



# **Clean Fuels Program Draft 2012 Report and 2013 Plan**

**February 6, 2013**

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**Technology Advancement Office**

# Background

- Progress Report on Clean Fuels Program Activities by March 31, 2013 (HSC 40448.5.1)
- Adopt a Technology Advancement Plan for the Current Year (HSC 40448.5)
- Draft 2013 Plan Update draft submitted for review October 5, 2012



# Input Process

- Two Advisory Group meetings
  - August 2012 and February 2013
  - Technology Advancement Advisory Group
  - Clean Fuels Advisory Group
  - Invited Technical Experts
- Draft 2013 Plan Update presented to Board at October 2012 Board Meeting

# 2013 AQMD Priorities

*Continue demonstration/deployment of a zero-emission cargo container movement system.*

- Support Range of Zero- to Low-Emission Technologies
  - Electric Trucks & Locomotives
  - Plug-In Hybrid Trucks
  - Use of Wayside Power for Transportation
  - Natural Gas Truck & Locomotives
  - Hydrogen/Fuel Cell



# 2012 Annual Report Core Technologies

- Fueling Infrastructure & Deployment
- Hydrogen Tech. & Infra.
- Electric/Hybrid Technologies
- Health Impacts
- Fuels & Emissions Studies
- Stationary Clean Fuels Technologies
- Emission Control Technologies

