



COMMUNITY ENVIRONMENTAL COUNCIL

*Community Environmental Council*

**The Peak Oil Crisis**  
**and Local Solutions**

# Today's Presentation

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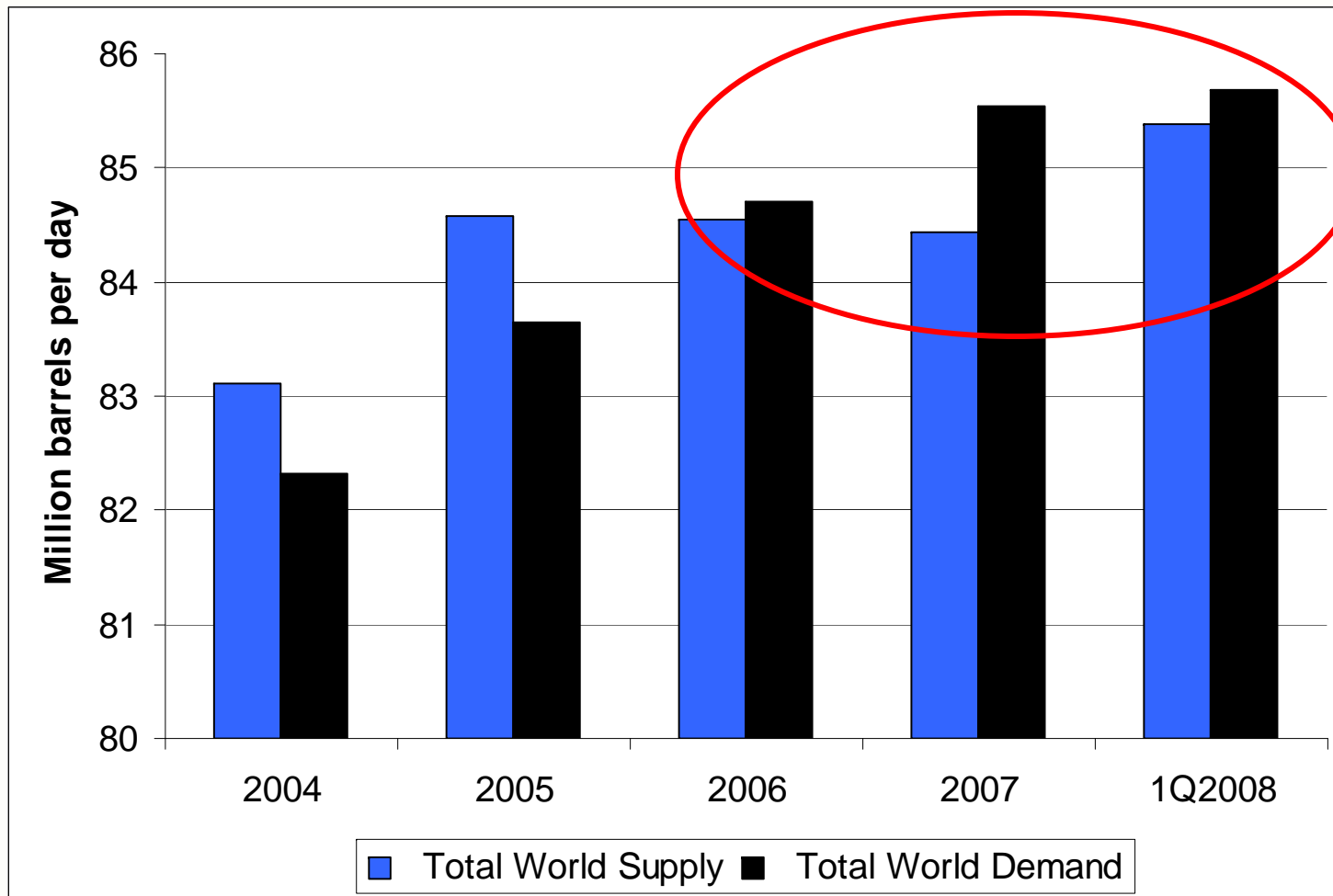
1. The problems: peak oil and climate change
2. The non-solutions
3. The solutions

# We Have a Winner...

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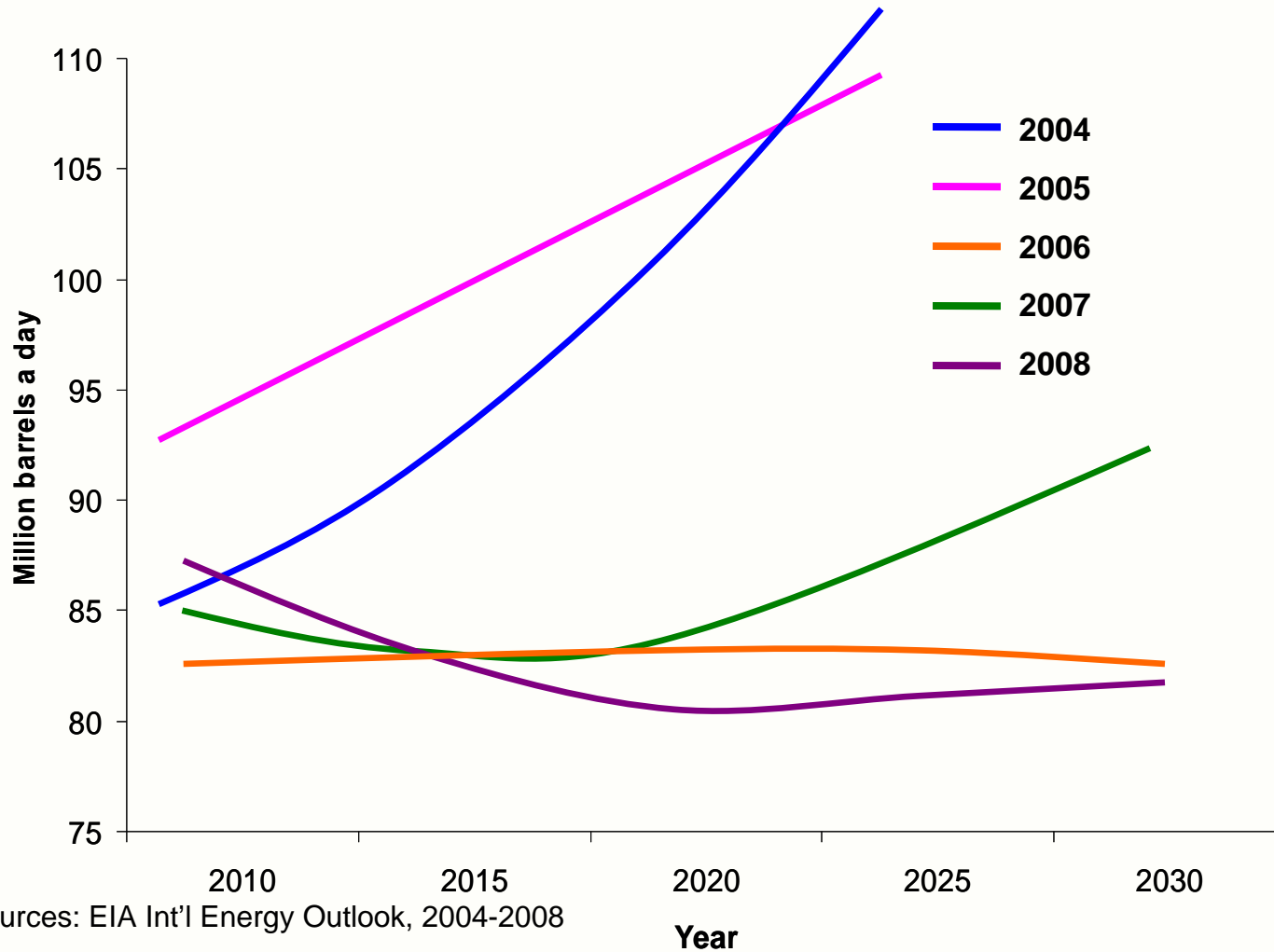
# World Oil Balance 2004-2008



