

**sdmay23-36: Making microgrids plug and play**

Week 6 Report

October 28 - November 4

**Team Members**Andrew Frank — *API Reserach and Developer*Austin Thoreson — *Systems Designer*Christian Pinta — *API Research / Developer*Ben Eder — *Software Developer*Saketh Jonnadula — *Software Developer***Summary of Progress this Report**

Succesfully moved the microgrid pallets into a Coover lab space and re-attached all cables. Made communication with inverter through Sunspec command and decided on a network design topology moving forward. Established some basic TMS to sunspec data translations.

**Pending Issues**

No current design for the user interface and display. We need a lot more information on inverter configuration before we can start automating this step.

**Plans for Upcoming Reporting Period**

Plans to further research inverter configuration for different basic situations and test communications with the inverter. Create preliminary design for the user interface and obtain a network switch.

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Andrew Frank	Created diagrams describing different network topologies to arrive at a design decision. Mapped some TMS functions to sunspec data.	4	0
Austin Thoreson	Initial setup of microgrids in new location. Setting up batteries, configuration of MATE 3. Researching possible hardware solutions for controlling raspberry pi.	3	
Christian Pinta	Mapped TMS functions to SunSpec values. Successfully connected to the inverter throught the AXS port.	6	0
Ben Eder	read TMS standard documentation, looked over APIS/ options for user display and inputs, and researched pySunSpec and Tactical	3	

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	Microgrid Standard		
Saketh Jonnadula	read TMS document thing, researched on the SunSpec stuff and looked at our options for the user display	3	

**Gitlab Activity Summary**

Nothing to report.

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