

# Vlog #5

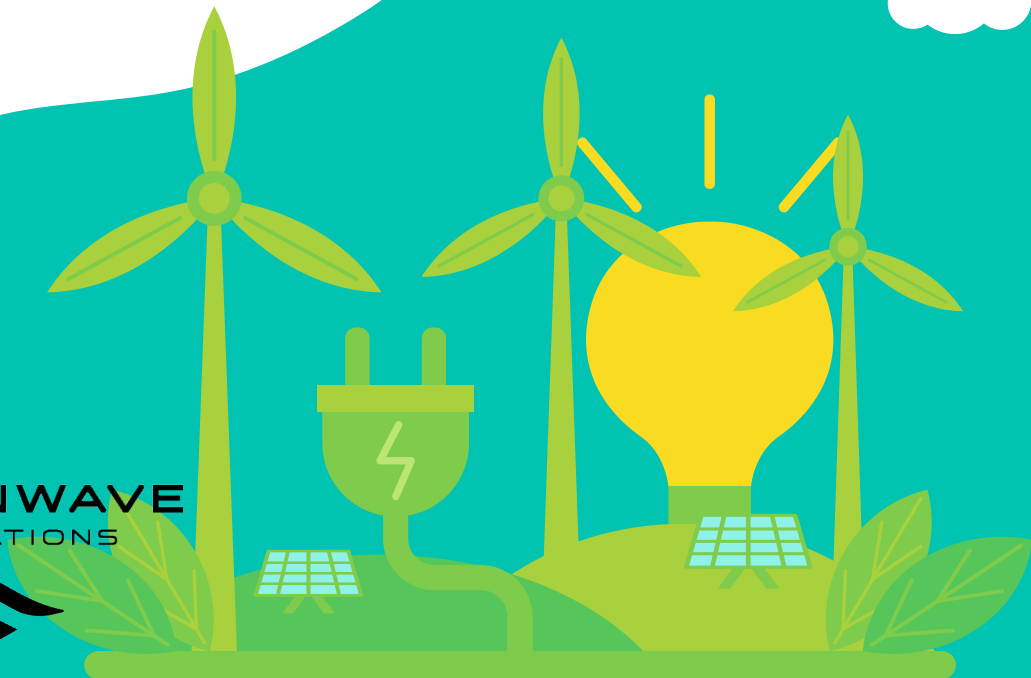
Feb. 1, 2022 - March 8, 2022

## Team SolarSize

Tristan Brown-Hannibal  
Karlee Fidek  
Kaden Goski



**GREENWAVE**  
INNOVATIONS



# Team Member Reintroductions



**Tristan**

Front-End Development  
Server Management



**Karlee**

Front-End Development  
Documentation Management

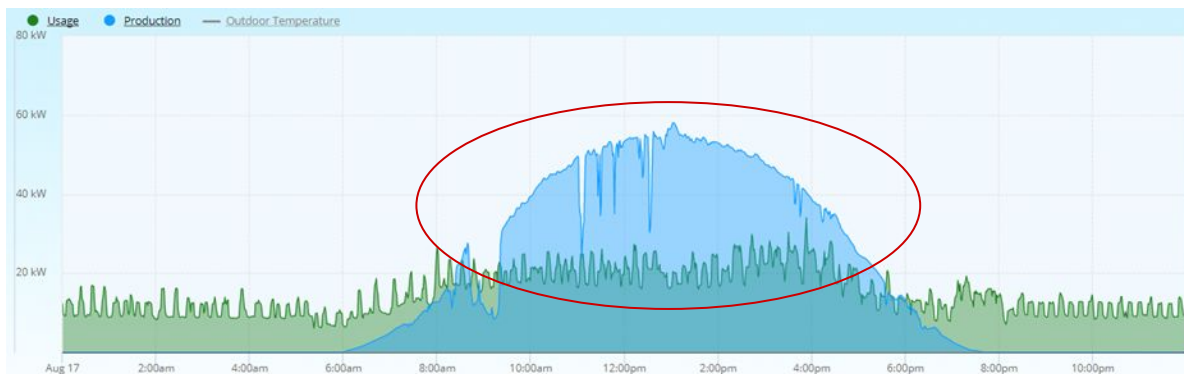


**Kaden**

Back-End Development  
Solar Estimation Model

# 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



# Project Activity Dates

**Feb. 1st, 2022 - March 8th, 2022**

- Project Bazaar Day #2
- Met with Greenwave Innovations
- Vlog #5
- Finished MVP 4

