



COMMUNITY ENVIRONMENTAL COUNCIL

***Introducing:***

*The New Energy Blueprint  
Community Environmental Council*

*County Board Presentation*



***Destination:***

***A Renewable Energy Future***

# Today

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- > *The origins of the New Energy Blueprint.*
- > *Why now? Why Santa Barbara?*
- > *Introduce the New Energy Blueprint components.*
- > *The economics of New Energy.*
- > *Recommendations.*



# The New Energy Blueprint

# The Community Environmental Council

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**Our Legacy**

**The New Energy Blueprint:**  
*This is our proudest moment*

## **Fossil fuel prices are shooting up**

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- > Gas: more than **tripled** in ten years
- > Natural gas: **up over 500%** in ten years
- > Oil: **up over 1,000%** in the last ten years
- > Uranium: **up 1200%** in just eight years
- > Will we see shortages?
  - Maybe

## ***A New Energy Blueprint for Santa Barbara***

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What is it? The big picture...

- *“A set of achievable concrete actions, beginning today, that incrementally move our community toward a renewable energy future.”*
- *A resource to assist decision makers in making real progress*
- *A vision to be shared by decision makers throughout the area.*

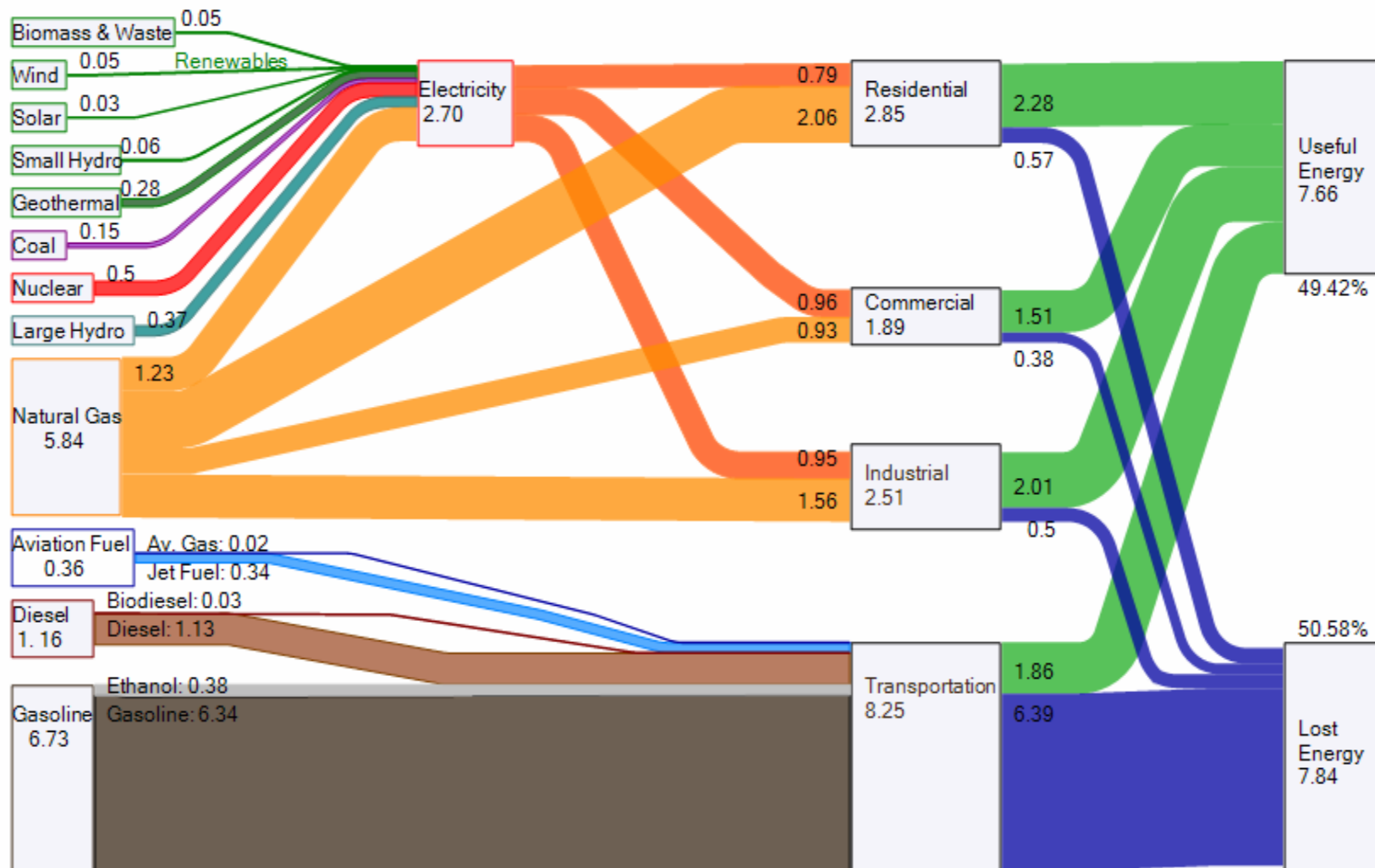
## Plan in brief

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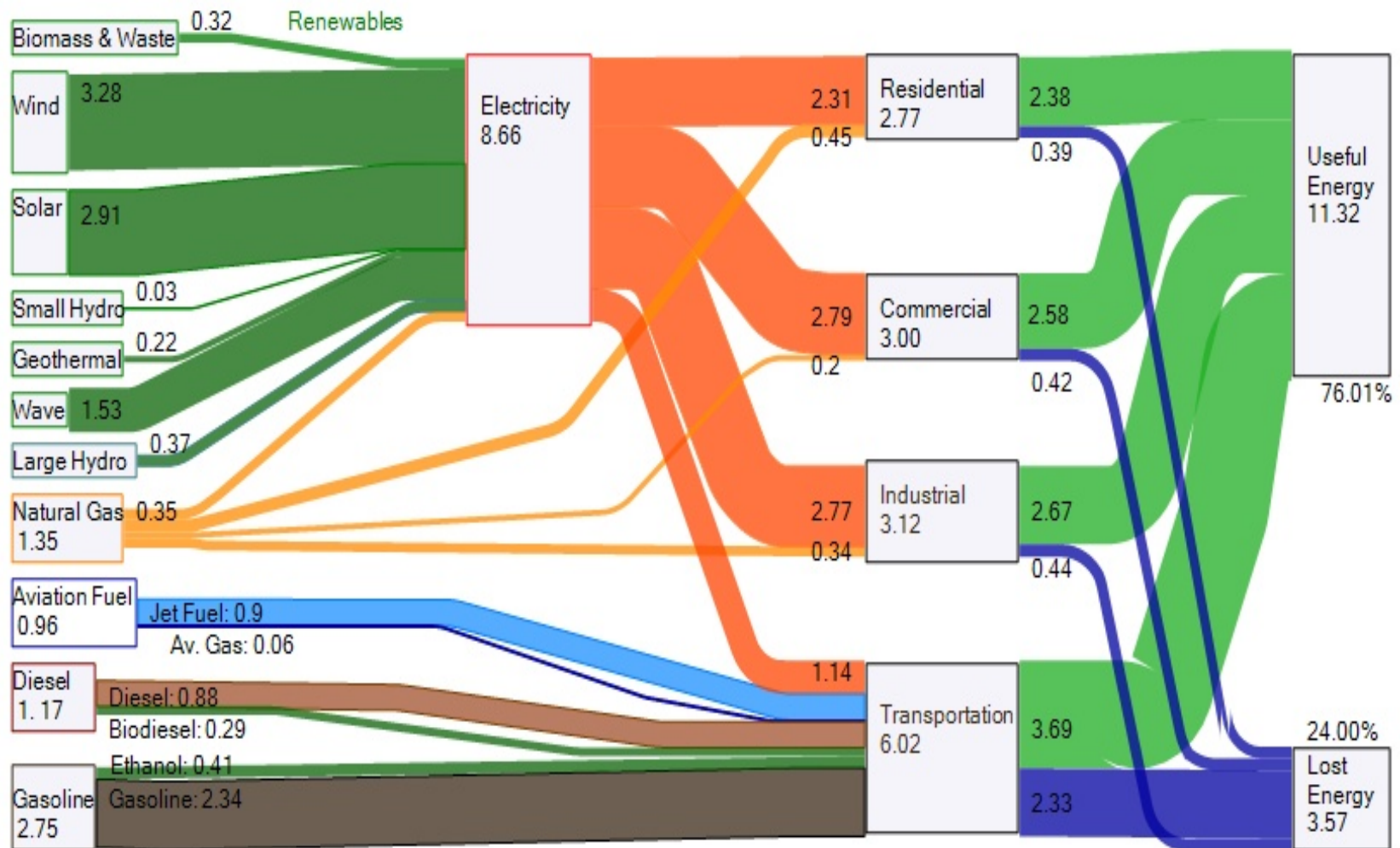
- > Energy efficiency and conservation
- > Hybrid cars and biofuels
- > Renewable electricity – and lots of it
- > Next generation vehicles
  - Electrification of transport



