

Many people are unaware of how much power is used in their homes on a daily basis and how much this usage costs. In this activity, you will analyze your total household energy consumption on a given day. According to the rate charged by your power company per kilowatt-hour (kWh), you will also determine the cost of this energy consumption.

For an estimate of the amount of energy your household uses, visit:
<https://c03.apogee.net/mvc/home/hes/profile?utilityname=gapower>

Procedure:

To calculate your home energy consumption, complete the chart below with information about the electrical appliances that are used in your home. Research power ratings and estimate the amount of time each appliance runs. Your chart should include everything that requires electricity, such as wall outlets, lights, ceiling fans, heating and air, and kitchen appliances.

rate your household pays per kWh: _____

Appliance	Power Rating (W)	Time per Day (hr)	Energy Used (kWh)	Cost (\$)

Questions to consider:

1. Which appliance has the greatest power rating? Does this surprise you?

2. Which appliances are used the greatest amount of time each day?

3. Which appliances use the most electrical energy each day?

4. Compare and contrast your answers to questions one and three and discuss different ways to use energy, such as power versus time.

5. What is the total cost of the electrical energy used in your home in one day? How much will it cost for 30 days of electricity?

6. List three ways to decrease the energy usage in your home.
