

Energy Analysis- Determining Meaning Behind the Numbers

After reviewing the Energy Analysis Graph and Charts form small groups of 3 people and analyze and discuss the questions below. The class will then come together as a whole so be ready to explain your answers, reasons and thoughts to the entire class.

1. How has per capita consumption of energy changed in the last 60 years?
2. How has the Energy Production By Source changed from 1950 to 2010?
3. Looking at the U.S. Coal Flow, 2010 chart, what consumes the most coal?
4. Looking at the U.S. Natural Gas Flow, 2010 chart, what consumes the most natural gas?
5. Looking at the U.S. Petroleum Flow, 2010 chart, what consumes the most petroleum?
6. Look at the Fossil Fuel Consumption and Carbon Dioxide Level charts. Explain why you think these two charts have a similar curve.
7. Look at the Global Average Temperature chart. Explain why you think there are drops within the overall raise of the curve.
8. Looking at the Number of Vehicles chart, why do think the line increased from 1950 to 1970 yet has stayed relatively stable from 1990 to 2009?
9. Looking at the Motor Vehicle Mileage chart what can you infer from looking at the mileage of the tree different vehicle types?
10. Looking at the two Municipal Solid Waste Generation and Recycling charts what information can you infer from them?
11. Looking at the Waste Generated by Weight, 2010 chart, why do think some materials are shown higher than others?
12. Looking at the Percentage of Waste Recovered (Recycled) By Weight, 2010 chart, why do you think some materials have a greater recycling percentage than others?