

**sdmay18-41: Energy blockchain implementation for free market P2P energy trading**

Week 6 Report

October 21 – October 29

**Team Members**Joseph Staudacher — *Power sensing & hardware fabrication*Alec Dorenkamp — *Blockchain/smart contract development*Noah Eigenfeld — *Blockchain/smart contract developer*Brendon Geils — *Blockchain/API development*Jackson Myers — *Hardware design*Arun Sondhi — *Hardware/software interface***Summary of Progress this Report**

-Developed Project Plan

Contributed to the code repository with multiple test contracts

-Began middleware specing for the smart agent

**Pending Issues**

-Buy &amp; Sell vs Buy or Sell contracts

-Creating the multi-sig contract for market usage

**Plans for Upcoming Reporting Period**

-Boilerplate marketplace in Meteor or Node

-First 0.1 contract version deployed and tested (functional coin)

**Individual Contributions**

Team Member	Contribution	Weekly Hours	Total Hours
Joseph Staudacher	Started designing the hardware software interface, project plan	8	34
Alec Dorenkamp	Investigated safety risks and security vulnerabilities and created plans for mitigating those.	10	37
Noah Eigenfeld	Deployed test contracts and blockchain tutorials	9	36
Brendon Geils	Met with energy investor, had an economics	10	52

	professor on implementation feasibility. Deployed multiple test contracts and market coin design.		
Jackson Myers	Worked on the project plan, created initial Gantt chart, and researched required hardware specs	8	39
Arun Sondhi	Worked on Project Plan v2. Did additional testing on Raspberry Pi based on current sensor datasheet	8	35