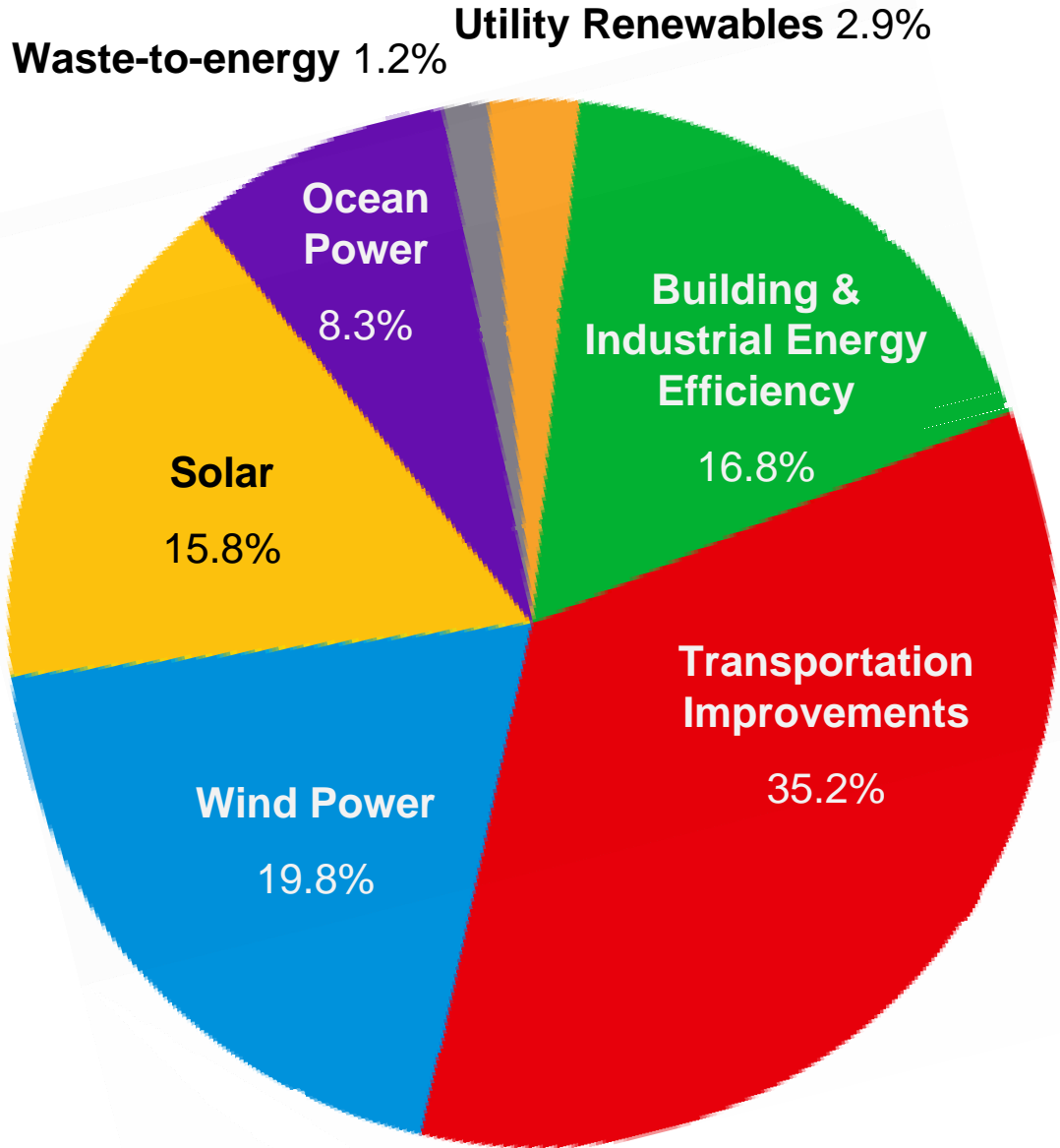
# County Energy Use: 2005



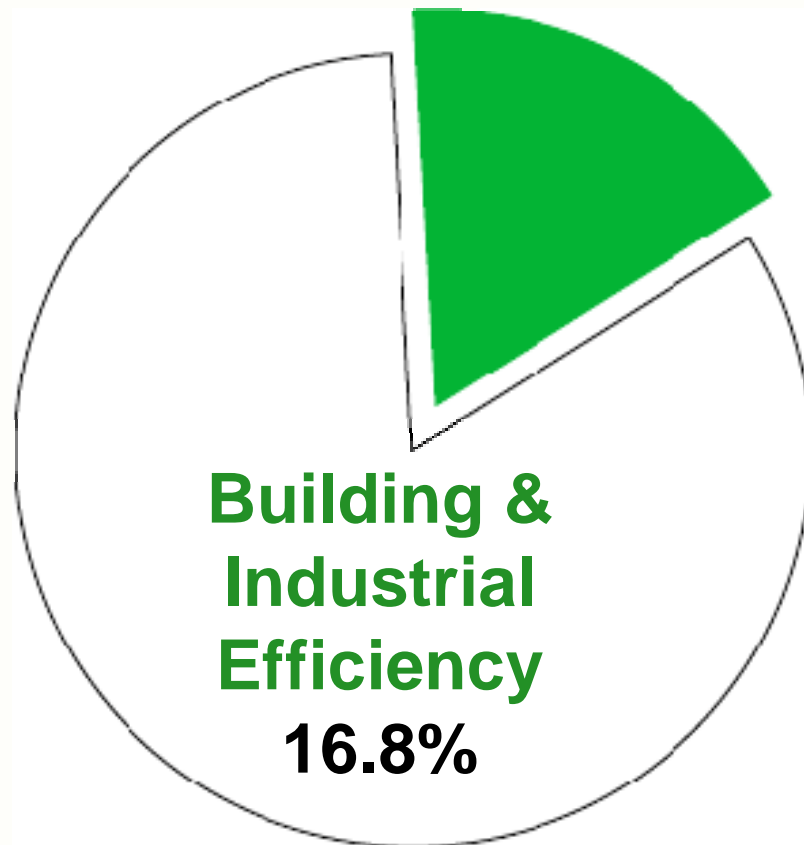
# “Fossil Free” County Energy Use: 2030



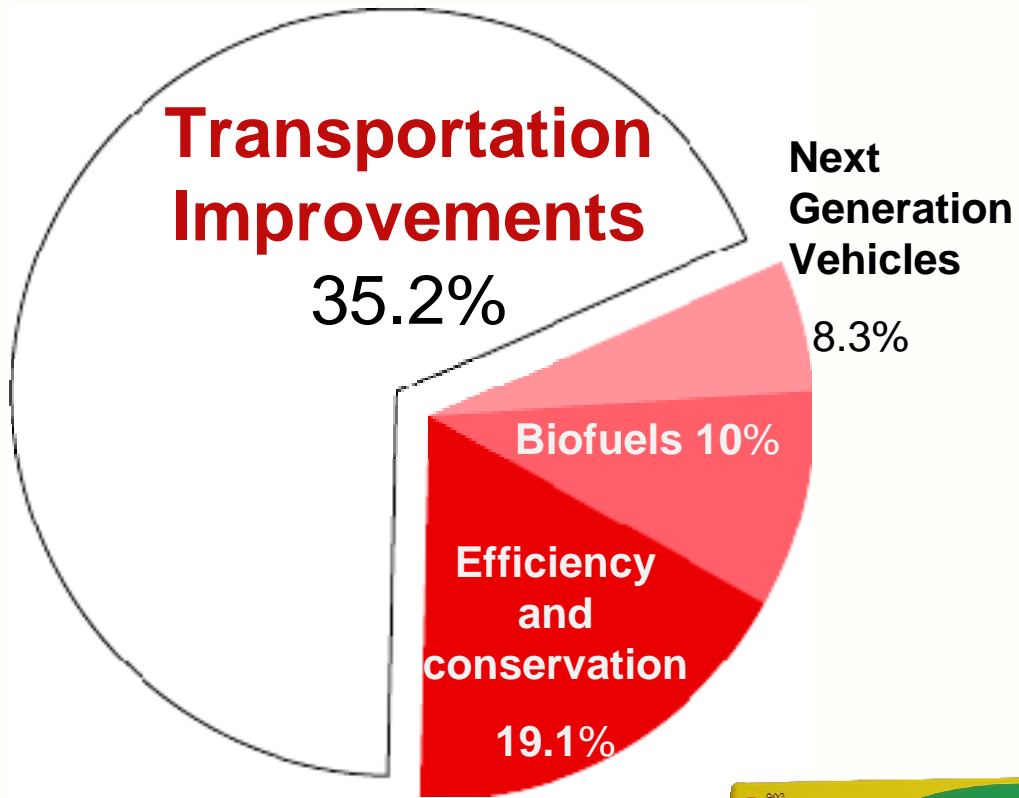
**The  
“Fossil  
Free”  
future**



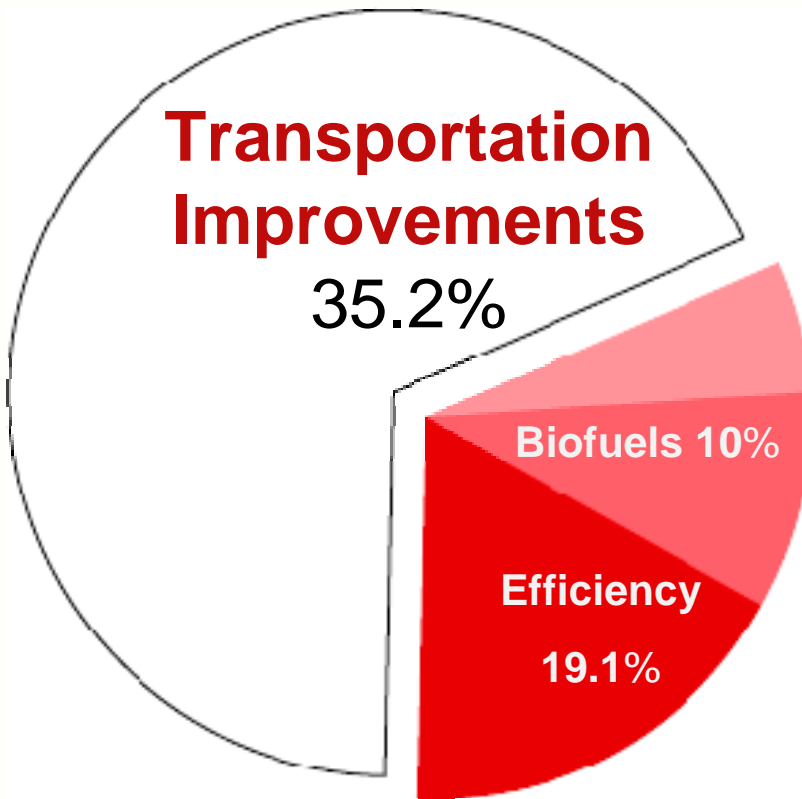
