

## What's the cost of 1 kwh of food energy...at Goshen College?

Let's say that you're paying for the standard meal plan at Goshen College. What are you paying for 1 kwh of food energy?

Our website says that the cost of board is \$3750 **for each** academic year. Is an academic year 365 days? Use any conversion factors you and your partner can agree on, for example the number of weeks **in each** academic year, and the number of days in each week, or the number of months **for each** academic year and the (average) number of days in each month, in order to estimate the cost of board for each day:

Now use the USDA "cereal panel" figure of a typical diet being 2000 Calories (food Calories) for each day to figure out how much you pay for each Calorie ("Dollars **for each** Calorie").

Now figure out your cost per kWh (dollars for each kWh). There are 860 Calories in each 1 kWh. How do you convert from "Dollars for each calorie" to "Dollars for each kWh"?