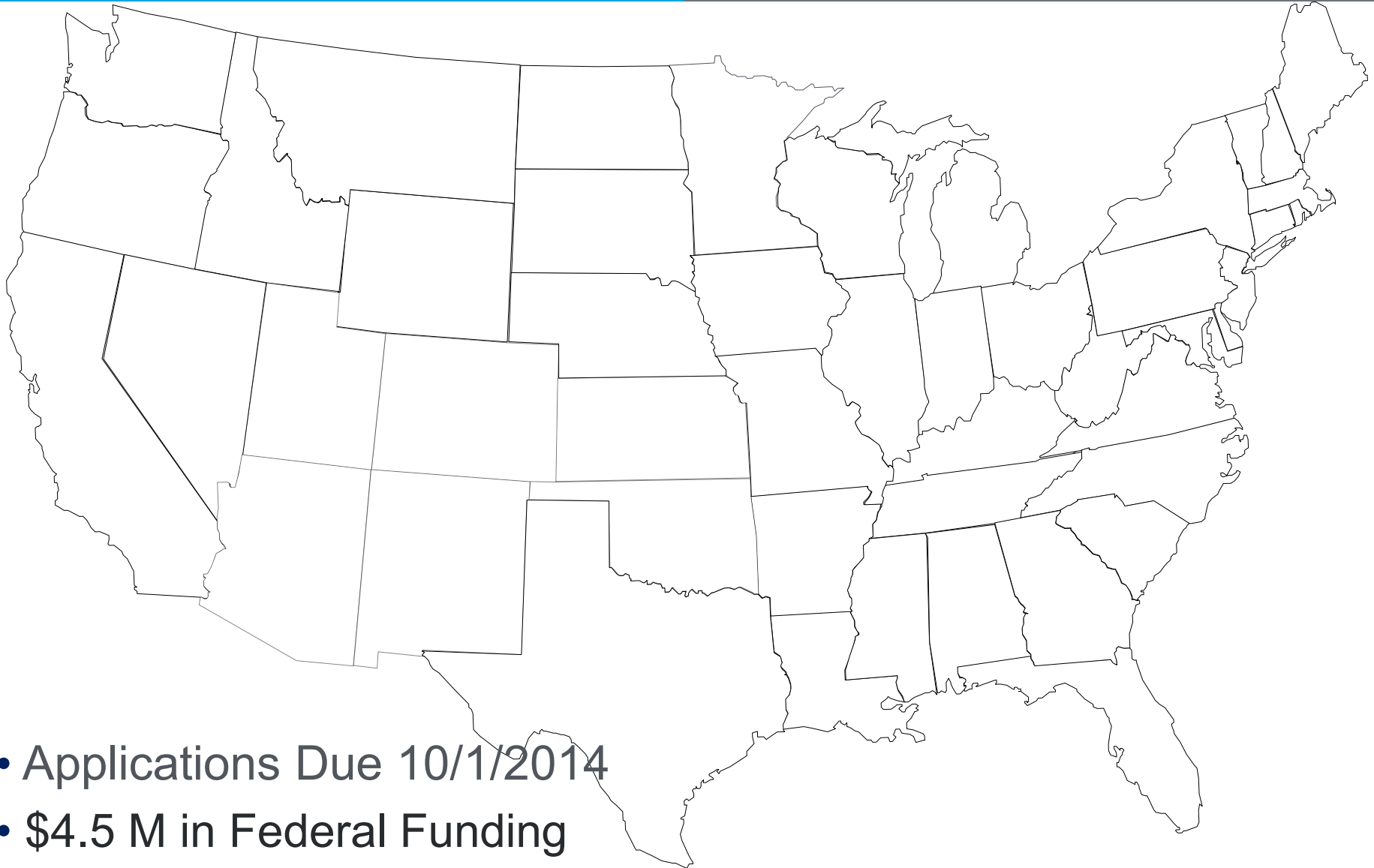


- \$8.5 million
- 16 projects across 24 states and DC
- 1 year projects to facilitate local partnerships
- Results: Publicly releasable and *replicable* plans

Clean Cities – Implementation Initiatives to Advance Alternate Fuel Markets Selections



Clean Cities – “Alternative Fuel Vehicle Deployment Initiatives”



- Applications Due 10/1/2014
- \$4.5 M in Federal Funding

3. Projects

Recovery Act Projects



California Department of General Services “Low Carbon Fuel Initiative”

Partners:

- Propel Fuels
- CEC
- CalSTART and Coalitions (outreach)

Deployed 28 Stations Cumulative
Displacement 2,947,130 GGE



South Coast AQMD “Ontario-Las Vegas Corridor Project”

Partners

- UPS
- Clean Energy
- Coalitions (Outreach)

Deployed 48 LNG Trucks, 1 LNG Station
Cumulative Displacement 800,000 GGE (est)



Recovery Act Projects



South Coast AQMD

"NG Drayage and Goods Movement Trucks"

Partners:

- Local and National Fleets
- Coalitions (outreach)

Deployed 219 L/CNG Trucks

Cumulative Displacement 1,956,585 GGE



San Bernardino Associated Governments

"Natural Gas Truck Project"

Partners:

- Ryder
- Coalitions (Outreach)

Deployed 203 NG Trucks,

Deployed 2 L/CNG Stations

Cumulative Displacement 2,552,582 GGE



Major Accomplishment: 6 Regional EV Readiness Reports



1. **Greater Sacramento**
2. **Bay Area**
3. **Central Coast**
4. **San Joaquin Valley**
5. **Southern California (L.A.)**
6. **San Diego**

Findings:

- Large differences in readiness between regions and within regions
- San Diego is at leading edge
- Need for continued, coordinated regional planning for PEVs and related infrastructure

Multiple efforts aimed at eliminating the barriers to deployment of alternative fuel vehicles

Develop “best practices” toolkits

- For cities counties: Permitting of Natural Gas and Hydrogen Stations
- For Fleets: Installation of Natural Gas and Hydrogen Stations

Address electric vehicle barriers

Statewide & CEO forums

Workshops for employers and fleets on alt fuels

Training initiatives

- Training needs assessment

Market development and outreach

Prime:

- **Bay Area Air Quality Management District**

Subs:

- South Coast AQMD
- Advanced Transportation Technology and Energy (ATTE)
 - San Francisco
 - Long Beach
 - San Diego
- California Center for Sustainable Energy (CCSE)
- CALSTART
- California Plug-In Electric Vehicle Collaborative (PEVC)
- California Fuel Cell Partnership (CaFCP)
- 13 California Clean Cities Coalitions



4. Contacts



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California Clean Cities Coordinators

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- Richard Cromwell III - Coachella Valley Region
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- Jennifer DiCiano - Western Riverside County

Pacific Northwest Clean Cities Coordinators

- Scott DeWees - Puget Sound
- Kimberly Cline - Puget Sound
- Rick Wallace - Columbia-Willamette
- Julie Peacock - Columbia-Willamette
- Mike Quilty - Rogue Valley

http://www.afdc.energy.gov/cleancities/coalitions/coalition_contacts.php