# Reducing Energy Use in Buildings



# Reducing Petroleum Demand



# Next Generation Vehicles



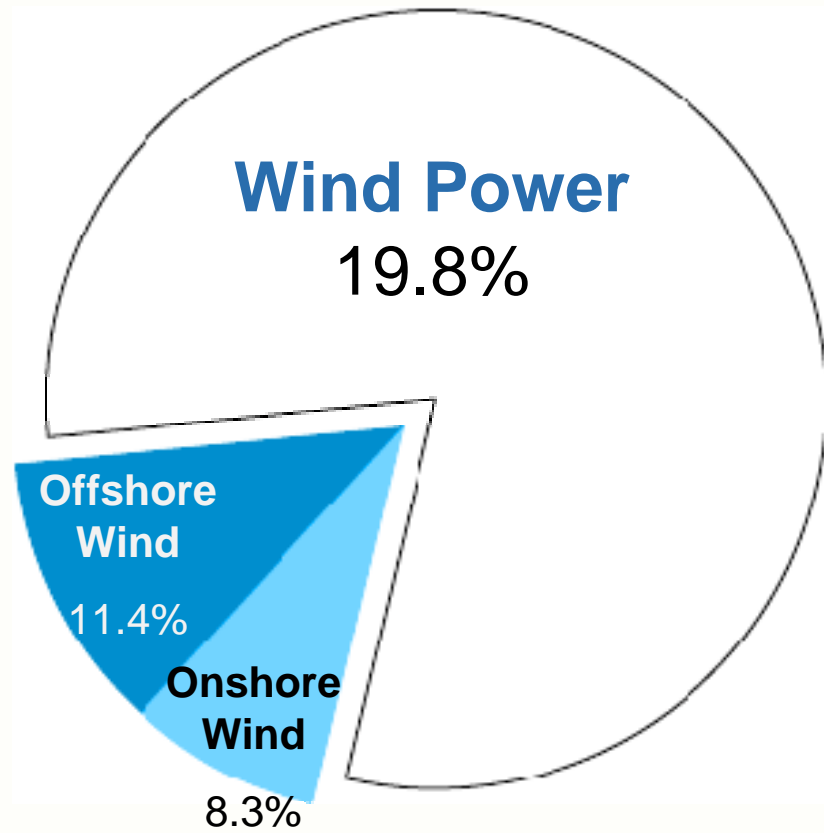
Next Generation Vehicles

8.3%



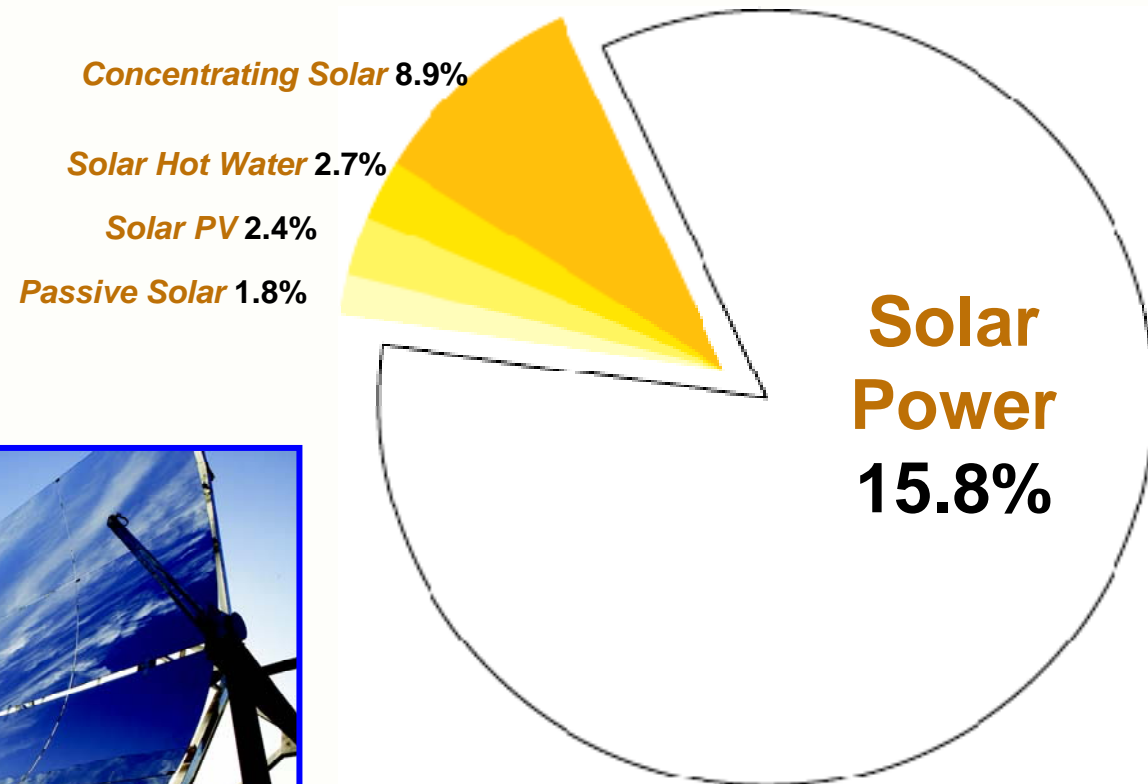
# Future Sources of Power

## *Wind*



# Future