

EE 491 WEEKLY REPORT

Date: 02/13/2017

Group number: Dec1702B

Project title: Musctine Power and Water Solar Garden

Client: Musctine Power and Water

Advisor: Anne Kimber

Team Members & Role:

1. Bob Cohoon (Team Leader)
2. Abdelmagieed Ibrahim (Kay Concept Holder)
3. Jinan Li (Web Master)
4. Chang Sun (Communication Leader)

Weekly Summary (Short summary about what you did this week)

- We meet with our advisor Anne and finalized the question list for the client and send to the client on last Friday (10th, Feb).
- Did the primary research on fundamental data base (electricity consuming peak, sunshine intensity, etc) and system components (invertors and substation tie-in).
- Finalized the date to have a Skype meeting with our client in the week 13th – 17th, Feb.
- Informed by the client that we need to switch to another project, solar garden program has been canceled).

Past week accomplishments (please describe as what was done, by whom, when or collectively as a group)

- **Bob Cohoon:**
 - Met with team, revised the question list for our client.
 - Did preliminary research on inverters and substation tie-in.
- **Abdemagieed Ibrahim:**
 - Met with the team, provided some question regard to the project.
 - Did some research on load modify resource.
- **Jinan Li:**
 - Met with team, revised the question list for our client.
 - Did preliminary research on basic knowledge for Solar Garden and inverters
- **Chang Sun:**
 - Met with team, sent the final version of the question list to the client.

- Did primary research for peak hours of electricity usage in Musctine and the peak sunshine hours in Musctine for different seasons.

Pending issues (if applicable)

We were informed that our client (Musctine Power & Water) decide to give up the solar garden program earlier today (Monday, Feb 13th), hence our group has to change to another project. They are suggesting instead a project to analyze: "New Construction or Re-conductor-Analyze economic viability of re-conducting specific lines versus all new construction.... a key consideration for re-conducting is migration from ACSR to T2 which would impact pole loading".

Since we are also allowed to choose from the power project list, we are having a meeting on Tuesday to decide which project to work on.

Individual contributions

| <u>NAME</u> | <u>Individual Contributions</u> | <u>Hours this week</u> | <u>HOURS cumulative</u> |
|-------------|---------------------------------|------------------------|-------------------------|
| Member 1 | Bob Cohoon | 3 | 7 |
| Member 2 | Abdelmagieed Ibrahim | 3 | 7 |
| Member 3 | Jinan Li | 3 | 7 |
| Member 4 | Chang Sun | 3 | 8 |

Comments and extended discussion

Since we are changing to a new project, we are not discussing this project further. Solar Garden has been a great project that all of our group really love to work on, unfortunately we have to change to another.

Plan for coming week (please describe as what, who, when)

- **Bob Cohoon:** Meet with client and review the project specifications from them. Begin preliminary planning on project plan.
- **Abdelmagieed Ibrahim:** Used the parameters tools provided by client in order to come up with the number of inverters, combiners and solar panels
- **Jinan Li:** As the webmaster, I went through the email which sent to me last week about Senior Design Web Page and start to learn how to upload or create the website.

- **Chang Sun:** Sent the question list to the client and finalized the Skype meeting date with the client. Moreover, to support the parameters of the design, I also read through the 2015 annual report of the client to figure out several specific data for our design.

Summary of weekly advisor meeting (if applicable/optional)

We had a meeting with our advisor Anne on 10th, February. During the meeting, we discussed the question list with Anne and finalized the final version. Other than the question list, we also discussed the direction that we could move on for the next week (do primary research on fundamental data base and system components).

This week we will move on to begin a different project rather than develop the original project since the client cancelled the Solar Garden Project.