

Group number: 1706

Project title: Renewable Energies Lab

Client &/Advisor: Prof. Ajarapu

Team Members/Role:

Leader: Travis Merrifield

Webmaster: Erika Korhonen

Communications: Noah Chartouni

Idea Holder: Josh Pahl & Steve Ukpan

- **Weekly Summary**

This week we worked on our presentation over several topics. We presented the material during our weekly meeting.

- **Past week accomplishments**

- **Elika:** Studied PV literature for understanding and presentation
- **Josh:** Read about how buck choppers, boosters, inverters, and rectifiers work. As well as how they relate to the Solar project. Also read some about MPPT and the circuit model of a solar panel.
- **Noah:** On vacation.
- **Travis:** Researched battery theory, specifically lead acid batteries. looked at various ways to model the battery, pro's and con's.
- **Steve:** Read documents on MPPT created powerpoint about MPPT

- **Pending issues**

- **Elika:** Finalizing powerpoint and create Simulink model next week
- **Josh:** Powerpoint from presentation needs to be combined.
- **Noah:** Worked on...
- **Travis:** Powerpoint finalization.
- **Steve:** Finalizing powerpoint

- **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Elika	4	1	5
Josh	5	1	6
Noah			
Travis	5	1	6
Steve	3	1	4

- **Comments and extended discussion**

We all need to meet on Thursday and establish a game plan and simulate the solar circuit system to enhance our learning. This is a deliverable for next Monday at 5:30. Also we need reserve a room for next week

- **Plan for coming week (please describe as what, who, when)**

- Elika: We will design a Simulink model as a team on thurs
- Josh: Help develop the circuit model and simulation in simulink. Will do further readings on the topics that the other members covered.
- Noah:
- Travis: Work on simulink model create powerpoint slides.
- Steve: Brainstorming ideas we can implement into the Simulink portion of the project. Understand models/circuits of other topics

- **Summary of weekly advisor meeting (if applicable/optional)**

Gave presentation to advisor. Found areas so strength and weakness in knowledge. Next week we will clear up areas of confusion with the MPPT and start a model of DC to AC conversion.