



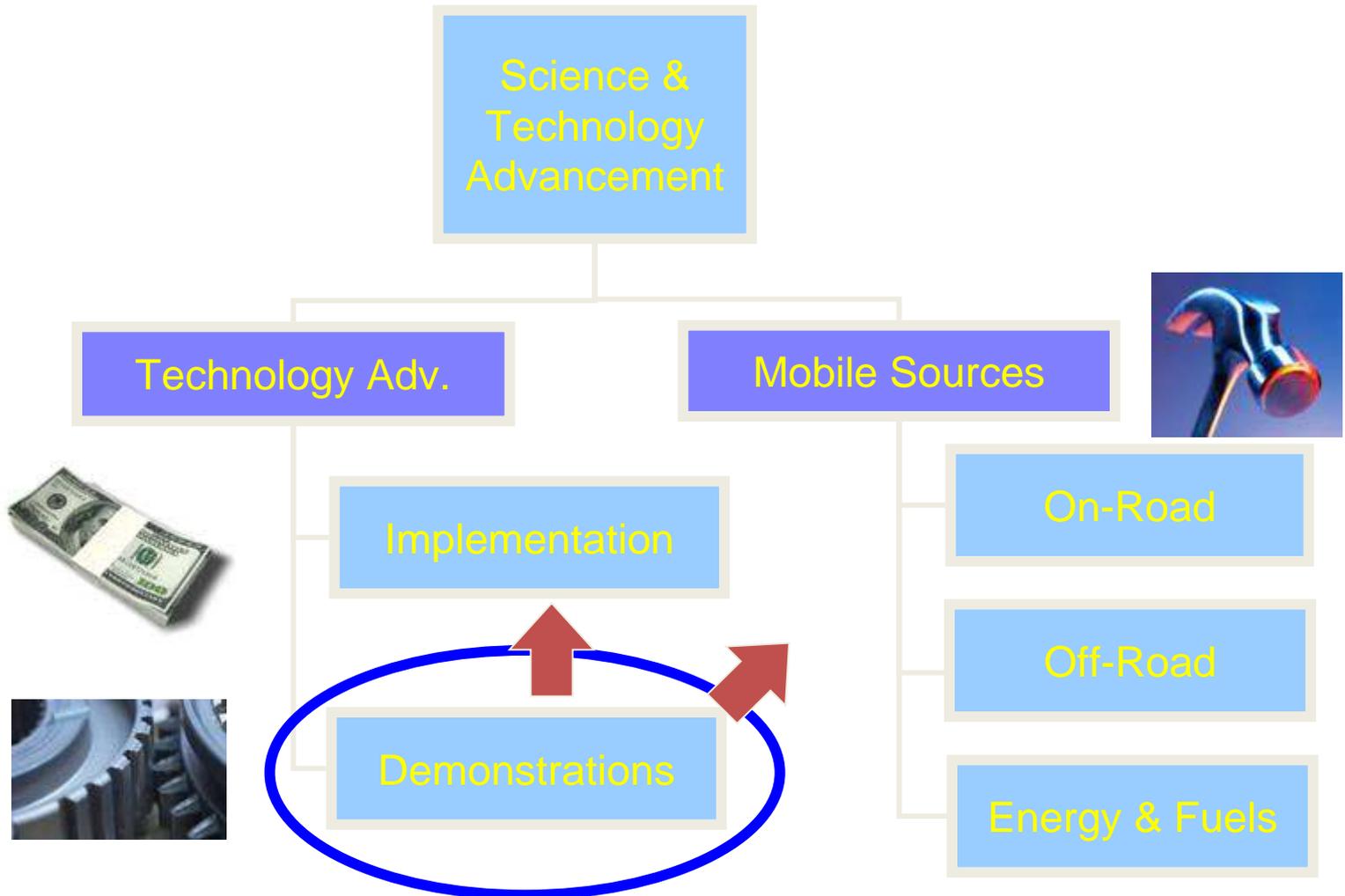
Clean Fuels Program



Dipankar Sarkar

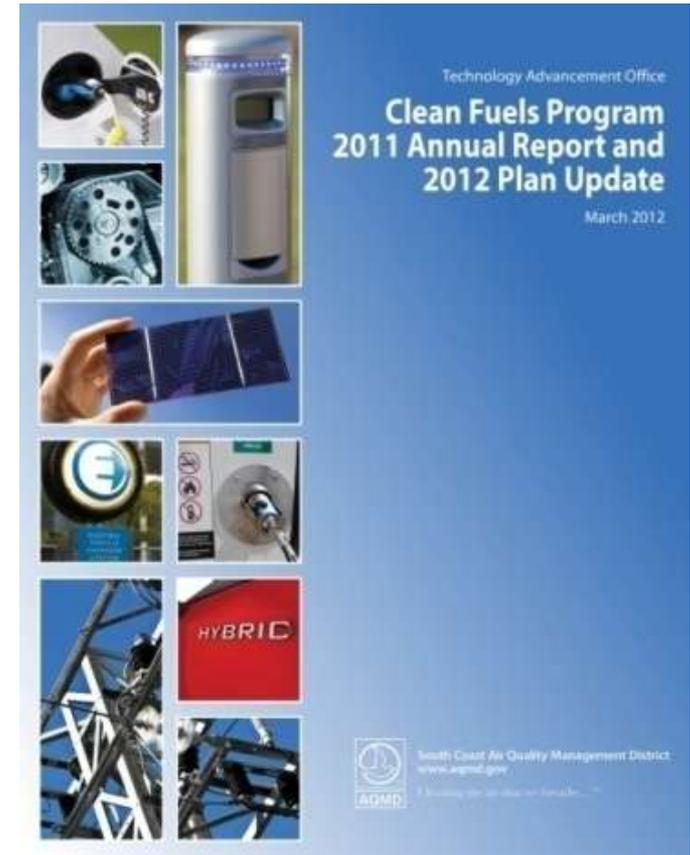
Technology Advancement Office

Technology Advancement Office



AQMD Clean Fuels Program

- Established in 1988
- \$1 fee on DMV registrations (\$~12M/yr)
- Stationary source fee (~\$400k/yr)
- Research, develop, demonstrate, and deploy (*RD³*) clean technologies



Technology Advancement Office Advisory Groups

- Clean Fuels Advisory Group
 - June 1999 SB 98 chaptered into law
 - Requires 13-member advisory group
 - Expertise
 - Clean Fuels technology and policy, public health
 - Represent
 - Scientific, academic, entrepreneurial, environmental, public health communities
- Technology Advancement Advisory Group
 - Established by AQMD Board in 1997
 - 12 members
 - Expertise in Clean Fuels Program related technical areas
 - Represent
 - Industry, academia, state agencies, scientific community, environmental community

Technology Advancement Office Advisory Groups

- Function of Advisory Groups
 - Provide direction and guidance for Clean Fuels Program
 - Make recommendations on projects to advance and implement Clean Fuels technology and improve public health
