

SCIE300 Reading Assignment 1 (RA1)

75 points

Question 1 (15 points)

Choose one of the charts or graphs in Chapter 1 that you found surprising or interesting. Write about 100 words explaining the content of your chosen chart or graph and why you find it surprising or interesting.

Question 2 (5 points)

Explain in your own words the meaning of the unit “CO₂e per year per person.”

Question 3 (10 points)

Explain in your own words the difference between *energy* and *power*, as defined in this book. What units are used to measure these concepts in this book?

Question 4 (10 points)

Approximately how many kWh per passenger were consumed by the flight you used to arrive in the UK? Explain your reasoning.

Question 5 (10 points)

According to the data provided in this book, list a few locations in the US that have high potential for solar power.

Question 6 (10 points)

Which would have a bigger impact on energy consumption: eliminating all street lighting, or reducing car use by 1%?

Question 7 (5 points)

How much energy would you save by unplugging your phone charger whenever it is not in use?

Question 8 (10 points)

Using calculations similar to those in Chapter 13, calculate the energy cost of producing 250 g of butter. How does this compare to the energy content of butter, as described in Chapter 3?