

EE/CprE/SE 491 - sddec19-06

Design and Implementation of a Small Scale Stand Alone Hybrid Solar PV and Wind Energy Generation

WEEKLY REPORT - 8

4/13/19 – 4/19/19

Client and Faculty Advisor: Dr. Venkataramana Ajjarapu

Team Members:

Hussein Ghitan - Meeting Scribe

Blaise Ronspies - Test Engineer

Adam Schroeder - Chief Engineer

Anna Schulte - Meeting Facilitator

Weekly Summary:

The team spent a lot of time working to identify the problem with the system. We got the power circuit working but were unable to get the data circuit connected and working. Our team was also able to begin comparing values from the software with values measure from the resistor box acting as a load.

Past Week Accomplishments:

Through testing the system we found that there was a short that prevented the system from functioning. We fixed that problem, but the displays are not yet functional and testing is being carried out.. We were able to have the DC output and power up some resistors. The DC output measurements have matched with the results of the simulation so far.

Pending Issues:

Short circuit caused some problems to the multimeter display, We might need a new display circuit in the future but that would not affect our design function at the moment.

Individual Contributions:

Team Member	Contribution	Weekly Hours	Total Hours
Hussein Ghitan	Debugged the short circuit with the team and tested the DC load to verify the measurements according to the provided and edited lab manual.	5	37
Blaise Ronspies	Found the short circuit with the team and worked on revised project plan	3	27
Adam Schroeder	Debugged short circuit in system and re wired it to have the DC load circuit work		30

	correctly wirh MPPT and direct solar.		
Anna Schulte	Debugged short circuit with the team and edited formatting of revised project plan		26

Plans for Coming Week:

We will implement more testing for lab use as well as improve documentation and safety.