 - Assessing overall direction of Clean Fuels Program related to AQMD's AQMP, state and federal clean air technology activities, identify new or emerging project areas, etc.
 - Review annual Clean Fuels Program Report and Plan
 - Attend two Advisory Group meetings annually
- May 2012 Board meeting Advisory Group membership updated

SB 98 Clean Fuels Advisory Group

Members	Affiliation
Dr. Chung Liu	SCAQMD
Mr. Robert Bienenfeld	American Honda
Dr. Blair Folsom	Consultant
Dr. Mridul Gautam	West Virginia University
Dr. Fritz Kalhammer	Consultant
Dr. Melanie Marty	California EPA
Dr. Wayne Miller	UCR, CE-CERT
Dr. Vernon Roan	Consultant
Dr. Scott Samuelsen	UCI
Dr. Robert Sawyer	Sawyer Associates
Dr. George Sverdrup	Consultant
Dr. Nicholas Vanerborgh	Consultant
Mr. Michael Walsh	Consultant

Technology Advancement Advisory Group

Members	Affiliation
Dr. Chung Liu	SCAQMD
Mr. Luis Cabrales	Coalition for Clean Air
Mr. Tom Cackette	CARB
Mr. Patrick Davis	U.S. DOE
Dr. John Froines	UCLA
Ms. Gretchen Hardison	LADWP
Dr. Mike Hertel	So. Cal Edison
Mr. Philip Hodgetts	Clean Air Now
Mr. Randall Lewis	Lewis Group of Companies
Mr. Tim Olson	Consultant
Mr. James Uihlein	Chevron
Mr. Cherif Youssef	Sempra Energy Utilities