

Team Name: sdmay24-18

Team Members: Eli Schaffer, Baylor Clark, Eduardo Jimenez-Tzompaxtle, Chicheng Tang, Liam Gossman, Siti Mohd Radzi

Report Period: Sep 11- Oct 8

Summary of Progress in this Period

The team showed presentations to the client, which involved a PV Cell, combiner box, and inverter skid data sheets.

Set up the Array tool to determine how much space will be needed to produce the required power.

Compared and contrasted the locations of Iowa and New Mexico, and the group decided to place the project in New Mexico.

Looked into which type of output for the project would be best suited and decided to have a combiner box, inverter, and then transformer for the output compared to using string inverters, AC combiner box, and then transformer.

Calculated the initial cost of solar panels, combiner boxes, land, and cables.

Students have signed the NDA.

Determined a rotation for meeting minutes and safety moments.

Determined initial equipment to use in design work.

Pending Issues

Title blocks, Understand ETAP & ACAD for all people in the group.

Try to start on voltage drop calculations.

Send over IP and other agreements to the advisor and client and costs to the client.

High level understanding of what goes into designing and constructing a substation.

BESS research and design.

Plans for Upcoming Reporting Period

Understanding ETAP and AutoCAD software.

Design solar array and solar field layout.

AutoCAD design and layout.

Voltage drop calculations.

Finalizing equipment and doing power calculations.
