

California Energy: The Untold Story

- Where does today's energy come from?
- What do we use it for?
- What energy sources are forecasted to be used in the next 20 years

A Common Perception

We will be able to significantly power our economy with “Renewable Energy” sources very soon.



Fact

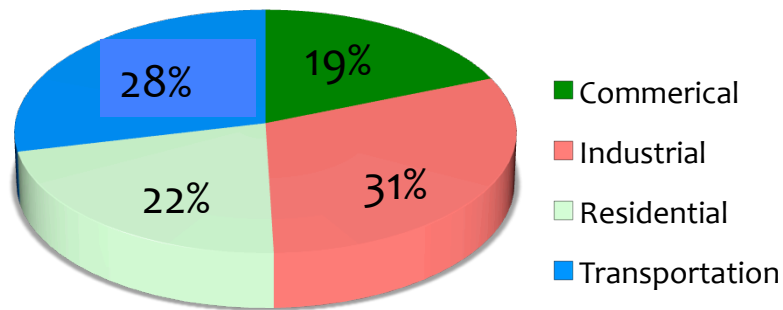
The United State's Department of Energy has forecasted that by 2035 Fossil Fuels will make up 77% of all of our energy we use.

-The Energy Information Administration

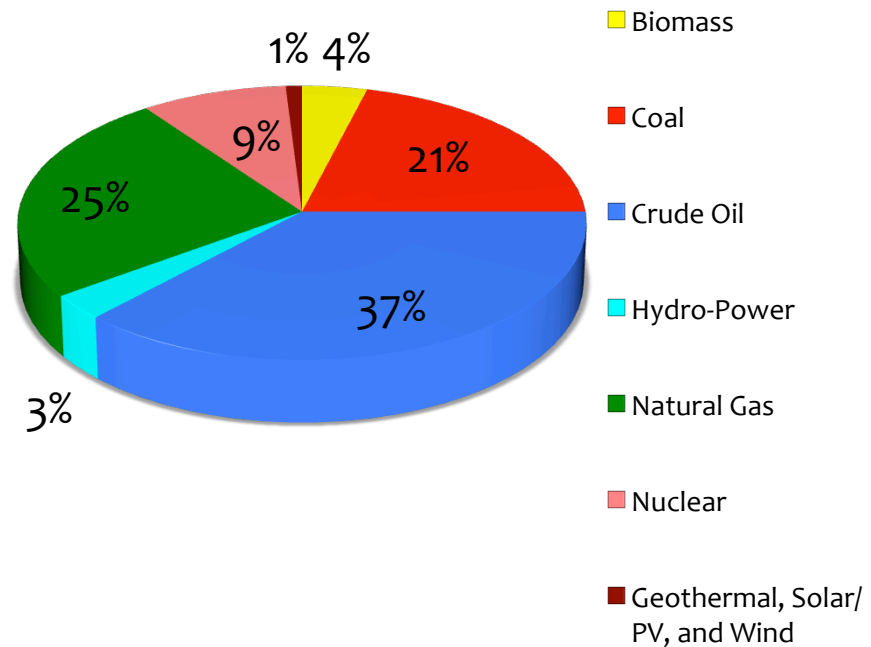


US Energy Consumption

Energy Consumption Estimates by Sector 2010



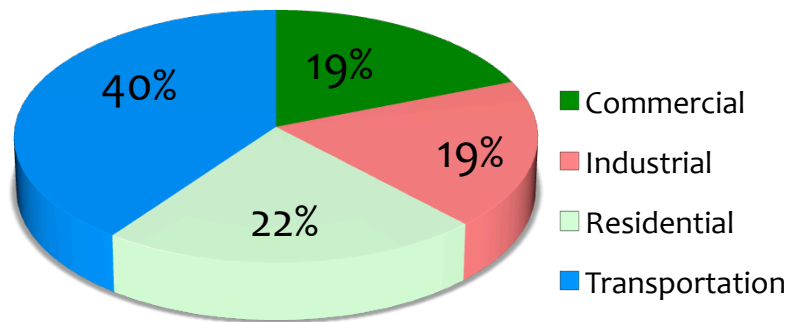
Energy Supply by Source in 2010



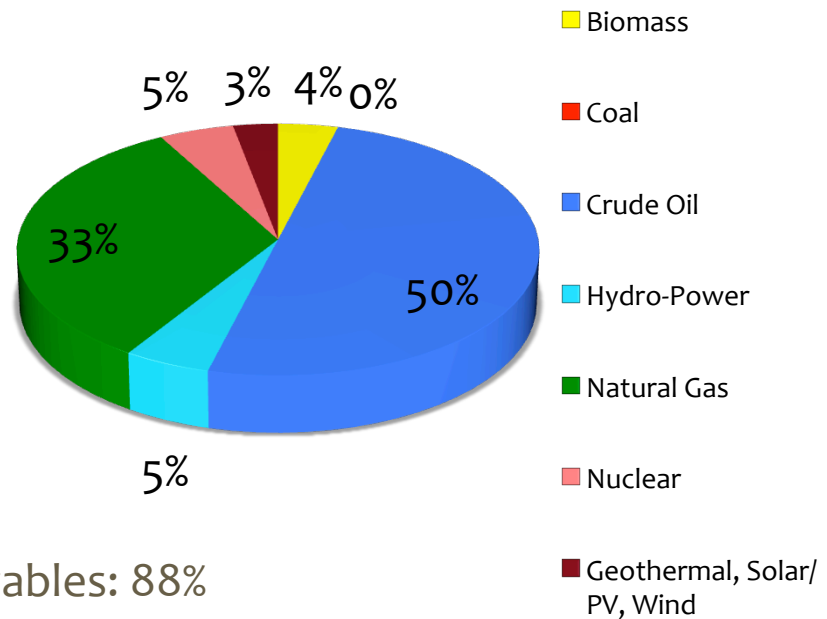
Non-renewables: 92%
Renewables: 8%

California Energy Consumption

Energy Consumption
Estimates by Sector 2010



Energy Supply by Source in
2010



Non-renewables: 88%
Renewables: 12%

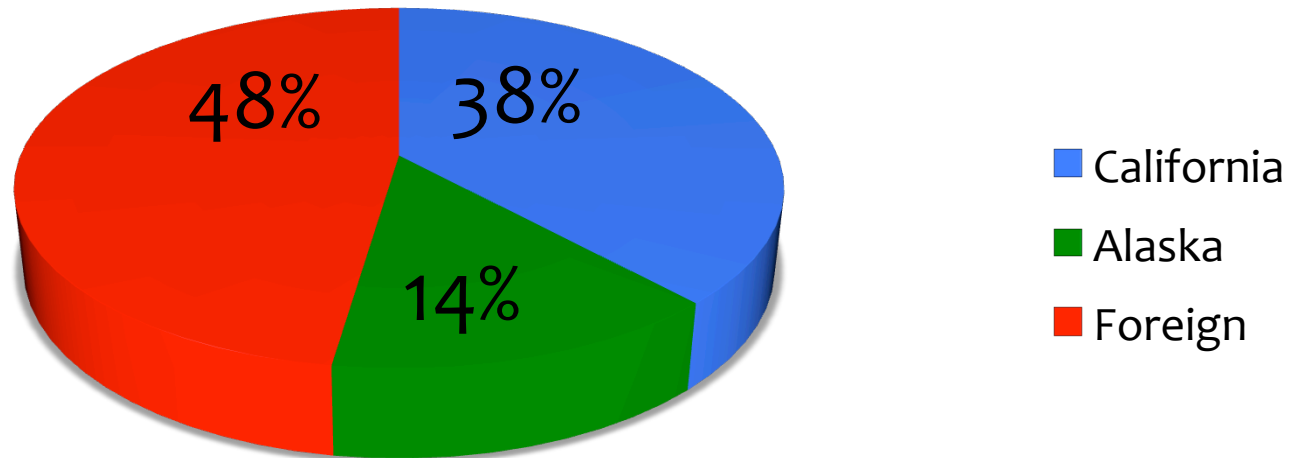
California Transportation Fuel Sources: 2010 Data