Source: EIA

# Where Are We Headed?

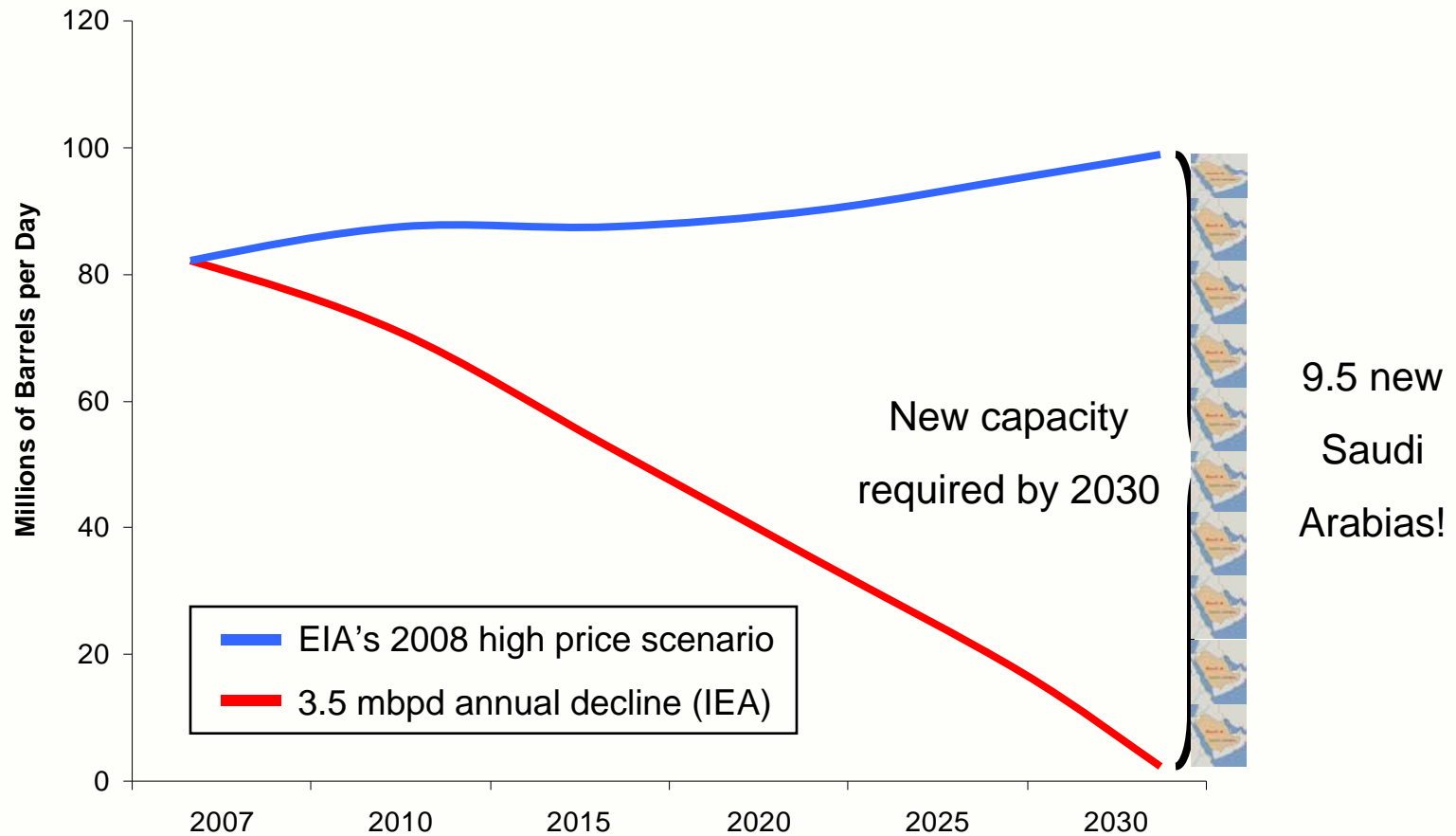
## Global Conventional Oil Production



Sources: EIA Int'l Energy Outlook, 2004-2008

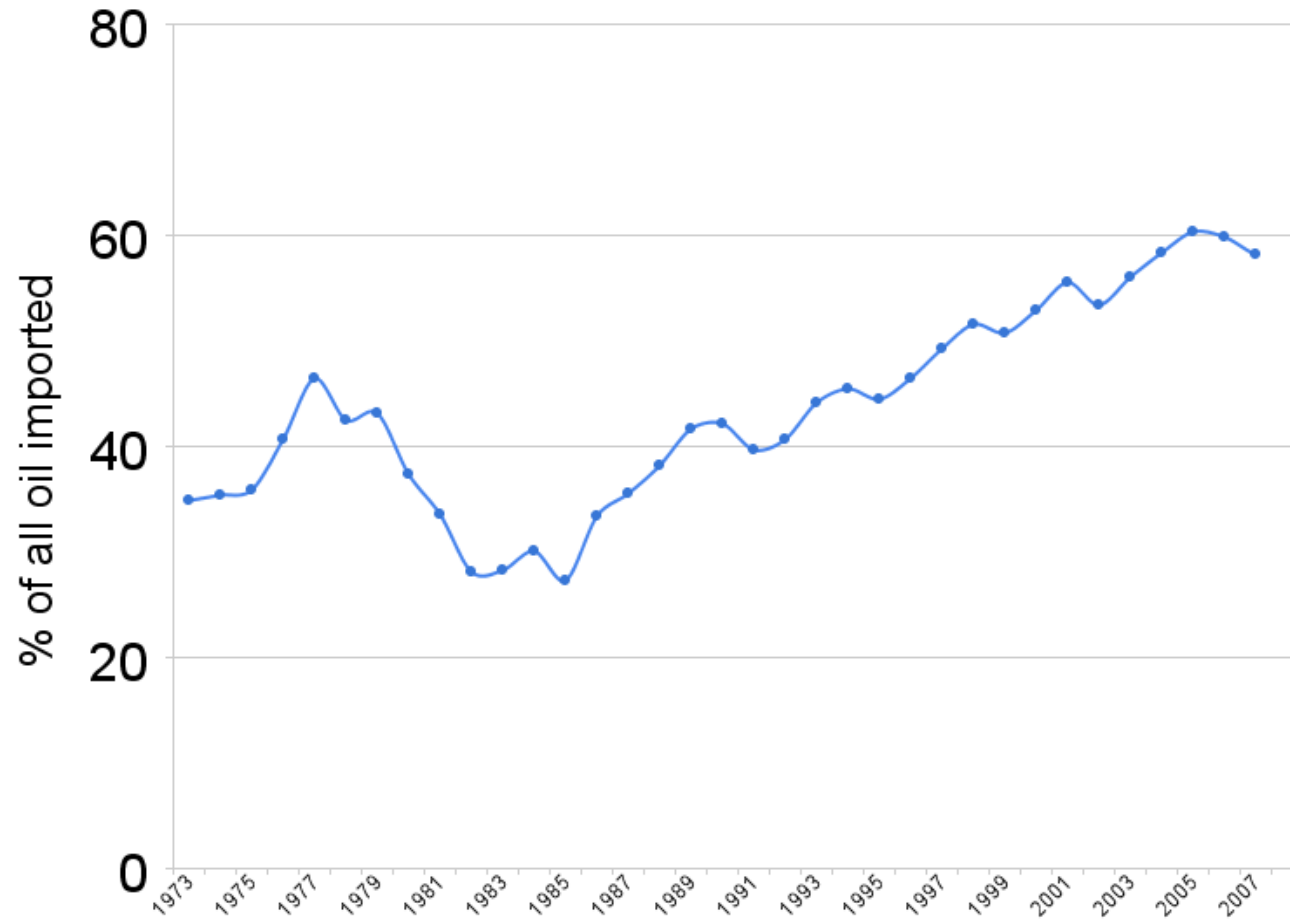
# Where Are We Really Headed?

