

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

Weekly Summary

During meeting with advisors we decided to lower the amount of solutions we were going to test. The main solutions would be LTC, customer side voltage regulation, and smart inverters. Changed our schedule to accommodate this change in tests. To make up for the two drops in solutions we were going to do a distributed generation to test how robust the system was to solar being distributed across the whole system. Set up a meeting with Mark Scheibe to talk about our project for next week. We found the correct LTC regulation voltage to remove overvoltage.

Past week accomplishments

Met with Advisors. Gave solar to the biggest loads on the feeders and came up with a few cases of overvoltage.

Pending issues

No way to test customer side voltage regulation in Windmil.

Individual contributions

<u>Name</u>	Individual Contribution	Hours this week	Hours Cumulative
Andersen	Found good voltage for LTC for Monmouth	6	13
Beck	Found good voltage for LTC for Bernard	6	13
Ladd	Found good voltage for LTC for Backbone	6	13

Plan for coming week

Set up a meeting with Mark Scheibe to talk about our project. Test the robustness of the feeders by giving solar to all customers based on the percentage of the load.