

Team/Instructor Scrum #7

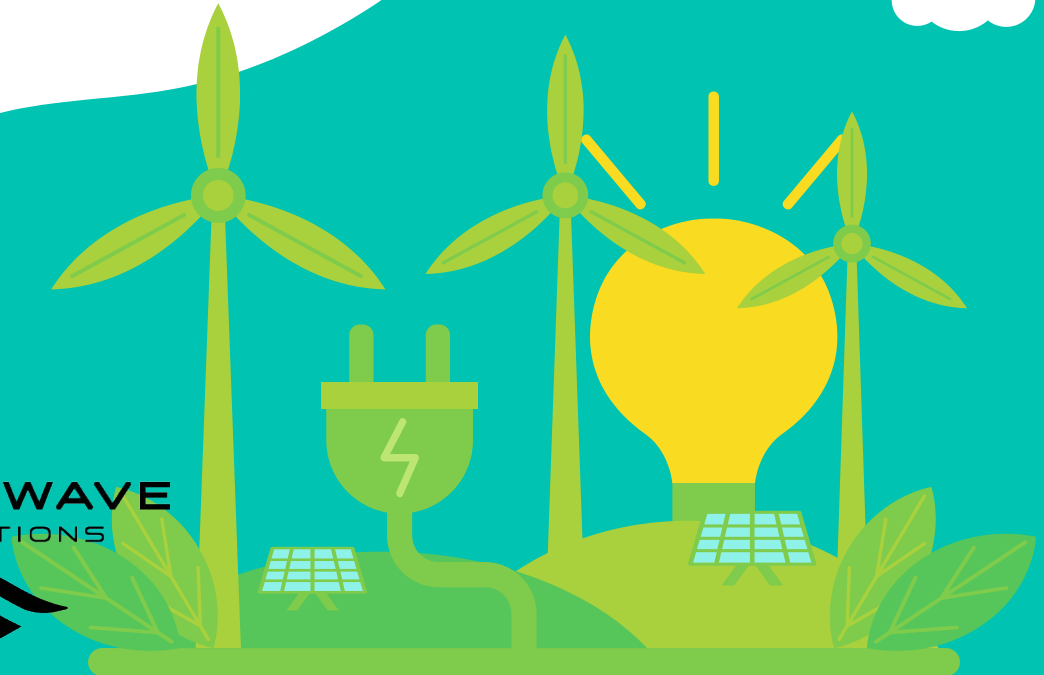
Mar. 8, 2022 - Mar. 15, 2022

Team SolarSize

Tristan Brown-Hannibal
Karlee Fidek
Kaden Goski



GREENWAVE
INNOVATIONS



Team Member Reintroductions



Tristan

Front-End Development
Server Management



Karlee

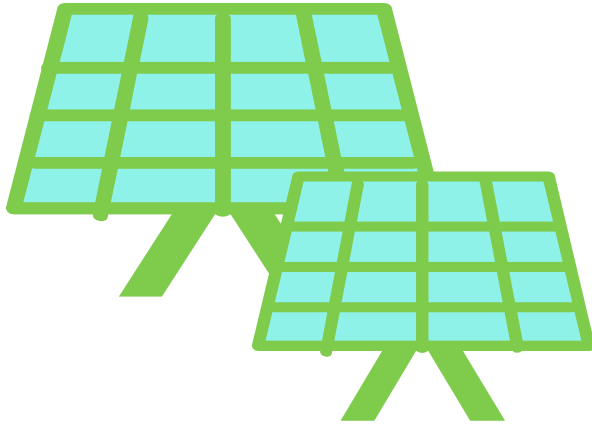
Front-End Development
Documentation Management



Kaden

Back-End Development
Solar Estimation Model

About This Project



- A tool that utilizes building consumption metrics and solar intensity data to calculate accurate ROIs
- Helps to determine over/under generation windows and size solar generation solutions accordingly

Project Status

Green

- Added an about page
- Performed some code testing



Project Issues/Changes

- No issues or changes with the project



Team Member Contributions

Tristan

- Added input for additional solar panels
- Bug fixing forms and API calls
- UI improvements

Kaden

- Testing using Dusk and bug fixing
- Documentation

Team Member Contributions

Karlee

- About page - ROI calculations and general project information
- Looked at poster design
- Trello Board
- Documentation

Group

- Worked on MVP #5
- Discussed our plan for the last month

Demo

Inputs

Summary

Return Statistics

Total Return on Investment:

-\$-287.00

Full Credit Generation Value Vs. Over Generation Value

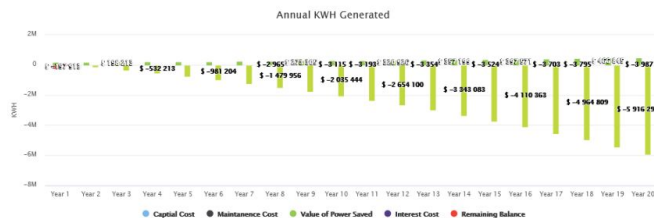


Generation Statistics

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

Testing - Dusk

```
vagrant@homestead:~/code$ php artisan dusk
PHPUnit 9.5.10 by Sebastian Bergmann and contributors.

.....

Time: 00:43.261, Memory: 22.00 MB

OK (26 tests, 51 assertions)
```

```
public function testSubmit()
{
    $this->browse(function (Browser $browser) {
        $browser->visit('/')
            ->keys('#vs1__combobox > div.vs__selected-options > input', 'Test', '{ENTER}')
            ->click('#mapSelect')
            ->assertValueIsNot('#latitude', '0')
            ->assertValueIsNot('#longitude', '0')
            ->attach('#mainForm > div:nth-child(1) > div > div > div:nth-child(4) > div > div > input', '/home/vagrant/code/tests/Browser/monthdata_cleaned.csv')
            ->click('#mainForm > div.submit-container > button')
            ->screenshot('summaryTest1')
            ->waitFor('#roiValue', 30)
            ->assertSee('219');
        $browser->scrollIntoView('#app > div.extra > div:nth-child(2) > div:nth-child(1) > div:nth-child(1) > div > header > h3')
            ->screenshot('summaryTest2');
    });
}
```

Next Up

Tristan

- Visual Improvements
- Graph bug fixes
- Add additional input validation
- Begin code quality report

Kaden

- Testing and documentation
- Bug fixes - ROI

Next Up


Karlee

- ROI and annual cash flow calculation fixes
- About page updates
- User testing
- Begin poster design
- Documentation - knowledge base

Group


- Schedule meetings with Greenwave Innovations and Dr. Yow
- Work on MVP #6
- Work on project day requirements - project experience report

Team Reflection

- **Does the team feel "on track"?**
 - Green
 - Yes, we feel like we are “on track”
 - **What progress does the team particularly feel good (great) about?**
 - Implementing about page and getting Dusk working for testing
- 

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



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