- * Crude Oil 96%
- * Ethanol 3%
- * Natural Gas 1%

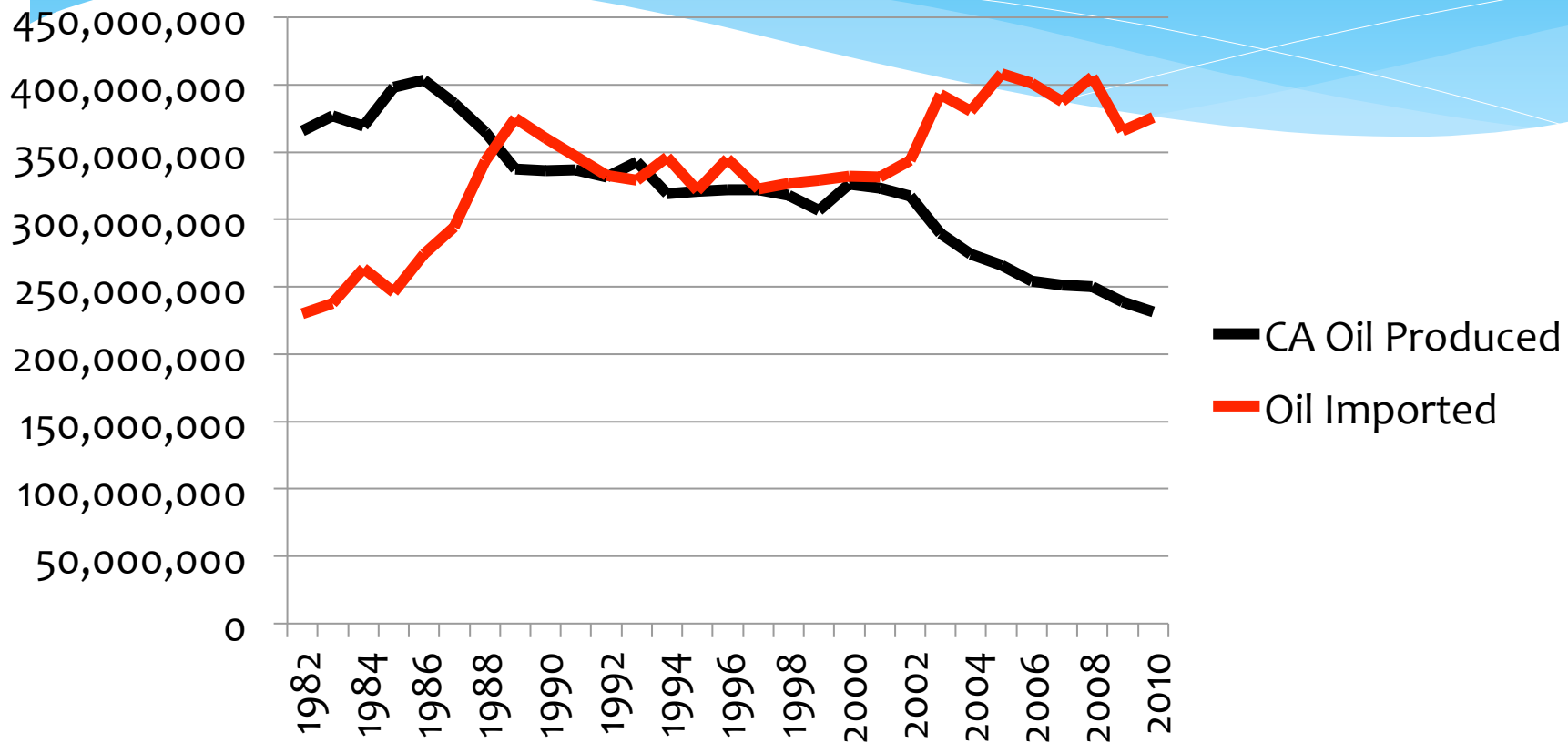


California Crude Oil Supply

