

Team Name: sddec21-10

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Report number: 3

Report Period: Start: 3/01/2021

End: 3/14/2021

Summary of Progress in this Period

We met with Chris Ruckman and two of his coworkers (engineers at Burns and McDonnell) twice for our scheduled weekly meetings. In the meeting on March 3rd, we decided that the Battery Energy Storage System (BESS) would be best placed on Central Campus at Iowa State University (ISU), just north of the Campanile. Chris Ruckman's coworkers discussed the types and sizes of batteries we would be using. We then worked on the layout and sizing of the BESS. We discussed the components of the BESS and their layout, including the battery banks and the inverters.

In the meeting on March 10th we used the design of the BESS created in AutoCAD by one of our group members to determine a more accurate/efficient layout. We again worked with two of Chris Ruckman's coworkers, and they provided assistance in the revision of our BESS layout. We also discussed safety and maintenance, and revised the design accordingly. Additionally, we discussed how the BESS could be connected to the power grid at ISU, including converting the energy into a usable format.

Pending Issues

We emailed our project faculty advisor, and he emailed us back, giving several times that he would be available. However, we couldn't meet with him because most of our team was not available. We decided to determine a future time to meet based on team members availability.

Plans for Upcoming Reporting Period

- March 17th- BESS Layout
 - March 24th - Working Session - Sizing/Layout/SLD
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