

Vlog #3

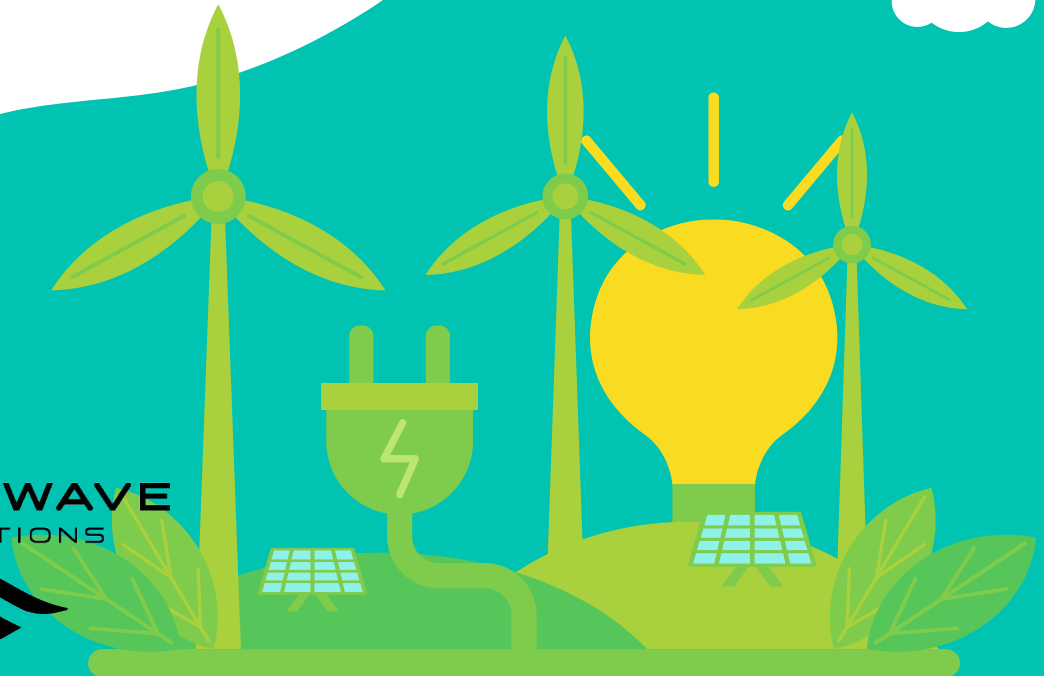
Oct. 15, 2021 - Dec. 3, 2021

Team SolarSize

Tristan Brown-Hannibal
Karlee Fidek
Kaden Goski



GREENWAVE
INNOVATIONS



Team Member Reintroductions



Tristan



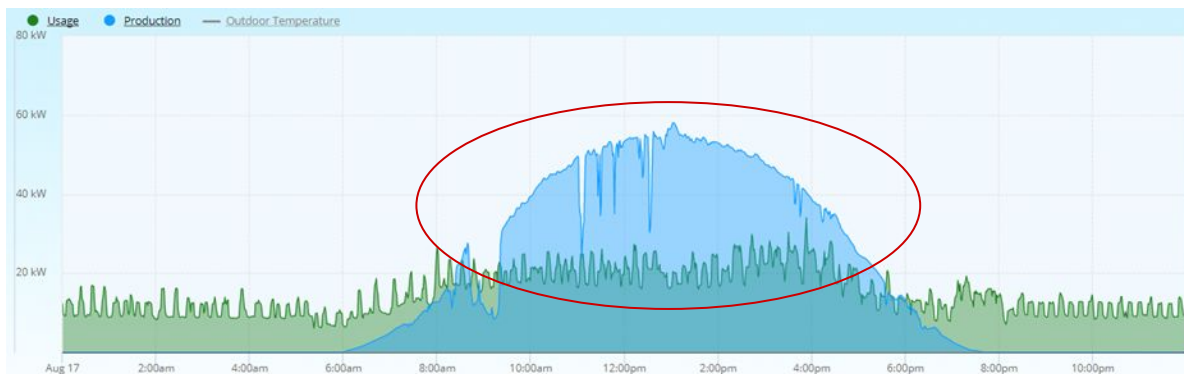
Karlee



Kaden

About This Project

- In partnership with a local company - Greenwave Innovations
- A tool that utilizes building consumption metrics and solar intensity data to calculate accurate ROIs
- Help to determine over or under generation windows and size solar generation solutions accordingly
- Integrate with Greenwave's existing services
- Alert of issues when dealing with real time data



