

PHY 405 - Energy & Sustainability  
Fall 2021

**Assigned:** October 18

**Due:** November 5

**Problem Set #4**

**Chapter 37 Questions:** 37.5

**Chapter 37 Problems:** 37.1, 37.2, 37.4, 37.9, 37.15

**Chapter 38 Questions:** 38.2

**Chapter 38 Problems:** 38.1, 38.6, 38.10, 38.15, 38.17

**Chapter 33 Questions:** 33.1, 33.4

**Chapter 33 Problems:** 33.1, 33.2, 33.4, 33.6, 33.7, 33.11

**Critical Analysis #2: Nuclear Energy**

Before you begin this assignment, answer the following question.

1. What is your understanding of and perspective/stance on nuclear energy generally? Define both positive (if any) and negative aspects of this technology, as you see it.

After answering this first question, watch each of these videos and then answer the final questions.

<https://www.youtube.com/watch?v=6lbjxk1Lexs>

<https://www.youtube.com/watch?v=poPLSgbSO6k>

<https://www.youtube.com/watch?v=kybenSq0KPo>

[https://www.youtube.com/watch?v=uU3kLBo\\_ruo](https://www.youtube.com/watch?v=uU3kLBo_ruo)

2. Research each of the producers or main proponents in the videos you watched. Which ones seem to provide neutral analyses/perspectives and which ones seem to have a political agenda? On what criteria are you basing this?

3. Did you change your mind on nuclear energy, either generally or on a particular aspect? If so, which piece of evidence or video was most compelling and why? If you did not change your mind, comment on what new information you learned and discuss why that is not important to changing your opinion.

4. Would you support a new-generation nuclear power plant near your home town? How do you see nuclear energy fitting into the future of US infrastructure?