Team Meeting

15TH JUNE 2023 / 10:00 AM CALIFORNIA TIME / Zoom

Attendees

Peter Schwartz, Andrew Mayanja, Ropafadzo Esinath, Marcorios, Victor, Nicolas

Agenda

Collaborator Check Ins

- ➔ Pete Schwartz
  - ◆ Working on simulating PWM (pulse width modulation) mechanism to optimize power drawn from the solar panel with Ropa and Marcorios.
  - ◆ Made a comparison between making a heater from choke resistors versus making one from nichrome wire and ceramic, choke resistor was more expensive
  - ◆ Met with a government organization in Nepal who agreed to buy the ISEC's but further requested a low power AC thermal storage cooker for use in the morning to reduce the grid load..
  - ◆ Used spokes to hold the top ISEC cover
  - ◆ Asked for feedback from Nicolas and Victor regarding their schedules or institute plans
  - ◆ Suggested Nicholas and Victor in malawi try using polyethylene as an insulator

- ➔ Ropafadzo
  - ◆ Currently in at Cal poly in California as part of an exchange program between Cal poly and Ashesi University
  - ◆ Having fun working on the simulations

- ➔ Marcorios
  - ◆ Found a voltage regulator that goes up to 42 Volts and costs 7 dollars and 65 cents
  - ◆ Working on simulating PWM mechanism as well

- ➔ Victor
  - ◆ Remaining one week to close the term at the institute
  - ◆ Working on having proper insulation in the ISEC, looking at making a bigger frame
  - ◆ Will look into using chicken feathers as insulation

- ➔ Nicolas
  - Been using nichrome wire to make ceramic heaters
  - Going into winter but sunlight is low
  - ISEC heated up to 160 degrees
  - Pillows sold use foam
  - Made top cover of ISEC out of plaster, works well, plans on making another
  - Stainless steel sheets are hard to get because of limited factories that use it as raw material in Malawi

Action Points

- None