

Group number: May1728

Project title: Impact of High Photo-Voltaic Penetration on Distribution Systems

Client &/Advisor: Alliant Energy/ Dr. Ajarapu

Team Members/Role: Nat Summitt/Team Leader, Sam Searls/Team Webmaster, Wyatt Lauer/Communications, Mark Szkodyn and Abdul Waasay Mirza/New Developments,

• **Weekly Summary (Short summary about what you did this week)**

Group members were finalized between Groups #32 and #33. Met with Dr. Ajarapu on Monday, September 12. Set future meeting times with Dr. Ajarapu on Wednesdays at 4pm. During the meeting the following items were discussed:

1. Talked about OpenDSS and was advised to download and prepare IEEE trial system, available on OpenDSS website. No OpenDSS assignment is expected due next week on Wednesday, September 21.
2. We were advised on a hand calculated power flow problem that will be due on Wednesday, September 21. The problem is expected sometime by the end of the day Monday, September 12. We need to set up a meeting time this week for setting up this problem once it is delivered.
3. NDA forms were brought up, but nothing is expected of them next week. The question of their applicability still needs to be answered.

• **Past week accomplishments (please describe as what was done, by whom, when)**

- Team Member 1: Worked on...
- Nat Summitt: Downloaded OpenDSS and scanned online and pdf tutorials on running OpenDSS. Gathered data from summer internship that will be applicable for this project.
- Sam Searls: Downloaded OpenDSS and looked through tutorials to gain a basic understanding of how the program works.
- Mark Szkodyn: Downloaded OpenDSS and ran program to begin getting familiar with it since we will use it a lot during this project.
- Abdul Waasay Mirza: Read through the manual for OpenDSS before the meeting and researched about the project so I have an idea before our first meeting.

• **Pending issues (if applicable)**

- None at this time

• **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Mark Szkodyn	Downloaded OpenDSS and worked with group on weekly report	1	1
Sam Searls	Downloaded OpenDSS and worked with group on weekly report	1	1
Abdul Waasay Mirza	Downloaded OpenDSS and worked with group on weekly report	1	1
Member 4	Reviewed Literature...Measured...	10	19

- **Comments and extended discussion**

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

- Abdul Waasay Mirza: Finish 4 bus hand calculation problem.
- Nat Summitt: Finish hand calculation problem.
- Sam Searls: Finish hand calculation problem with group.
- Wyatt Lauer: Finish hand calculation problem with group.
- Mark Szkodyn: Finish hand calculation problem with group.

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

Talked about project scope, rescheduled weekly meeting time, were assigned problem on 4 bus system which is due at our next meeting time, will be given OpenDSS manual and other helpful documents from grad student of Dr. Ajarapu.