
EE 492 WEEKLY REPORT 1

Date: 1/9/17-1/16/17

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)**
- In order to prepare for the semester, we scheduled our first meeting with Dr. Ajarapu for this Thursday at 11:50 A.M. to discuss what our plan is for the semester. We also reviewed our work from last semester to refresh ourselves and to prepare for our meeting with Dr. Ajarapu.
- **Past week accomplishments (please describe as what was done, by whom, when)**
 - Nat Summitt: Reviewed work from last semester.
 - Wyatt Lauer: Reviewed work from last semester.
 - Sam Searls: Updated the website. Reviewed work from last semester.
 - Mark Szkodyn: Reviewed work from last semester.
 - Abdul Wassay Mirza: Reviewed work from last semester.
- **Pending issues (if applicable)**
 - Still waiting for NDA forms to get approved from Alliant Energy

○ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Nat Summitt	Residential solar addition in OpenDSS, solar addition at large loads, compiled the data from the simulations to prepare the presentation	2	2
Wyatt Lauer	Ran simulations for residential solar, made plots for this week's presentation, worked on final presentation	2	2
Sam Searls	Continued working on the website, ran simulations for residential solar, made plots for this week's presentation	2	2
Mark Szkodyn	Ran simulations for residential solar, made plots for this week's presentation, worked on final presentation	2	2
Abdul Waasay Mirza	Ran simulations for residential solar, made plots for this week's presentation, worked on final presentation	2	2

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

- Nat Summitt: Look into community and residential solar projects to determine definitions, possible solutions, and advantages/disadvantages, review the work of the previous group that worked on the Alliant Energy system, analyze and pull conclusions from the groups reports to determine our goals for the semester, and create a plan for our group for the semester to show Dr. Ajarapu.
- Wyatt Lauer: Meeting with Dr. Ajarapu on Thursday at 11:50 A.M, look into community and residential solar projects to determine definitions, possible solutions, and advantages/disadvantages, review the work of the previous group that worked on the Alliant Energy system, analyze and pull conclusions from the groups reports to determine our goals for the semester, and create a plan for our group for the semester to show Dr. Ajarapu.
- Sam Searls: Meeting with Dr. Ajarapu on Thursday at 11:50 A.M, look into community and residential solar projects to determine definitions, possible

- solutions, and advantages/disadvantages, review the work of the previous group that worked on the Alliant Energy system, analyze and pull conclusions from the groups reports to determine our goals for the semester, and create a plan for our group for the semester to show Dr. Ajarapu. Continue updating the website.
- Mark Szkodyn: Meeting with Dr. Ajarapu on Thursday at 11:50 A.M, look into community and residential solar projects to determine definitions, possible solutions, and advantages/disadvantages, review the work of the previous group that worked on the Alliant Energy system, analyze and pull conclusions from the groups reports to determine our goals for the semester, and create a plan for our group for the semester to show Dr. Ajarapu.
 - Abdul Wassay Mirza: Meeting with Dr. Ajarapu on Thursday at 11:50 A.M, look into community and residential solar projects to determine definitions, possible solutions, and advantages/disadvantages, review the work of the previous group that worked on the Alliant Energy system, analyze and pull conclusions from the groups reports to determine our goals for the semester, and create a plan for our group for the semester to show Dr. Ajarapu.
- **Summary of weekly advisor meeting (if applicable/optional)**
- We did not meet with our advisor this week. Will meet next week.