

EECE325 Fundamentals of Energy Systems  
Spring 2023  
Dr. Charles Kim

### Technical Essay Assignment (100 points)

#### **A. Assignment**

**Before you start** to write this technical essay, you're required to study a lecture on "How to write technical essay well" which is available through a link provided in the web page, next to this assignment.

Write a technical essay on "What are two major carbon capture technologies, and what are their advantages and disadvantages? Is carbon capture more effective than carbon taxation for the environment? What do you think?" which answers the following 4 questions:

1. What are two major carbon capture methods?
2. What are advantages and disadvantages of each method?
3. How does carbon taxation work?
4. In comparing carbon capture and carbon taxation, why do you think one is more effective than the other in reducing carbon emission? (1<sup>st</sup> person)

#### **B. Score Distribution and Scoring Rubric:**

1. The first paragraph must answer the above questions concisely.
2. The main body must expand the answers with depth and breadth.
3. The main body must be at least 3 times longer (in word count) than the first paragraph.
4. Refer to the scoring rubric taught in the lecture on "How to write technical essay well"

**C. Submission:** Work on word processing software, and send me an electronic copy (file) of your work via email or Slack. Name your file as follows: **Carbon\_LastName.xxx** (xxx for file type, docx, txt, but **no** pdf).

**D. Submission due:** 8:00pm Wednesday April 5, 2023

**E. Submission:** 10% deduction each day of lateness.