

EE 491 WEEKLY REPORT 1

September 5th - 12th

Power system reliability in MISO for high wind/solar levels

Group 23

Client: Midcontinent Independent System Operator

Team Members:

Zaran Claes

Shelby Pickering

Matt Huebsch

Shannon Foley

David Ticknor

Ian Rostkowski

WEEKLY SUMMARY

The first week of work on our senior design project started off with the students contacting the advisor and meeting with the MISO Policy Studies Team. They first met with Dr. McCalley to obtain a brief description of the project, the methods of operation, and the required software needed to complete the project. Dr. McCally distributed the Energy Exemplar forms for PLEXOS, an economic power-grid modeling software used by the policy studies team at MISO to perform studies for future grid layouts.

The student team met with the MISO Policy Studies Team and received an overview of the client's expectations of the project and an abundance of reading materials to study, which contains a lot of definitions and explanations of terms used in the industry. This meeting was a great opportunity for everyone to get to know each other a bit better.

The team also assigned titles to team members, which gave context to the team in terms of individual roles and expectations.

ACCOMPLISHMENTS FOR THE WEEK

Name	Accomplishments	Hrs this week	Total
Zaran Claes	-Helped organize meeting with MISO -Prepared and gave 30 sec elevator speech for class -Wrote part of weekly report	5	5
David Ticknor	-Prepared elevator presentation with team -gave 3 minute elevator pitch in class	5	5
Shannon Foley	-Prepared 1 minute elevator speech -Read documents and prepared discussion topics -Sent in everyone's Plexos request forms	4	4
Ian Rostkowski	-Assisted with writing/preparing of elevator pitches -Assisted with completing first reflection assignment	4	4
Shelby Pickering	- Assisted with completing first reflection and assigning roles to each member - Read documents and filled required forms in prep for MISO meeting	3	3
Matt Huebsch	-Wrote meeting minutes	4	4

PENDING ISSUES

- The team is awaiting PLEXOS software, the main software needed to simulate power models for our project.

PLANS FOR NEXT WEEK

Next week we are all planning on reading the documents provided to us to familiarize ourselves with all the concepts. We are also meeting face to face with our team again.

Zaran Claes- Will work on compiling notes of all the documents and plan out a meeting with MISO and our advisor.

David Ticknor - Will begin to research PLEXOS and learn about the software. Will also be reading over the documentation provided by MISO.

Shannon Foley- Set up a long meeting to teach the team what I already know about Plexos now that we should get the software set up.

Ian Rostkowski - Will begin to research how to operate PLEXOS and finalize understanding of the project's mission statement and important topics by reading given materials.

Shelby Pickering - I will go over the MISO documents more and solidify my understanding of the different vocabulary and topics that we will be working with throughout the duration of this project. I will also work on researching PLEXOS and trying to learn more about it, as we will be receiving access to the software soon.

Matt Huebsch- study the terminology sheet given by Armando, write minutes for the last meeting and this coming Wednesday's meeting, start to learn PLEXOS from Shannon.