Total liquids (conventional and unconventional) production



Sources: EIA Annual Energy Outlook, IEA Mid-term Oil Outlook (2008)

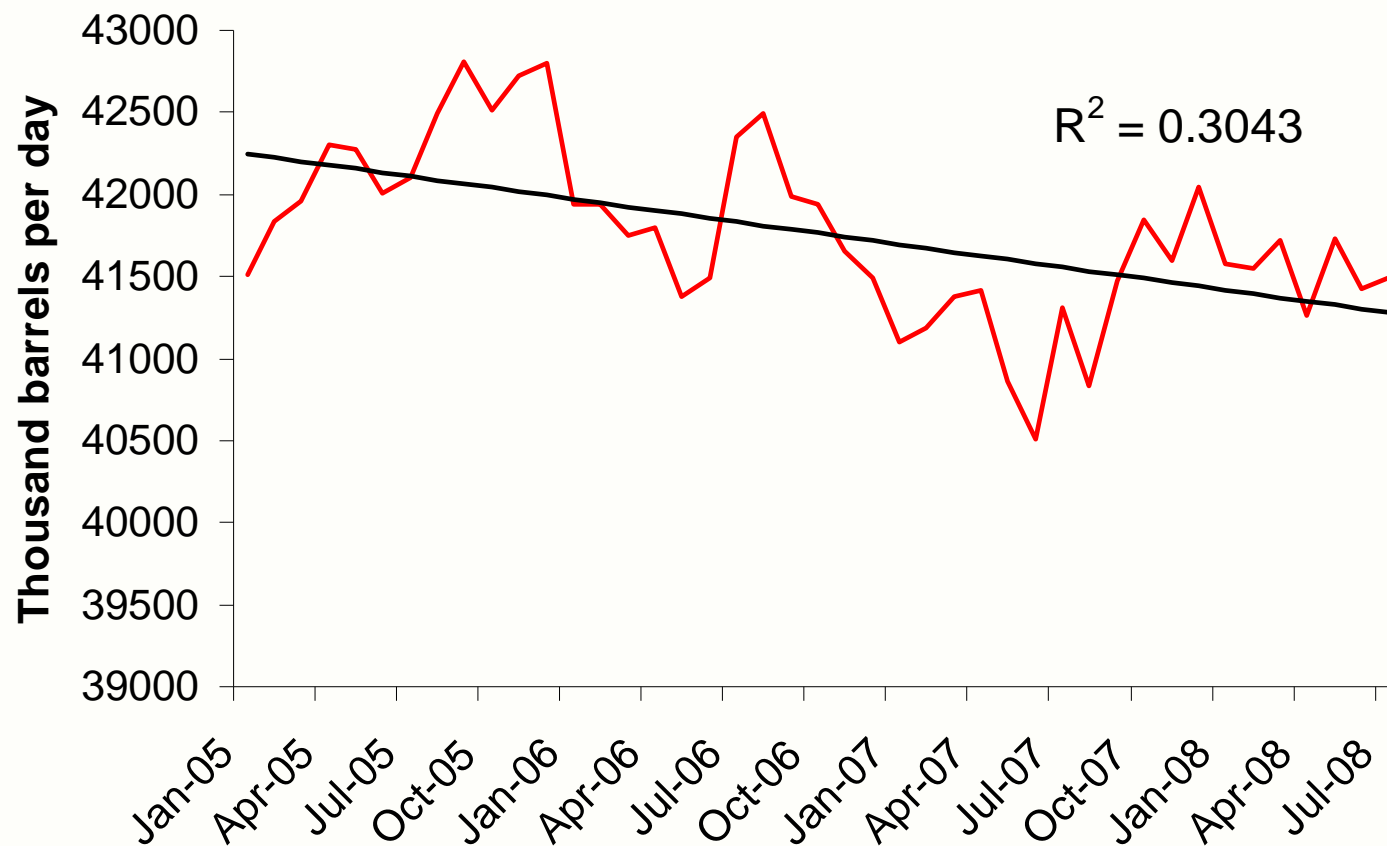
# National Security: US oil imports



Source: EIA

# Global Net Oil Exports

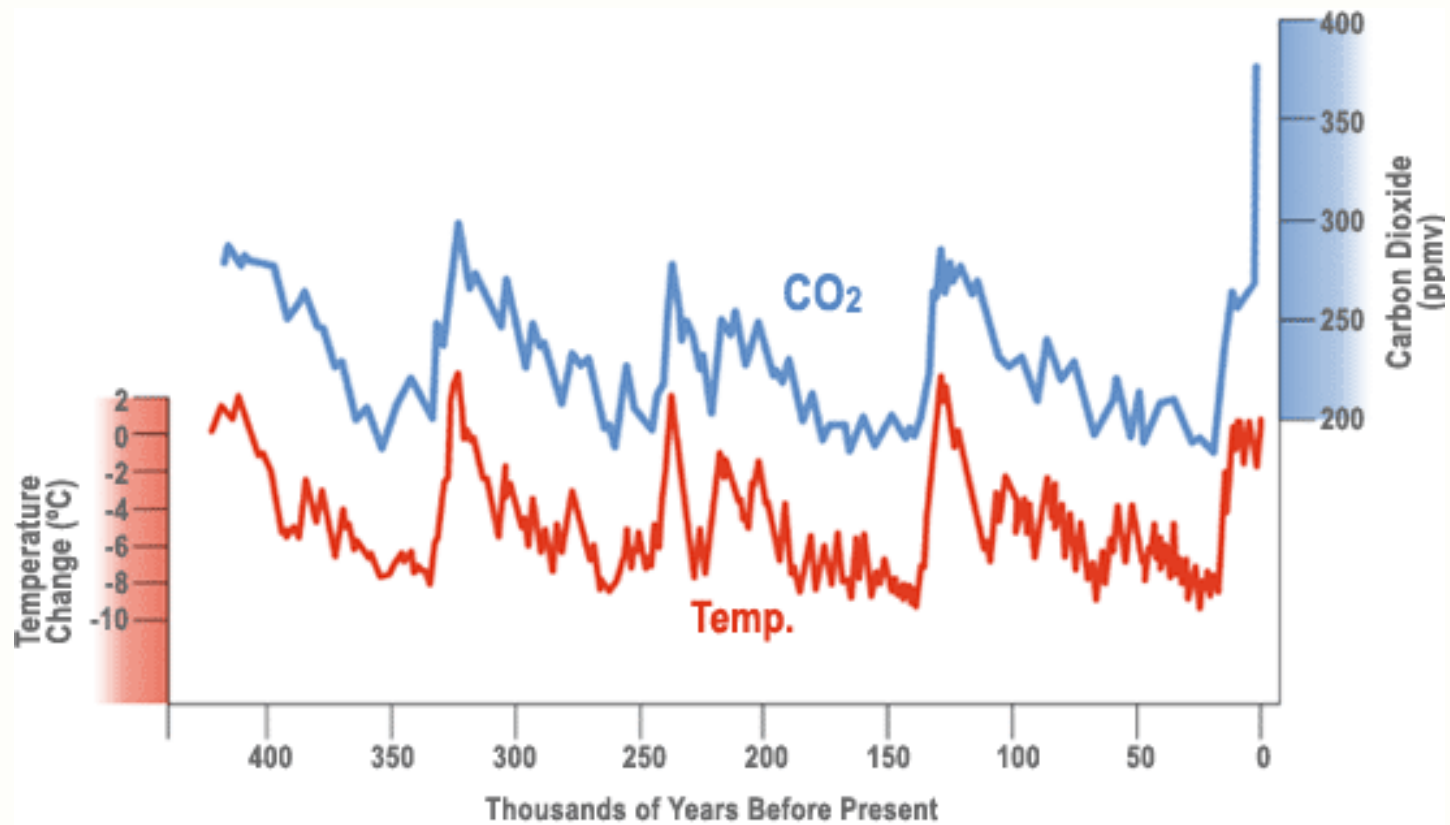
Global net oil exports



Source: EIA