Sources of Power

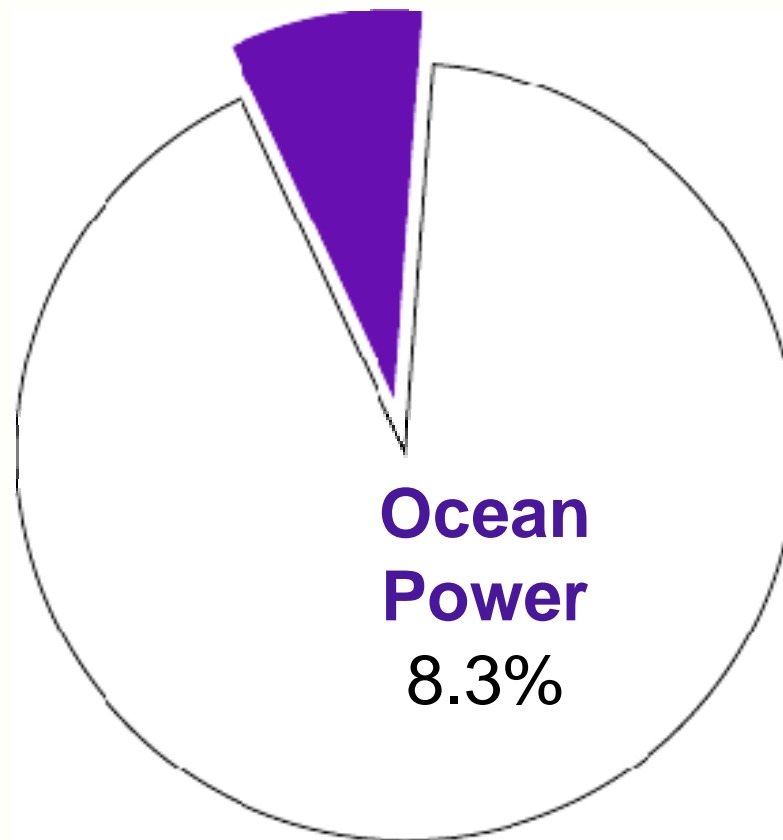
## Wind, *Solar*





# Future Sources of Power

Wind, Solar, *Ocean*



# Achievable vs. Gross Potential

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*Gross  
potential...  
far more  
than we  
need*



