

MEETING MINUTES 9

Topic: Meeting 9 – Moving Forward and Top Level Design

Wednesday, November, 1st, 2017

05:15pm-06:30pm

Chair: Anthony Cheslic

Attendees: Alana Benson, Craig Collins, Leo Segura De Niz, Mitchell Green, and Michael Vogelsang

Please bring:

- A general understanding of the Final Proposal Rubric
- Top Level Design Ideas

Location: EGR Building, Rm#323

Table 1. Schedule

05:15pm-05:20pm	Announcements <ol style="list-style-type: none">1. Sunday's Business Meeting<ol style="list-style-type: none">a. Utility Scale (1MW)2. Willy's Expectations<ol style="list-style-type: none">a. Top Level Design by November 13th (2 weeks)3. Current state of business students (Not Attending)<ol style="list-style-type: none">a. Waiting to hear back from contactsb. Nothing to report at this time
05:20pm-06:20pm	Discussion Topics <ol style="list-style-type: none">1. Current status of preliminary report revising<ol style="list-style-type: none">a. Do we have a current report, or just fixed sectionsb. Sections still needing attention2. Final Proposal<ol style="list-style-type: none">a. Presentation (Due Monday the 6th)<ol style="list-style-type: none">i. Shell in Google Driveii. Mike for overall Solidworks designiii. Each individual responsible for design description.iv. Anthony for project descriptionv. Design Requirements "Alana"vi. Schedule/Budget "Leo"b. Report (Due Friday the 10th)<ol style="list-style-type: none">i. Which sections have point values?<ol style="list-style-type: none">1. Section 2, 5, and 6ii. Focus on preliminary revisions until Monday evening.

3. Top Level Design (Mechanical Focus w/no power electronics)
 - a. Research (How heavily have we looked at utility scale systems)
 - i. What has been researched
 1. Tower
 2. Generator type
 3. Blades?
 - ii. What needs researched
 1. Direct drive generating systems
 2. Pitching
 3. Hub design
 4. Weight of nacelle
 - b. Analysis
 - i. What has been analyzed
 1. Blades
 2. Yawing
 3. Mainframe
 4. Shaft
 5. Tower
 - ii. What needs analyzed
 1. Pitching “Alana/Anthony”
 - a. Blade loads
 - b. Motor requirements
 - c. Solidworks
 - i. First iteration:
 1. Who’s doing what?
 - a. Analysis components
 2. How are we going to communicate sizing?
 - a. Tower and Mainframe
 - i. Mike/Anthony
 - b. Hub?
 - i. Mike maybe?
 - c. Tower and Yawing
 - i. Mitchell/Mike
 3. Who’s going to be responsible for the assembly?
 - a. Mike
 - d. Create powerpoint for Leo to present
4. Business students questions
 - a. Reservoir sizing?
 - i. What kind of power are we looking to provide?
 - ii. Going to need site info
 - b. Wind Data (List of top areas for development)
 - i. States, Countries?
 - c. Renewable Impact (Best states to target)

	<ul style="list-style-type: none"> i. What are they currently running on? 5. Questions business students need to ask <ul style="list-style-type: none"> a. Reservoir data b. Land map c. Load data <ul style="list-style-type: none"> i. Annual and Daily 6. Action Items <ul style="list-style-type: none"> a. Anthony <ul style="list-style-type: none"> i. Complete project description slide by 11/05/17 ii. Revise Section 2 of report by 11/05/17 b. Alana <ul style="list-style-type: none"> i. Complete design requirement slide by 11/05/17 ii. Revision of report tables by 11/05/117 c. Craig <ul style="list-style-type: none"> i. Complete design description slide by 11/05/17 ii. Revision of report section by 11/05/17 d. Mitchell <ul style="list-style-type: none"> i. Complete design description slide by 11/05/17 ii. Revision of report section by 11/05/17 e. Micheal <ul style="list-style-type: none"> i. Complete Solidworks rendering by 11/05/17 ii. Revision of report by 11/05/17 f. Leo <ul style="list-style-type: none"> i. Complete schedule and budget slide by 11/05/17 ii. Revision of report section by 11/05/17
<p>06:20pm-06:30pm (Remaining minutes)</p>	<p>Plan for next meeting</p> <ul style="list-style-type: none"> 1. Review deliverables/ tasks/ to-do's to be completed by the next meeting.