Homework Six

Physics and Math of Sustainable Energy

College of the Atlantic

Due Friday, October 20, 2023

There are two parts to this assignment.

Part 1: WeBWorK. Do Homework 06 which you will find the WeBWorK page here: `https://webwork-hosting.runestone.academy/webwork2/coa-feldman-es1056i-fall2023` I recommend doing the WeBWorK part of the homework first. This will enable you to benefit WeBWorK's instant feedback before you do part two.

Part 2: Problems from the Textbook. Here are some instructions for how to submit this part of the assignment.

- Do the problems by hand using pencil (or pen) and paper. There is no need to type this assignment.
- If you like working on a tablet, go for it.
- Make a pdf scan of your work using genius scan or some similar scanning app. Please make the homework into a single pdf, not multiple pdfs.
- Submit the assignment on google classroom. Please don't email it to me. (Between my two classes I will be receiving around 60 assignments a week. Keeping track of them all in email is challenging.)

The problems you should do are from **Chapters 12 and 19** of the book:

Chapter 12

1. 12.4 (Optional: problem about woodstoves. Recommended, but not required.)
2. 12.5–8 (These problems are a mini case study using Cottage.)

Chapter 19

1. 19.2 (BTW, in the last year the panels have produced around 129,000 kWh. Pretty close to what was predicted.)
2. 19.3
3. 19.4 (Scientific notation is your friend.)
4. 19.5

Information about how to access the book is on the pinned post on google classroom.