Chapter 16 – Energy Efficiency and Renewable Energy Resources

Polar Bear Book

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On a sheet of notebook paper define the following:

1. Energy efficiency
2. Life cycle cost
3. Cogeneration
4. Passive solar heating system
5. Active solar heating system
6. Photovoltaic cells
7. Solar cells
8. Biofuels
9. Geothermal energy
10. Micropower systems

On the same paper answer the following question:

11. Why is reducing energy waste so important? (8 reasons)

12. How can we save energy in industry?

13. How can we save energy in producing electricity?

14. How can we save energy in transportation?

15. What are the advantages of solar energy?

16. How can solar energy be used to heat houses and water?

17. What is hydroelectric power?

18. Read the “Ecocars” article on page 403. Answer the Critical Thinking

at the end.

19. Read the “Building a Strawbale Home” article on page 407. Answer the

Critical Thinking questions at the end.

20. Read the “A New Car Fuel That is Mostly Water” article on page 423.

Answer the Critical Thinking questions at the end.