

# Vlog #3

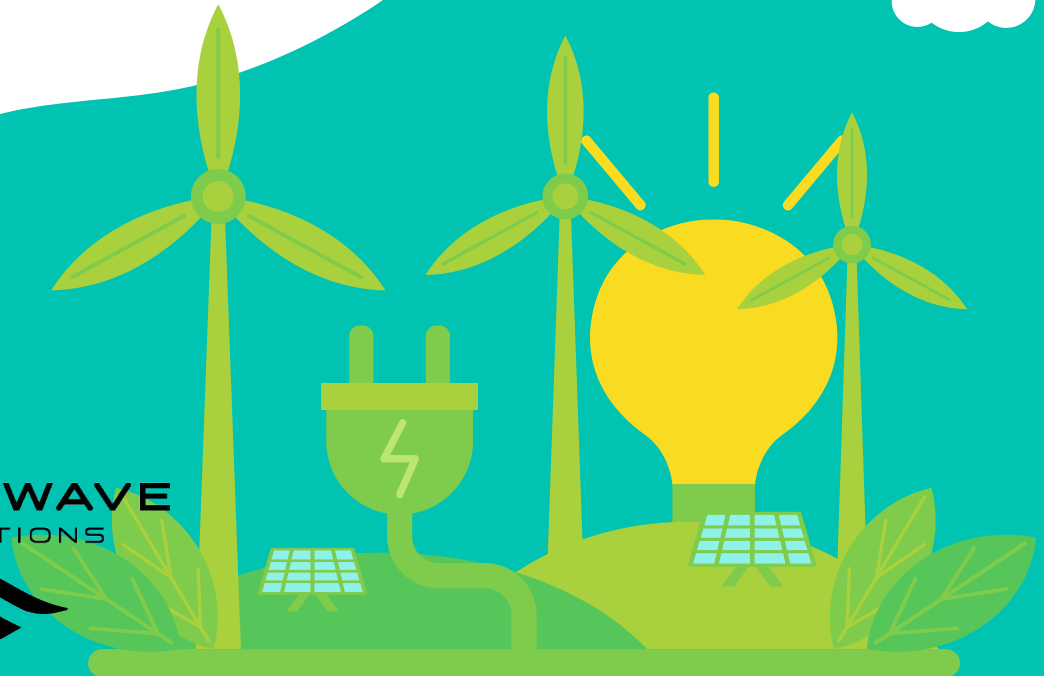
Oct. 15, 2021 - Dec. 3, 2021

## Team SolarSize

Tristan Brown-Hannibal  
Karlee Fidek  
Kaden Goski



**GREENWAVE**  
INNOVATIONS



# Team Member Reintroductions



**Tristan**



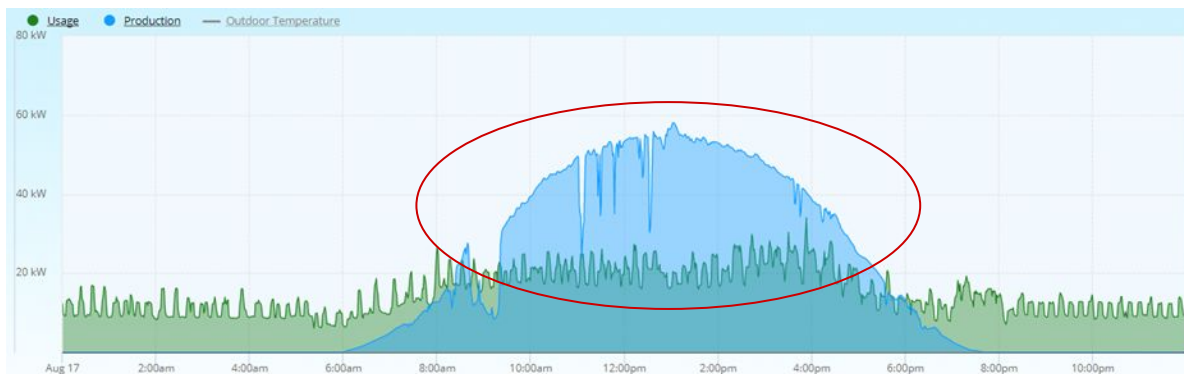
**Karlee**



**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



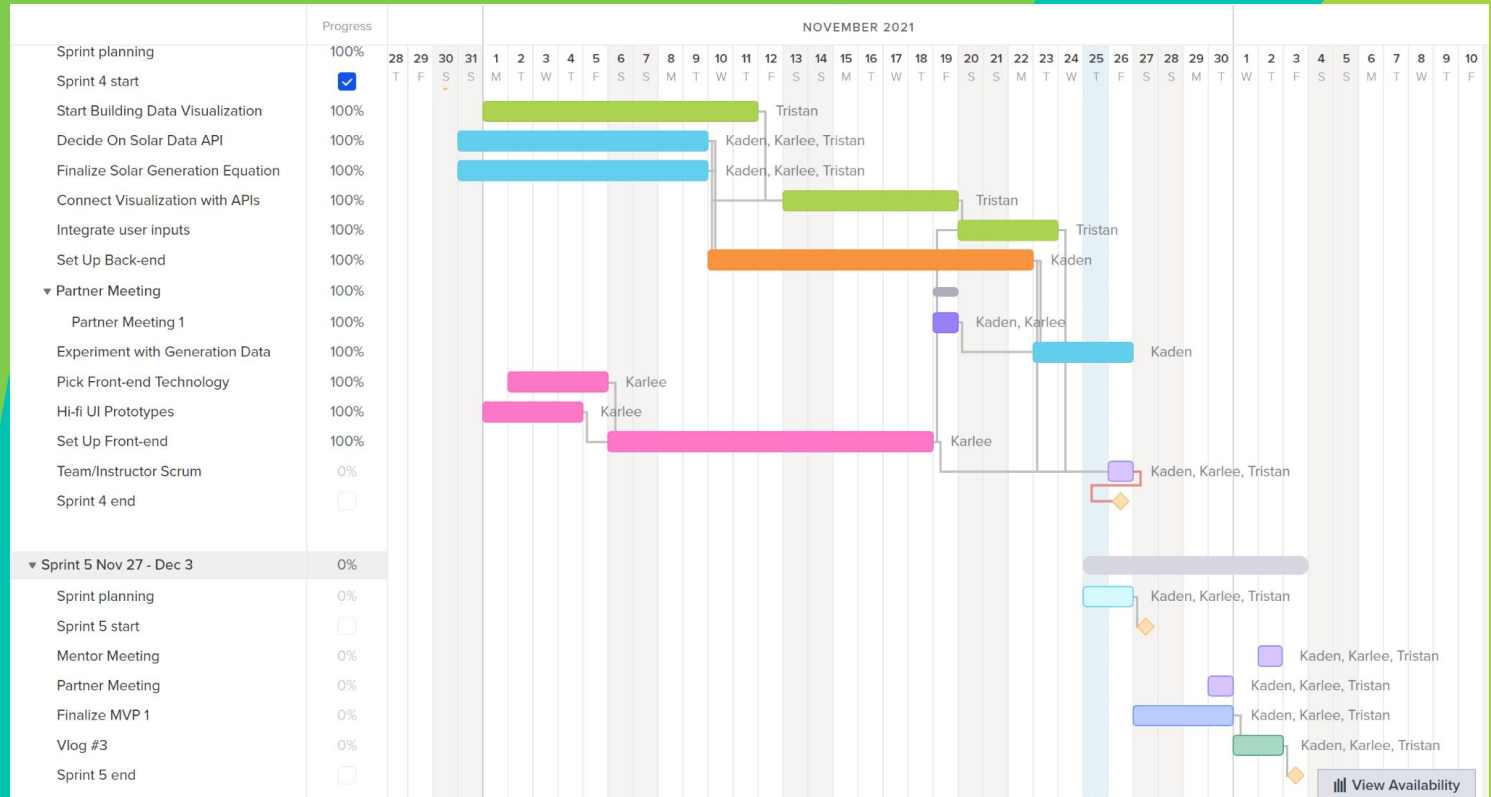
