

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 another meeting with Dr. Ajarapu on Thursday at 11:50 A.M. We discussed our current progress, and we concluded that we need to finish by next week in order to prepare for the poster, the final document, and the final document. Our goals for next week are below:
 - ❖ Finish up most of our research/analysis
 - ❖ Prepare an outline for our final presentation and email it to Dr. Ajarapu and Ankit on Monday so we can discuss it at our next meeting
 - ❖ Start working on the poster and the final document
- **Past week accomplishments (please describe as what was done, by whom, when)**
 - Nat Summitt: Applied our findings for smart inverters and cloud intermittency to our code and ran simulations on our simulation to determine how to mitigate cloud intermittency, started working on the poster, met with the group several times.
 - Wyatt Lauer: Applied our findings for smart inverters and cloud intermittency to our code and ran simulations on our simulation to determine how to mitigate cloud intermittency, started working on the poster, met with the group several times.
 - Sam Searls: Updated the website, applied our findings for smart inverters and cloud intermittency to our code and ran simulations on our simulation to determine how to mitigate cloud intermittency, started working on the poster, met with the group several times.

- Mark Szkodyn: Applied our findings for smart inverters and cloud intermittency to our code and ran simulations on our simulation to determine how to mitigate cloud intermittency, started working on the poster, met with the group several times.
 - Abdul Wassay Mirza: Applied our findings for smart inverters and cloud intermittency to our code and ran simulations on our simulation to determine how to mitigate cloud intermittency, started working on the poster, met with the 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	Added cloud intermittency into system to determine solutions, worked on poster	10	48
Wyatt Lauer	Added cloud intermittency into system to determine solutions, worked on poster	10	48
Sam Searls	Updated website, added cloud intermittency into system to determine solutions, worked on poster	10	48
Mark Szkodyn	Added cloud intermittency into system to determine solutions, worked on poster	10	48
Abdul Waasay Mirza	Added cloud intermittency into system to determine solutions, worked on poster	10	48

- **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., finalize our conclusions and continue to work on our poster. The group will also need to meet to agree on a plan for putting the final document and the final presentation together. After the meeting on Thursday, our team will come together to decide on a plan and timeline for getting everything done before the final presentation.

- Wyatt Lauer: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., finalize our conclusions and continue to work on our poster. The group will also need to meet to agree on a plan for putting the final document and the final presentation together. After the meeting on Thursday, our team will come together to decide on a plan and timeline for getting everything done before the final presentation.
 - Sam Searls: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., finalize our conclusions and continue to work on our poster. The group will also need to meet to agree on a plan for putting the final document and the final presentation together. After the meeting on Thursday, our team will come together to decide on a plan and timeline for getting everything done before the final presentation. Continue updating the website.
 - Mark Szkodyn: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., finalize our conclusions and continue to work on our poster. The group will also need to meet to agree on a plan for putting the final document and the final presentation together. After the meeting on Thursday, our team will come together to decide on a plan and timeline for getting everything done before the final presentation.
 - Abdul Wassay Mirza: Prior to meeting with Dr. Ajjarapu on Thursday at 11:50 A.M., finalize our conclusions and continue to work on our poster. The group will also need to meet to agree on a plan for putting the final document and the final presentation together. After the meeting on Thursday, our team will come together to decide on a plan and timeline for getting everything done before the final presentation.
- **Summary of weekly advisor meeting (if applicable/optional)**
- In the meeting this week, we discussed the necessity of completing the project soon in order to move on to getting all of the documentation together and preparing for the final presentation. We decided on goals (which are stated on the first page) for next week, with emphasis on completing the presentation outline before Monday so Dr. Ajjarapu and Ankit have a chance to look over it before our next meeting.