

## **EE 492 Weekly Report 3**

9/11/16

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

### **Weekly Summary**

During this week, we met the class instructor, George, for the first time. The meeting covers lots of points and goals that our team should do and achieve in the following months. Besides, we had regular meeting with Dr. Ajjarapu, and talked about study plan for client's requests.

### **Past week accomplishments**

1. Receiving information from project client, Alliant Energy;
2. Organizing group meeting to prepare for instructor meeting;
3. Finishing organizing new OpenDss file;
4. Finishing reviewing old materials and old .dss files.

### **Pending issues**

- ❖ Revising new OpenDSS files and .csv files;
- ❖ Reviewing other circuit information files to get familiar with Washington area;
- ❖ Start to compile command file and research the circuit with monitors and Energy Meters.

### **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 instructor,	4	8

	Meeting with advisor, Group meeting, Communication with Client, Database organization;		
Difeng Liu	Updating website, Meeting with instructor, Meeting with advisor, Group meeting, Database research;	3	7
Zhengyu Wang	Meeting with advisor, Meeting with instructor, Group meeting, Database research and organization Weekly report;	4	8
Redouane Zaou	Meeting with advisor, Group meeting, Database walkthrough.	3	7

### **Comments and Extended Discussion**

From now on, our team will start researching real world feeders and data by combining using OpenDSS for simulating and Excel for data analysis and comparison. With more data from real distribution systems, the simulation will be closer to the real system so that the next stage of project can be proceed smoothly. The only thing needs to be noticed to our team is careful selecting meeting time because we missed one team member. We have to make sure that all team members show up in next meeting with instructor.

### **Plan for Coming Week**

For the coming week, we need spend some time on making detailed plan for the project and design. First, we all need to set up an idea for final presentation, such as how to present the outcome of the project. Then, the main goal of this week is to compile the .dss file and debug the file. Last but not least, we need add monitors and energy meters to output data for research.

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

Based on the feedback from meeting with instructor and conference call, Dr. Ajjarapu suggested us to focus on the circuit from client and try to match our simulation to the real system better in every way. About others, Dr. Ajjarapu was satisfied our processing.