Start Date 2/5/18 – End Date 2/11/2018

Group number: 19

Project Title: Design and Implementation of a small scale standalone Hybrid Sola

r PV and Wind Energy Generation System

Client & Advisor:
Venkataramana Ajjarapu
Team Members/Role:

Christopher Goodrich: Research Engineer

Taylor Mullen: Testing Engineer Kenny Nguyen: Testing Engineer Damon Stubbs: Research Engineer Andrew Wassenaar: Team Leader

Past Week Accomplishments:

- Talked to Client/Advisor about project
- Reviewed prior senior group project and final report to understand what they accomplished
- Advisor tasked each member to understand components of the prior group's project and to simulate it using Simulink
- Then each member would build their component and test it and verify the overall component with each other
- Advisor wants us to each play the role of team leader and a leader was chosen for the 1stcouple
 of weeks

Issues:

- Due to bad weather, the group could not meet with Client/Advisor this week, therefore a clear project plan could not be developed due to not being able to talk to the Client/Advisor
- Project plan and tasks the client wants to complete will change based on next week's group meeting
- Some components in the Simulink project designed from prior senior group would run for a moment and end up in an error. Need to address this with client/advisor to fully understand the overall prior groups project

Individual Contributions:

Name	Individual Contribution	Hours this	Cumulative
		Week	Hours
Christopher Goodrich	Researched how lead acid batteries work and al	4	8
	so reviewed the simulink models that we were		
	provided from last semester.		
Taylor Mullen	Research DC to AC converters and implement a	4	8
	simple design of the converter within Simulink.		
Kenny Nguyen	Learn about the load component of prior group'	6	10
	s project design, created template for weekly re		
	port. Created project plan and revise it.		
Damon Stubbs	Research Solar Panels. Investigated physics behi	4	8
	nd PV solar panels and tested various Simulink		
	models.		
Andrew Wassenaar	Research the DC Chopper and how it is used to	4	8
	alter a DC voltage. Learned how to model this e		
	lement in Simulink. Helped organize and delega		
	te jobs for the week		

Plans for coming Week:

- Meet with advisor to fully understand what he wants from the overall project
- Establish what each task the advisor wants us to accomplish first and move from there
- Design a project plan that meets the advisor's wants and needs
- Understand the Simulink model the prior group designed and understand how each component is used