# Team Member Contributions

## Tristan

- Refactored code, separating large components into smaller ones
- Fixed bugs
- Looked into cookies for storing user locations

## Kaden

- Help and FAQ documentation
- Testing documents
- Panel/Roof direction UI

# Team Member Contributions

## Karlee

- Annual generation bar chart
- ROI and annual cash flow calculations
- About page - ROI and annual cash flow calculations
- Trello Board
- Meeting minutes

## Group

- Met with Greenwave Innovations
- Project Bazaar #2
- Completed MVP 3, 4
- Worked on MVP 5
- Project Day Abstract

# Project Status

## Green

- MVP 4 Complete
- On track with our Gantt chart timeline



# Project Issues/Changes

- Focus on determining optimal solutions rather than custom solution analysis





# Demo

Inputs

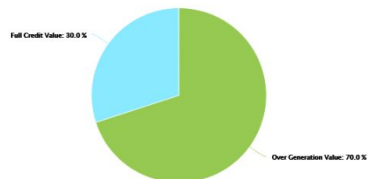
Summary

## Return Statistics

Total Return on Investment:

**-\$-287.00**

Full Credit Generation Value Vs. Over Generation Value



## Generation Statistics

Annual KWH Generated:  
2976.2195298634023 KWH



## Cash Flow Estimation



## Best Panel

The optimal panel setup is:

219 Longi – LR4-60HPB-360M – Mono – Blacks  
Angled at 30° degrees



## Consumption Graph

# Next Up

## Tristan

- Continue with bug fixes
- Add cookies to location drop down
- Begin code quality report
- Get timezone from Lat/Long

## Kaden

- Documentation
- More User and Unit testing
- More bug Fixes

# Next Up

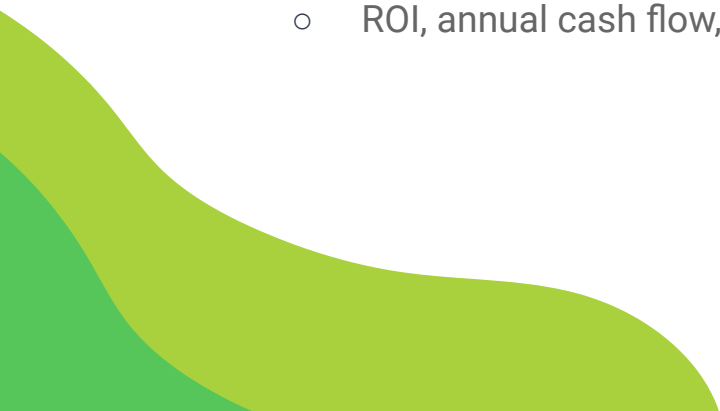
## Karlee

- ROI and annual cash flow calculation fixes
- About page - ROI calculations and general project information
- User testing
- Begin poster design
- Trello Board
- Documentation
- Meeting minutes

## Group

- Meet with Greenwave Innovations
- Meet with Dr. Yow
- Complete MVP 5 and work on MVP 6
- Complete project day requirements


# Team Reflection

- **Does the team feel "on track"?**
    - Green Status
    - Yes, we feel like we are “on track”
    - Done MVP #4
  - **What progress does the team particularly feel good (great) about?**
    - ROI, annual cash flow, and optimal installation analysis
- 

# Team Reflection

- **What barriers (if any) does the team feel are a current impediment to success?**
  - No barriers at this time
- **What help (if any) does the team require to move positively forward?**
  - No help required at this time
- **What questions or concerns does the team have (if any)?**
  - No questions or concerns at this time

**Thanks for  
Watching!**



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