

EE 491 Weekly Report **MAY 15-08** **Week 4 (9/15/14-9/21/14)**

Advisors: Dr. McCalley **Client:** US DOE/National Renewable Energy Laboratory

Members (roles):

Alex Tillema - Team Leader

Kyle Kraus- Team Webmaster

Nick Jones- Team Communication

Jared Ward- Key Concept

Josh Martinson- Key Concept

Mohammed Aldaheri- Research

Project Title: Hydropower Vision

Weekly Summary

The goal of this week was to finish finding the advantage and disadvantages of the three locations we picked and submit them to our faculty advisor Dr. Peters.

Meeting notes:

9/18 Conference Call Meeting

Duration:

30 min

Members Present:

Alex Tillema- Team Leader

Kyle Kraus- Team Webmaster

Nick Jones - Team Communication

Jared Ward- Key Concept

Josh Matinson-Key Concept

Mohammed Aldaheri- Research

Purpose and Goals:

The purpose of this meeting was to get together via conference call and discuss the results of our research. The goal of the meeting was to ensure that the team was making progress on selecting the location by weighing the advantages against the disadvantages. Also, Nick Jones will submit results of effects of small hydro on population.

Achievements:

After putting the advantages and disadvantages down on, it appeared that Colorado would not be justifiable because prime areas may be further away from the population. The East appears to be very advantageous and Missouri seems like it would also be advantageous because of the easy implementation into MISO to compensate for large wind farms. Nick submitted his

findings on the effects of small dams on local population and determined that small hydro will not have drastic impact on populations.

Pending issues

There are currently no pending issues.

Plans for next week

Alex Tillemaa-Will Write Project Plan

Kyle Kraus- Will continue building the website

Nick Jones-Will research construction cost of hydro plants for entrance into competitive energy market

Jared Ward-Will support in writing of the project plan

Josh Martinson-Will support in writing of the project plan

Mohammed Aldaheri-Will begin research on system models of MISO and PJM markets

Individual Contributions (this week)

Alex Tillema-Attended meeting, performed research (3 hr)

Kyle Kraus- Attended meeting, performed research (3 hr)

Nick Jones-Attended meeting, performed research, wrote weekly report (3 hr)

Jared Ward- Attended meeting, performed research (3 hr)

Josh Matinson- Attended meeting, performed research (3 hr)

Mohammed Aldaheri-Attended the meeting (.5 hr)

Total contributions for the project

Alex Tillema (7.5 hr)

Kyle Kraus (7 hr)

Nick Jones (8 hr)

Jared Ward (6.75 hr)

Mohammed Aldaheri (4.25 hr)

Josh Martinson (6 hr)