Project Activity Dates

Oct. 15th - Dec. 3rd, 2021

- Scrum #3, #4
- Met with Greenwave Innovations
- Vlog #3
- Finished MVP 1

Team Member Contributions

Tristan

- Set up EC2 server
- Configured Laravel on EC2
- Implemented basic routing and API calls
- Connected Front-end Vue to Back-end calls

Kaden

- Created a Solar Panel Power Estimation Model
- Connected to Nasa Power API

Team Member Contributions

Karlee

- Lo-fi and hi-fi UI prototypes
- Gantt chart
- Started front-end development in vue.js
- Meeting minutes

Group

- Met with Greenwave Innovations
- Received consumption data from Greenwave Innovations
- Team/instructor scrums
- Completed MVP 1

Project Status

Green

- MVP 1 Complete

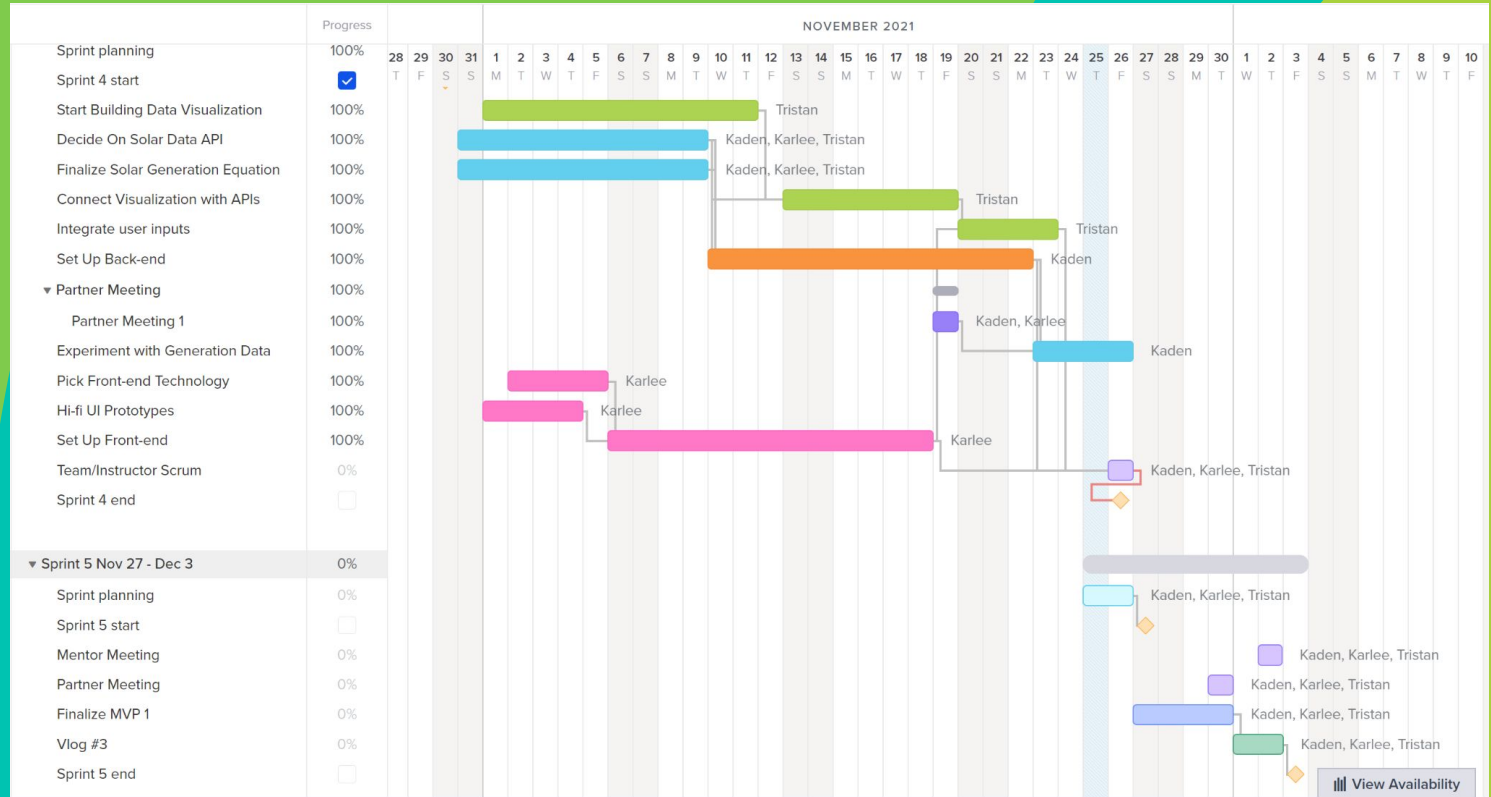


Project Issues/Changes

- Could potentially run into issues with retrieving real-time solar data



Gantt Chart



Hi-fi Prototype

Generation

Latitude



Time Zone



Start Date



Time Zone

Time zone that the location is in

Latitude



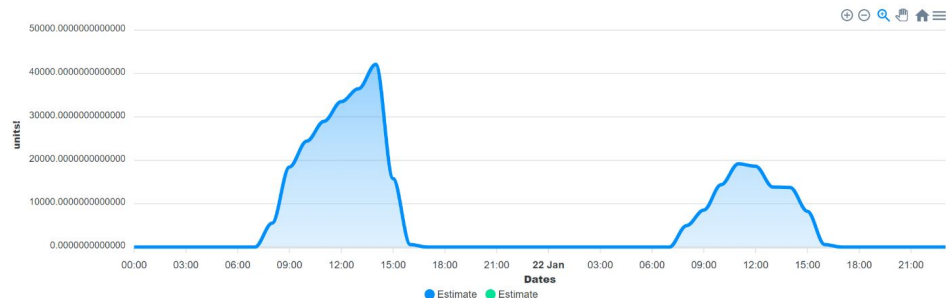
Module Tilt












End Date



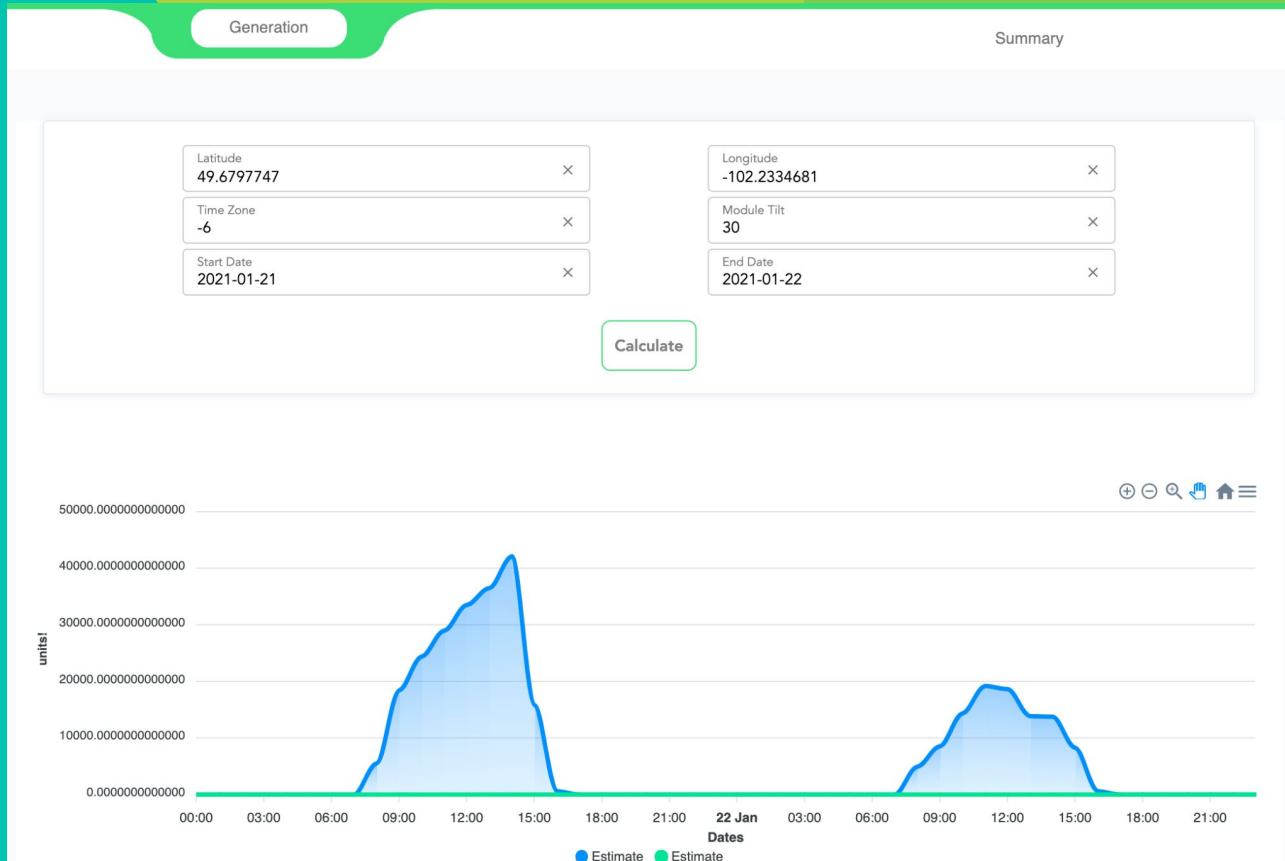
Calculate



EC2 Server

Details			Security	Networking	Storage	Status checks	Monitoring	Tags
