

Product Name: Ethereum Microtransactions for SEADS

Team Name: The 2x2

Release Name: Acorn

Release Date: 12/08/2017

High Level Goals:

1. User should be able to trade energy with others inside of an alternative-energy reliant microgrid.
2. These transactions will be made through Ethereum on SEADS devices.
3. Eventually set up these energy transactions to be automatically handled by the SEADS device, which will constantly be monitoring energy consumption and production.
4. Provide more information the the user's energy transactions through implementing a ledger.

Sprint 1:

- As a developer, I want to learn about Block Chaining/Ethereum and cryptocurrencies.
- As a developer, I need to explore possible frameworks that will provide the most customizability in the shortest amount of time.

Sprint 2:

- As a user, I want to be able to buy and sell energy with Ethereum.
- As a developer, I want to modify the existing codebase to perform standard Ethereum functions.

Sprint 3:

- As a user, I want to have a viewable ledger of my energy microtransactions to and from the microgrid.
- As a user, I want my microtransactions to be automatically handled by my SEADS device.

Sprint 4:

- As a developer, I want to provide accurate timestamps for energy microtransactions.
- As a user, I need a simple to use interface to monitor and manage my energy portfolio.