# **New Energy Makes Economic Sense**

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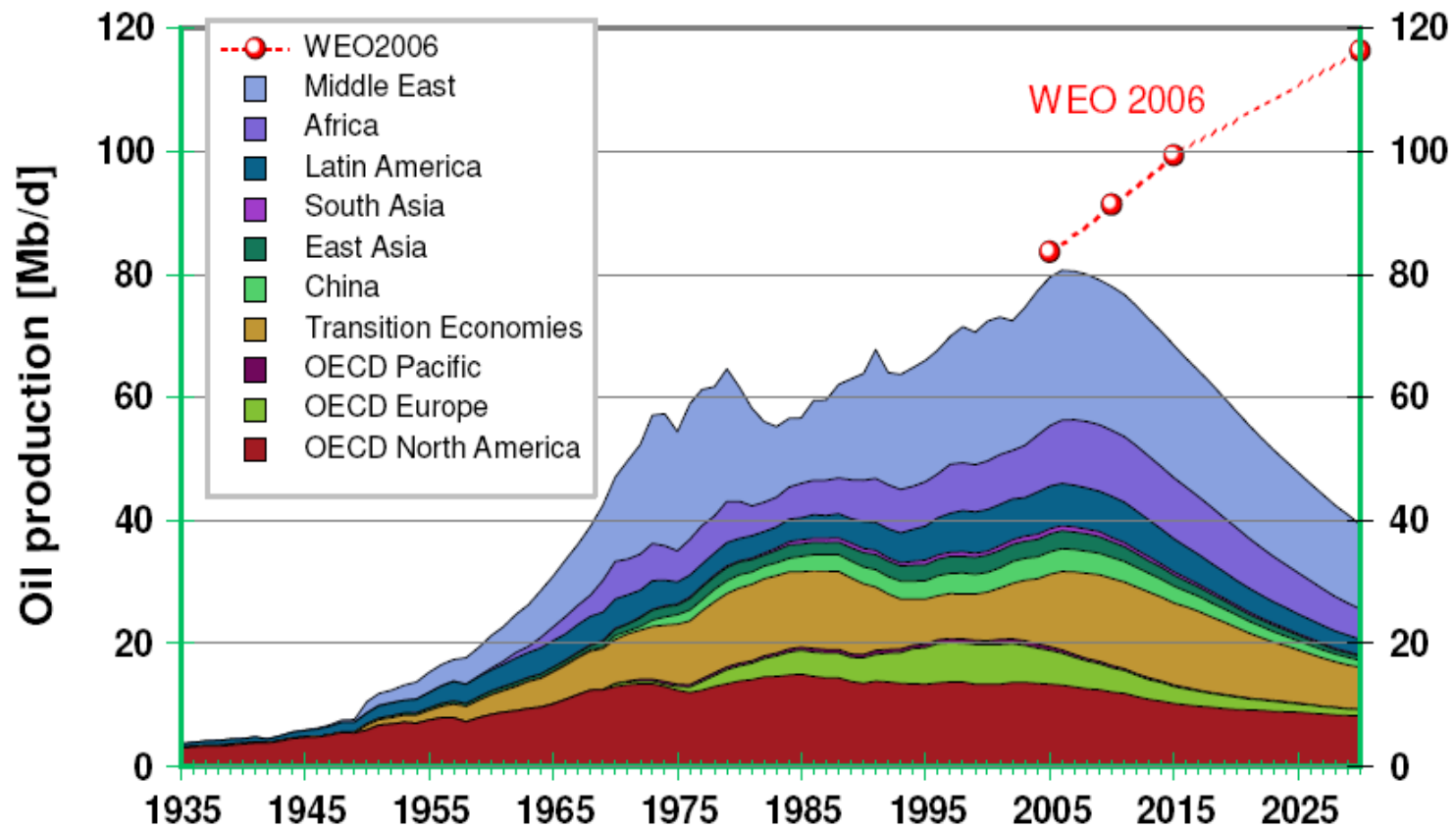
- > Increasing energy efficiency is less expensive than new generation*
- > Renewable energy is less expensive than fossil fuels*
- > These result in large savings:*
  - > \$1.5 billion/year by 2030*
  - > \$3000/yr for every person*

# Future electricity costs

Figure 8-5. Costs of electricity generation in California in 2007<sup>9</sup>, 2020<sup>10</sup> and 2030<sup>11</sup> (cents per kWh).

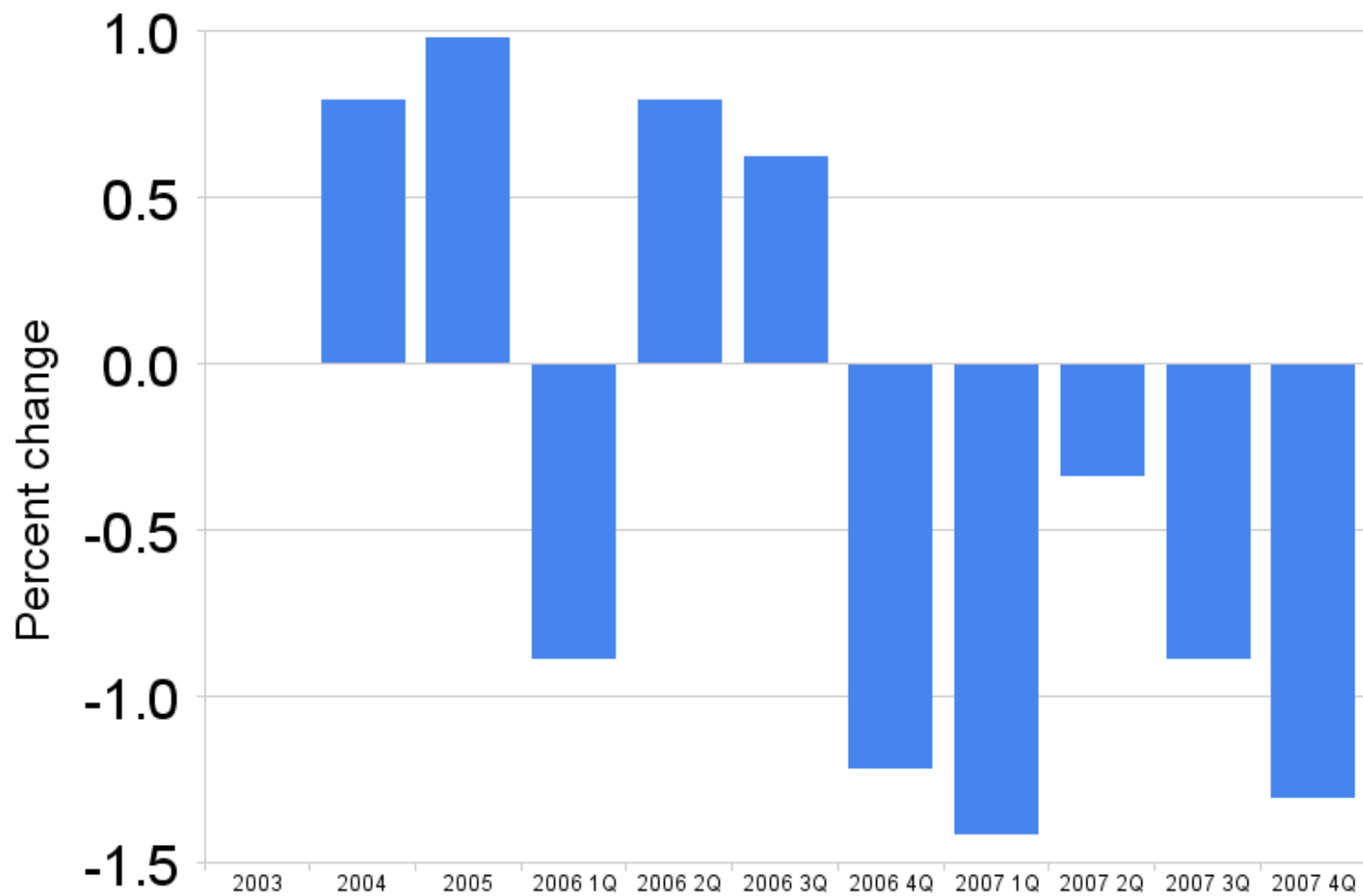
Technology	Cost in 2007	Cost in 2020 <sup>12</sup>	Cost in 2030 <sup>13</sup>
Biomass (landfill gas)	4.4	4.4	4.4
Geothermal	6.6	5.5	4.5
Wind (class 5)	6.6	6	6
Advanced nuclear	7.4	9.3	11.4
Baseload natural gas (combined cycle)	9.4	13.22	17.66
Coal w/ gasification	9.6	10.9	12.1

