

EE 491 WEEKLY REPORT 5

Date:02/24/2017

Group number: Dec1702A

Project title: Algona Municipal Utilities Power System Designs

Client &/Advisor: Algona Municipal Utilities / Anne Kimber

Team Members/Role: Yuxuan Yuan: Leader; Shengxin Mao: Communication director; Changlin Li: Software master;

o Weekly Summary

In this week, company cancels the online meeting because office closed on Friday. So we reschedule the online meeting in the next week. We discussed about the present data, include Algona power system map, industrial company electric billing, peak demand, etc with Dr. Kimber. We try to work hard with present data and analyze as much as possible. But we still have some confuse questions that we need to ask in the online meeting. And we finished a basic development of website in this week.

o Past week accomplishments

- Team Member Yuxuan Yuan: Work on the present data, our group has 2 hours meeting with Dr.Kimber in this week. We checked the town map and found the currently feeder. And we discussed about possible ideal about design. And I analyzed the monthly peak and draw the figure. Based on the figure, I got some information and discussed with Dr. Kimber.
- Team Member Shengxin Mao: I build our group website and post our weekly reports. Then I scan the all documents that sponsor need to sign and send to Professor Kimber. We cancel our meeting because of terrible weather.
- Team Member Changlin Li: Last week, we printed the map of distribution system in Algona. My job was to find that how many customers in the line #EB5 with distribution map and Google Map and find the different customers from distribution map and Google Map.

o Pending issues

- Team Member Yuxuan Yuan: Because our data is insufficient. A lot of things need to be checked with company. Like whether industrial company doesn't have own

generators. And some questions still cannot be answered now, like the location of meter, the data of feeder, the reason of difficult maintain.

- Team Member Shengxin Mao: We will contact company and decide which day we can meet. And I will post our first draft of project plan. I will prepare the meeting with company.
- Team Member Changlin Li: I have some questions about the company aspect, like the forecast cost of project. I will ask them when we will meet with people from the company in the next week.
- **Individual contributions**

<u>NAME</u>	<u>Individual Contribution</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Member Yuxuan Yuan	Analyzed the data and draw the monthly peak figure,	4	22
Member Shengxin Mao	Build website and write all documents	4	17
Member Changlin Li	Find customers from map and Google Map	4	16

o **Comments and extended discussion**

We changed our plan about project because of the cancel of online meeting. We finished a basic development of our website and got the information as much as possible from the present data. Because we just have three people, we try to finish the missions as soon as possible. Like requires of Dr. Kimber, we are always done in a day. So we can have time to solve new questions before the next meeting.

o **Plan for coming week**

- Team Member Yuxuan Yuan: Before the online meeting, I try to find some distribution system design example and read it. It will help us about how to build a successful distribution system. After the online meeting, our group will analyze the new data together.
- Team Member Shengxin Mao: I will look one diagram map and make sure i know everything in the map. Then, I will find some information how to do the distribution

- system. And I will prepare our meeting with company and update our website.
- Team Member Changlin Li: I will get the answers from the company and record answers to the notebook. Then we will discuss with our advisor about the new data. And if the company has new requirement about the software, i will start to learn new software.

o **Summary of weekly advisor meeting**

In this week, we have a two hours weekly advisor meeting because of the cancel of online meeting. We checked the present data carefully and printed the map poster to observe. And we updated our problem list based on the present data. Dr. Kimber gave some missions to us about the online meeting.