# Release 2

Delivery date: Week 13 (October 24) Total Story Points: 41

**Release Description**

The second release focuses on implementing advanced functionality to achieve more accurate results, and allowing users to save, submit and check actual data readings to ensure that the results of the calculator are accurate.

## Shade Impact

This story deals with allowing the user to specify how much shade is likely to impact the system. This helps to ensure the calculator can provide an accurate estimation of the power generated.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Shade Impact | Story Points |
| 14 | As a Potential Purchaser I want to be able to choose between a variety of panel specifications so that I can determine the one best for my situation. | **7** |
|  | Story Point Sub-Total: | **7** |

## Inverter Choice

This story deals with allowing the user to choose an inverter for the system. Each inverter has a cost and lifetime, as well as an efficiency of conversion rate.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Inverter Choice | Story Points |
| 43 | As a potential customer I want to be able to choose between a variety of inverters so that I can choose the one most effective for the panel setup. | **8** |
|  | Story Point Sub-Total: | **15** |

## Repair/Maintenance Costs

This story deals with allowing the user to specify how much shade is likely to impact the system. This helps to ensure the calculator can provide an accurate estimation of the power generated.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Shade Impact | Story Points |
| 23 | As a potential customer I want to be able to choose between a variety of inverters so that I can choose the one most effective for the panel setup. | **7** |
|  | Story Point Sub-Total: | **22** |

## Power Generation Breakdown

This story deals with allowing the user to view electricity generation in areas less than a year. It allows them to go further and see month-by-month breakdowns of how the electricity is generated over shorter periods.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Power Generation Breakdown | Story Points |
| 15 | As an **Existing Owner** I want to see the expected breakdown of power generation over a specified period, so that I can determine when the system is likely to generate most of its power. | **6** |
|  | Story Point Sub-Total: | **28** |

## Printable Information Sheets

This story deals with allowing users to generate a printable sheet. The printable sheet will have no additional display sheet, and tries to compact all the applicable results into a single page.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Printable Information Sheets | Story Points |
| 34 | As a Sales Employee I want to be able to generate printable results sheets so that I can hand to clients in a compact manner. | **6** |
|  | Story Point Sub-Total: | **34** |

# Solar Information

This story deals with allowing users to view a page about the purpose and benefits of solar power. This is a much more basic description than the terminology story provided in release one.

|  |  |  |
| --- | --- | --- |
| Story ID | Story Title: Printable Information Sheets | Story Points |
| 52 | As a potential customer I want to be able to view the purpose and benefits of solar power so I can better understand the role of solar energy. | **7** |
|  | Story Point Sub-Total: | **41** |

# Iteration One Plan

**Shade Impact (Story ID. 14).**

**Pre-Requisites:** None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Research the effect of shade on the system and how it should be  measured. | 4 Hours | - |
| 2 | Create an algorithm to determine the new power output of the system based on the shade values specified. | 6 Hours | - |
| 3 | Add an input field to the calculator page to allow for the user to enter their desired shade level. | 2 Hours | - |
| 4 | Link the input field to the algorithm to fully integrate it into the system. | 2 Hours | - |
|  | Story Points: 5 Total Hours: | 14 Hours |  |

**Inverter Choice (Story ID. 43).**

Pre-Requisites: None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Research the effect of different inverters and how they affect the  output of the system. | 4 Hours | - |
| 2 | Create an algorithm to determine the new power output of the system based on the inverter specified. | 6 Hours | - |
| 3 | Add an input field to the calculator page to allow for the user to enter their desired inverter. | 2 Hours | - |
| 4 | Link the input field to the algorithm to fully integrate it into the system. | 2 Hours | - |
|  | Story Points: 7 Total Hours: | 14 Hours |  |

**Repair and Maintenance Costs (Story ID. 23).**

Pre-Requisites: None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Research the various common costs associated with operation of a  solar panel system, such as inverter replacement. | 4 Hours | - |
| 2 | Create an algorithm to consider the effect of these costs on the output savings of the system. | 4 Hours | - |
| 3 | Create a separate output section in the results page to clearly show the user how the repair and maintenance costs of the system effect its returns. | 2 Hours | - |
|  | Story Points: 4 Total Hours: | 10 Hours |  |

# Iteration 2 Plan

**Power Generation Breakdown (Story ID. 10).**

Pre-Requisites: None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Research the various expected gains from the system each day over a  one year period. | 2 Hours | - |
| 2 | Create an algorithm to sum the results between two particular days in the year to generate the necessary bounds of power. | 2 Hours | - |
| 3 | Create a link on each year of the table which links to a month-by-month breakdown for the specified year. | 3 Hours | - |
|  | Story Points: 5 Total Hours: | 7 Hours |  |

**Printable Information Sheets (Story ID. 34).**

**Pre-Requisites:** None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Determine the information which is most "critical" to be displayed on the screen. | 4 Hours | - |
| 2 | Determine how the information should be arranged for best appearance on the page. | 6 Hours | - |
| 3 | Add buttons to link to a new page which displays this information, with no additional formatting. | 2 Hours | - |
|  | Story Points: 5 Total Hours: | 14 Hours |  |

**Printable Information Sheets (Story ID. 34).**

**Pre-Requisites:** None

|  |  |  |  |
| --- | --- | --- | --- |
| Task ID | Task Description | Estimate | Taken |
| 1 | Determine the information which is most "critical" to be displayed on the screen. | 2 Hours | - |
| 2 | Determine how the information should be arranged for best appearance on the page. | 1 Hours | - |
| 3 | Add buttons to link to a new page which displays this information, with no additional formatting. | 1 Hours | - |
| 4 | Create the new page to display the printable information sheet. | 3 Hours | - |
|  | Story Points: 5 Total Hours: | 14 Hours |  |