# Are we at or near peak oil?



Energy Watch Group (Germany, 2007)

# Global oil supply and demand



Source: EIA

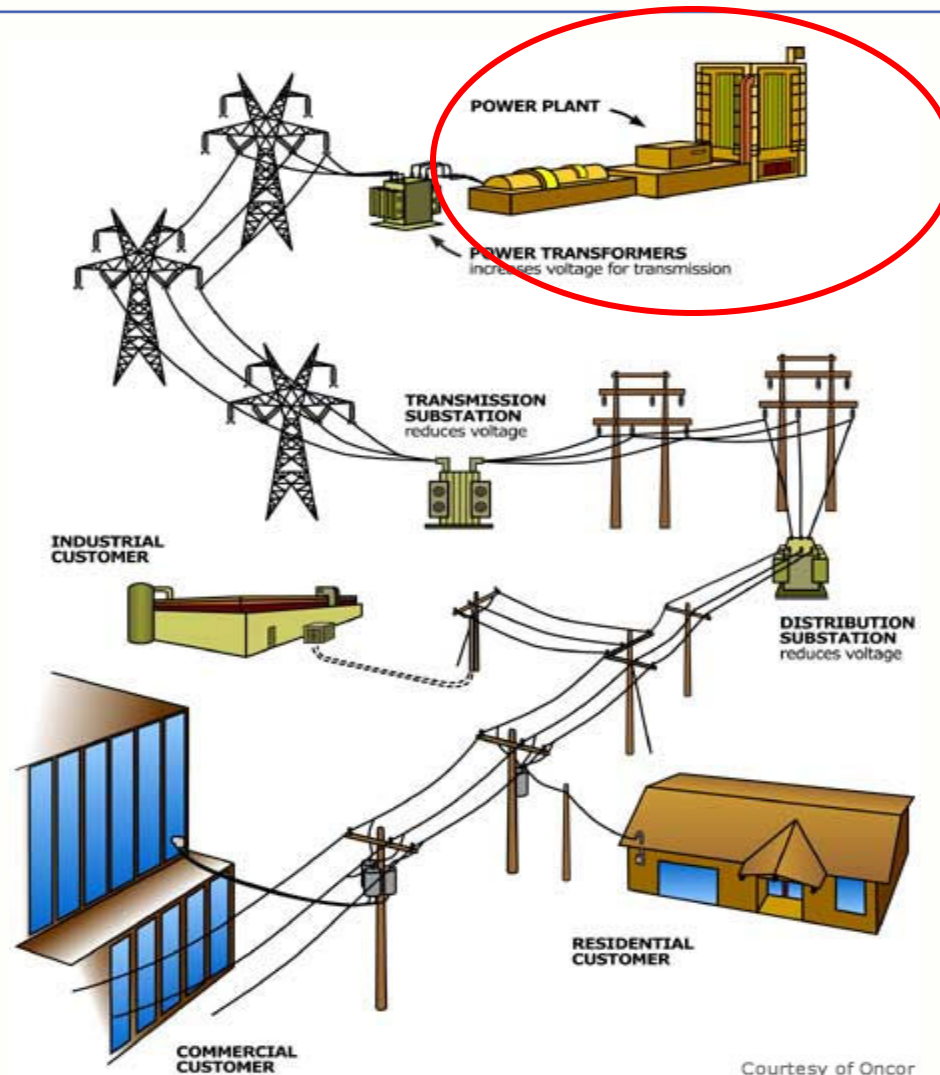
# Community Choice

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- > Community Choice gives local governments and residents choices



