

Energy and Recycling

PURPOSE

- Compare energy costs of recycling aluminum tin cans for making new food can materials.
- Investigate economic benefits and drawbacks of recycling, such as environmental and economic factors.

BACKGROUND

The county government in one-pasture used to initiate an aluminum recycling program. Most of the aluminum is in the form of beverage cans. In the first year, the county collected 1.4×10^7 kg of cans. It takes about 60 million electron volts (eV) to make a kilogram.

All communities in the county have made with packing-refracted materials. On average, each truck makes a 12-km round-trip up 1,000 kg of aluminum and give 1 km/h. find economy. Each liter of fuel produces 42,000 J of energy.

EXERCISES

Show all your work.

1. How many cans did the county collect in the first year?
2. To the nearest order of magnitude, how many trips were made to collect all the cans?
3. Calculate the energy costs of fuel for the trucks used to pick up the cans.
4. How many kilograms (kg) of energy were consumed collecting the cans?
5. Making new food recycled aluminum requires about 100 kJ of energy per can. Calculate the total energy needed to make new food recycled aluminum, including the energy used to collect them.
6. What 1,000 kJ of energy to make one aluminum can from bauxite ore. Assuming no other energy is used, calculate how much energy is needed to make the can from bauxite ore.
7. Calculate the energy difference between the two methods. How many liters of fuel are saved by recycling the cans?

PROBLEMS

Apparently, there is a considerable energy savings in using recycled aluminum to make new cans. The aluminum needs to be recycled, not that simple. There are many other factors to take into account.

1. Describe two environmental and two economic problems associated with the recycling of aluminum.
 - There are many materials that lend themselves to recycling. Some of these do not have the clear-cut energy-to-use advantage of recycling aluminum. Take glass for example. To make glass from raw materials requires a little over 10,000 kJ/kg of glass manufactured. To make glass from recycled materials takes about 30,000 kJ/kg of glass produced. If the cost of collecting the recycled glass is factored in, the energy savings are more than offset.
2. Compare environmental and two economic costs to manufacturers glass from recycled materials, even if the cost is higher than from using raw materials.
3. Paper or plastic? Since the 1970s grocery shoppers have had that choice. Many consumers, without paper, seriously thinking that it is made of natural resources, environmentally friendly materials. The polystyrene plastic bags eventually from nonrenewable made oil. At times, the choice is not as clear cut as it seems.
 - a. Compare the environmental, use, and non-potential of paper versus plastic grocery bags. Investigate the environmental of each for air pollution, water pollution, solid waste, energy use, land use, and cost.
 - b. Give factors to consider: landfill volume, water pollution energy use land use cost of recycling, biodegradability.
 - c. Explain your alternative to paper or plastic grocery bags.

Investigation 8 Energy And Recycling Answers

Lei Shi



Investigation 8 Energy And Recycling Answers:

Unveiling the Magic of Words: A Review of "**Investigation 8 Energy And Recycling Answers**"

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