# Climate Change



# Can Offshore Drilling Help?

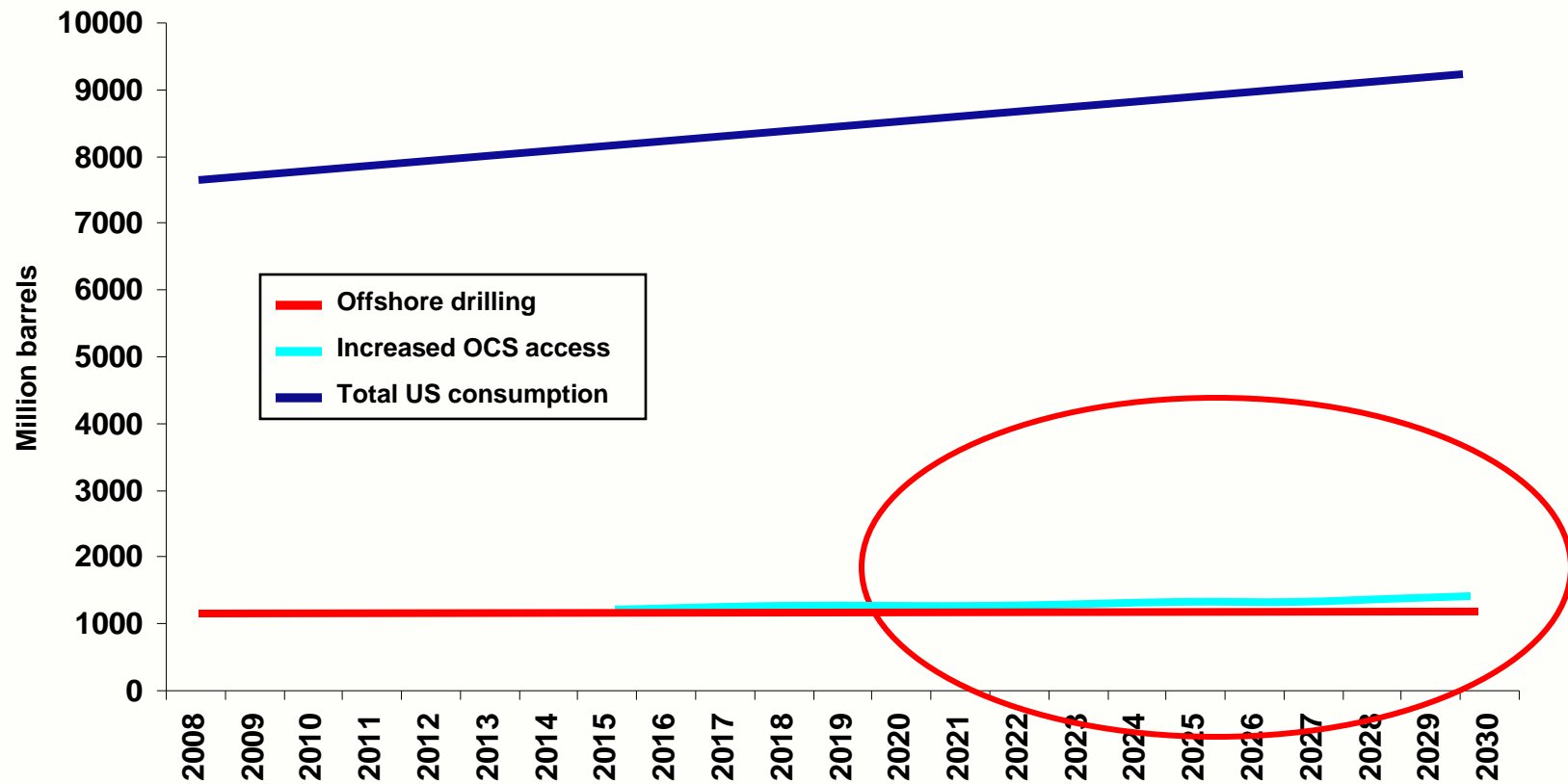
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- > EIA found that increased drilling will have an “insignificant” impact on oil prices, even by 2030

# It's All About Magnitude

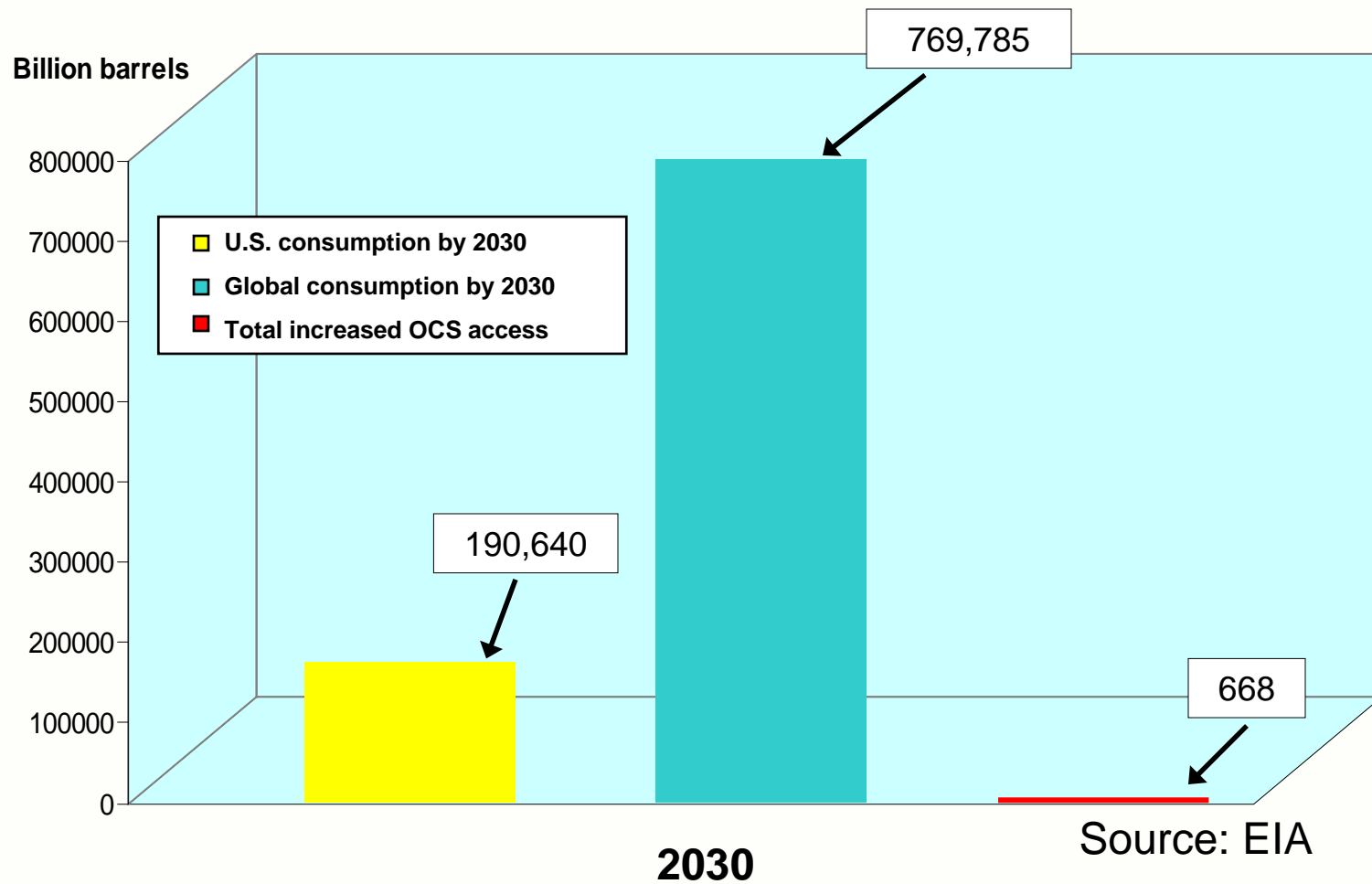
## US annual oil consumption and offshore production