# Community Choice $\neq$ Utility

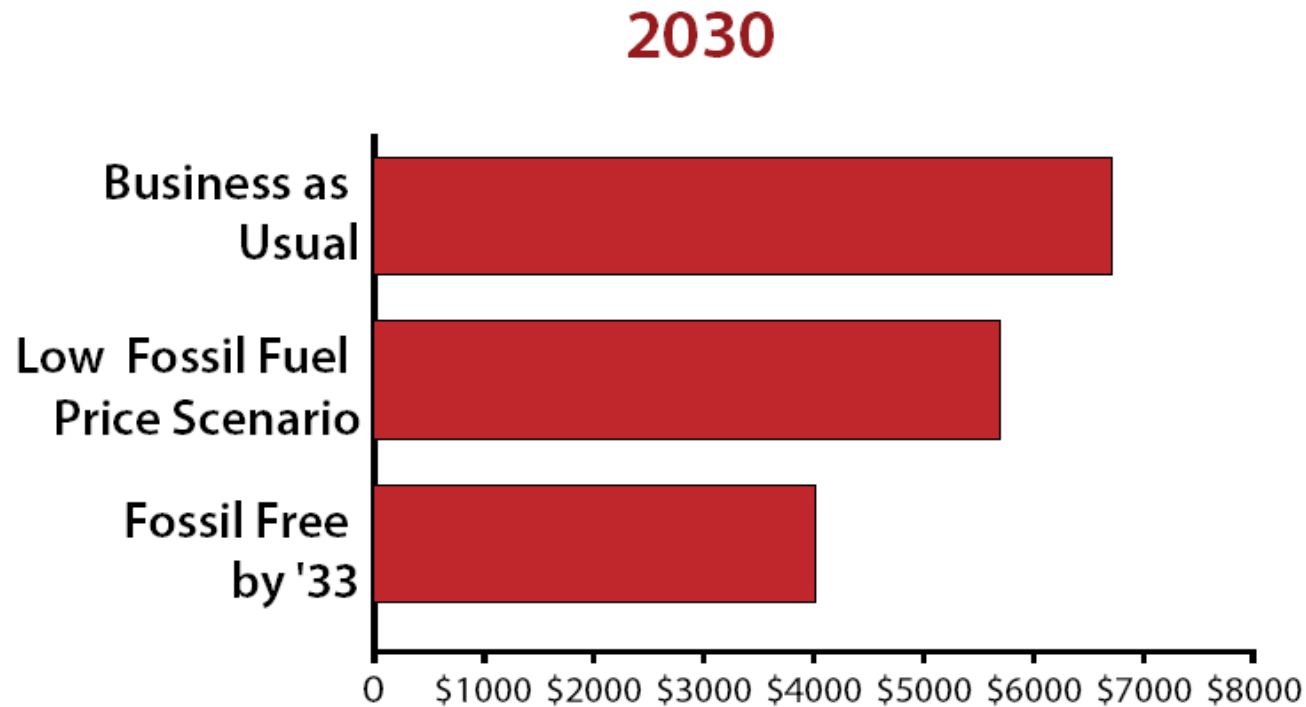


Courtesy of Oncor



# The Plan Saves Money

- *Annual per capita costs in 2007 dollars.*

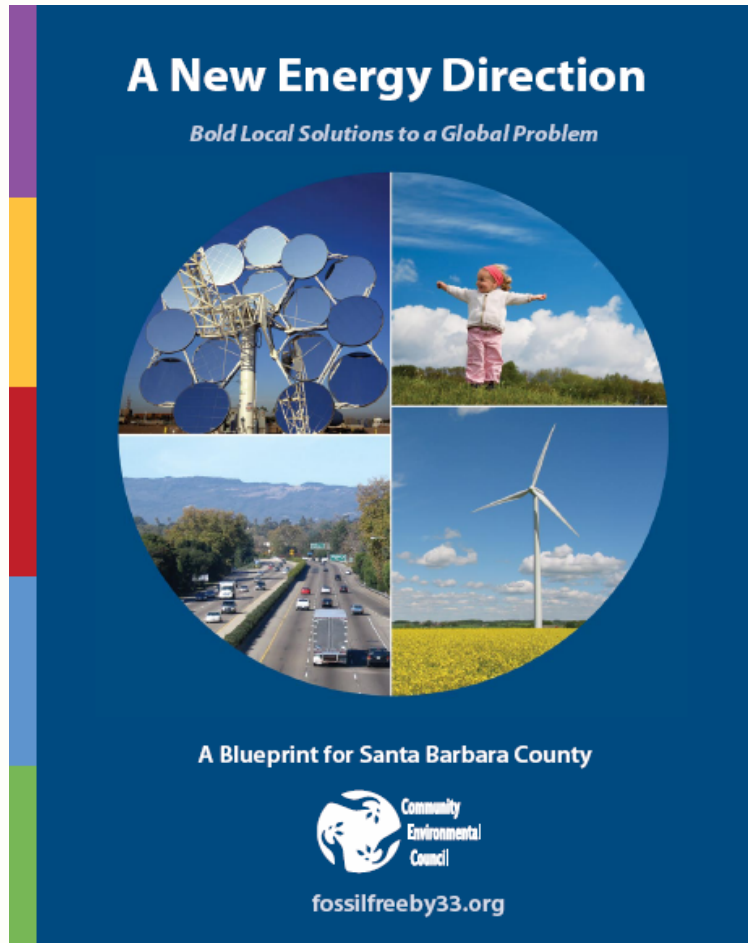


## What We Are Asking For Today

1. Support staff in examining a county oil extraction tax
2. Revive the Economic Vitality Committee
3. Support staff in requiring LEED Silver or better for all new County buildings
4. Sign a letter of interest for a feasibility study of Community Choice Aggregation
5. Study the feasibility of carbon neutrality by 2020 for County operations, with a report due back to the Board by September



# Tri-Counties Energy Summit



- > Many regions are planning for peak oil:
  - Burlington, Vermont
  - Connecticut Legislature
  - San Francisco
  - Portland
- > CEC will host a Tri-County Energy Summit on May 29th



COMMUNITY ENVIRONMENTAL COUNCIL

**Thank you!**

*We appreciate your support.*

*[www.fossilfreeby33.org](http://www.fossilfreeby33.org)*