California and the Future of Energy
UCLA Anderson Forecast

Fossil Fuel and Alternative Energy:
Where are we today and what’s around the corner?
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James D. Boyd, Commissioner
California Energy Commission
The Nation-State of California

- 5th largest economy in the world
- Population – expected to grow from 36 million now to 45 million by 2025
- Vehicle Miles Traveled: 1980-2000 increased 3.3% per year
- 5th largest consumer of energy in the world
- 2nd largest consumer of gasoline and diesel in the world – only the US consumes more
- Approximately 26 million registered vehicles
- $150 million for gasoline and diesel spent daily
California versus US Electricity Supply

California (2000) 284 TWh

US (1999) 3,752 TWh

Natural Gas: 37.6%

Hydro: 14.8%

Nuclear: 12.4%

Imports: 25.5%

Renewables: 8.4%

Coal: 52%

Oil: 3.3%

Natural Gas: 14.8%

Nuclear: 19.4%

Coal: 50.2%

Wind: 1.3%

Geoth.: 4.7%

Bio: 2.1%

Solar: 0.3%
The Nation State of California

- Fuel Supply/Refinery Capacity stretched and import capability also a limiting factor, resulting in price volatility

- Price Volatility equals a Consumer Tax

- Consumer Tax from the 2004-5 price excursion equals about $500 million per month – no difference in product
California’s Actions

• Governor call for a Biofuels Action Plan; in response to 2003 Energy Report

• Governor Schwarzenegger releases Executive Order for the Biofuels Action Plan (4/25/06)

• AB 1007 passed and signed by Governor, fall 2005; calls for “long-term plan for increased use of alternative fuels”