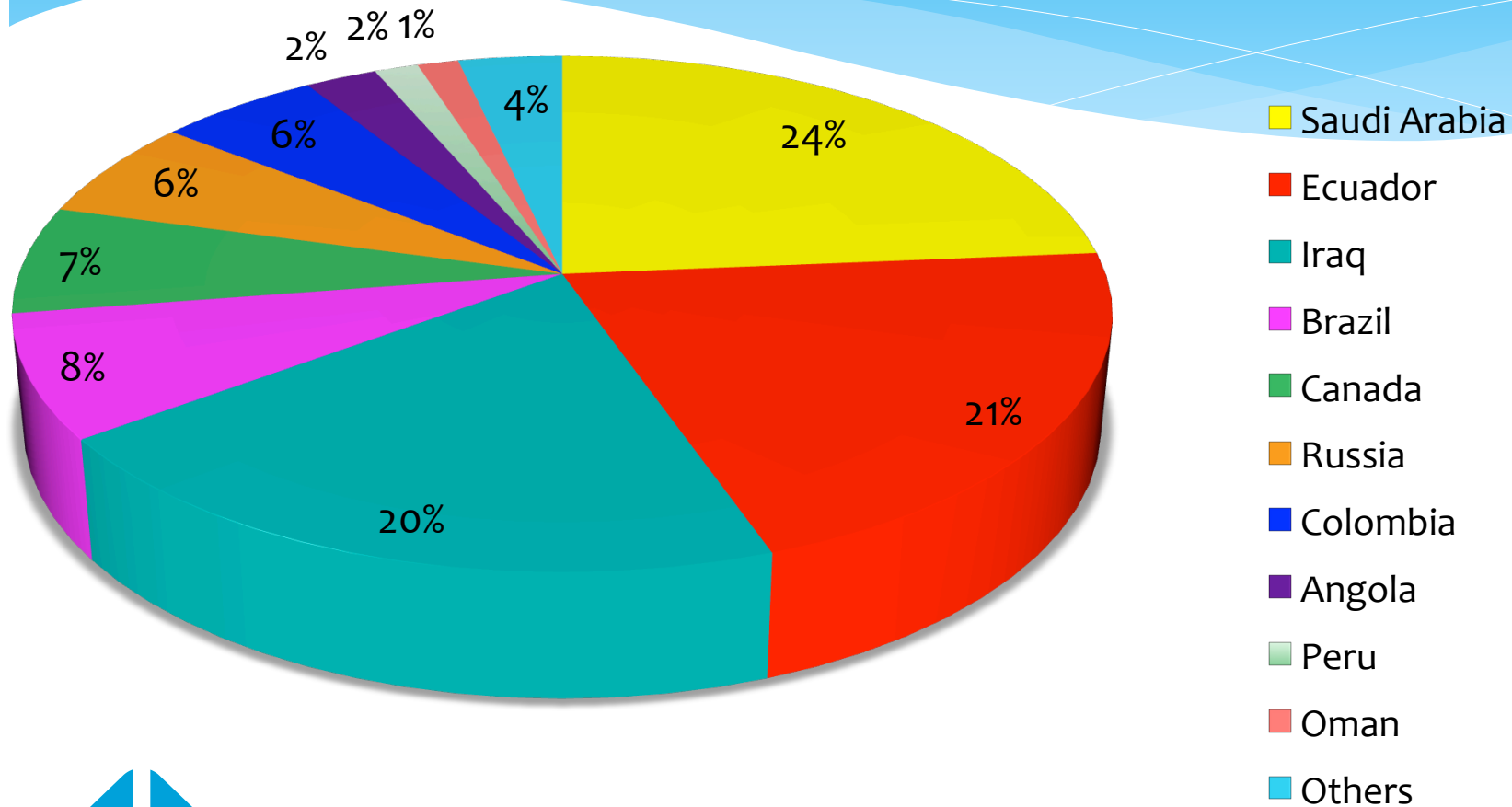
Oil Supply Sources to California Refineries 2010



California Oil Supply (barrels per year)



