Energy questions: fossil fuels

Energy questions 2.16.24

Bozeman Science:

Energy consumption:

http://www.bozemanscience.com/ap-es-023-energy-consumption

Fossil Fuel resources:

http://www.bozemanscience.com/ap-es-024-fossil-fuel-resources

Read chapter W19 here:

https://elab.hpa.edu/apes/texts/Withgott7e%20v.2%20ocr/ch19ocr.pdf

Or here:

http://physics.hpa.edu/physics/apenvsci/texts/withgott/Withgott7e%20v.2%20ocr/ch19ocr.pdf

Questions:

1. How many kcal in a pizza?
2. How many pizzas do we use each day?
3. What was the first energy crisis?
4. What solved it?
5. Is this renewable?
6. What is the EROI?
7. What happened in 1973 and 1979?
8. Why did the price of oil drop again in 1980? (look this up)
9. What is driving the use of renewable energy sources?
10. Why are fossil fuels only formed by anaerobic decomposition? What would happen if they decomposed in air?
11. Trace the formation steps of vegetation to coal
12. What is the difference between anthracite and lignite?
13. Why is methane called “the green fossil fuel”?
14. Why is fracking bad?
15. Look up the greenhouse impact of making cement and explain.
16. Why could you say Uranium is the only non-solar fuel?

17. How is radiant solar energy different from fossil fuels?
18. What form of energy is not solar or from a supernova?
19. Why is natural gas a “bridge energy source” for renewables?
20. Why do we still use steam technology today?
21. What caused the 1952 London fog disaster and the Donora disaster?
22. How are satellites used to find Uranium and natural gas?
23. Why do we pay more for gasoline in Hawaii than most other places?
24. What are the common parts of any thermal-electrical power plant?
25. Going forward, what ideas do you have to create a renewable energy future?
26.

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