

Prosumers are the Way

Senior Design Project

The Team

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Objectives

Implement a small distribution system model to check the transactive energy in a network.

Research into what other countries have done or are currently doing and how they are implementing it.

Find out what security risks there are going to be in how big of a system we choose.

Value Proposition

With our findings they will be able to design an application that can be used to sell and buy electricity with your neighbors or utility company.

Product Requirements

The modeling software that we choose must be able to communicate with a coding program that can change the model dynamically

Since we are dealing with renewable energy, we will have to consider the changing of weather

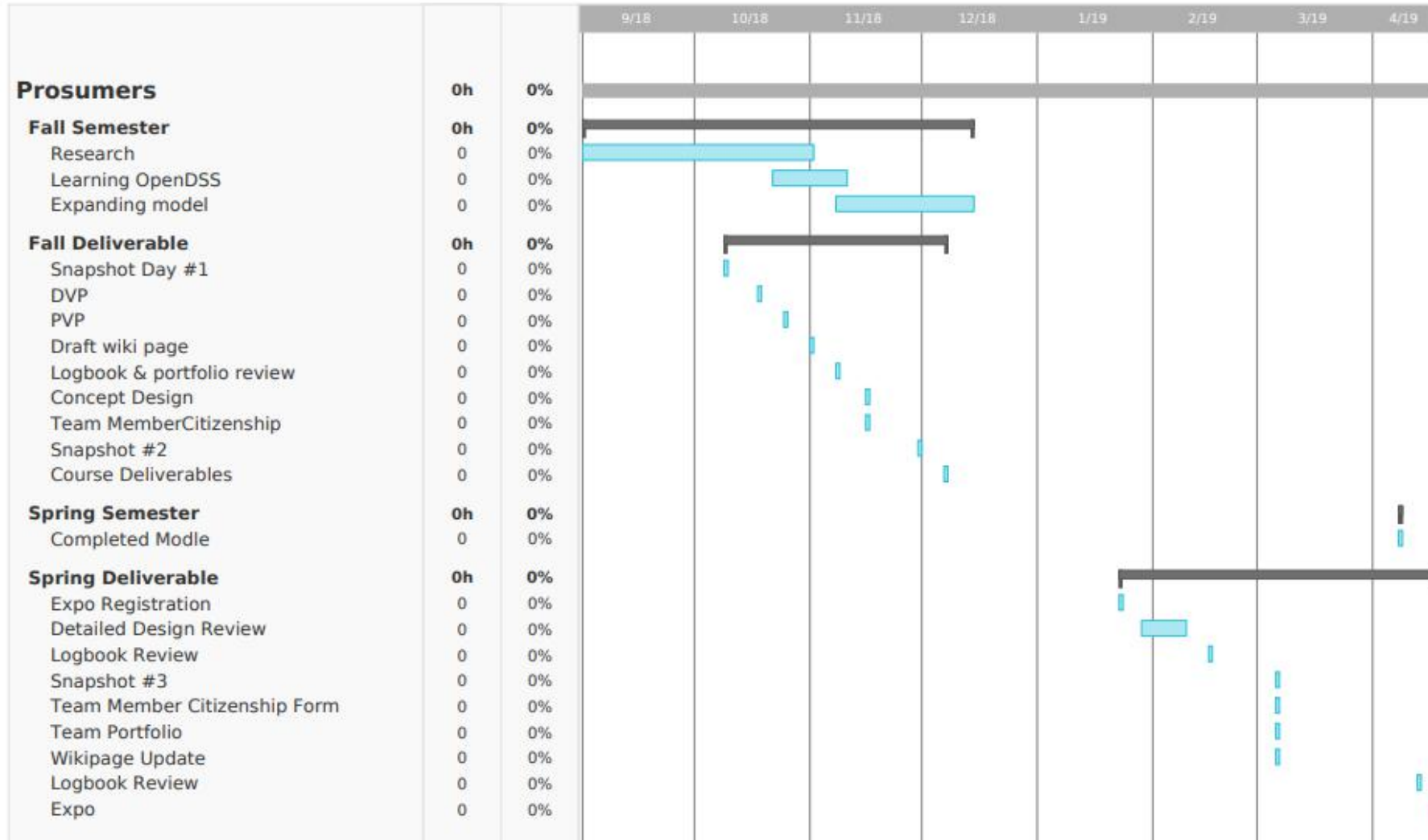
Budget

What has been provided for us:

\$150 for traveling to Avista in their Spokane location at most three times this year

\$100 for our Design Expo poster

Schedule



Research Papers

Integrating PowerWorld and MatLab for Optimal Dispatch and Unit Commitment Study of Competitive Electric Power Markets

Software Comparison for Renewable Energy Deployment in a Distribution Network

IEEE, Transactive Energy the hot topic in the industry.

Transactive Control: a framework for operating power systems characterized by high penetration of distributed energy resources.

Simulation of Smart Functionalities of Photovoltaic Inverters by Interfacing OpenDSS and Matlab