Research Proposals

April 23, 2009

California Environmental Protection Agency

Air Resources Board

Overview

- Proposals developed from 2008-09 Annual Research Plan
- Reviewed by ARB's Research Screening Committee (RSC)
- Discussed with other funding agencies to avoid duplication
- Recommended ARB Funding: $1.08 million
- Leverage substantial federally funded study of $4.1 million
- Average overhead rate: 9%

Research Program Areas

- Health and Exposure
- State Implementation Plan (SIP) Support
- Climate Change

Health

PROPOSED RESEARCH

- Exposures to Air Pollution and Heart Rate Variability in Elderly Subjects with Heart Disease ($235,000, *including co-funding from SCAQMD*), UC Irvine
- Effects of Ambient PM on the Central Nervous System ($279,876), UC Irvine

BENEFITS

- Generate new information regarding adverse health outcomes in a vulnerable population
- Support ARB's responsibility to set ambient air quality standards and regularly review their adequacy
- Illuminate possible links between aerosol exposure and neurological effects

Research Program Areas

- Health and Exposure
- State Implementation Plan (SIP) Support
- Climate Change

SIP Support

PROPOSED PROJECT

- Formation of Secondary Organic Aerosols (SOA): Chamber Study and Model Development ($448,991), UC Riverside

BENEFITS

- Improve basis for PM control strategies
- Clarify impact of ozone control strategies on ambient PM

Research Program Areas

- Health and Exposure
- State Implementation Plan (SIP) Support
- Climate Change

Climate Change

PROPOSED PROJECT

- Assessing the Impact of Voluntary Strategies on Household Electricity Consumption ($117,501), UC Los Angeles

BENEFITS

- Aid design of programs to promote voluntary reduction of residential energy consumption

COMPLEMENTARY EFFORTS

- CPUC/CIEE releasing series of white papers on Consumer Behavior and Energy Consumption*
- CEC recently initiated $1.4 million contract to investigate how people make energy-related decisions

** details at ciee.ucop.edu/energyeff/behavior.html*

Recommendation

Approve

Research Resolutions

09-27 through 09-30