
EE 491 Bi-Weekly Report 7

11/20/18 – 12/3/18

Group 11

High-Level Design of a Distribution Microgrid

Client: Alliant Energy

Advisor: James McCalley

Nick Stitzell – Communications Engineer

Minoru Fernando – Research Engineer

Joe Thurin – Power Engineer

Taylor Murphy – Power Engineer

Remo Panella – Data Engineer

Project Objective:

Create an excel document that estimates the cost of incorporating distributive generation and storage into a microgrid system at Nichols, IA.

Summary:

In the last few weeks, we finished our senior design project. The Excel tool is complete and sent to Alliant Energy, we have shown them how to use it, their microgrid team is excited to use it, and we feel very content with the success of our design! The team also created a poster to present at this upcoming Friday's presentation and design poster fair.

Past Weeks Accomplishments:

Last design period, we completed most of the design tool and began working on the poster and final report.

Pending Issues:

We have no pending issues.

Individual Contributions:

Team Member	Contribution	Weekly Hours	Total Hours
Nick Stitzell	Poster design, Final Report: (Intro, Project Design, Implementation), Final Presentation	13	92
Minoru Fernando	Poster Design, Testing the tool	4	69
Joe Thurin	Finishing simulation tool, testing, poster	15	99
Taylor Murphy	Finishing simulation tool, testing, poster	8	78
Remo Panella	Final Presentation	4	65

Plans for the Coming Weeks (11/20/18 – 12/3/18):

- None!

Summary of Client Meeting (12/29/18):

- Poster Discussion
 - Showed Alliant our poster design
 - Discussed including a section about the variations in solar panel and battery combination performance
- Discussed how McCalley has a grad student who would like to use our design to assist her in her research
- Went over final details with Logan about how to use the design
- Wrapped up our communications with Logan, Darin, and McCalley