Sources: EIA Annual Energy Outlook 2008 and 2007

# Another View...

U.S. & global cumulative oil consumption compared to OCS access scenario



# US Oil Supplies Are Tapped Out

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- > EIA (2008 Annual Energy Outlook):
  - *“With a few exceptions -- namely, deepwater Gulf of Mexico and offshore Alaska -- the remaining domestic petroleum basins have been significantly depleted.”*

## Drilling is a Non-Solution

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- > Offshore drilling not a good short-term or long-term solution
- > Offshore drilling is a distraction
- > ***We can't drill our way out of this problem***

## “Dr. No” or “All of the Above”?

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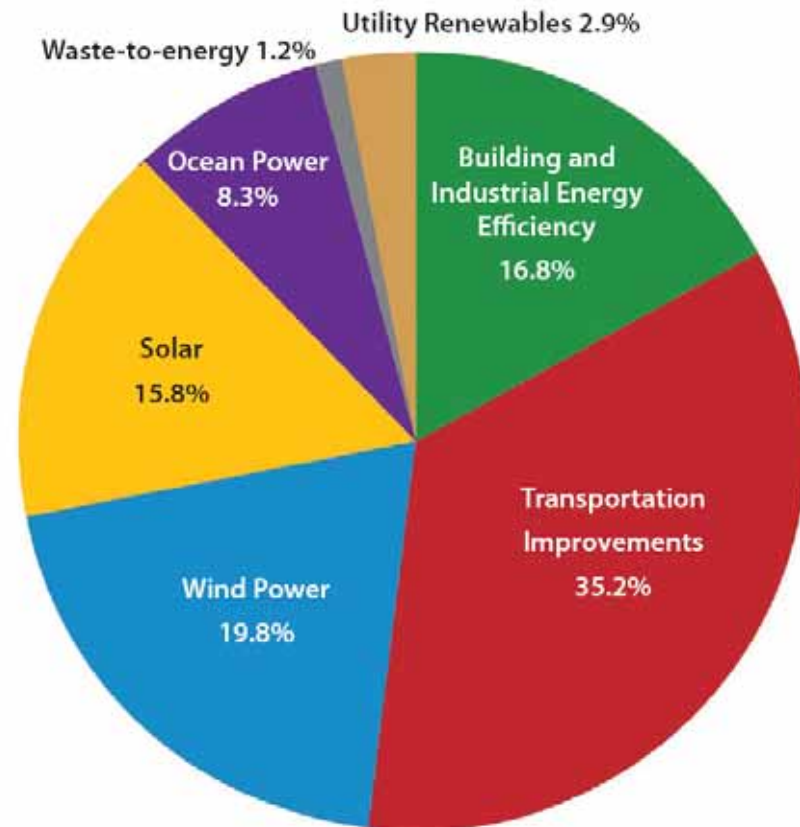
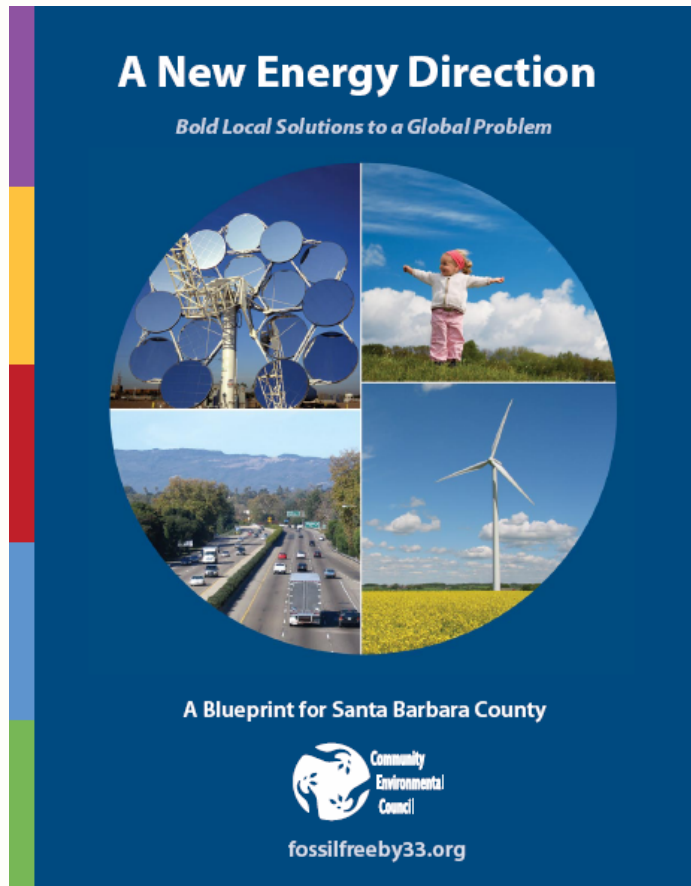
- a) *Energy efficiency*
- b) *Renewables*
- c) *Offshore oil*
- d) *Nuclear*
- e) *All of the above*
- f) ***Smart energy policy***

# What's the Smart Energy Policy?

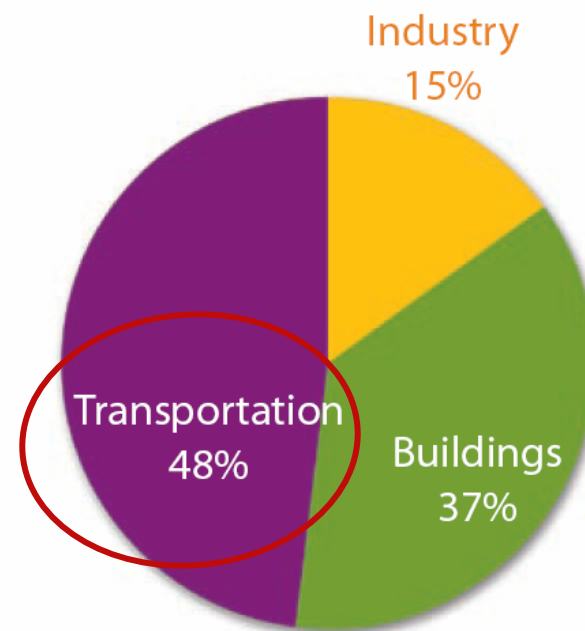
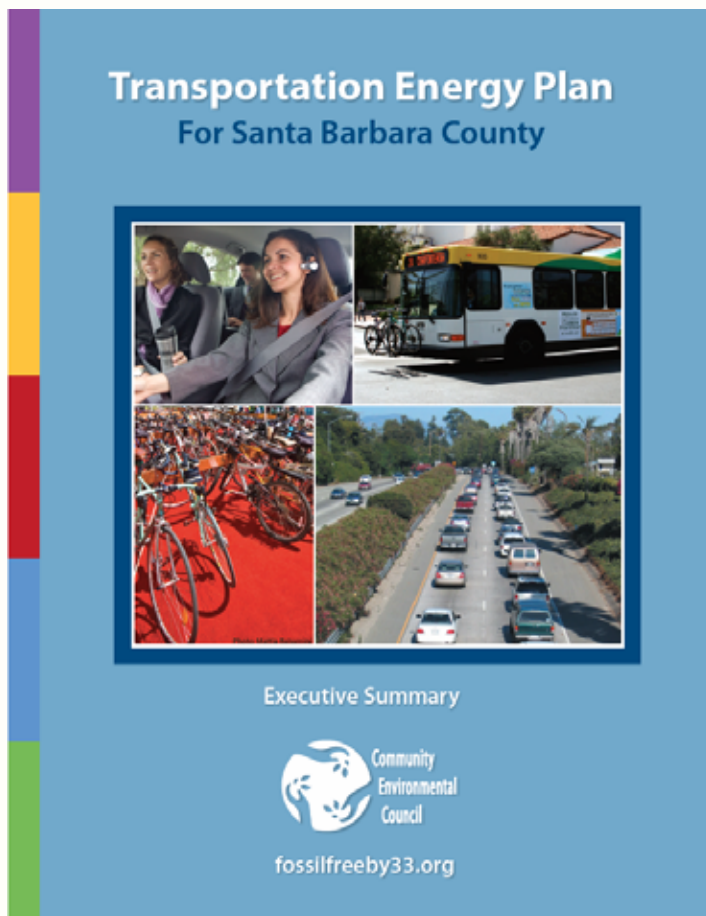
<b>Tech.</b>	<b>Costs</b>	<b>Scalability</b>	<b>Env. Impacts</b>	<b>Legal?</b>
<b>Efficiency</b>	<i>Low</i>	<i>High</i>	<i>Low</i>	<i>Yes</i>
<b>Conservation</b>	<i>Low</i>	<i>High</i>	<i>Low</i>	<i>Yes</i>
<b>Oil drilling</b>	<i>High</i>	<i>Low</i>	<i>High</i>	<i>No</i>
<b>Coal to liquids</b>	<i>Unknown</i>	<i>Medium</i>	<i>High</i>	<i>Yes</i>
<b>Hydrogen</b>	<i>High</i>	<i>Low</i>	<i>Unknown</i>	<i>Yes</i>
<b>Sustainable Biofuels</b>	<i>High</i>	<i>Medium</i>	<i>Unknown</i>	<i>Yes</i>
<b>Coal</b>	<i>Low (today)</i>	<i>High</i>	<i>High</i>	<i>No</i>
<b>Nuclear</b>	<i>High</i>	<i>High</i>	<i>High</i>	<i>No</i>



