

# **EE 492: Weekly Report 1**

*January 28, 2019 – February 3, 2019*

sdmay19-24:

Power System Reliability in MISO for High Wind/Solar Levels

Team:

Zaran Claes, Shelby Pickering, Matt Huebsch, Shannon Foley,  
David Ticknor, Ian Rostkowski

Advisor:

Dr. James McCalley

Client:

Midcontinent Independent System Operator (MISO)

## Accomplishments this week

Task:	Group members who contributed:	How they contributed:
Deleted NREL data from given PLEXOS model	Shannon Foley	Worked with ETG after the remote desktop stopped working. Fixed the issue and was able to go into the PLEXOS model and delete each of the NREL renewable generators.
Research LOLE and ELCC and report findings in the next team meeting with MISO	Ian Rostkowski Matt Huebsch Shelby Pickering	Matt - read IEEE "Capacity Value of Wind Energy" and researched COPT Shelby – reviewed intro documents given to us by MISO and created a document to discuss what these terms mean and why they are important for our project Ian – helped research with Shelby and Matt and edit the document to present to MISO
Determine busses within system that are owned by major companies of interest (used for siting criteria)	Ian Rostkowski Matt Huebsch Shelby Pickering	All - Cross referenced documented footprints of the utilities in the MISO market to states and counties that MISO covers and updated Master Siting Excel doc.
Work on finalizing siting spread sheet.	David Ticknor	Finished linking each technology on the sheet to form final ranking of buses.

## Pending Issues

PLEXOS license expires every 3 months. Need to reconnect with Energy Exemplar contact and receive an extension in order to be able to continue with project operations.

## Plans for next week

Receive extension on PLEXOS and continue to create a base case for the PLEXOS model. MISO contacts will visit in coming weeks and the base case will be used in a workshop to educate the team. The team needs to add the generation into the model and add locations (nodes) to each generator. We have begun preparing for the workshop where the MISO team will come to visit Ames and work with us on the model.