Sources of Crude Oil Imports to CA in 2010



Bring Oil to California from around the World

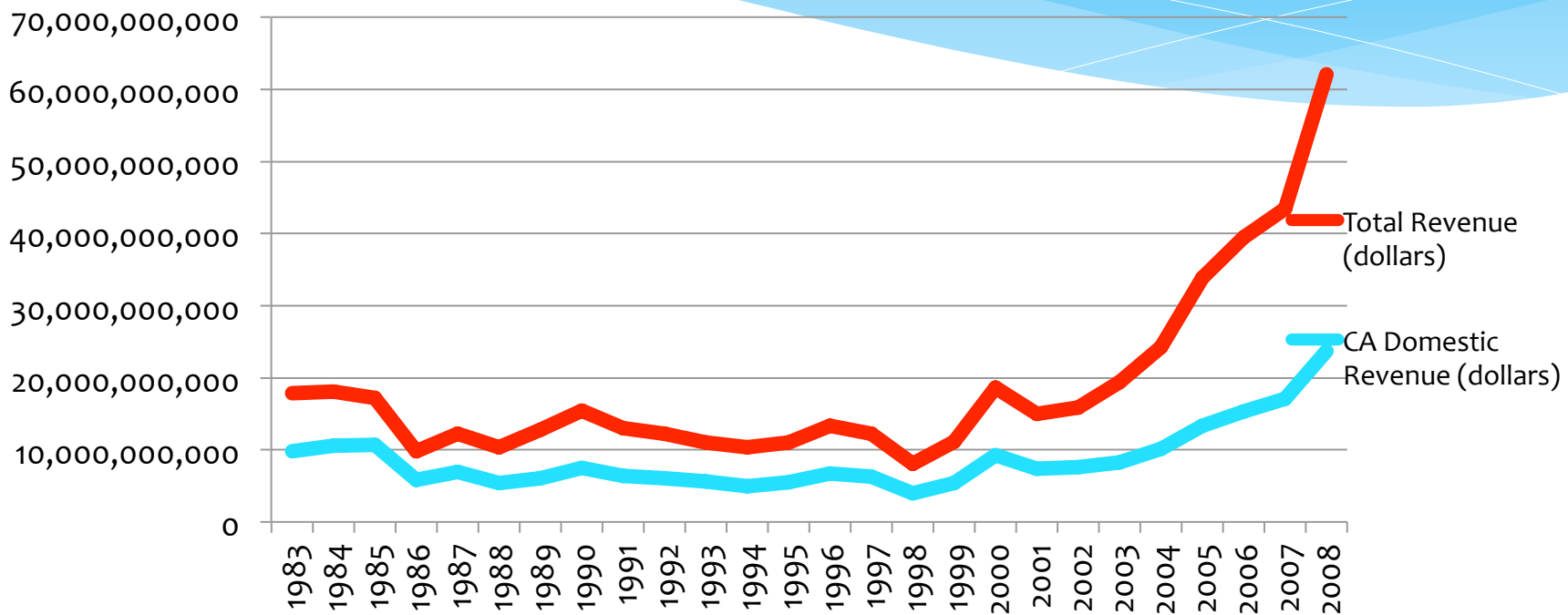


California Crude Oil Economics

Source	Barrels Per Year	Jobs Created	Taxes Paid (Severance and production taxes)	Energy Security
California	240 million	115,000+	\$400 Million	High
Imported Crude Oil	275 million	~1,000	\$0	Low



Expenditures for Oil Consumed in California: Produced In-State Oil and All Oil



In 2008, \$62 Billion was spent on Oil Consumed in CA. \$23 Billion was spent on CA Produced Oil. **That means in one year \$39 Billion left CA.**



Expenditures for Oil Consumed in California:

- * In 2008, \$62 Billion was spent on Oil Consumed in CA. \$23 Billion was spent on CA Produced Oil. **That means in one year \$39 Billion left CA.**

Who Benefits?

Oil Produced in California	Foreign Oil Imports
California Citizens	Foreign Countries
Jobs Created	Local Sea Ports
Government gets Taxes	
R & D Reinvestment	
Dividends	
Royalties	

What is crude oil used for?

- 80% of crude oil is used for transportation fuel: gasoline, diesel and jet fuel
- 20 % of crude oil is used for lubricants and manufacturing synthetic materials, especially plastics

Oil Plays a Big Part in Our Lives

Here are just a few of the ways that petroleum products are used around the house. There are many, many more. Look at the other side of this sheet to see what some of them are. You'll be surprised at how many of them you and your family make use of every day.



This illustration is a reproduction of a mural at the West Kern Oil Museum in Tull, California.

Energy Information Administration

2012 US Energy Outlook

Figure 8. U.S. primary energy consumption by fuel, 1980-2035 (quadrillion Btu per year)