# So What Should We Do Here?

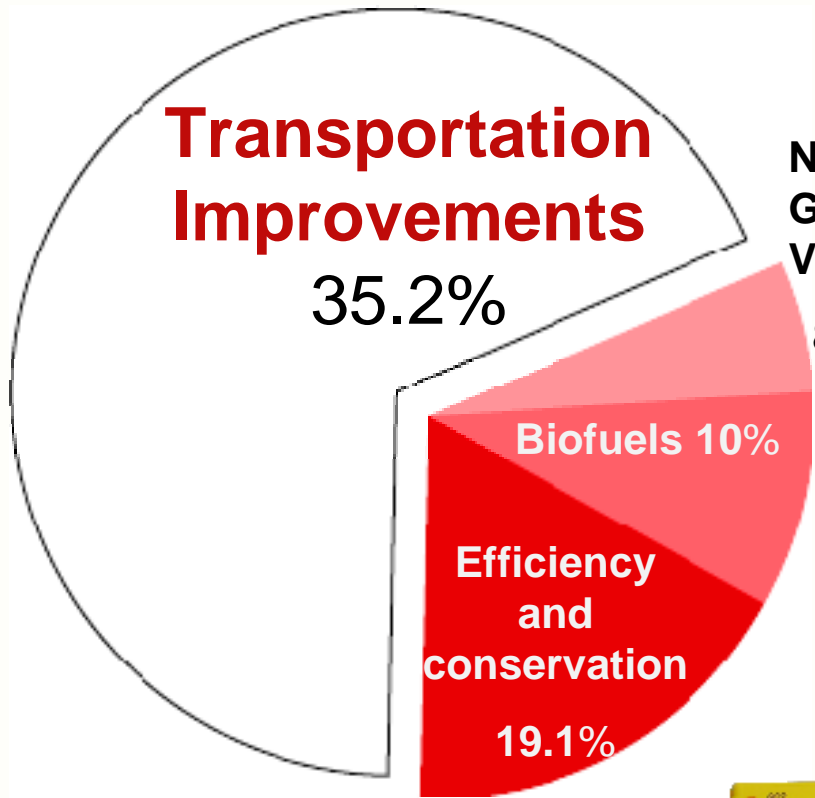


# Reducing Petroleum Demand



Santa Barbara County total energy demand, 2006

# Reducing Petroleum Demand

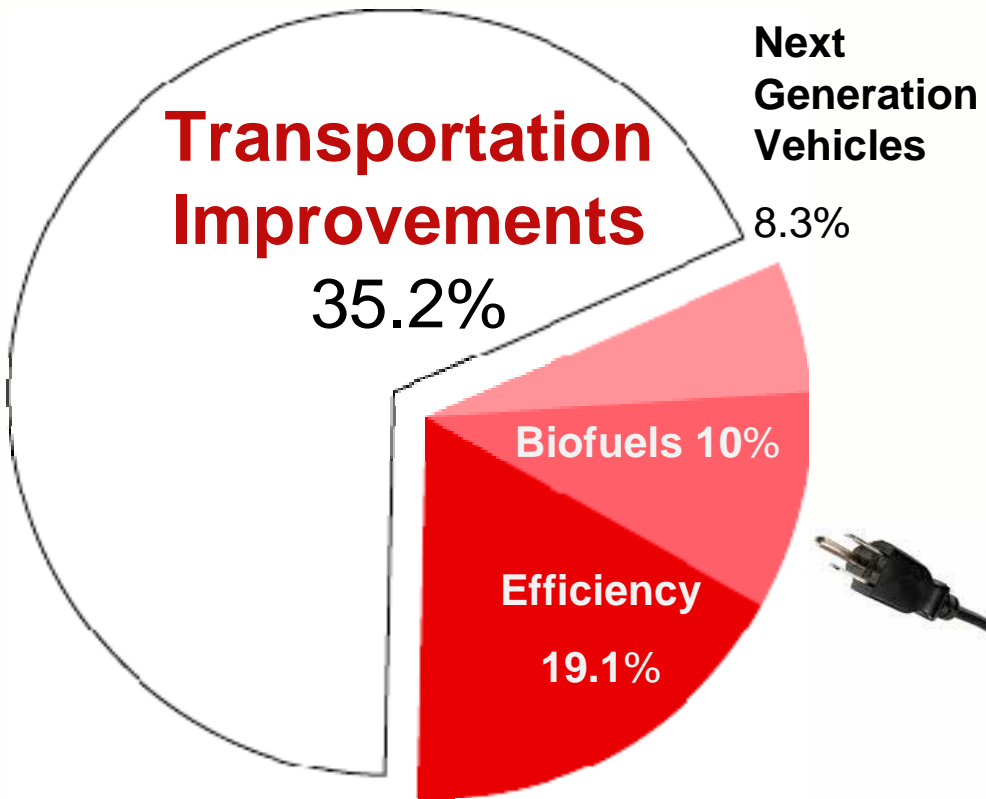


Next Generation Vehicles

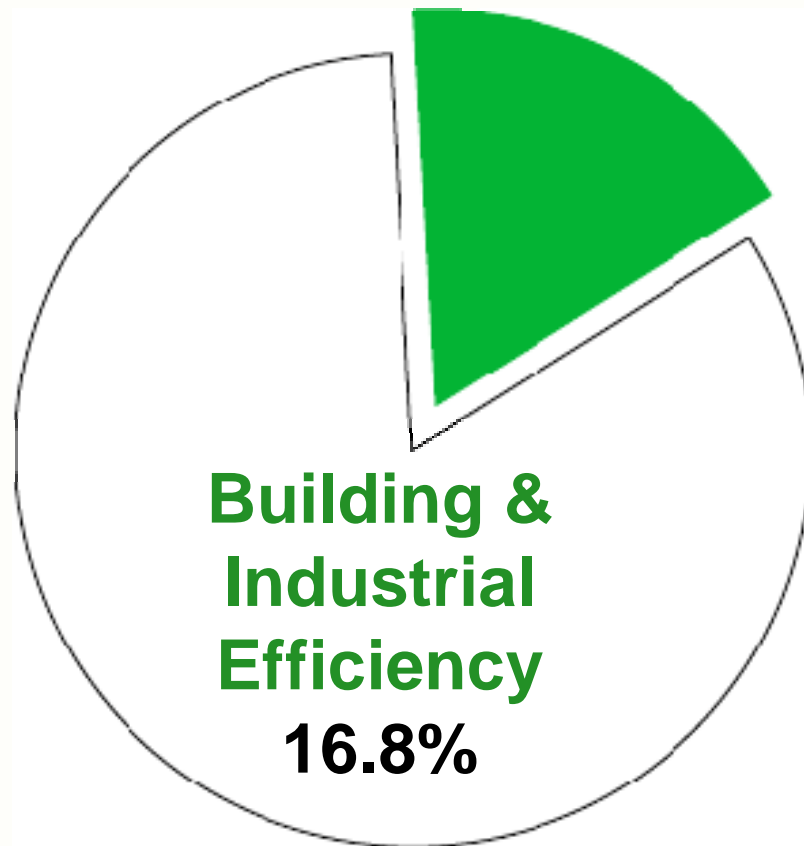
8.3%



# Next Generation Vehicles

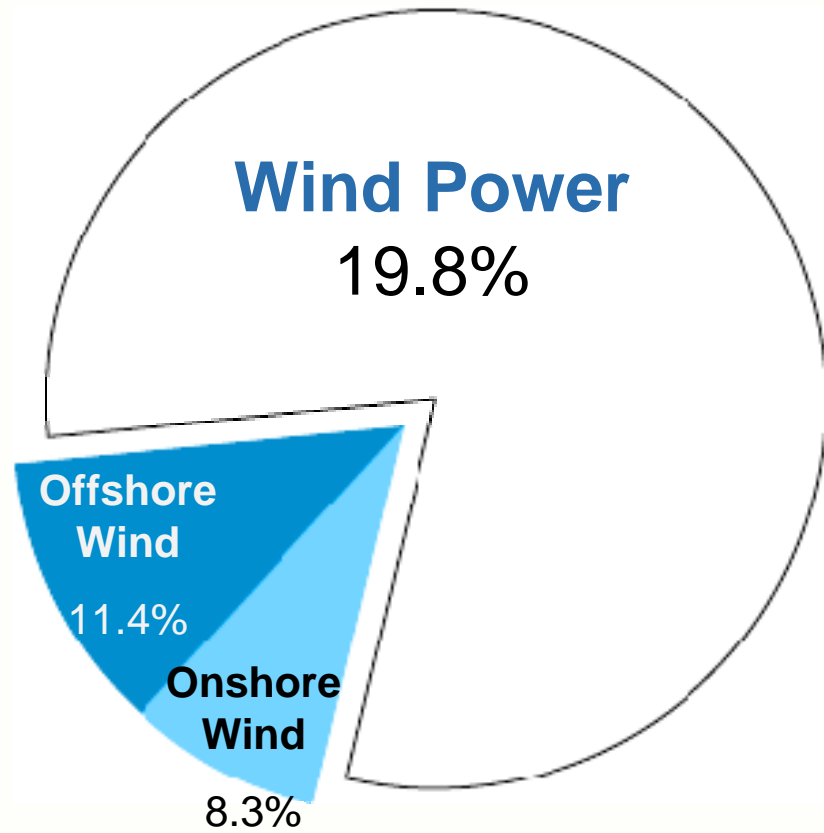


# Reducing Energy Use in Buildings



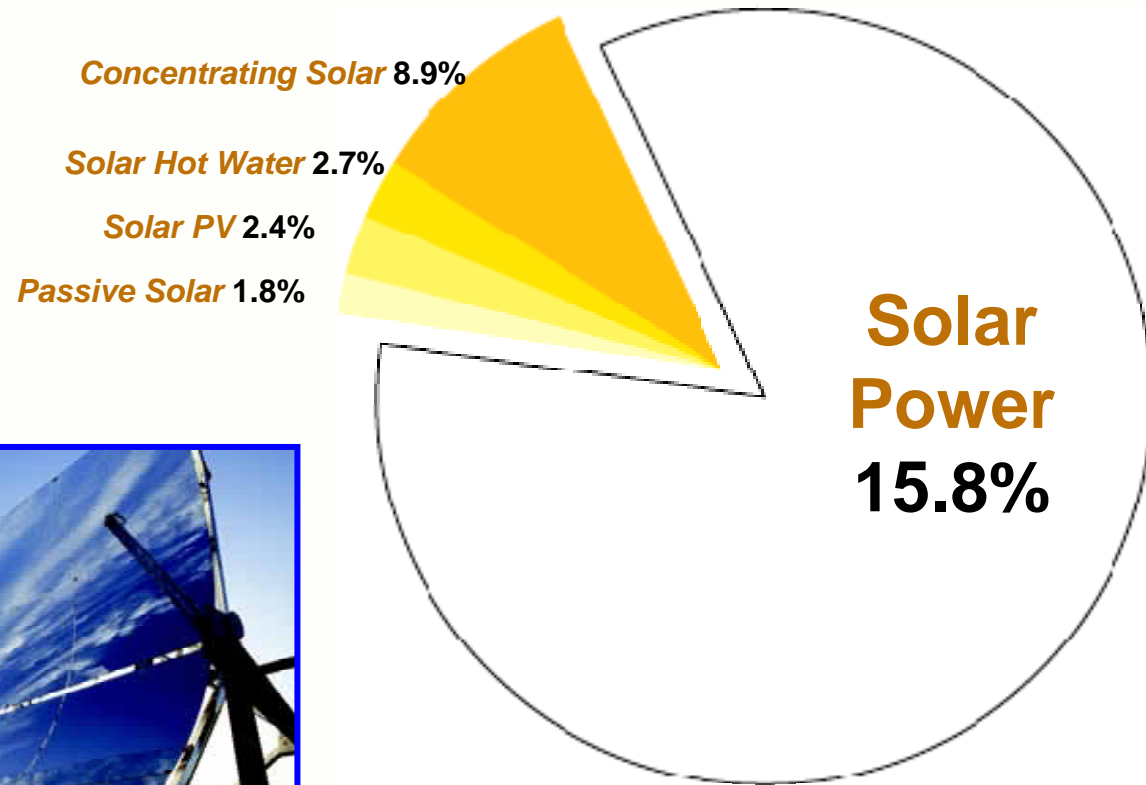
# Future Sources of Power

## *Wind*



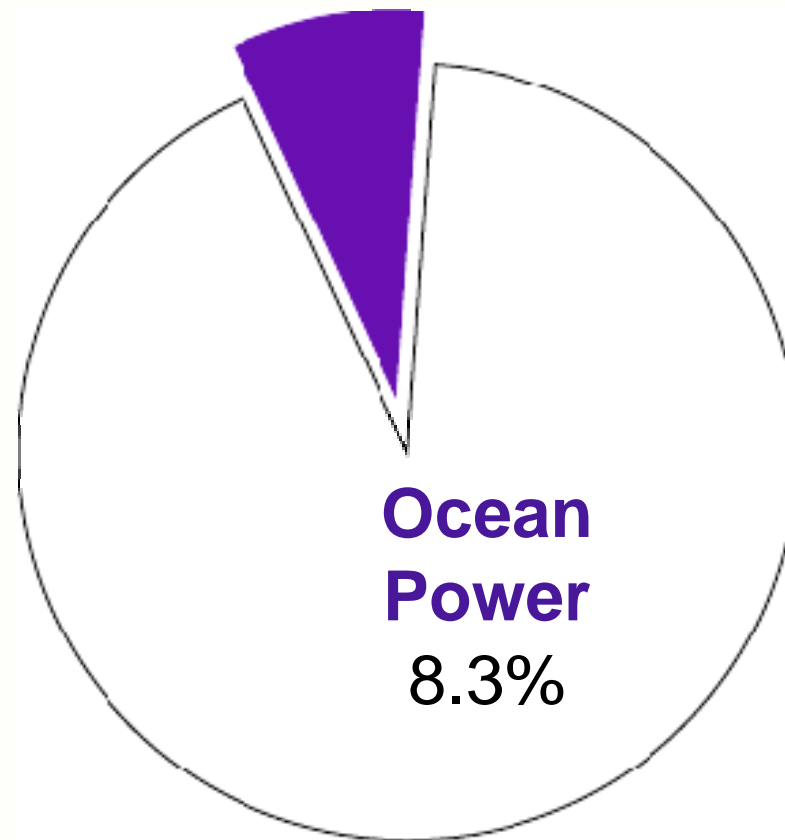
# Future Sources of Power

## Solar



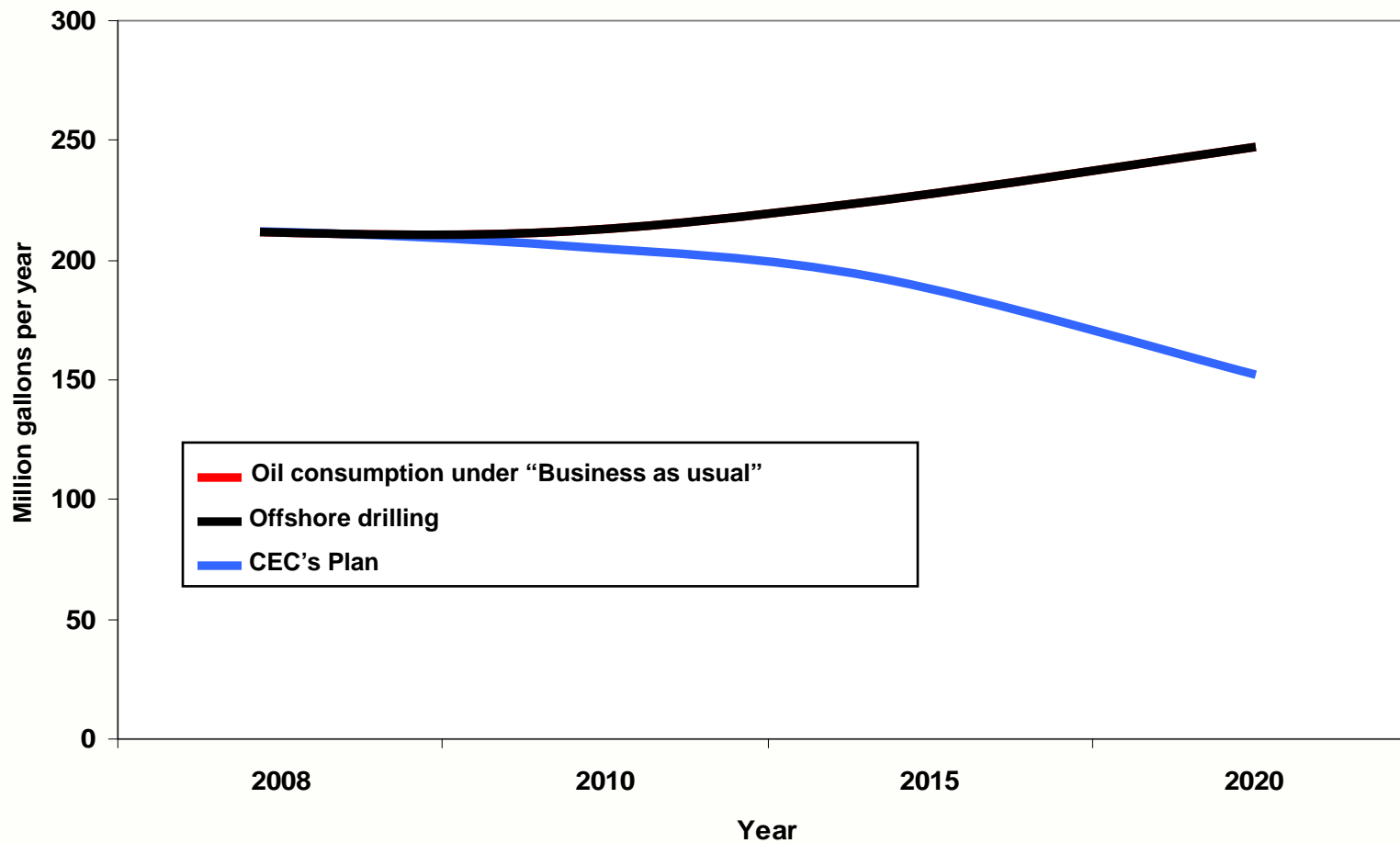
# Future Sources of Power

## *Ocean*





# The Effects of CEC's Plan by 2020



# Our Transpo. Plan Saves Money

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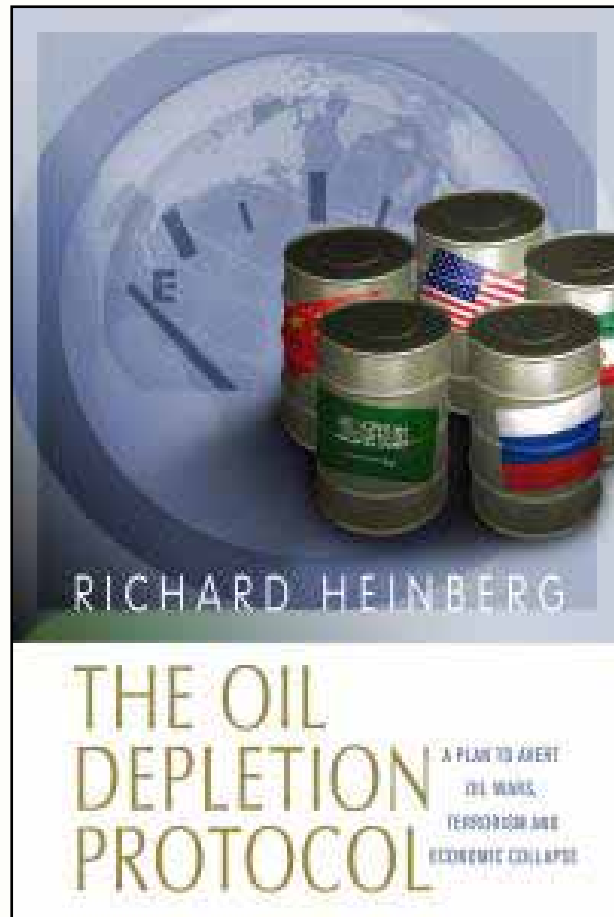
