

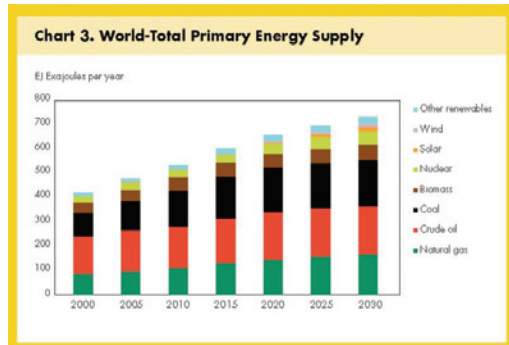
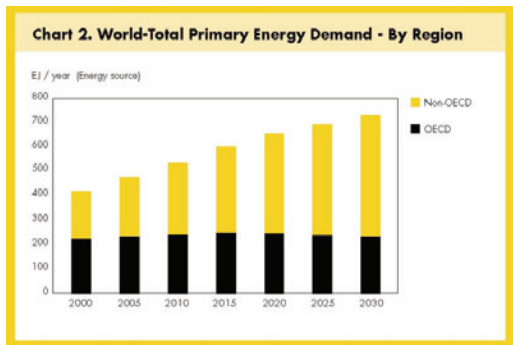
## ENERGY SUPPLY VS. DEMAND

NAME \_\_\_\_\_

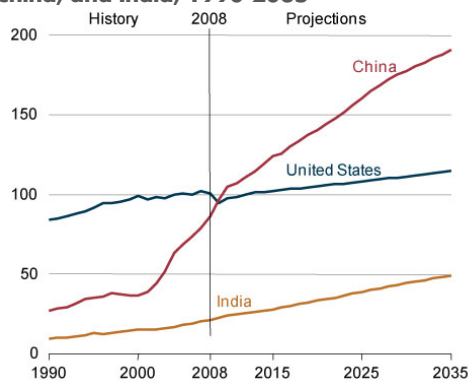


### Part 1: GLOBAL SUPPLY AND DEMAND

Analyze the charts below. Then answer the questions that follow.

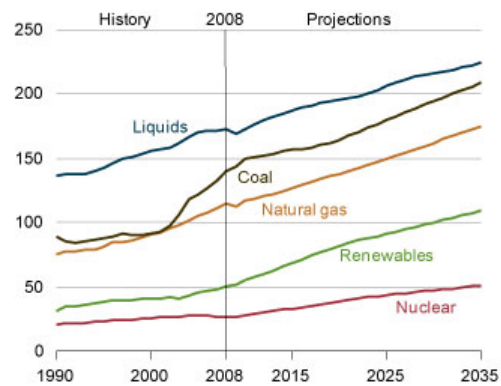


### Energy consumption in the United States, China, and India, 1990-2035



Source: <http://www.eia.gov/forecasts/ieo/world.cfm>

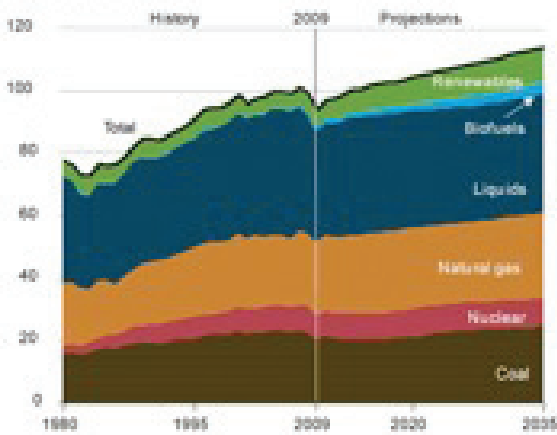
### World energy consumption by fuel, 1990-2035



Source: <http://www.eia.gov/forecasts/ieo/world.cfm>

(cont.)

Figure 57. Primary energy use by fuel, 1960-2035 (quadrillion Btu)



Source: U.S. Energy Information Administration, Annual Energy Outlook 2011, April 26, 2011.

1. How much is the world population projected to increase from 1950 to 2050? How will this increase impact energy supply and demand? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
2. Which country uses the most energy? Which countries are just starting their journey on the energy ladder? How will these countries' growth impact energy supply and demand? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
3. Is energy demand increasing or decreasing? How will this impact energy supply? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
4. How are energy sources/supply projected to change from 2000 to 2030? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
5. What conclusions can you draw about projected global demand for energy? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
6. What conclusions can you draw about projected global supply of energy? \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

(cont.)

**Part 2: WHICH ROAD SHOULD WE TAKE?**

Create a list of several ideas for how we can meet growing global energy demand while remaining environmentally and economically responsible. Consider new sources of energy, energy mixes, and technologies and processes to increase efficiency. Remember there is no perfect solution! Once you have brainstormed several options, select one of your ideas to research further and respond to the phrases below:

One solution to help meet growing energy demand is: \_\_\_\_\_

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Describe the solution: \_\_\_\_\_

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We think this could help meet energy demand because: \_\_\_\_\_

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Benefits of the solution: \_\_\_\_\_

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Trade-offs of the solution: \_\_\_\_\_

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After researching this solution, we would/would not recommend that we invest in this solution because:

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