

Team Name: sdmay24-30

Team Members: Dana Boor, Mason Richards, Jeremy Yost, Zach Hainline, Muhammad Syukri, Damien Henry

Report Period: Oct 23-Nov 5

### **Summary of Progress in this Period**

This period, our team worked on developing the testing methods that we will be using to evaluate our recommended nuclear power plant designs. The methods we discussed and developed are 1) using co-optimized expansion planning software to show nuclear power plant interactions with the rest of the grid, and 2) applying a benefit-to-cost ratio to analyze the economic viability of our designs.

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### **Pending Issues**

Our team still needs to become familiar with the CEP software and practice using it. Also, we need to determine the extent that the CEP software can assist us in performing the benefit to cost ratio analysis on each design.

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### **Plans for Upcoming Reporting Period**

This reporting period, our team intends on performing the following:

- Using the CEP software with the guidance of our faculty advisor to gain familiarity and identify the capabilities/limitations of the tool.
  - Completing our team website (team member biographies, photos, and project summary).
  - Preparing and conducting a presentation about the status of our project to a faculty panel (week of December 4<sup>th</sup>).
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