

HON 350 RP Proposal Draft

1. Review the prompt for RP
2. Answer the following prompts

Prompt

For this research assignment, you will conduct interdisciplinary research into environmental literature. You are welcome to select from the following options or collaborate with me on a different option. Your final product will consist of either a research poster or a presentation.

- 1) identify one solution to one pressing environmental problem and use a quote from an eco-literature text as your project's epigraph
- 2) analyze the influence of one piece of eco-literature
- 3) conduct a viability analysis on an existing solution to a pressing environmental problem and use a quote from an eco-literature text as your project's epigraph

Mitigation of the Environmental Impacts of Lithium Extraction and Lithium Battery Manufacturing

Presentation Description/Abstract

Presentation Description/Abstract (**up to 250 words**)

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Lithium extraction and the production methods utilized for lithium-ion batteries can have a large impact on the areas directly surrounding them, and if not mitigated properly, the rest of the world as well. For these batteries to be produced, lithium must be mined and refined from sources all around the world. The main concern of lithium mines is their impact on the water cycle and the surrounding water tables due to the heavy metals involved in the process and the sheer amount of water required. Production of the batteries themselves using the lithium slurry is far less impactful on the environment, however, the process does require power and ensuring that the power used comes from renewable and sustainable sources is paramount. Mitigation techniques should be implemented within both aspects of lithium-ion battery production to ensure that the benefits of this technology are not outweighed by the detriments.

Keywords (5-10 keywords)

Keywords should be separated by commas

Enter Keywords:

Disciplines

Please indicate the academic discipline(s) that best describes your submission. Click [here](#) to view the complete list of disciplines.

Available:

- Architecture
- Arts and Humanities
- Business
- Education
- Engineering
- Law
- Life Sciences
- Medicine and Health Sciences
- Physical Sciences and Mathematics
- Social and Behavioral Sciences