

Name: \_\_\_\_\_

CEE 3609 – Advanced Topics: Life Cycle Assessment

**DUE April 15, 2020**

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**Read the articles:** Makov and Vivanco (2018), Castellani et al. (2015), and Niero and Kalbar (2019) - attached to this module.

1. Makov and Vivanco (2018) discussed the rebound effects associated with the circular economy and how reuse may not always be an environmentally preferable choice. Comment on the authors' methodology and conclusions, considering environmental, economic, and social aspects of reuse. Can you think of examples of potential rebound effects other than smartphones?
2. Castellani et al. (2015) and Niero and Kalbar (2019) used different methodologies to assess the environmental benefits of reuse through Life Cycle Assessment. They have also tried to address the possible rebound effect in different ways. Compare their methodology and conclusions. What do you think were the strengths and weaknesses of their methods?