



**Session #2**  
**Renewables**

Clean Fuels Program Retreat

September 19, 2006

# Session #2

## 2006 Progress

- Biodiesel Forum 11-7-06 at AQMD
  - Regulatory Perspective
  - Market Status & Potential for Calif.
  - Proposed Biodiesel Specifications
  - Emission Issues
  - Engine Manufacturer Perspective
  - Production Issues
  - Logistics and Handling
  - Recent & Planned Studies

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## 2006 Progress

- Santa Monica Biodiesel-SCR Project
- Numerous DOE/NREL Biodiesel Studies & Implications
  - Test Protocol
  - New Engines vs. Old Engines
  - NOx Mitigation Strategies
- AQMD Roof-Mounted Solar Panels 80 kW (lobby)

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## Additional Proposals

- Preliminary Biodiesel Engine Dynamometer at UCR CE-CERT  
Partners: CARB (AQMD \$50k)
- Comprehensive Engine, Vehicle and Laboratory Study at UCR CE-CERT  
Partners: CARB (AQMD \$300k)

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## Nearer-term Strategies

- Study & Mitigate Biodiesel NOx Problem
- Biodiesel Supplementation (2-10%)
- B20 Deployment
- Ethanol Blends with ULSD

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## Longer-term Strategies

- Develop & Demonstrate Biodiesel Lubrication Oils
- Develop & Demonstrate Emulsified Biodiesel Fuel
- Ethanol