

NAME:



12.8 Case Study – Examining Electrical Energy Production

In a neat and organized fashion, please complete the case study on pages 536 – 537. A period of class time will be given to you to complete the task; however, you may need to complete some at home as well. I will be available for assistance at lunch as well.

How to answer: Short Closed Answer vs. Open response

1. A short closed answer question most often requires 1 or 2 sentences to answer. There is not usually an explanation required. (not ‘open’ to interpretation or opinion – there is a right answer I’m looking for) Example: **(a) Which provinces use mainly hydro-electric power to produced electrical energy?**
You just need (in a sentence!) to list the correct provinces. You should put ‘Q in A’ and start the answer using the question. “The provinces that use mainly hydro-electric power are....”
2. Open Response question require an opinion or an explanation.
Example: **(f) What was the trend for coal electrical energy production from 1995 to 2001? What was the trend after 2001? Suggest reasons for this.** You should put ‘Q in A’ here too but also give fact(s)/detail(s) and explain how these fact(s)/detail(s) support your answer.

Interpreting graph/chart

Answer a)→ e)	Knowledge & Understanding	/5
Answers all correctly. E2.8 – graph and interpret energy consumption.		

What is a GW·h? →

Plot a graph accurately & analyze results - plot all 3 fossil fuels separately as bar graphs AND plot the total amount of green house gases on same graph as a line graph. Guidelines will be given in class.

Graph (I) Answer (m - first part only) and (o)	Inquiry	/5
A1.11, A 1.12 - communicate results graphically E2.8 – graph & interpret energy consumption		

What is kt? → kilo = 10^3 or 1000. 't' = metric tonne So 1 kt = 1000 metric tonnes.

Apply knowledge of electricity generation

Answer (g) (j) (k)	Application	/5
<p>Answers all correctly.</p> <p>A1.10 – draw conclusions based on results</p> <p>E1.1 – assess impacts of energy generation.</p>		

