

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)**
- We had our midterm presentation on Monday, March 6, with Dr. Amariuca. We had another meeting with Dr. Ajarapu on Thursday at 11:50 A.M. to discuss what our plan is for our analysis of the Alliant system. During the meeting, we talked about needing to decide where we want to go with our project. Ankit, the graduate TA helping us, was unable to attend the meeting. Our goals for next week are listed below:
 - ❖ Since the meeting was before the midterm presentation, our first goal was to finish and be prepared for the presentation
 - ❖ Brainstorm ideas about how we want to move forward with the project
- **Past week accomplishments (please describe as what was done, by whom, when)**
 - Nat Summitt: Worked on simulating the Alliant feeder to obtain different plots and diagrams, went through Alliant files. Went more in depth into the previous group's files. Worked on the midterm presentation. Met with group several times.
 - Wyatt Lauer: Worked on simulating the Alliant feeder to obtain different plots and diagrams, went through Alliant files. Went more in depth into the previous group's files. Worked on the midterm presentation. Met with group several times.
 - Sam Searls: Updated the website, worked on simulating the Alliant feeder to obtain different plots and diagrams, went through Alliant files. Went more in depth into the previous group's files. Worked on the midterm presentation. Met with group several times.

- Mark Szkodyn: Worked on simulating the Alliant feeder to obtain different plots and diagrams, went through Alliant files. Went more in depth into the previous group's files. Worked on the midterm presentation. Met with group several times.
 - Abdul Wassay Mirza: Worked on simulating the Alliant feeder to obtain different plots and diagrams, went through Alliant files. Went more in depth into the previous group's files. Worked on the midterm presentation. Met with group several times.
- **Pending issues (if applicable)**
- None

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Nat Summitt	Continued with simulations and understanding old group's work, worked on presentation	7	29
Wyatt Lauer	Continued with simulations and understanding old group's work, worked on presentation	8	29
Sam Searls	Updated website, continued with simulations and understanding old group's work, worked on presentation	7	29
Mark Szkodyn	Continued with simulations and understanding old group's work, worked on presentation	7	29
Abdul Waasay Mirza	Continued with simulations and understanding old group's work, worked on presentation	8	29

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

- Nat Summitt: Prior to meeting with Dr. Ajarapu on Thursday at 11:50 A.M., brainstorm possible ideas of where to go with the project. Possibly contact Darin in group meeting with Ankit and Dr. Ajarapu with any leftover questions. Continue running simulations and working with OpenDSS.

- Wyatt Lauer: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., brainstorm possible ideas of where to go with the project. Possibly contact Darin in group meeting with Ankit and Dr. Ajjarapu with any leftover questions. Continue running simulations and working with OpenDSS.
 - Sam Searls: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., brainstorm possible ideas of where to go with the project. Possibly contact Darin in group meeting with Ankit and Dr. Ajjarapu with any leftover questions. Continue running simulations and working with OpenDSS. Continue updating the website.
 - Mark Szkodyn: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., brainstorm possible ideas of where to go with the project. Possibly contact Darin in group meeting with Ankit and Dr. Ajjarapu with any leftover questions. Continue running simulations and working with OpenDSS.
 - Abdul Wassay Mirza: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., brainstorm possible ideas of where to go with the project. Possibly contact Darin in group meeting with Ankit and Dr. Ajjarapu with any leftover questions. Continue running simulations and working with OpenDSS.
- **Summary of weekly advisor meeting (if applicable/optional)**
 - We discussed our understanding of the Alliant system, and we discussed possible ideas of where we want to proceed with our project (and set the goal of coming to next week with more ideas). We also talked about the presentation, that we would be giving the Monday following the meeting, to gain advice as to how to approach the presentation. We finished by deciding that we need to have ideas ready for next meeting so we know where we are going with the project before we leave for a week for Spring Break.