



### **Energy Efficiency**

Petroleum companies are constantly developing new practices and technologies to maximize the efficient use of all types of energy.



### **Alternative and Renewable Fuels**

California petroleum companies are the largest users of biofuels in the United States and are in the forefront of researching, developing and deploying a broad portfolio of alternative and renewable fuels

### **Emerging Energy Sources**

Since 2000, oil companies in the United States have invested \$98 billion in frontier hydrocarbons such as oil sands and oil shale, new technologies and renewable fuels. Together, these energy sources and technologies can be a significant part of an adequately supplied, low carbon energy future.

### **Carbon Capture and Storage**

Safely capturing and permanently storing CO<sub>2</sub> and other greenhouse gases in geologic formations will be an important tool in achieving California's climate change objectives. Carbon capture and storage also is being investigated as an element of Enhanced Oil Recovery (EOR).

## **Hydrogen Power**

Petroleum companies are major partners in the California Fuel Cell Partnership and are participating in building and operating pilot hydrogen fueling stations throughout California.



## **Research and Development**

Petroleum companies are among the leading investors in cutting edge research into the development of alternative and renewable fuels and technologies, including research grants of \$500 million to the University of California and \$100 million to Stanford.