

Some things you should know for our Energy Class:

The approximate size, population, and energy consumption of your planet, country, and state. The amount of electricity consumed in USA and how it's generated.

The prefixes from micro to Tera. I won't put these on your exam as I have done in the past, but you can put them on your formula sheet if you can't remember them. You are allowed a formula sheet with up to 50 facts.

Some easy to remember facts are that the USA consumes about 1/5 of the energy of the entire planet. The USA consumes about 10^{20} J of primary energy a year: about a third is for electricity, about a third for transportation (petroleum), about a third for industrial processes and building things.

You should know efficiencies, carbon intensities, and energy densities. However, these are the more technical facts and I don't want the focus of the class to be on the numbers and equations. The majority of the exams will be qualitative concerns about these technologies and how society responds. This information comes from videos, class discussions, and reflective homework assignments.

HEY! In the last video, I had a question that asked if the amount of coal we were using had changed. I had the wrong answer. YES, we are reducing our coal consumption (by 10% in the past few years) and it is being replaced mostly by increased NG use.

DH's Questions are going to be limited to two categories:

- 1) Houses: Heating issues including solar exposure and insulation concerns.
- 2) Nuclear: Passively safe reactors.