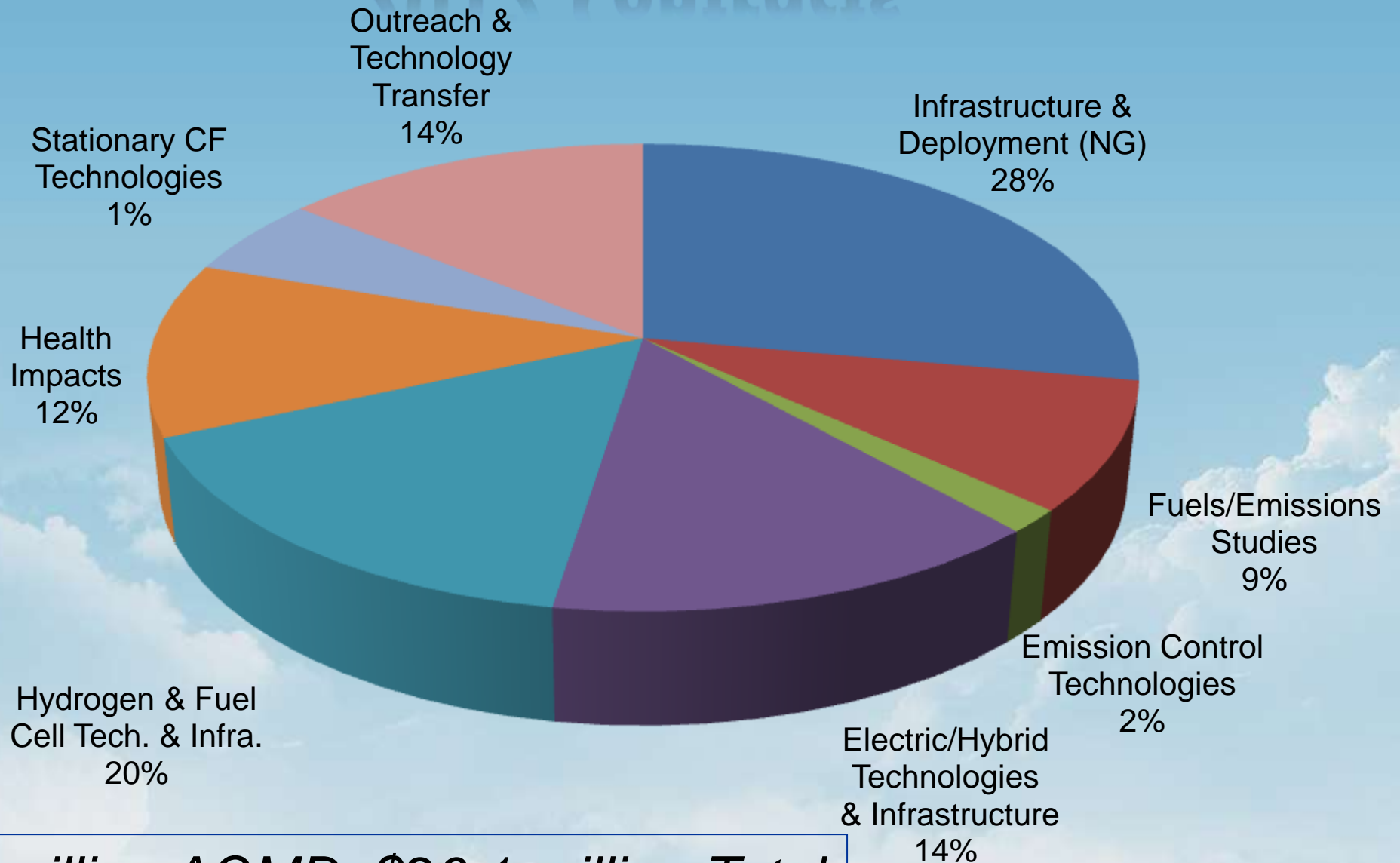




# CY 2012 Contracts

- 77 Contracts Executed
  - \$6.2 Million from Clean Fuels Fund
  - \$26.1 Million – Total Project Costs
  - 1:3 Leveraging
- Completed Projects
  - 21 Research RD<sup>3</sup> Projects
  - 24 Technology Assessment and Transfer Projects

# 2012 Contracts



***\$6.2 million AQMD; \$26.1 million Total***

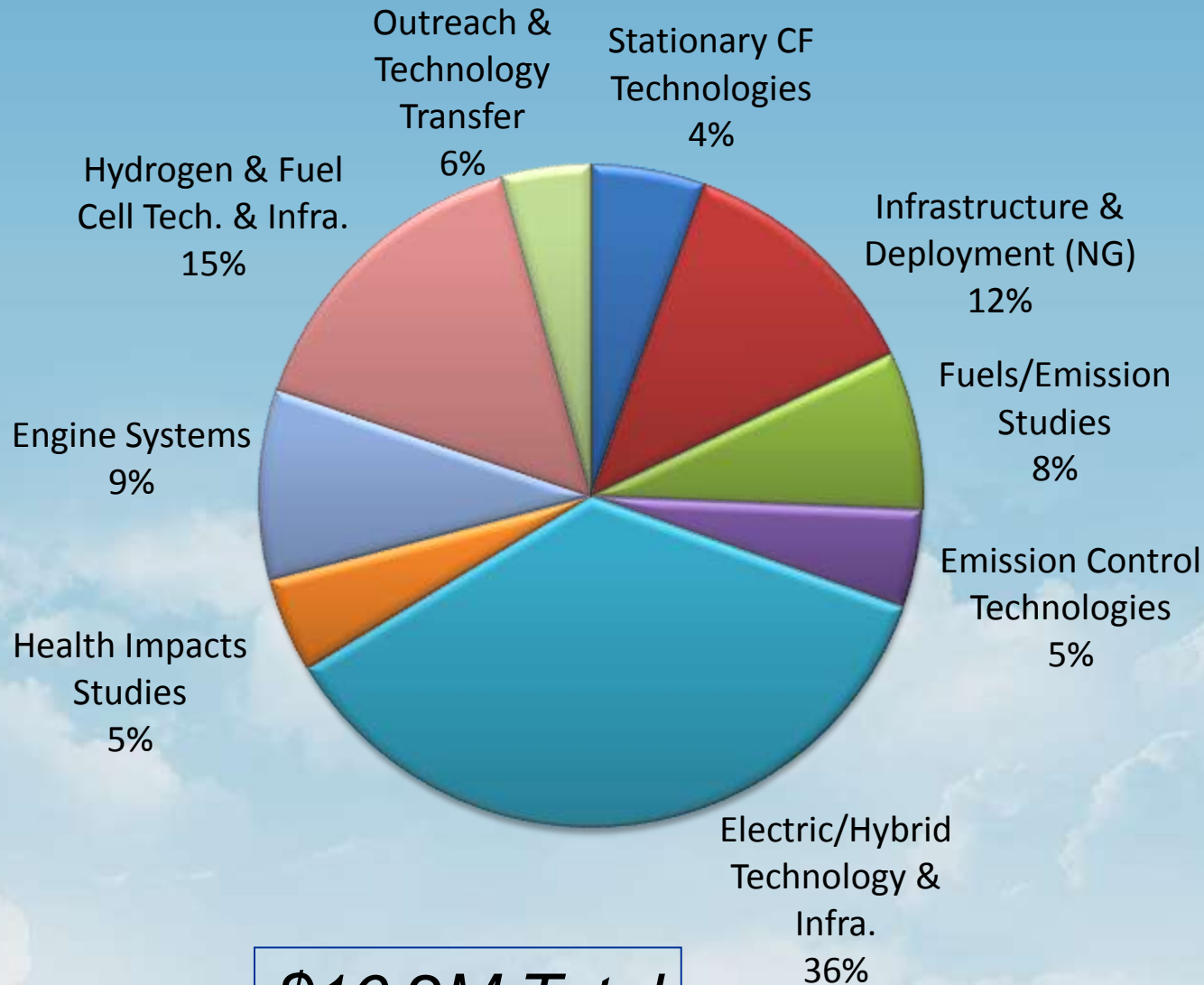
# 2012 Project Highlights

- Demonstrate Battery & Neighborhood EVs
- In-Use Emissions Testing Program
- UCLA Health Study
- Demo 300 kW Molten FC w/Exhaust-Fired Absorption Chiller
- Showcase: Demo Retrofit Construction Equipment
- Natural Gas-Powered Police Vehicle



