

Senior Design Microgrid Meeting

01/27/2020

Recap of last semester

- Solar PV Array in the parking lot (Kibbie Dome) with 1 MW
- Energy from the backup generators can be used, as well as the IRIC Solar Array as well as the future PV Solar Array in the parking lot
- Use Power World or a similar analysis to display the load shedding displays
 - Power World will help us look at how things are connected as well as the loads and can separate what happens within each load
- Chat with Yacine about Power World, RTDS may be over kill for the analysis but will need to talk to Johnson for both
 - Look at real and reactive power
 - Power World to change the available generation
- May not need more donations if we decide to go with the Power World route
- Expand upon last years project and by using Power World how we could implement it one building at a time
- Try to get more relays for future projects, and try to get the 751-A relays
 - Check number of relays before we ask SEL
- Wells will be priorities

Action Items:

- Set up meeting with Marc Compton, and Solar Array Group
- Finish up Expo form and submit it

15th Meeting Minutes, 2/24/2020

1. Review Feedback
 - a. Well received
 - b. Fred: use a CT to measure the load currents to find out how inductive loads are
 - c. CT: Need Clamp style
 - d. Can use load power and voltages to find phase angles
2. Meeting time to work on Powerworld
 - a. Thursdays at 3:30-4:45 pm ECE Lounge
3. Budget for EXPO poster
 - a. \$60-100 for a poster
 - b. Talk to print center to make an appointment/reserve a time
4. SBPG Release Review
 - a. Tues 3:30-4:30 IRIC 305
5. Snapshot Day 3
 - a. 8:30-10:15 am March 6
 - b. Powerworld Simulation bones present
 - c. Include Design Review Release

Action Items:

Talk to Facilities for an EXPO Poster

Recorder: Shaun

Moderator: Chris

16th Meeting Minutes, 03022020

1. Snapshot 3

- a. Work on Powerworld Thurs. 3:30-4:45 pm on March 5
- b. March 6th is Snapshot day 3
- c. Update the Budget
- d. Take numbers from previous "Take a Load Off" team
- e. Powerworld or RS CAD softwares, should we use only one or a mix?

Action Items:

- Update Budget for Snapshot: Chris
- Work on Powerworld Thursday: Everyone
- Moderator: Shawn
- Recorder: Chris

Dates:

- Snapshot 3, March 6, 8:00-10:15 am
- Team Membership Form, March 10
- Wikipage Update, March 10
- Team Portfolio, March 10
- ABET Paper, March 10