▼ Instance details Info								
Platform	AMI ID		Monitoring					
 Ubuntu (Inferred)	 ami-036d46416a34a611c		disabled					
Platform details	AMI name		Termination protection					
 Linux/UNIX	 ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20211021		Disabled					
Launch time	AMI location		Lifecycle					
 Mon Nov 22 2021 22:19:00 GMT-0600 (Central Standard Time) (10 days)	 099720109477/ubuntu/images/hvm-ssd/ubuntu-focal-20.04-amd64-server-20211021		normal					
Stop-hibernate behavior	AMI Launch index		Key pair name					
disabled	0		 brownhannibal					
State transition reason	Credit specification		Kernel ID					
-	standard		-					
State transition message	Usage operation		RAM disk ID					
-	 RunInstances		-					
Owner	ClassicLink		Enclaves Support					
 787288398230	-		-					

Demo



Next Up

Tristan

- Improve User inputs
- Add map selection
- Add overlay of consumption
- Contribute to summary page

Kaden

- Tune the solar panel estimation model
- Find a real-time solar and weather data API

Next Up

Karlee

- UI improvements
- Add learning information to UI
- Add summary page with details
- Potentially work on user/company login functionality
- Documentation
- Meeting minutes


Group

- Meet with Greenwave Innovations
- Meet with Dr. Yow
- Get more data from Greenwave Innovations
- Complete project day requirements

Retrospective

- **What went well?**
 - It is and has been beneficial to have a company to communicate with
 - MVP 1 goals have been met
 - Learned new technologies (Laravel/Vue.js)
- **What could be improved?**
 - More often mentor and group meetings
- **What will the team commit to continue or change in ENSE 477?**
 - Shorter, more often meetings amongst group

Team Reflection

- **Does the team feel "on track"?**
 - Green Status
 - Done MVP 1
 - **What progress does the team particularly feel good (great) about?**
 - MVP 1
- 

Team Reflection

- **What barriers (if any) does the team feel are a current impediment to success?**
 - Access Real Time API Data, Nasa data lags behind a couple months
- **What help (if any) does the team require to move positively forward?**
 - Greenwave Innovations input and expertise on solar panel
- **What questions or concerns does the team have (if any)?**
 - No questions or concerns at this time

**Thanks for
Watching!**