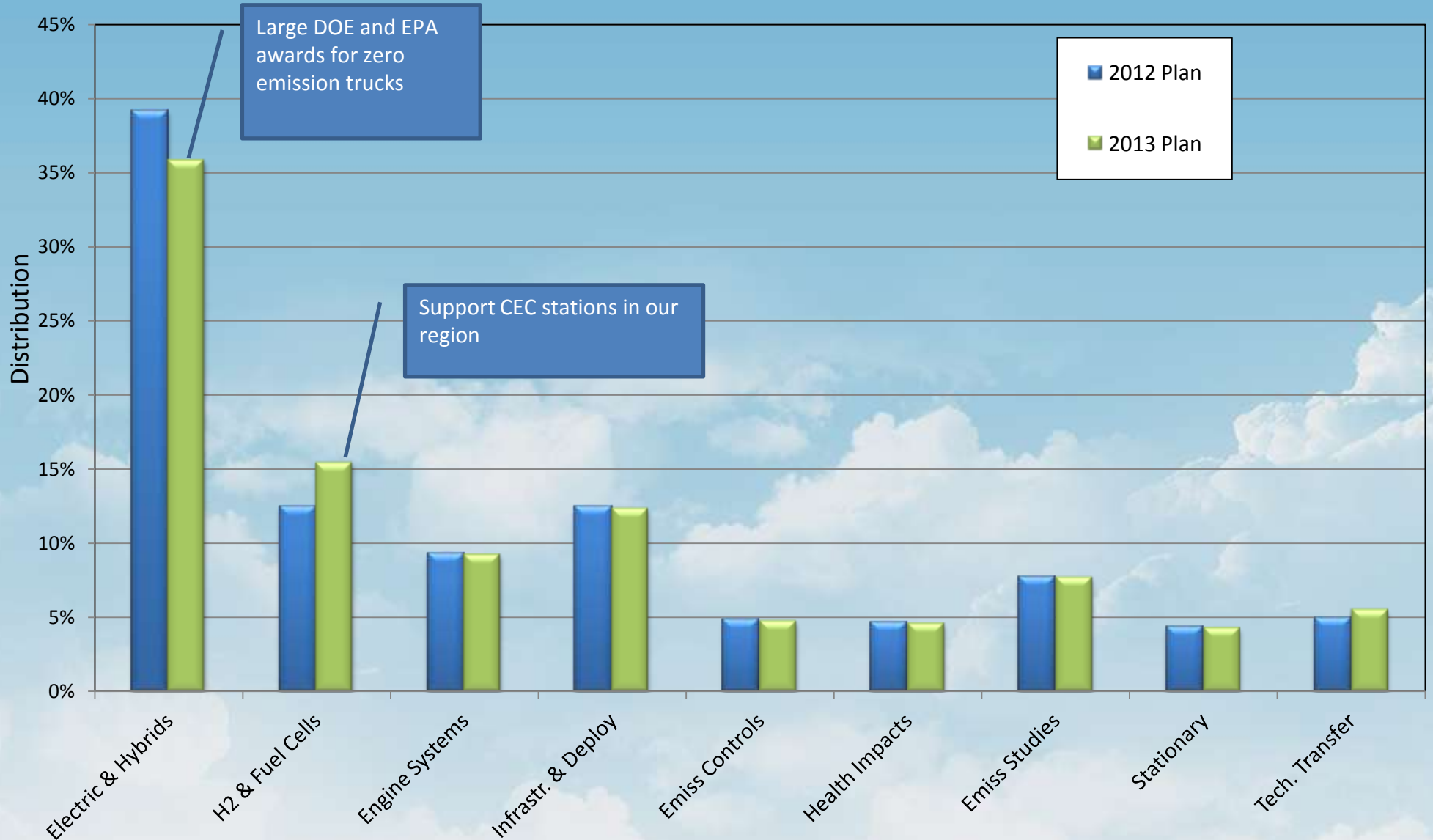


# Proposed 2013 Plan Distribution



**\$16.2M Total**

# Plan Update Comparison



# Annual Report & Plan Update Development

- 2013 Plan Update Draft – October 5, 2012
- Advisory Group Review – August 29, 2012 & February 6, 2013
- Technology Committee – February 15, 2013
- Board Approval – March 1, 2013
- Due to State Legislature – March 31, 2013