# Project Issues/Changes

- 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



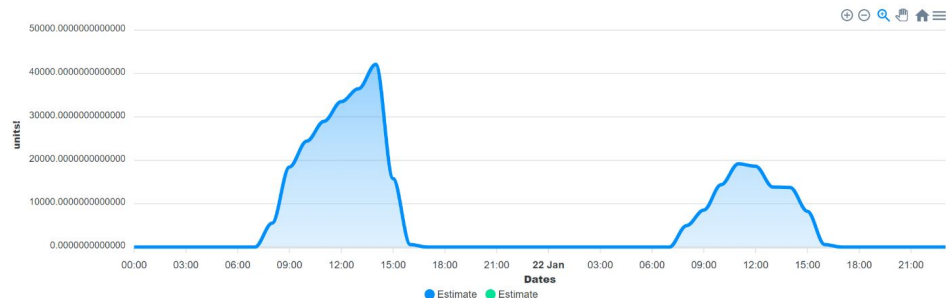
Module Tilt



End Date



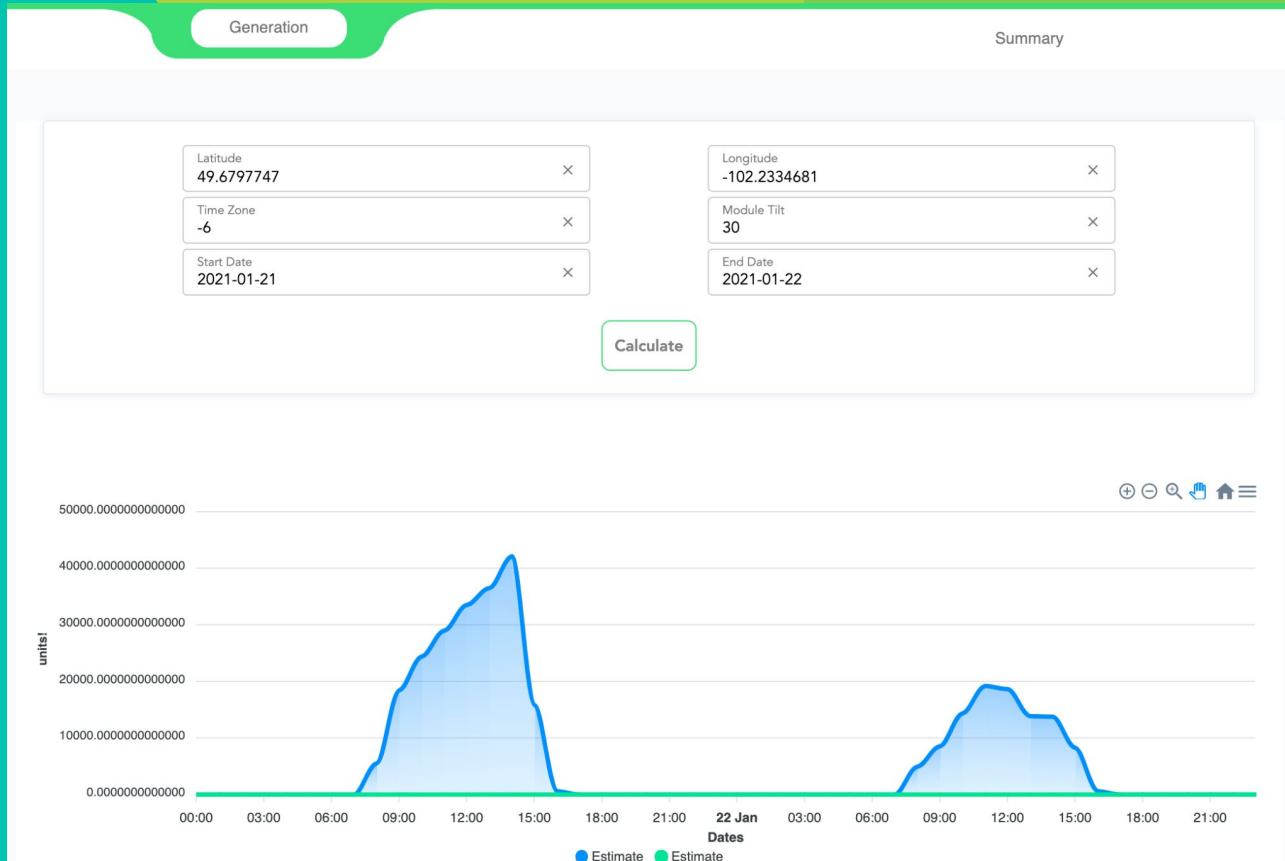
Calculate



# EC2 Server

Details			Security	Networking	Storage	Status checks	Monitoring	Tags
▼ Instance details <a href="#">Info</a>								
Platform			AMI ID			Monitoring		
📁 Ubuntu (Inferred)			📁 <a href="#">ami-036d46416a34a611c</a>			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			📁 <a href="#">brownhannibal</a>		
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!**



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