

## EE 491 WEEKLY REPORT 11

Date: 11 Apr 2016

Group number:DEC1613

Project title: Investigating voltage increases in distributed generation power systems

Client &/Advisor: Mark Scheibe, Anne Kimber, Zhaoyu Wang

Team Members/Role: Adam Beck: Team Leader

Trevor Andersen: Communications Leader

Matthew Ladd: Webmaster

(All the above information should be there in each weekly report)

### ✓ Weekly Summary (Short summary about what you did this week)

This week, we worked getting familiar with our model and windmill software. We put distributed generation at various points on the model in order to see how it affected the whole so we could get a plan as to how to keep it stable. We also began researching our solutions in earnest, and working on our final presentation.

### ✓ Past week accomplishments (please describe as what was done, by whom, when)

- ❖ Previous week was spent working on our model and doing research

### ✓ Pending issues (if applicable)

- ❖ At this point we need to analyze our data and make sure we have a firm understanding of our model at the SCADA data from the client. This issue is magnified by the short time frame of the end of the semester.

✓ **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Andersen	Exporting windmil to OpenDSS, research	6	33
Beck	Analyzing windmill model, research, presentation	6	40.5
Ladd	Website, Analyzing windmill model, research	6	40.5

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

- ❖ This coming week we are working on getting our presentation squared away, and getting some example situations from our model to show the characteristics of DG. We are also trying to get a point of contact with a graduate student who knows more about Windmil and Opendss, and who has the time to give us advice when and if we need it. Finally, we are working on how to model the solutions we researched into windmil, so we can observe the simulated effects.