

## **EE 492 Weekly Report 2**

**9/4/16**

**Group number:** DEC1614  
**Project Title:** Impact of High Photo-Voltaic Penetration on Distribution Systems  
**Client & Advisor:** Iowa State University & Alliant Energy & Venkataramana Ajarapu  
**Team Members/Role:**  
Logan Heinen /Team Leader  
Difeng Liu/Team Webmaster  
Zhengyu Wang /Team Communication Leader  
Redouane Zaou /Key Concept Holders

### **Weekly Summary**

After making a detailed plan in group, we actually made some progress in this week, which is great. Besides meeting with advisor, we also spent about an hour to study the database in Open DSS and MATLAB with Ph.D. student, Ankit. With his help, we now have a better understanding of the database and how to approach the target.

### **Past week accomplishments**

1. Meeting with Advisor regularly;
2. Conference call;
3. Meeting with Pd.D. student to walk through the database of feeder;
4. Reviewed old documents that are made in last semester;
5. Scheduled a meeting in group for researching database of feeder.

### **Pending issues**

- ❖ More about feeder exploration;
- ❖ Understand Alliant Energy files used for Open DSS;
- ❖ Run 1 snapshot of Alliant Energy's circuit;
- ❖ First meeting with instructor;

## **Individual Contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Logan Heinen	Meeting with advisor, Group meeting, Communication with Ph.D. student, Ankit, Database research and analysis, Walkthrough feeder files with Ankit;	4	8
Difeng Liu	Updating website, Meeting with advisor, Group meeting, Database research, Walkthrough feeder files with Ankit;	4	8
Zhengyu Wang	Meeting with advisor, Group meeting, Database research, Weekly report, Walkthrough feeder files with Ankit;	4	8
Redouane Zaou	Meeting with advisor, Group meeting, Database walkthrough, Walkthrough feeder files with Ankit.	4	8

## **Comments and Extended Discussion**

Since many things need to be run and handled in this week, we all spent some time on Open DSS after classes. To meet with advisor and make conference call with client, we now have a clearer goal for current study period. The most important thing that we need focus on is the real world feeder database from Alliant Energy, and we will definitely finish comparing and studying them as soon as possible. Since the instructor meeting is approaching, we will need to prepare a little bit and try to defend our achievement.

### **Plan for Coming Week**

In the coming week, we will have the first meeting with instructor on Wednesday, and meeting with advisor right after the instructor meeting. Besides two meetings on Wednesday, we will also have to spend some time on database walkthrough and doing some necessary Open DSS simulation to help understand. Besides the weekly tasks, each of us need generate an idea and learn something for making progress and meeting.

### **Summary of Weekly Advisor Meeting**

Our advisor, Dr. Ajjarapu, required us to have individual research and contribution so that we all can generate better understanding of progress. So, all of us should focus on the project in our free time. And, Dr. Ajjarapu also noticed us the way how we are going to study and research in this semester. The way is to keep exploring the project and system by ourselves, and the most different thing is that he wanted us to find questions instead of collecting tasks from him every week. To this, our group have already agreed that we will explore more and further and try to collect our problems by ourselves. Hopefully, we will be more efficient in this way.