

EE 491 WEEKLY REPORT 12

Date:04/17/2017

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, we worked on progress report, final version design document, final version project plan, and PPT. On the same time, we still try to find the absence of Algona WindMil circuit model. Based on the current missing data, we had communicated with DGR engineering and still waited for response.

o Past week accomplishments

- Team Member Yuxuan Yuan: Work on improve for documents and write a new progress report to Dr. Kimber to summary all we done. The response of Dr. Kimber will help us to find some left out. On the same time, I keep to communicate with DGR engineering and AMU for the absence of Algona WindMil circuit model.
- Team Member Shengxin Mao: Work on PPT and rewrite some part of documents. And I read some papers which relate our project. On the same time I updated our website.
- Team Member Changlin Li: I tried to find interest rate, inflation rate in 2017 and also the interest rate and inflation rate in 5-10 years in the future from Google search. Because some numbers about inflation rate are different in different website, I compared and found the most similar number.

● Pending issues

- Team Member Yuxuan Yuan: I still wait for the response of Dr.Kimber and DGR engineering. And for the WindMil, I need more time to test and draw the design draft in WindMil circuit.
- Team Member Shengxin Mao: The website will need some update some picture and we will need to prepare our presentation.

- Team Member Changlin Li: I will calculate about our cost analysis with the number of interest rate and inflation rate I find from Google and see if the result will be suitable.

- **Individual contributions**

<u>NAME</u>	<u>Individual Contribution</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Member Yuxuan Yuan	Communicate with DGR engineering, write the progress report for Dr. Kimber, test the WindMil, and work on document with my group	13	88
Member Shengxin Mao	work on ppt, and read some paper	11	77
Member Changlin Li	Find interest rate, inflation rate in 2017 and 5-10 years in the future	10	70.5

- **Comments and extended discussion**

In this week, our group almost finish all documents except PPT. But we hope we have more progress with WindMil. That means we need spend more time with WindMil in the coming week.

- **Plan for coming week**

- Team Member Yuxuan Yuan: Keep to communicate with DGR and Dr. Kimber, check all final version and finish the PPT. On the same time, I hope to finish the draft design with WindMil in the coming week.
- Team Member Shengxin Mao: Finish our ppt and prepare our presentation. Then, updated some in our website.
- Team Member Changlin Li: Find the results of our cost analysis such as the cost of

maintain in the future, how long AMU will get the cost of investment and so on.
Compared with real life to find if the results are suitable.

o **Summary of weekly advisor meeting**

In this week, we didn't have advisor meeting. But we have some short communication with Dr. Kimber about the progress report for project. The response of Dr. Kimer is important to us.