- > *Energy efficiency and conservation are very cheap*
- > *Electricity as a transportation fuel is much cheaper than petroleum*
- > *These result in large annual savings in our county:*
  - > **\$238 million by 2020** *with low fossil fuel prices*
  - > **\$2.7 billion by 2020** *with high fossil fuel prices*

# Renewables Will Provide Tax Revenue

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- > The Acciona 120 megawatt wind farm:
  - \$1.5-2 million per year
- > Four more like it by 2030:
  - \$6.5-10 million per year
- > American Ethanol project:
  - \$3 million per year
- > Wave power:
  - Unknown but significant
- > Estimated total by 2030:
  - \$10-15 million per year
- > With PXP Tranquillon Ridge:
  - \$20-25 million per year

# The Oil Depletion Protocol



- > A soft landing is better than a hard landing
- > Voluntary 3% reduction in oil demand each year

# CEC's Recommendations

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1. Maintain the moratorium
2. County Energy Task Force
3. Adopt the Oil Depletion Protocol



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*“Fossil fuels resemble capital in the bank. A prudent and responsible parent will use his capital sparingly in order to pass on to his children as much as possible of his inheritance.”*

***Admiral Hyman Rickover, 1957***



COMMUNITY ENVIRONMENTAL COUNCIL

**Thank you!**

*Tam Hunt*

*Energy Program Director*

*[thunt@cecmail.org](mailto:thunt@cecmail.org)*